Neuroscience 2004

Final Program

General Information

San Diego, CA ▪ October 23–27

Society for Neuroscience
34th Annual Meeting

SOCIETY FOR NEUROSCIENCE

Information at a Glance

www.sfn.org/am2004

Important Phone Numbers — San Diego Convention Center

Annual Meeting Services

* HQ Office/Logistics:	Sails Pavilion, (619) 525-6200
** HQ Office/Programming:	Sails Pavilion, (619) 525-6210
*** Society Executive Meeting Room:	Room 16A, Mezzanine Level, (619) 525-6270
General Information Booth:	Lobby E and C, (619) 525-6296
Message Center:	Lobby A, D, and G, (619) 525-6290
Press Room:	Room 15A, Mezzanine Level, (619) 525-6250
Exhibit Management:	Lobby D, (619) 525-6230

First Aid & Hospital Numbers

First Aid Room:	Lobby C, (619) 525-6295
First Aid Room In-House Phone:	ext. 6295 (when dialing from inside convention center)
Scripps Mercy Hospital	4077 5th Avenue (619) 294-8111

* Annual Meeting logistics and advance registration inquiries.
**Audiovisual and sessioning information for symposia, minisymposia, slide and poster sessions, special lectures, and socials for the 2004 and 2005 annual meetings.
***Matters of Council, Committees, and Past Presidents.

Key to Color Coding of Poster Floors by Themes

To facilitate finding presentations under a particular theme, the poster floor will have colored signs at the end of each row to denote the theme scheduled for that particular row. Below is a key to the color-coding of the poster floor by theme. The poster floor will begin with Theme A and end with Theme I. Refer to the map at the end of this booklet to view the poster floor map.

	Theme	Color
A	Development	Yellow
B	Synaptic Transmission and Excitability	Red
C	Sensory Systems	Blue
D	Motor Systems	Pink
E	Homeostatic and Neuroendocrine Systems	Green
F	Cognition and Behavior	Orange
G	Neurological and Psychiatric Conditions	Light Blue
H	Techniques in Neuroscience	Purple
I	History and Teaching of Neuroscience	White

Contents

Scientific Content

Registration, Hotel, & Travel

Attendee Resources

Sustaining Associate Members

The Society for Neuroscience gratefully acknowledges the generous support of its Sustaining Associate Members:

Gold Sustaining Associate Members

Aventis Pharmaceuticals
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Novartis Institutes for BioMedical Research
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Institute for the Study of Aging
Juvenile Diabetes Research Foundation International
National Institute on Drug Abuse/NIH/DHHS
Research Institute for Applied Neurosciences (FAN)

Annual Meeting Contributors

Association of Neuroscience Departments and Programs (ANDP)
SfN/ANDP Student Hospitality Suite

AstraZeneca
SfN/AstraZeneca Young Investigator Award
History of Neuroscience Lecture

Aventis
SfN Mentoring Program Reception

Bristol-Myers Squibb Company
Presidential Special Lectures

The Burroughs Wellcome Fund
SfN Chapters/Burroughs Wellcome Postdoctoral Travel Awards

Eli Lilly & Company
Ralph W. Gerard Prize in Neuroscience SfN Chapters/Eli Lilly Graduate Student Travel Awards and Reception

Elsevier
Public Lecture

The Grass Foundation
The Albert and Ellen Grass Lecture
Donald B. Lindsley Prize in Behavioral Neuroscience

Johnson & Johnson Pharmaceutical Research and Development
SfN Annual Minority Reception

Merck & Co., Inc.
Presidential Symposium

National Institute of Mental Health
Minority Neuroscience Fellowship Program

National Institute of Neurological Disorders and Stroke
Neuroscience Scholars Program
Neurobiology of Disease Workshop
Minority Neuroscience Fellowship Program

Novartis Pharma
Presidential Special Lecture

The Peter Gruber Foundation
Peter Gruber Lecture

Pfizer, Inc.
Pfizer Lecture

The Philanthropic Collaborative at Rockefeller Philanthropy Advisors
The Jacob P. Waletzky Memorial Award for Innovative Research in Drug Addiction and Alcoholism

The Society for Neuroscience is solely responsible for the content of the courses, workshops, and lectures presented at its annual meeting.

The Society for Neuroscience gratefully acknowledges the generous support of the following event contributors:

The Peter Gruber Foundation

The Grass Foundation

Answers That Matter.

Welcome

The Society for Neuroscience 34th Annual Meeting provides the best that neuroscience has to offer through a wide array of lectures, symposia, minisymposia, workshops, and slide and poster presentations. With more than 17,000 presentations scheduled to take place, there will be ample opportunity for all meeting attendees to experience the newest and most exciting happenings in neuroscience today. The Neuroscience 2004 Program is a comprehensive guide to all aspects of the meeting, from attendee resources to session listings.

Sessions begin at 1 p.m. on Saturday and conclude at 5 p.m. on Wednesday. Symposia and minisymposia start at 8:30 a.m. and 1:30 p.m. Slide and poster sessions start at 8 a.m. and 1 p.m. Morning slide sessions, symposia, and minisymposia usually end by 11 a.m., and posters continue until noon. Afternoon slide sessions, symposia, and minisymposia end by 4 p.m., with posters continuing until 5 p.m. Exhibits are open from 9:30 a.m. to 5 p.m., Sunday through Wednesday.

Highlights of the Program include:

Minisymposia

The new presentation category, minisymposia, offers two-and-a-half-hour presentations on exciting topics, usually featuring six speakers. This hybrid of the symposia and slide session presentation formats will allow for greater exposure for more speakers and their research.

Continuing Medical Education

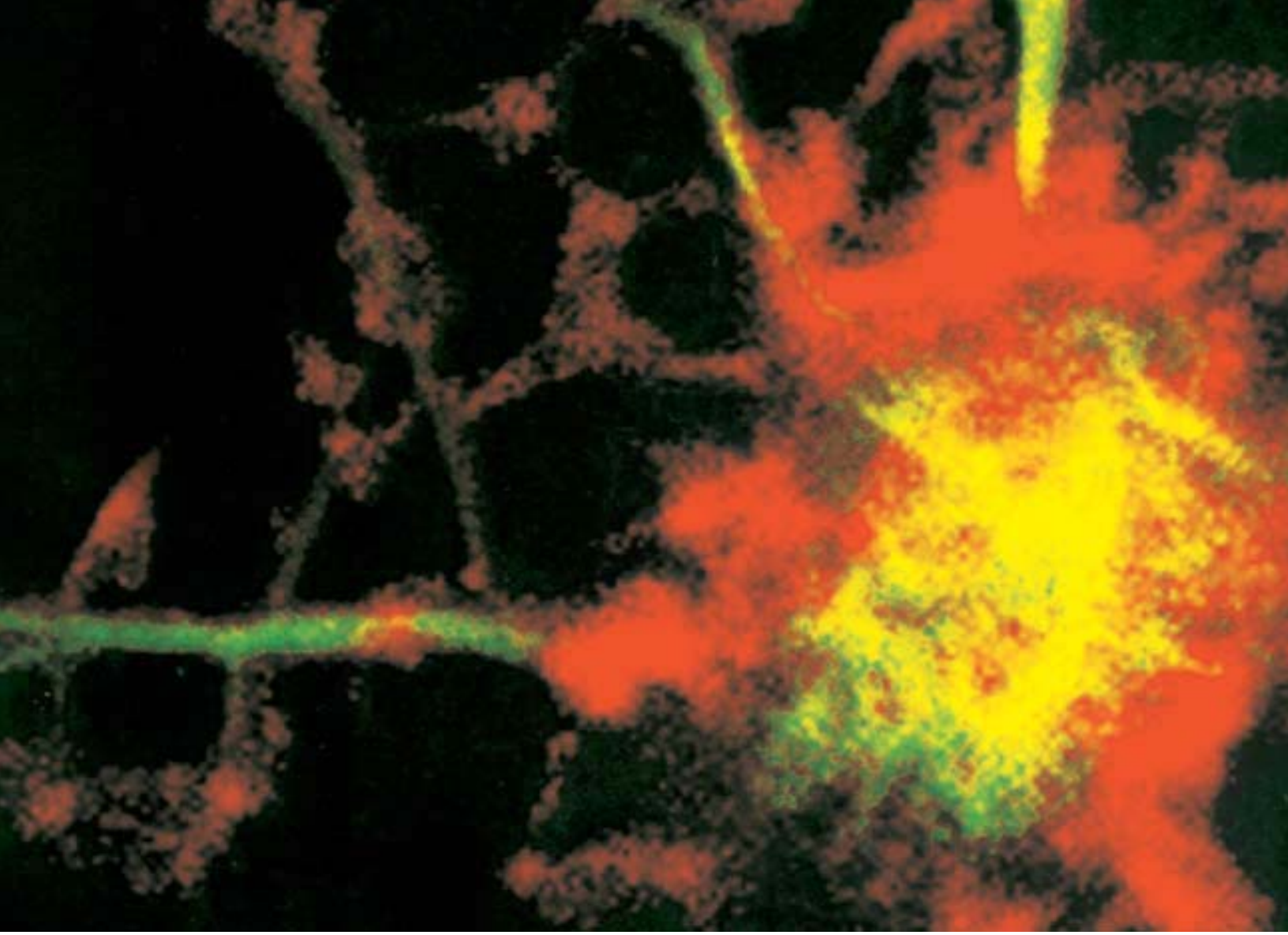
Once again, the Society is pleased to offer medical professionals the opportunity to earn almost all of their required yearly Category 1 Continuing Medical Education (CME) credits during Neuroscience 2004. Up to 41.75 credits may be acquired by attending a wide variety of presentations including special lectures, symposia, and minisymposia.

Focus on Public Education

Many public education resources will be available to meeting attendees at Neuroscience 2004. From the daily poster sessions on the History and Teaching of Neuroscience to information about Brain Awareness Week, there are a great number of opportunities to get involved in educating others about neuroscience!

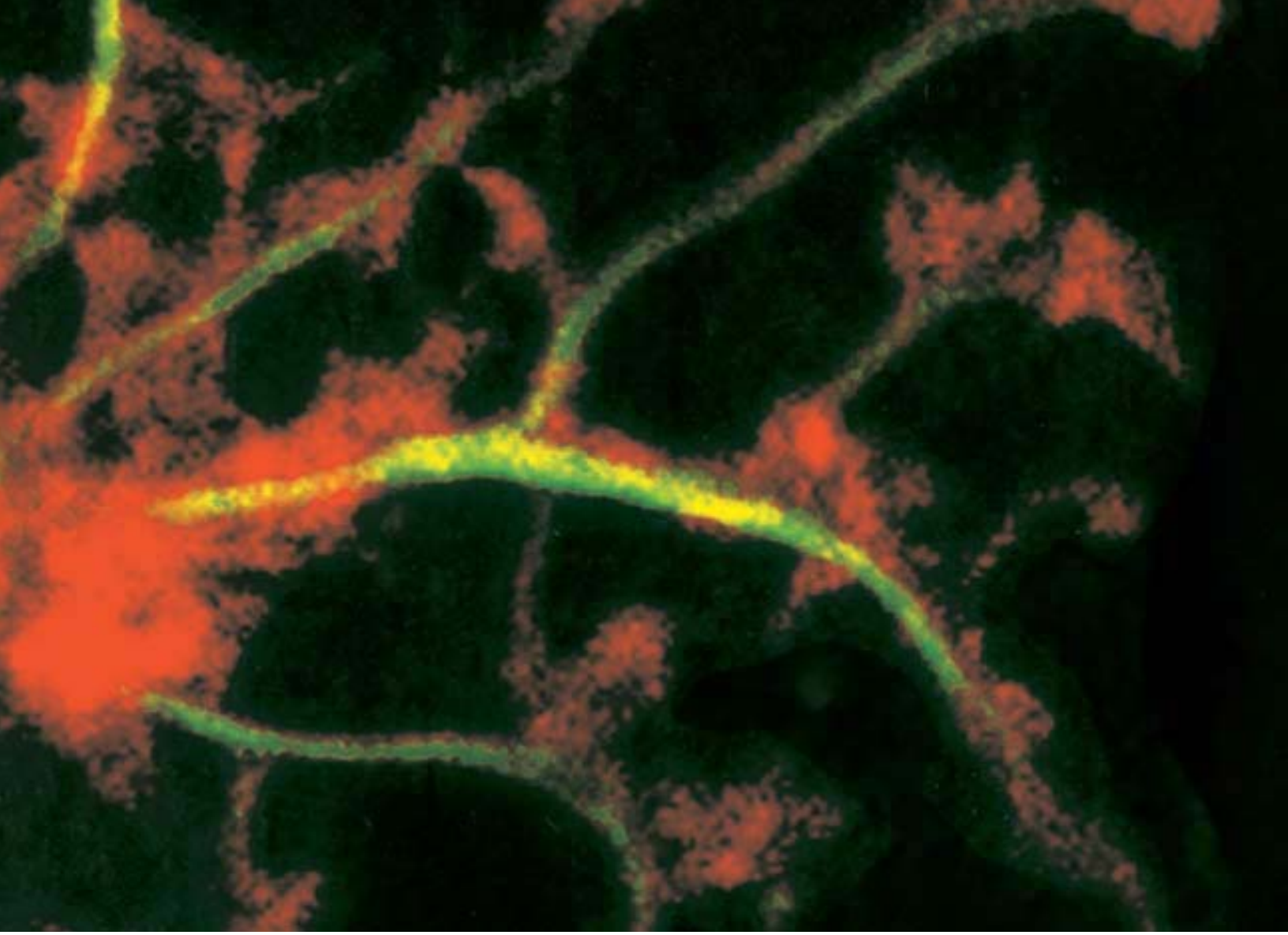
Navigate Neuroscience 2004 with Ease!

The Society offers a number of services to help attendees find their way through Neuroscience 2004 as quickly and easily as possible. Shuttle routes are comprehensive and frequent, especially during peak hours, allowing attendees to move between the convention center and official SfN hotels with ease. The two SfN-sponsored general information booths in the main lobby are excellent sources of meeting information. And once again, the Society for Neuroscience booth in the exhibit hall can help attendees with all SfN needs including membership renewal, chapters inquiries, T-shirt purchases, and questions for *The Journal of Neuroscience* staff.



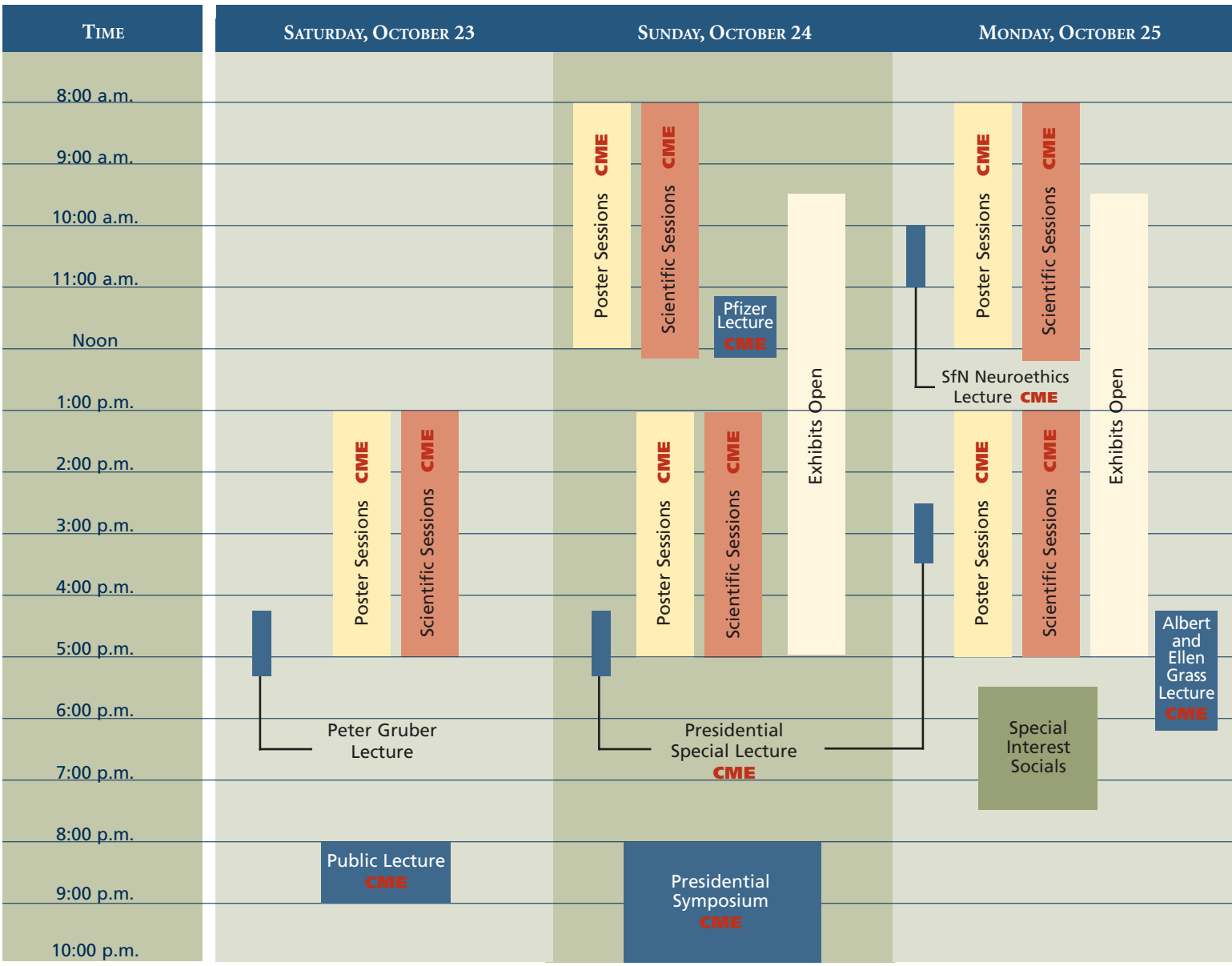
Scientific Content

visit us at www.sfn.org/am2004

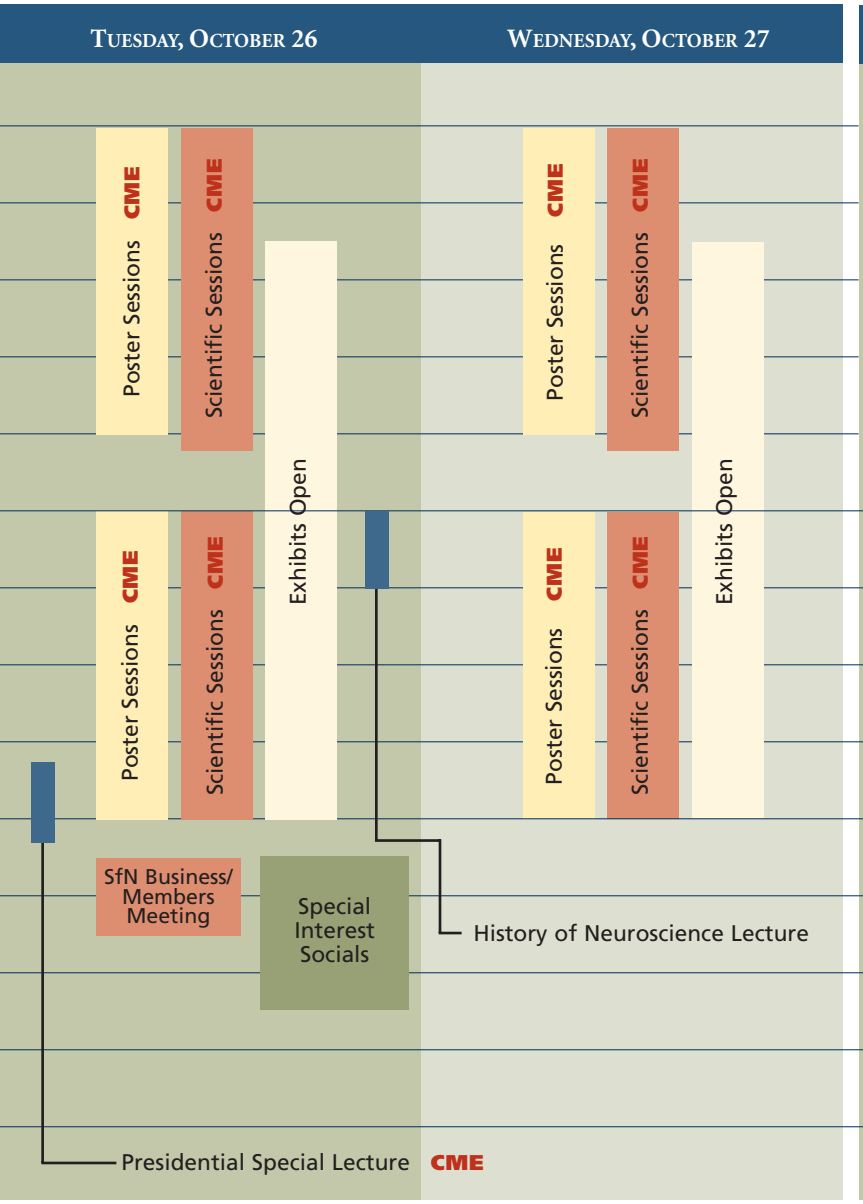


Program at a Glance

www.sfn.org/am2004



CME *These events are available for CME credit. See page 91 for details.*



Notes

On-Site Registration Hours

Friday, October 22	2 p.m. – 5 p.m.
Saturday, October 23	9 a.m. – 5 p.m.
Sunday, October 24	8 a.m. – 5 p.m.
Monday, October 25*	8 a.m. – 5 p.m.
Tuesday, October 26*	8 a.m. – 5 p.m.
Wednesday, October 27*	8 a.m. – 3 p.m.

* On Monday, Tuesday, and Wednesday, registration will be conducted in the Society's Business Office (San Diego Convention Center, Sails Pavilion).

Featured Lectures

www.sfn.org/lectures

Public Lecture

Alzheimer's Disease: From Genetic Pathways to Novel Therapeutic Inroads CME

Speaker: Rudolph E. Tanzi, PhD
Massachusetts General Hospital, Harvard Medical School
Support contributed by Elsevier

Saturday, October 23, 8 – 9 p.m.
San Diego Convention Center, Ballroom 20

Alzheimer's disease (AD), the most common form of dementia in the elderly, is a genetically complex disorder. The ongoing identification and characterization of novel AD genes should not only allow for improved diagnosis of AD, but also foster the development of effective therapeutic strategies based on early prediction and early intervention.

Presidential Symposium

Falling Into Place: The New Era of Neurodegeneration

Please see page 12 for details.

Presidential Special Lecture

RNA Editing and RNA Interference: How do dsRNA Binding Proteins Affect Behavior? CME

Speaker: Brenda L. Bass, PhD
University of Utah
Support contributed by Novartis Pharma

Monday, October 25, 2:30 – 3:30 p.m.
San Diego Convention Center, Ballroom 20

The RNA editing enzymes called ADARs are abundant in the nervous system, where they play important roles. The presentation will give an overview of how these enzymes function to diversify the information encoded in our genomes, as well as give specific examples of altered behavior in animals lacking ADARs.

Presidential Special Lecture

Neuronal Migration: Molecular Mechanisms and Environmental Influences CME

Speaker: Pasko Rakic, MD, PhD
Yale University School of Medicine
Support contributed by Bristol-Myers Squibb Company

Sunday, October 24, 4:15 – 5:15 p.m.
San Diego Convention Center, Ballroom 20

The identity, synaptic relationship, and, ultimately, function of neurons are defined by their position. Neurons in the cerebral cortex acquire their position by active migration from multiple sites of origin involving complex molecular events and cell-cell interactions. Advanced experimental approaches enable identification of genes and molecules that control mode of stem cell division and guide postmitotic neurons to their proper positions, providing new insights into normal development and the pathogenesis of the highest brain functions.

Presidential Special Lecture

Intrinsic Dynamics of Neurons Dominate Network Interactions in the Basal Ganglia CME

Speaker: Charles J. Wilson, PhD
University of Texas, San Antonio
Support contributed by Bristol-Myers Squibb Company

Tuesday, October 26, 4:15 – 5:15 p.m.
San Diego Convention Center, Ballroom 20

Studies of intrinsic physiological properties of basal ganglia neurons have revealed unexpectedly complex patterns of autonomous activity and modes of synaptic integration that change our view of how information is processed in these structures. These findings require a reinterpretation of the connectivity of the basal ganglia and their role in procedural learning and movement.

Albert and Ellen Grass Lecture

Building and Breeding Molecules to Spy on Cells and Networks CME

Speaker: Roger Y. Tsien, PhD
University of California, San Diego, Howard Hughes Medical Institute
Support contributed by The Grass Foundation

Monday, October 25, 4:15 – 6:15 p.m.
San Diego Convention Center, Ballroom 20

Fluorescent proteins have revolutionized many areas of neurobiology by providing real-time nondestructive readouts of gene expression, cell fate, and signaling biochemistry. This lecture will review the latest improvements and applications, including longer wavelengths and indicators of redox status and neurotransmitter concentrations. Semisynthetic alternatives monitor the age and electron-microscopic location of protein molecules or map protease activities potentially in whole mammals.

Preceded by the presentation of the (1) Donald B. Lindsley Prize in Behavioral Neuroscience, supported by The Grass Foundation, (2) SfN/AstraZeneca Young Investigator Award, supported by AstraZeneca, (3) The Jacob P. Waletzky Memorial Award for Innovative Research in Drug Addiction and Alcoholism, supported by The Philanthropic Collaborative at Rockefeller Philanthropy Advisors, and (4) the Society for Neuroscience Science Educator Award.

CME *These events are available for CME credit. See page 91 for details.*

Peter Gruber Lecture

Adventures in Neurogenetics

Speaker: Seymour Benzer, PhD
California Institute of Technology
Support contributed by
The Peter Gruber Foundation

Saturday, October 23, 4:15 – 5:15 p.m.
San Diego Convention Center, Ballroom 20

The lecture will describe the use of genetic methods to analyze nervous system development, function, and behavior.

SfN Lecture on Neuroethics

Whither Neuroethics?
A Developmental Perspective CME

Speaker: Stephan L. Chorover, PhD
Massachusetts Institute of Technology

Monday, October 25, 10 – 11 a.m.
San Diego Convention Center, Ballroom 20

Recent advances in neuroscience raise a host of ethical, moral, legal, and political questions. Several of these will be surveyed in historical context. For example, is applied neuroscience helping to enhance the quality of human life? Is it promoting sociotechnical dehumanization? What might be done to give neuroscience and neuroscientists a better chance of contributing responsibly to the emergence of a more just, participatory, and sustainable society?

Pfizer Lecture

Rewards, Predictions, and Uncertainty CME

Speaker: Wolfram Schultz, MD
University of Cambridge
Support contributed by Pfizer, Inc.

Sunday, October 24, 11:15 a.m. – 12:15 p.m.
San Diego Convention Center, Ballroom 20

Survival in uncertain environments requires individuals to maximize the intake of liquids and foods. This task involves the detection of rewards and the use of predictions for reducing subjective uncertainty. This lecture will describe how neurons in major reward structures process reward information, adapt the processing to predictions about available rewards, and explicitly signal uncertainty.

History of Neuroscience Lecture

Ethology, Birdsong, and the Innateness Controversy

Speaker: Peter R. Marler, PhD
University of California, Davis
Support contributed by AstraZeneca

Tuesday, October 26, 1 – 2 p.m.
San Diego Convention Center, Ballroom 20

This lecture will argue that in the 1950s, well-founded notions about instinctive behavior, dating back to Darwin, became mired in controversies that significantly delayed the emergence of potentially fertile synergisms between ethology and systems neuroscience.

Preceded by the presentation of the Ralph W. Gerard Prize in Neuroscience, supported by Eli Lilly & Co.

Special Lectures

www.sfn.org/lectures

Theme A: Development

Inhibiting the Inhibitors – On the Road to Spinal Cord Regeneration CME

Speaker: Marie T. Filbin, PhD
Hunter College

Wednesday, October 27, 11:15 a.m. – 12:15 p.m.
San Diego Convention Center, Ballroom 20

Inhibitors in myelin contribute to the lack of regeneration after spinal cord injury. To date, three inhibitors have been identified, as well as a receptor complex with which they all interact. The lecture will cover a variety of strategies to overcome these inhibitors, which involve either neutralizing the inhibitors or changing the axonal response to the inhibitors.

Activity-Dependent Processes in Spinal Motor Circuit Formation CME

Speaker: Lynn T. Landmesser, PhD
Case Western Reserve University

Sunday, October 24, 10 – 11 a.m.
San Diego Convention Center, Ballroom 20

Recent studies have challenged the conventional view that activity-dependent processes are only used to fine-tune connections established by molecular mechanisms. Spontaneous activity affects both neuronal phenotypic differentiation and axon guidance. The generation of such activity and how altering it affects circuit formation will be discussed.

Environmental 'Programming' of Individual Differences in Defensive and Reproductive Behaviors Through Maternal Effects on Chromatin Structure and Gene Expression CME

Speaker: Michael J. Meaney, PhD
Douglas Hospital Research Center

Tuesday, October 26, 11:15 a.m. – 12:15 p.m.
San Diego Convention Center, Ballroom 20

Individual differences in gene expression and behavior are transmitted from parent to offspring through a nongenomic mechanism that involves variations in parent-offspring interactions. These effects appear to involve chromatin remodeling, including stable effects of parent care on DNA methylation and histone acetylation, epigenetic effects that thus stably influence gene expression.

Theme B: Synaptic Transmission and Excitability

Electrical Synapses in the Mammalian Brain CME

Speaker: Barry W. Connors, PhD
Brown University

Wednesday, October 27, 2:30 – 3:30 p.m.
San Diego Convention Center, Ballroom 20

Electrical synapses are gap junctions that interconnect neurons. Recent evidence shows that they are surprisingly common in the mammalian brain. Unlike chemical synapses, electrical synapses allow two-way flow of ions and small organic molecules between cells. This lecture will review the characteristics of electrical synapses, their distribution, and some of their functions within diverse neural circuits.

Potassium Channels CME

Speaker: Lily Y. Jan, PhD
University of California, San Francisco, Howard Hughes Medical Institute

Monday, October 25, 1 – 2 p.m.
San Diego Convention Center, Ballroom 20

Potassium channels contribute to neuronal signaling and control neuronal excitability; potassium channel mutations are known to cause epilepsy, deafness, episodic ataxia, cardiac arrhythmia, and muscle diseases. The number and function of potassium channels in turn may be regulated by neuronal activity. Recent progress in these studies will be discussed.

Theme C: Sensory Systems

Dendritic Computation: Does Structure Matter? CME

Speaker: Gwen A. Jacobs, PhD
Montana State University

Tuesday, October 26, 2:30 – 3:30 p.m.
San Diego Convention Center, Ballroom 20

The functional properties of dendrites have been described in many ways: as passive, leaky funnels for synaptic current, or as active integrators capable of amplifying remote synaptic inputs. This talk will describe how dendritic structure and membrane properties sculpt the computational properties of neurons and enhance their specific roles in information processing.

The Limits of Human Vision CME

Speaker: David R. Williams, PhD
University of Rochester

Tuesday, October 26, 10 – 11 a.m.
San Diego Convention Center, Ballroom 20

Adaptive optics, a technology invented to improve the resolution of telescopes, can also extend the limits of human vision and allow microscopic imaging of single cells in the living retina. Imaging with adaptive optics reveals the mosaic of all three cone classes in the trichromatic retina and provides insight into the mechanisms responsible for color vision.

Theme D: Motor Systems

Neural Prosthetics: Decoding Intention and Expected Value CME

Speaker: Richard A. Andersen, PhD
California Institute of Technology

Saturday, October 23, 2:30 – 3:30 p.m.
San Diego Convention Center, Ballroom 20

Monkey studies have recorded cognitive thoughts including the location of intended goals and the expected value of obtaining such-goals without the animals

CME *These events are available for CME credit. See page 91 for details.*

making any movements. Neural prosthetic recordings from paralyzed humans can potentially use the former signals to direct the actions of machines and the latter to provide online monitoring of preferences, decisions, and motivational state.

Basal Ganglia Output: Normal, Abnormal, and Therapeutically Altered CME
Speaker: Marjorie E. Anderson, PhD
University of Washington

Wednesday, October 27, 1 – 2 p.m.
San Diego Convention Center, Ballroom 20

This special lecture will discuss models of changes in basal ganglia output in disease and during pallidotomy and deep brain stimulation.

Theme E: Homeostatic and Neuroendocrine Systems

Neural Implications of Sleep Apnea: Injury, Plasticity, and Repair CME
Speaker: David Gozal, MD
Kosair Children's Hospital Research Institute, University of Louisville

Wednesday, October 27, 10 – 11 a.m.
San Diego Convention Center, Ballroom 20

Recent evidence conclusively delineates neurocognitive and behavioral morbidities associated with sleep apnea. Potential mechanisms underlying the characteristics of such adverse consequences involve coordinated interaction between pathways mediating neuronal programmed cell death and neurogenesis.

Cellular and Molecular Basis of Circadian Timing CME
Speaker: Steven M. Reppert, MD
University of Massachusetts Medical School

Saturday, October 23, 1 – 2 p.m.
San Diego Convention Center, Ballroom 20

Circadian rhythms are the outward manifestation of an internal timing system. Genetic, molecular, and biochemical approaches in mice have rapidly advanced our understanding of the mechanisms underlying circadian timing in mammals.

Theme F: Cognition and Behavior

"Squishy and Crunchy": The Enduring Value of Neuroethology for Neuroscience CME
Speaker: Ronald R. Hoy, PhD
Cornell University

Sunday, October 24, 2:30 – 3:30 p.m.
San Diego Convention Center, Ballroom 20

The rich history of behavioral neuroscience has as its primary focus human behavior. However, since the beginning of time, humans have been fascinated by parallels between animal and human behavior. Our understanding of the neural substrates of behavior has been richly informed by the study of animals as model systems. Neuroethology is the study of the neural basis of animal behavior that is operationally framed around the techniques of comparative biology and, theoretically, around evolutionary biology. Thus, neuroethologists exploit especially illustrative adaptive behaviors to gain insight into general mechanisms of sensory and neural coding, rhythmic behavior, learning, and communication behavior, all of which are key issues in human behavior, and its neural substrates, as well. Examples of neuroethology's contributions, past and future, will be presented.

Language and the Brain: Computation With Constraints CME
Speaker: Patricia K. Kuhl, PhD
University of Washington

Monday, October 25, 11:15 a.m. – 12:15 p.m.
San Diego Convention Center, Ballroom 20

This presentation reviews debates on language acquisition and summarizes recent behavioral and brain studies on language conducted on infants and adults. The presentation summarizes infants' computational approaches to language, and also shows that random computation may be constrained by social interaction during the early stages of language acquisition.

Theme G: Neurological and Psychiatric Conditions

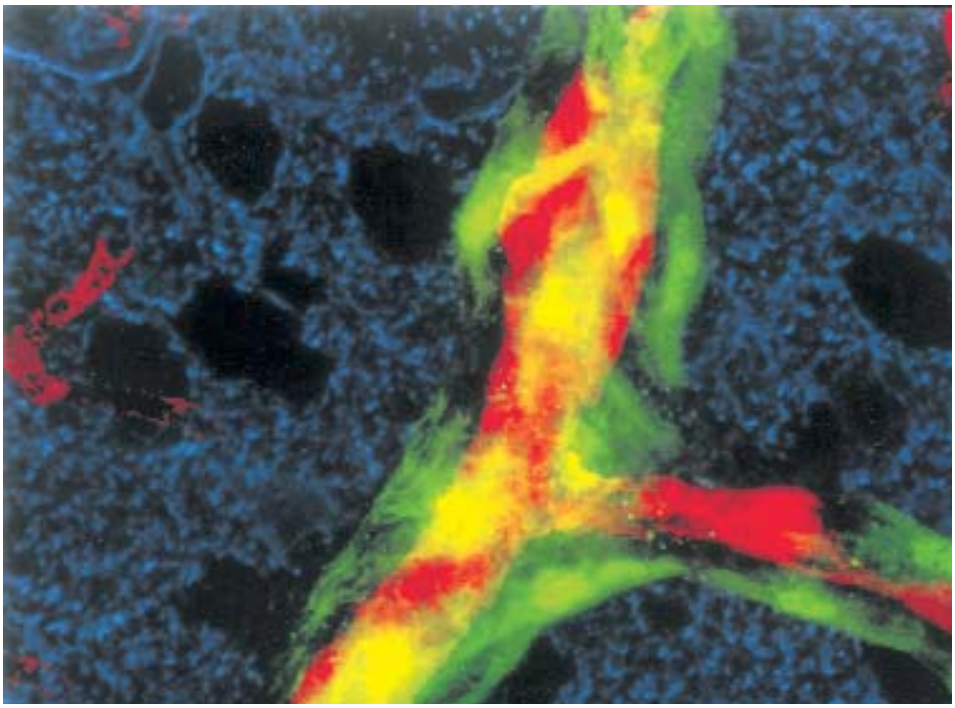
Insights Into Basic and Clinical Neurobiology Derived from the Analysis of Genetic Causes of Neurodegenerative Disease CME
Speaker: Peter H. St. George-Hyslop, MD, FRCP(C)
Centre for Research in Neurodegenerative Diseases, University of Toronto and Toronto Western Hospital Research Institute

Sunday, October 24, 1 – 2 p.m.
San Diego Convention Center, Ballroom 20

Although adult onset neurodegenerative diseases have both genetic and nongenetic causes and diverse clinical features, they often arise from disordered protein folding. The identification of genes associated with rare inherited forms of these diseases has provided models of the pathogenesis of the more common nongenetic cases (e.g., misprocessing of Aβ), new potential therapeutic targets (e.g., Aβ- generating enzymes), and unexpected insights into fundamental biological processes (e.g., regulated intramembranous proteolysis).

Symposia

www.sfn.org/symposia



Presidential Symposium: Falling Into Place: The New Era of Neurodegeneration

Support contributed by Merck & Co., Inc.

Convergent Pathogenic Mechanisms in Parkinson's Disease CME

Speaker: J. Timothy Greenamyre, MD, PhD

Sunday, October 24, 8 – 10 p.m.

San Diego Convention Center, Ballroom 20

As mechanisms that lead to neurodegeneration in Parkinson's disease are delineated, it is becoming apparent that there is a limited set of convergent pathogenic pathways. Therapeutic targeting of these mechanisms, individually, or in combination, using pharmacological or genetic approaches, offers the hope of slowing or halting disease progression.

From Charcot to Lou Gehrig: Motor Neuron Growth and Death CME

Speaker: Don W. Cleveland, PhD

Sunday, October 24, 8 – 10 p.m.

San Diego Convention Center, Ballroom 20

Since description by Charcot, the mechanism of neuronal death in ALS has remained elusive. An inherited form is caused by mutation in superoxide dismutase (SOD1). As is true for many of the genes whose mutation causes the major neurodegenerative diseases, SOD1 is ubiquitously expressed, despite selective killing of motor neurons. Genetic methods in mice have revealed that neuronal death requires mutant SOD1 action within neighboring non-neuronal cells, raising the possibility of a therapy through stem cell replacement of non-neuronal cells.

The Neuroprotective Function of Huntingtin and its Altered Activity in Huntington's Disease CME

Speaker: Elena Cattaneo, PhD

Sunday, October 24, 8 – 10 p.m.

San Diego Convention Center, Ballroom 20

This presentation will discuss the known physiological activities of huntingtin. We will argue that understanding the function of this disease gene may help in elucidating the dysfunctions that occur in Huntington's disease (HD). Wild-type huntingtin has neuroprotective activities in brain cells. Our data link huntingtin to an important neurotrophin (BDNF) and to a class of neuronal genes. The study of the biology of huntingtin may increase our understanding of neuronal functions and may open up strategies aimed at restoring normal huntingtin activity in HD.

Theme A: Development

Molecular Mechanisms of Schwann Cell-Axon Interactions CME

Chaired by: Gabriel Corfas, PhD

Sunday, October 24, 1:30 – 4 p.m.

San Diego Convention Center, Room 6C

Axons in normal peripheral nerves are always in close association with Schwann cells. Interactions between the axons and these glial cells are critical for nerve development, function, maintenance, and regeneration. This panel will discuss recent advances in the identification of molecules that control axon-Schwann cell interactions and in the elucidation of their mechanisms of action.

CME *These events are available for CME credit. See page 91 for details.*

Asymmetric Cell Division and Mammalian Neural Development CME
Chaired by: Weimin Zhong, PhD
Tuesday, October 26, 1:30 – 4 p.m.
San Diego Convention Center, Room 6D
Asymmetric cell division plays critical roles in diversifying neural cell fates in invertebrates like *Drosophila*. Much less is known about its contribution during mammalian neural development. This symposium will summarize exciting recent advances that establish an essential requirement for this process in mammals, particularly in constructing the cerebral cortex and maintaining neural stem cells.

Theme B: Synaptic Transmission and Excitability

Roles of Specific Ion Channels in Cellular and Integrated CNS Activity CME
Chaired by: Abdeljabbar El Manira, PhD
Tuesday, October 26, 1:30 – 4 p.m.
San Diego Convention Center, Room 6C
Significant contributions have been made on the gating and the properties of specific ion channels, but our understanding of how specific ion channels contribute to neuronal and network activity is still not well advanced. This symposium will provide a forum to discuss recent advances and future perspectives on how ion channels participate in CNS function.

Calmodulin-Ion Channel Interactions and Neuronal Excitability CME
Chaired by: Johannes W. Hell, PhD
Monday, October 25, 8:30 – 11 a.m.
San Diego Convention Center, Room 6A
Unanticipated roles for CaM in ion channel regulation have recently been discovered. We will talk about the interactions of CaM with various ion channels including SK channels, calcium channels, the ryanodine receptor, and the NMDA-type glutamate receptor. This work forms the basis for future studies on neuronal excitability and related disorders such as epilepsy or stroke-induced neurological damage.

The Molecular Basis for the Maintenance of Synaptic Memory CME
Chaired by: John E. Lisman, PhD
Sunday, October 24, 8:30 – 11 a.m.
San Diego Convention Center, Room 6C
Memory appears to be encoded by changes in synapses. It is therefore critical to understand the mechanisms that account for the stability of these changes. Four mechanisms will be discussed: 1) a prion-like switch; 2) a switch based on the autocatalytic properties of CaMKII; 3) growth of new connections; and 4) activity-dependent change in local protein synthesis.

How Dynamic Interactions of Intrinsic Bursting and Synaptic Properties Shape Network Functions CME
Chaired by: Jan Marino Ramirez, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 30E
This symposium discusses the importance of a dynamic interplay between intrinsic bursting and synaptic properties for controlling normal behaviors such as breathing, sleep, learning, and memory. This interplay requires homeostatic control, which when disrupted may lead to neurological disorders such as SIDS and epilepsy.

Synaptic Plasticity and Receptor Dynamics at the Postsynaptic Membrane CME
Chaired by: Antoine Triller, MD, DSc
Co-Chaired by: Daniel Choquet, PhD
Saturday, October 23, 1:30 – 4 p.m.
San Diego Convention Center, Room 6A
Imaging single molecules revealed that inhibitory and excitatory receptors are constantly moving within the plasma membrane and they are transiently trapped by postsynaptic scaffolding molecules. The aim of this symposium is to reconcile these dynamic aspects with the stability and plasticity of the postsynaptic membrane in the context of spines motility and membrane endo/exocytotic movements.

Theme C: Sensory Systems

The Pulvinar Revisited: Higher-Order Visual Functions in the Thalamus CME
Chaired by: Christian F.P. Casanova, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 6D
This symposium will offer a modern understanding of the structure-function of the largest extrageniculate visual thalamic complex in higher mammals, namely the pulvinar. It will emphasize the notion that this thalamic complex is implicated in higher-order cognitive functions through an active partnership with cortical areas.

C-Fibers Are Not Just for Pain Anymore CME
*Chaired by:*A.D. (Bud) Craig, PhD
Co-Chair: Alan R. Light, PhD
Sunday, October 24, 8:30 – 11 a.m.
San Diego Convention Center, Room 6D
This symposium presents emerging evidence of the fundamental role of small-diameter A-delta and C-fibers as homeostatic afferents that relate the ongoing physiological condition of all tissues of the body and provide emotional 'feelings' from the body.

Cortical States: Evidence and Functional Significance CME
Chaired by: Dario L. Ringach, PhD
Saturday, October 23, 1:30 – 4 p.m.
San Diego Convention Center, Room 6C
The overall goal of the symposium is to discuss evidence suggesting that cortical networks can exhibit 'intrinsic states' of activity and to speculate on the functional significance such states may have in normal sensory processing.

CME *These events are available for CME credit. See page 91 for details.*

Theme D: Motor Systems

Functional Organization of Mammalian Spinal Motor Systems CME

Chaired by: Robert M. Brownstone, MD, PhD
Monday, October 25, 1:30 – 4 p.m.
San Diego Convention Center, Room 6C

Better understanding of the neural organization of the spinal cord provides a basis for further progress in spinal cord repair. The combination of molecular biological, anatomical, physiological, and modeling approaches has led to an explosion in our understanding of spinal cord motor systems. The symposium will demonstrate exciting progress toward our insight into spinal motor network function.

Origins of Flexibility in Functional Motor Networks CME

Chaired by: Jorn Hounsgaard, MD
Wednesday, October 27, 1:30 – 4 p.m.
San Diego Convention Center, Room 6D

By considering motor CPGs from a range of invertebrate and vertebrate models, the symposium will examine the extent to which the functional dynamics and flexibility of neural networks can be understood from the properties of their molecular and cellular elements.

Theme E: Homeostatic and Neuroendocrine Systems

Reciprocal Communication Between the Brain and Pelvic Viscera CME

Chaired by: Rita J. Valentino, PhD
Tuesday, October 26, 8:30 – 11 a.m.
San Diego Convention Center, Room 6D

Reciprocal communication between the brain and viscera is essential for coordinating behavior with visceral functions but may also underlie disorders expressed as psychiatric and visceral comorbidity. This symposium will present neural substrates and circuits that link the brain with pelvic viscera and discuss plasticity within these circuits that may lead to neuro-visceral disorders.

Theme F: Cognition and Behavior

Sex, Gender, Drugs, and the Brain CME

Chaired by: Jill B. Becker, PhD
Sunday, October 24, 1:30 – 4 p.m.
San Diego Convention Center, Room 6A

Sex differences in the nervous system are pervasive and complex. Consequently, the way that males and females perceive and respond to their environment is sexually dimorphic. This interdisciplinary symposium will discuss current approaches for studying sex differences in the brain and explore how gonadal hormones influence the brain, using examples from basic animal and clinical research.

Plasticity of Brain and Behavior in a Naturalistic Context CME

Chaired by: Russell D. Fernald, PhD
Monday, October 25, 8:30 – 11 a.m.
San Diego Convention Center, Room 6D

Animal phenotypic plasticity in nature depends on social and environmental context, and this flexibility requires changes in neural and genetic substrates of behavior. Using techniques from behavior to molecular biology, we will show how naturalistic animal systems (birds, bees, fish, and voles) allow analysis and understanding of both the evolutionary and mechanistic bases of phenotypic plasticity.

Theme G: Neurological and Psychiatric Conditions

Neuregulins: From Synapses to Schizophrenia? **CME**
Chaired by: Gerald D. Fischbach, MD
Co-Chair: Lorna W. Role, PhD
Tuesday, October 26, 8:30 – 11 a.m.
San Diego Convention Center, Room 6A
This symposium will present recent findings on the role of neuregulins in neural signaling, glial development, and human diseases. Contributions of neuregulins to receptor regulation, synaptic plasticity, and glial differentiation will be presented by Lorna Role, PhD; Andres Buonanno, PhD; and Steven L. Carroll, MD, PhD. Paul Harrison, MD, PhD, and Kari Stefansson, MD, PhD, will provide the integrative overview afforded by their studies comparing normal vs. schizophrenic human brains and populations.

RNA-Based Mechanisms in Neurological Disorders **CME**
Chaired by: Fen-Biao Gao, PhD
Co-Chair: Stephen T. Warren, PhD
Monday, October 25, 8:30 – 11 a.m.
San Diego Convention Center, Room 6C
RNA-binding proteins control multiple steps of mRNA metabolism, such as splicing, transport, localization, translation, and degradation. Several neurological disorders are associated with aberrations in mRNA metabolism. This symposium will discuss the role of expansion of non-coding RNAs in neurodegeneration and the function and targets of RNA-binding proteins involved in neurological disorders.

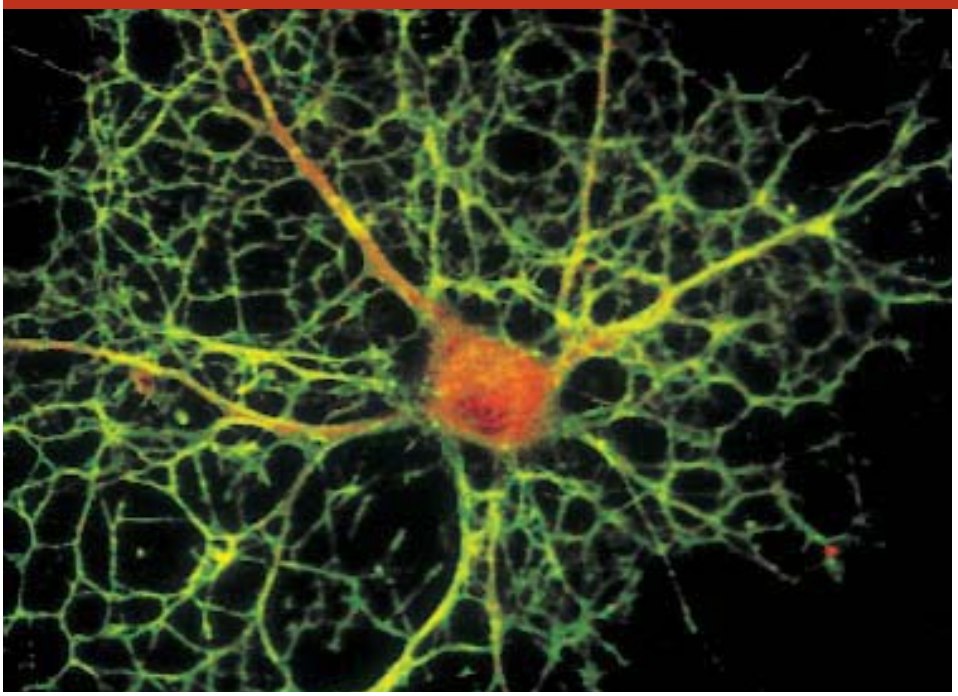
Ischemic Tolerance: Endogenous Mechanisms of Cerebral Protection **CME**
Chaired by: Jeffrey M. Gidday, PhD
Wednesday, October 27, 1:30 – 4 p.m.
San Diego Convention Center, Room 6C
Activation of endogenous mechanisms of cytoprotection represents a novel therapeutic strategy for preventing or reducing injury caused by stroke and other acute and chronic neurological diseases. This symposium brings together leading experts in the field to provide a comprehensive overview of the novel induction and expression mechanisms responsible for the ischemia-tolerant phenotype.

Divide and Die: Cell Cycle Events as Triggers of Nerve Cell Death **CME**
Chaired by: Karl Herrup, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 6A
Neuroscientists tend to be unaware of the linkage between the cell cycle and cell death pathways in the adult central nervous system. Neuronal BrdU labeling, for example, can be either a reflection of neurogenesis, or a cell cycle-related neuronal death process. This symposium will summarize progress in this emerging field, with emphasis on the relevance of cell cycle phenomena to neurodegenerative diseases.

Impairments of Cellular Plasticity and Resilience in Severe Mood Disorders: Causal or Collateral? **CME**
Chaired by: Husseini K. Manji, MD
Co-Chair: Fred H. Gage, PhD
Wednesday, October 27, 1:30 – 4 p.m.
San Diego Convention Center, Room 6A
This integrated preclinical/clinical symposium addresses the potential causal relationship between cellular plasticity and resilience and the pathophysiology and treatment of severe mood disorders. It will address factors regulating neurogenesis, neuroimaging, and postmortem data showing impairments of plasticity and resilience in mood disorders. The development of novel therapeutics will be discussed.

COX-2 and Its Reaction Products: Regulation and Roles in Neurodegeneration and Neuroprotection **CME**
Chaired by: M. Kerry O'Banion, MD, PhD
Sunday, October 24, 8:30 – 11 a.m.
San Diego Convention Center, Room 6A
Cyclooxygenase-2 and its principal products, the prostaglandins, have been implicated in a variety of fundamental brain processes that impact on neural disease, including excitotoxicity and neuroinflammation. Speakers will discuss the complex regulation and signaling mechanisms of these mediators, emphasizing their multiple and sometimes paradoxical roles in neuropathology.

Cross-Talk Between the Peripheral Immune System and the Brain in Health and Disease: Implications for Neurodegenerative Diseases **CME**
Chaired by: Michal Schwartz, PhD
Saturday, October 23, 1:30 – 4 p.m.
San Diego Convention Center, Room 6D
The CNS poorly tolerates uncontrolled defensive battles fought by innate immunity (microglia). This symposium addresses brain immunity, the role of innate and peripheral adaptive immunity (autoimmunity) in CNS



CME *These events are available for CME credit. See page 91 for details.*

health and disease, and novel therapies for autoimmune, neurodegenerative, and psychogenic disorders. Emerging new perceptions help explain why proper brain functioning requires a healthy immune system.

Tourette's Syndrome: The Self Under Siege CME
Chaired by: Neal R. Swerdlow, MD, PhD
Co-Chair: James F. Leckman, MD
Monday, October 25, 1:30 – 4 p.m.
San Diego Convention Center, Room 6D
The objective of this symposium is to provide a timely summary of recent advances in our understanding of the natural history, pathophysiology, and treatment of Tourette's syndrome.

Dysbindin in the Pathogenesis of Schizophrenia CME
Chaired by: Konrad Talbot, PhD
Sunday, October 24, 1:30 – 4 p.m.
San Diego Convention Center, Room 6D
Variation in dysbindin DNA has been associated with schizophrenia in 11 studies. Brain dysbindin levels are reduced in as many as 93 percent of schizophrenia cases. Dysbindin anomalies may thus contribute to the pathogenesis of schizophrenia. This symposium assesses that possibility from the perspectives of genetics, molecular biology, immunohistochemistry, electrophysiology, and cognitive neuroscience.

Hypoxic-Ischemic Brain Injury: Babies Are Not Little Adults CME
Chaired by: Susan J. Vannucci, PhD
Co-Chair: Donna M. Ferriero, MD
Tuesday, October 26, 1:30 – 4 p.m.
San Diego Convention Center, Room 6A
Hypoxic-ischemic injury to the perinatal brain is a major clinical problem causing death in a large number of affected infants and lifelong disability in the survivors. This symposium will discuss normal developmental differences in the immature brain that create periods of selective vulnerability to hypoxia-ischemia and are quite distinct from the responses in adult stroke.

Theme I: History and Teaching of Neuroscience

Neuroethics: Emerging Ethical Issues in Neuroscience CME
Chaired by: Martha J. Farah, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 6C
The new capabilities of neuroscience raise unprecedented ethical issues. The goal of this symposium is to identify some of the most pressing ethical issues, including the use of brain imaging to obtain psychological information about individuals, pharmacologic enhancement of normal mood and cognition, and the implications of brain-based explanations of behavior for our understanding of responsibility and blame.

Public Understanding of Neuroscience - Your Responsibility CME
Chaired by: Adrian J. Ivinson, PhD
Co-Chair: Shadi Farhangrazi, PhD
Tuesday, October 26, 8:30 – 11 a.m.
San Diego Convention Center, Room 6C
In a time of tighter research budgets and increasing willingness of politicians and others to manipulate and restrict funding to suit nonscience agendas, it is all the more important to engage the public and seek their understanding and support for what we do. This symposium will demonstrate the importance of public understanding of neuroscience and the risks of ignoring the issue.

Hebb's Legacy: Celebrating D.O. Hebb's 100th birthday CME
Chaired by: Lynn Nadel, PhD
Monday, October 25, 1:30 – 4 p.m.
San Diego Convention Center, Room 6A
Topics will include Hebb's focus on perceptual and emotional development, the neuropsychological approach, theories about the neural bases of cognition, and postulates about how experience alters the brain. This symposium will feature several speakers who had personal contacts with Hebb from the 1950s to the 1980s.

Minisymposia

www.sfn.org/minisymposia

Theme A: Development

Imaging Dynamic Growth Cone Behavior and Function CME

Chaired by: Chi-Bin Chien, PhD
Co-Chaired by: Timothy M. Gomez, PhD
Monday, October 25, 8:30 – 11 a.m.
San Diego Convention Center, Room 31C
This minisymposium will address the molecular basis of dynamic growth cone behavior during axon guidance. The speakers are using live-cell imaging of growth cones both in vitro and in vivo to directly image function at the cellular and molecular levels, using a variety of fluorescent probes and GFP-tagged proteins together with genetic and molecular perturbations.

Cell Adhesion Molecules in Synapse Formation CME

Chaired by: Alaa El-Husseini, PhD
Co-Chaired by: Philip E. Washbourne, PhD
Wednesday, October 27, 1:30 – 4 p.m.
San Diego Convention Center, Room 31C
Recent studies point to cell-cell contact via cell adhesion molecules as being the signal that brings about synapse formation between axons and dendrites. This minisymposium will provide an overview of and insights into mechanisms used by cell adhesion molecules to induce synaptic differentiation.

Notch and Numb Signaling During Mammalian Brain Development CME

Chaired by: Nicholas R. Gaiano, PhD
Co-Chaired by: Heather Mason, PhD
Monday, October 25, 1:30 – 4 p.m.
San Diego Convention Center, Room 31C
The Notch pathway regulates cell fate specification in the developing mammalian brain. This minisymposium will examine Notch function during the establishment, maintenance, and differentiation of neural stem cells. In addition, speakers will consider the role of Numb, a regulator both of Notch signaling and of asymmetric cell division. Conflicting views of Numb function will be discussed.

New Insights into the Cellular and Molecular Mechanisms Patterning Cortical Connectivity CME

Chaired by: Franck Polleux, PhD
Co-Chaired by: Pierre Vanderhaeghen, MD, PhD
Saturday, October 23, 1:30 – 4 p.m.
San Diego Convention Center, Room 31C
The identification of the developmental mechanisms patterning cortical connectivity represents an essential step toward understanding the causes of developmental neuropathologies such as mental retardation, autism, or schizophrenia. This minisymposium will report recent progress made in the identification of the molecular mechanisms controlling neuronal migration and differentiation in the cortex. The speakers will also evaluate the relative contribution of activity-independent and activity-dependent mechanisms in the patterning of cortical connectivity.

Theme B: Synaptic Transmission and Excitability

Endocannabinoids and Synaptic Plasticity CME

Chaired by: Pablo E. Castillo, MD, PhD
Co-Chaired by: Stephan Brenowitz, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 31C
Endocannabinoids are emerging as important modulators of neural function, ranging from motor control, aversive responses, and feeding behaviors to pain perception, reward, and cognition. Speakers will discuss recent advances in the molecular and cellular mechanisms underlying these actions in diverse brain structures, with special emphasis on the role of endocannabinoids in synaptic plasticity.

Spontaneous Firing: Mechanisms, Plasticity, and Functional Implications CME

Chaired by: Michael A. Hausser, DPhil
Co-Chaired by: Yosef Yarom, PhD
Tuesday, October 26, 8:30 – 11 a.m.
San Diego Convention Center, Room 31C
Neurons exhibiting spontaneous firing in the absence of synaptic input have been found in many areas of the mammalian brain. This minisymposium will explore the biophysical basis of this activity, how it can be modulated by synaptic input, and how it contributes to generating physiological and pathological states in the brain.

Interneuron Diversity and Hippocampal Network Dynamics CME

Chaired by: Gianmaria Maccaferri, MD, PhD
Co-Chaired by: Katalin Toth, PhD
Sunday, October 24, 1:30 – 4 p.m.
San Diego Convention Center, Room 29D
This minisymposium will summarize recent advances in our understanding of the role of GABAergic interneurons in sculpting different types of hippocampal network activity.

Mechanisms of Structural Plasticity of Dendritic Spines CME

Chaired by: Peter Penzes, PhD
Wednesday, October 27, 1:30 – 4 p.m.
San Diego Convention Center, Room 29D
Dendritic spines are crucial in synaptic structural plasticity. Hence speakers will discuss spine dynamics in live animals, synaptic targeting of calcium channels, regulation of activity-dependent structural plasticity, role of drebrin in spines, correlation between size and plasticity in spines, and mechanisms regulating the molecular architecture of synapses.

CME *These events are available for CME credit. See page 91 for details.*

Neuroglia Interactions: Mechanisms Involved in Glial Release of Transmitters CME
Chaired by: Eliana Scemes, PhD
Saturday, October 23, 1:30 – 4 p.m.
San Diego Convention Center, Room 33C
This minisymposium will discuss recent work on the bi-directional signaling pathway between neurons and glial cells (modulation of astrocytic gap junctional communication by neurons and the regulation of synaptic transmission by glial cells) with emphasis on the mechanisms for transmitter release from glial cells (exocytosis and diffusion through ionotropic P2X7R and gap junction hemichannels).

Theme C: Sensory Systems

Molecules and Mechanisms of Mechanotransduction CME
Chaired by: Miriam B. Goodman, PhD
Co-Chaired by: Ellen A. Lumpkin, PhD
Monday, October 25, 8:30 – 11 a.m.
San Diego Convention Center, Room 33C
The molecular events that give rise to the senses of hearing, touch, and pain are only just being discovered. This minisymposium highlights recent breakthroughs resulting from a convergence of genetics, genomics, and cell physiology in several model systems. It is aimed at molecular, cellular, and systems neuroscientists interested in mechanisms of sensory mechanotransduction.

TRP Ion Channels Make Sense CME
Chaired by: Emily R. Liman, PhD
Co-Chaired by: David D. McKemy, PhD
Monday, October 25, 1:30 – 4 p.m.
San Diego Convention Center, Room 33C
Members of the transient receptor potential (TRP) family of ion channels form ligand and second messenger-gated conductances that play key roles in a variety of sensory systems. This minisymposium summarizes recent work describing the role of these channels in phototransduction, thermosensation, pain, taste, pheromone detection, and mechanosensation.

Coding of Auditory Space in the Brain CME
Chaired by: Jose L. Pena, MD, PhD
Co-Chaired by: G. Christopher Stecker, PhD
Sunday, October 24, 1:30 – 4 p.m.
San Diego Convention Center, Room 31C
How the nervous system processes information to produce meaningful behaviors and how this ability is modified by experience are two central problems in neuroscience. The study of sound localization is a good example of research geared toward answering these questions. In this minisymposium, we will discuss how auditory spatial information is encoded and transformed in the brain.

Learning and Neural Plasticity in the Adult Visual System CME
Chaired by: Gregor Rainer, PhD
Sunday, October 24, 8:30 – 11 a.m.
San Diego Convention Center, Room 33C
Recent studies suggest a remarkable degree of plasticity in the adult visual system, which mediates learning and recovery of function after deprivation or injury. The mechanisms, functions, and limits of this neural plasticity will be explored using a combination of lesions, single-unit recording, and functional imaging — all in an effort to answer the questions, how do we see and how can we see better?

Theme D: Motor Systems

Neuronal Oscillations in the Basal Ganglia and Movement Disorders: Evidence from Whole Animal and Human Recordings CME
Chaired by: William D. Hutchison, PhD
Co-Chaired by: Jonathan O. Dostrovsky, PhD
Tuesday, October 26, 1:30 – 4 p.m.
San Diego Convention Center, Room 31C
The current model of basal ganglia dysfunction proposes that alterations in neuronal firing rates underlie the spectrum of movement disorders. Effort has now turned to examining firing patterns and especially synchronous oscillations in cortex and basal ganglia in animal models and movement disorder patients to further our understanding of the pathophysiology of abnormal movements. This minisymposium will present some of the exciting new findings in this rapidly developing field.

Theme E: Homeostatic and Neuroendocrine Systems

Gonadal Hormone Modulation of Brain Vulnerability CME
Chaired by: Sonsoles de Lacalle, MD, PhD
Co-Chaired by: Meharvan Singh, PhD
Wednesday, October 27, 1:30 – 4 p.m.
San Diego Convention Center, Room 33C
At a time when the effects of hormones on the brain require continued critical assessment and further clarification, these six presentations will describe new and important discoveries concerning the complexity of hormone-induced neuroprotection. These talks will integrate molecular, cellular, and systems advances in animal models to address how steroid hormones can preserve or repair the brain.

Interactions Among Circadian Rhythms, Feeding, and Metabolism CME
Chaired by: SiNae M. Pitts, PhD
Tuesday, October 26, 1:30 – 4 p.m.
San Diego Convention Center, Room 33C
Popular wisdom says, "we are what we eat," but current research indicates "we time when we eat." The interactions of circadian rhythms and metabolism are complex and rife with implications for feeding behavior. This minisymposium will highlight behavioral, endocrine, and molecular genetic approaches revealing reciprocal relationships among metabolism, food intake, and rhythms throughout the body.

Theme F: Cognition and Behavior

Individual Differences in Brain-Behavior Relationships CME

Chaired by: Todd S. Braver, PhD
Co-Chaired by: Sharon L. Thompson-Schill, PhD
Tuesday, October 26, 1:30 – 4 p.m.
San Diego Convention Center, Room 29D

This minisymposium highlights recent advances in the understanding of brain-behavior relationships gained from individual differences approaches. Case studies describe how examinations of individual variation have illuminated aspects of neural architecture associated with normal cognitive function, as well as cognitive changes occurring in special populations and under pharmacological challenge.

Causal Approaches to the Study of Neural Mechanisms of Cognition and Behavior CME

Chaired by: Tirin Moore, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 33C

This minisymposium will discuss current neurophysiological experiments using causal techniques to identify neural circuits underlying a variety of behavioral and cognitive phenomena. The objective of this minisymposium is to generate interest in establishing and refining ways to causally link the signals conveyed by individual neurons and populations of neurons to cognition and behavior.

Theme G: Neurological and Psychiatric Conditions

Autism and Abnormal Development of Brain Connectivity: Functional Consequences and Possible Neural Antecedents CME

Chaired by: Matthew K. Belmonte
Sunday, October 24, 1:30 – 4 p.m.
San Diego Convention Center, Room 33C

Autism's very complexity makes it a question highly informative not only for clinical prevention and treatment but also for the understanding of normal development. This minisymposium aims to appeal to those both within and outside the traditional bounds of autism research, connecting findings on autistic brain structure and function with current thinking on brain and cognitive development.

Neurobiological Consequences of MDMA Exposure: A Critical Evaluation of Published Findings, Methods, and Conclusions CME

Chaired by: Richard De La Garza, PhD
Co-Chaired by: Ronald L. Cowan, MD, PhD
Tuesday, October 26, 8:30 – 11 a.m.
San Diego Convention Center, Room 33C

The objective of this minisymposium will be to provide a 21st century framework for understanding the neurobiological effects produced by MDMA exposure in humans and in animals.

New Horizons for New Neurons: Adult Neurogenesis and Psychiatry CME

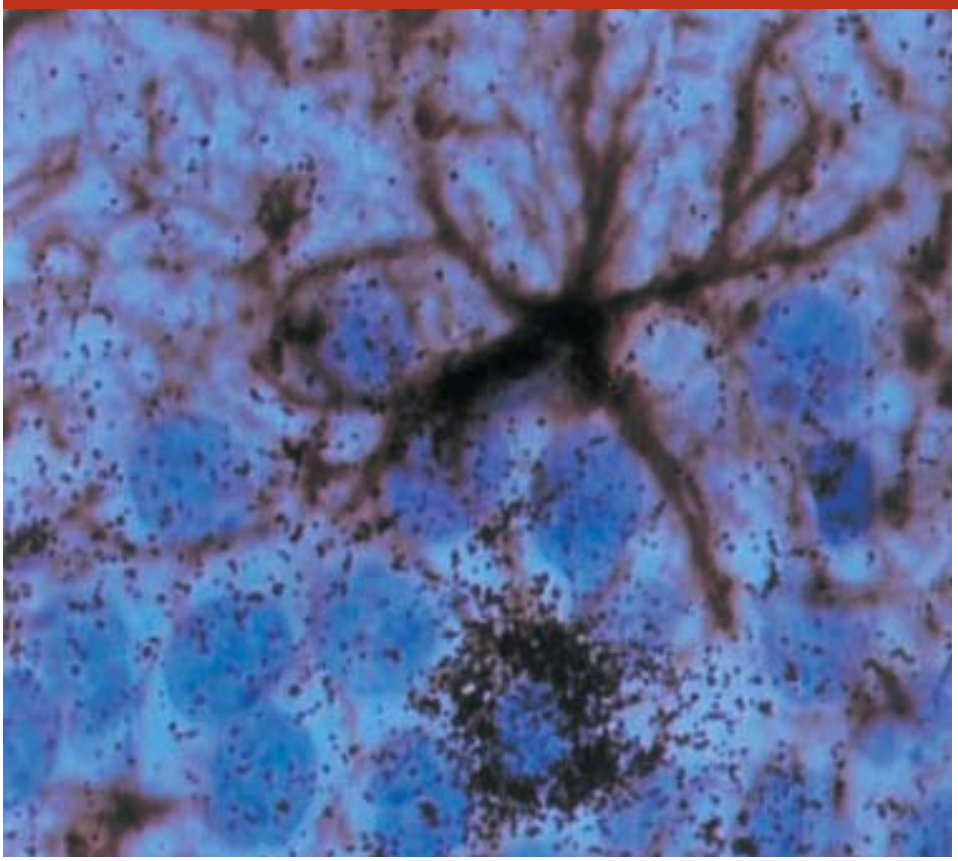
Chaired by: Amelia J. Eisch, PhD
Co-Chaired by: Kimberly Nixon, PhD
Sunday, October 24, 8:30 – 11 a.m.
San Diego Convention Center, Room 31C

Adult neurogenesis is dysregulated in animal models of psychiatric disorders, and effective treatments normalize these changes. This minisymposium appraises the role of adult neurogenesis in drug and alcohol addiction, depression, anxiety, and brain injury. Topics include neural stem/progenitor cells, cell cycle, inflammation, vascular biology, regeneration, cell signaling, antidepressants, and exercise.

Dopamine-Glutamate Interactions in the Nucleus Accumbens: From Anatomy and Physiology to Behavior CME

Chaired by: R. Christopher Pierce, PhD
Co-Chaired by: Anne Marie Brady, PhD
Monday, October 25, 8:30 – 11 a.m.
San Diego Convention Center, Room 29D

Interactions between dopamine and glutamate in the nucleus accumbens mediate learning, reward, and drug-seeking behavior, and dysfunctions of these circuits are believed to underlie the development of schizophrenia and addictive behavior. This minisymposium will highlight basic anatomical, electrophysiological, pharmacological, and behavioral research focusing on these circuits.



CME *These events are available for CME credit. See page 91 for details.*

ApoE and Alzheimer's Disease CME
Chaired by: G. William Rebeck, PhD
Co-Chaired by: Mary Jo LaDu, PhD
Saturday, October 23, 1:30 – 4 p.m.
San Diego Convention Center, Room 29D
The genetic association of APOE with Alzheimer's disease has focused attention on the broad range of functions for apoE in the CNS. ApoE affects cholesterol trafficking, inflammation, neuronal signaling through the LDL receptor family, APP processing, and direct and Aβ-induced neurotoxicity. We will discuss apoE as a vital molecule in the brain's response to damage and its success at recovery.

Regulation of Alzheimer's Disease Amyloidogenesis CME
Chaired by: Sangram S. Sisodia, PhD
Co-Chaired by: Gopal Thinakaran, PhD
Tuesday, October 26, 8:30 – 11 a.m.
San Diego Convention Center, Room 29D
Alzheimer's disease is characterized by the deposition of Aβ peptides that are derived from larger amyloid precursor proteins (APP). The focus of this minisymposium is to provide a framework to understand the cellular and molecular basis of Aβ peptide generation, deposition, and clearance.

Bioenergetics of Excitotoxicity and Ischemia-Reperfusion CME
Chaired by: Raymond A. Swanson, MD
Monday, October 25, 1:30 – 4 p.m.
San Diego Convention Center, Room 29D
Presentations will describe new advances in our understanding of the multi-step process by which glutamate receptor activation leads to neuron death. The talks will emphasize the fundamental role of bioenergetic disturbances induced by excitotoxicity, and the interplay between mitochondrial, nuclear, and cytosolic events in this process.

Theme H: Techniques in Neuroscience

Novel Approaches to Monitor and Manipulate Single Neurons In Vivo CME
Chaired by: Michael Brecht, PhD
Co-Chaired by: Pavel Osten, MD, PhD
Wednesday, October 27, 8:30 – 11 a.m.
San Diego Convention Center, Room 29D
Technique development is the driving force of scientific progress. This minisymposium features novel techniques developed for studying neuronal functions in vivo. Application of genetic, physiological, and imaging techniques will allow monitoring and manipulation of neural activity during the execution of complex processing tasks.

Neurogenomics of Behavior CME
Chaired by: David F. Clayton, PhD
Sunday, October 24, 8:30 – 11 a.m.
San Diego Convention Center, Room 29D
This session features several young investigators applying state-of-the-art genomics methodologies across a range of organismal models of behavior (*Drosophila*, honeybee, songbird, mouse). Session attendees will gain a quick introduction to major techniques in neurogenomics and to several well-defined behavioral paradigms for assessing interactions of genes, the brain, and behavior.

Workshops, Meetings, & Events

www.sfn.org/workshops

Friday, October 22

PLEASE NOTE there is no on-site registration for Short Courses. Register for Short Courses online, www.sfn.org/registration, at the same time as annual meeting registration.
SEE LAST YEAR'S SYLLABI AT:
www.sfn.org/shortcourses

SHORT COURSE FEES

Student member	$130
Student nonmember	$160
Postdoctoral member	$160
Postdoctoral nonmember	$200
Faculty member	$205
Faculty nonmember	$255

Society for Neuroscience Short Course #1

RNAi in the Brain: From Biology to Therapeutics

San Diego Marriott Hotel and Marina
Marriott Hall Salon 4
Friday, October 22
7:30 a.m. – 5:30 p.m.

Organizer: Beverly Davidson, PhD

RNA interference refers to a cell's natural ability to silence gene expression using short interfering RNAs (siRNAs). Inhibitory RNAs are derived from larger precursors transcribed from the genome or introduced into cells artificially. The power of RNAi has recently been harnessed by the bench scientist to selectively inhibit the expression of diverse gene products to ascertain biological function, or as a therapeutic tool to silence the expression of disease alleles. This short course will provide an overview of the protein complexes involved in RNAi, and the role of RNAi in nervous system function and development. Experts in RNAi will also illustrate various methods to accomplish RNAi in cells, tissues, and animal models.

This daylong course consists of a series of lectures by the faculty, followed by informal workshops, and includes a syllabus booklet and matched online resources.

CONTACT:
Colleen McNerney, EdD
Educational Programs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
Fax: (202) 462-9740
E-mail: cmcnerney@sfn.org

Society for Neuroscience Short Course #2

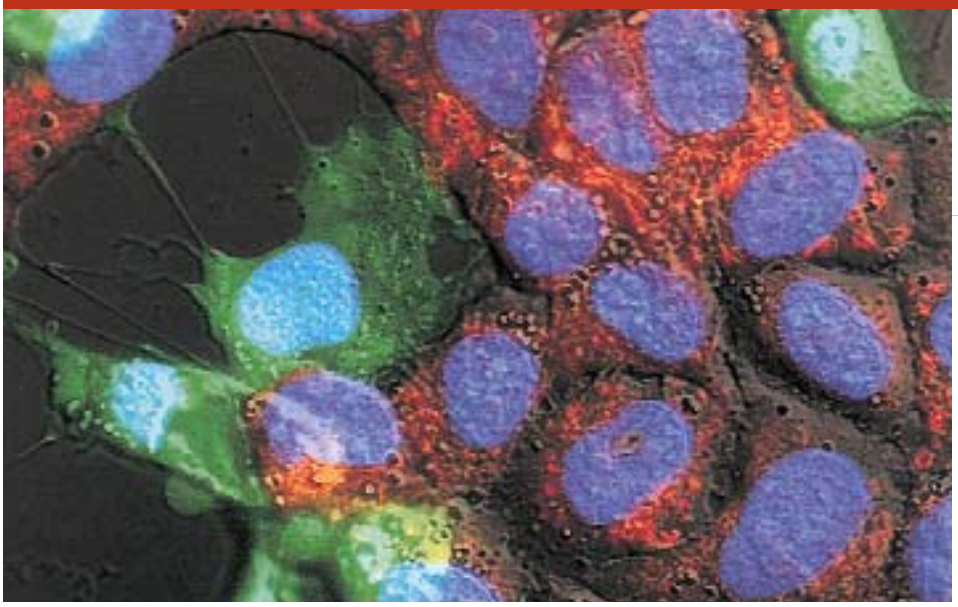
Visualizing Large-Scale Patterns of Activity in the Brain: Optical and Electrical Signals

San Diego Marriott Hotel and Marina,
Marriott Hall Salon 3
Friday, October 22
8 a.m. – 6 p.m.

Organizer: Gyorgy Buzsaki, MD, PhD

How does the brain orchestrate perceptions, thoughts, and actions from the activity of its neurons? Addressing these challenging issues requires methods with sufficiently high temporal and spatial resolution of neuronal activity in both local and global networks. This short course will cover three novel methods: massive parallel recording and isolation of single units with electrophysiological techniques, intrinsic and voltage-sensitive dye imaging of network behavior, and two-photon laser scanning microscopic methods for both large-scale recordings and high resolution monitoring of surface domains of single cells. Leading experts in these particular fields will discuss basic approaches, as well as state-of-the-art techniques for recordings from brains of various species in vivo.

This daylong course consists of a series of lectures by the faculty followed by informal workshops, and includes a syllabus booklet and matched online resources.



CONTACT:
Colleen McNerney, EdD
Educational Programs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
Fax: (202) 462-9740
E-mail: cmcnerney@sfn.org

Neurobiology of Disease Workshop

Protein Misfolding as a Common Pathway in the Dementias and Other Neurodegenerative Diseases

Manchester Grand Hyatt San Diego
Manchester Ballroom Salons D and E
Friday, October 22
8:30 a.m. – 5 p.m.

Organizer: John Trojanowski, MD, PhD
Support contributed by NINDS

The full-day workshop will focus on shared underlying mechanisms common to Alzheimer's disease, Parkinson's disease, and many other dementias and neurodegenerative disorders characterized by intracellular and/or extracellular aggregates of proteinacious fibrils.

In the morning, speakers will use patient presentations (live/video) to introduce basic scientists to the clinical disorders. Leading experts will then discuss protein misfolding in neurodegenerative diseases, with a focus on current understanding of the molecular and genetic mechanisms relevant to the disorder. Each lecture will be followed by a 10-minute discussion period led by the chair.

After lunch, students will regroup into smaller, more focused workshops of 15 to 20 students each. Here they will participate in actively questioning current strategies in research, on topics like the aging process and protein misfolding, compensatory mechanisms, potential therapeutic interventions by counteracting misfolding, ethical concerns raised by testing experimental therapies, selectivity of disease protein deposits, and the possibility of finding other forms of neurodegenerative diseases caused by protein misfolding that involve accumulation of protein aggregates but without overt brain amyloidosis. Students will be able to participate in two workshops of their choosing, each lasting one and one half hours. A final general discussion with the whole group will be held to summarize the day, and to provide additional information to interested students.

Registration is limited. Registration fee: $35.

Please note there is no on-site registration for the workshop. Register for this workshop online, www.sfn.org/registration, at the same time as annual meeting registration.

CONTACT:
Colleen McNerney, EdD
Educational Programs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
Fax: (202) 462-9740
E-mail: cmcnerney@sfn.org

Professional Skills Workshop

San Diego Convention Center, Room 23A
Friday, October 22
8:30 a.m. – 4:30 p.m.

Organizers: B. Fischer and M. Zigmond of the University of Pittsburgh Survival Skills and Ethics Program
Support contributed by NINDS (NS46740)

This workshop will provide participants with training in many of the professional skills needed for success in their careers. Individuals can tailor the day to fit their needs by selecting from a variety of sessions. Concurrent events address the needs of different levels and types of participants, including undergraduates, graduate students, postdoctoral students, and faculty. Topics include job hunting, starting a new job and getting promoted, managing and mentoring students and staff, and balancing multiple responsibilities, as well as an ethics discussion over lunch. The workshop faculty includes individuals from academia, industry, and funding agencies. For a detailed workshop schedule, please see www.survival.pitt.edu.

For registration, please use the forms available on our Web site or call (412) 578-3716. The registration fee is $30 in advance or $45 at the door, and includes all workshop materials, a continental breakfast, coffee breaks, and lunch.

CONTACT:
Survival Skills and Ethics Program
University of Pittsburgh
5M01 Posvar Hall
Pittsburgh, PA 15260
Phone: (412) 624-7098
E-mail: survival@pitt.edu
Web site: www.edc.gsph.pitt.edu

Writing, Editing, and Publishing in Science

San Diego Convention Center, Room 16B
Friday, October 22
3 – 7 p.m.
(also offered on Saturday, October 23)

Speakers: Linda Cooper, Associate Director, Centre for the Study and Teaching of Writing, McGill University, and Gary Westbrook, Editor-in-Chief, *The Journal of Neuroscience*

Good writing can tip the balance between acceptance and rejection of a manuscript. This interactive workshop will review what editors want and provide researchers with strategies for producing precise, clear, and reader-based texts. We will use examples from participants' writing and from *The Journal of Neuroscience* to explain how to structure abstracts, how to transform complex information into precise sentences, and how to make effective figures. Applying current editing techniques, experienced and inexperienced writers will learn how to capture and keep their readers' interest. As a special feature, workshop participants will hear from the Editor-in-Chief of *The Journal of Neuroscience* about the characteristics of a good article. This workshop will be of particular interest to graduate students, postdoctoral students, and junior faculty, whether native or non-native English speakers. Registration is limited, and advance registration is required.

Register online at www.sfn.org/writingworkshop. The registration fee is $75 ($35 for students), and includes a workshop manual and a coffee break.

The registration deadline is September 24, 2004.

CONTACT:
Linda Cooper, PhD
E-mail: Linda.Cooper@mcgill.ca

Saturday, October 23

NIH and NSF Funding for your Research Training and Career Development

San Diego Convention Center, Room 10
Saturday, October 23
8 – 10 a.m.

Support contributed by NINDS, in collaboration with other institutes of NIH and NSF

This workshop is for graduate students, postdoctoral fellows, and beginning faculty at all stages of training and career development. If you want information on NIH and NSF funding opportunities and how to go about getting funded, this workshop is for you. There will be brief presentations on the various fellowships and career development awards available. Program and Review staff from NIH and NSF will also hold roundtable discussions on how to write a fellowship or career award grant. We will discuss the "Do's and Dont's" of how to apply, good "grantsmanship," picking the appropriate mentor/sponsor, what to expect from review, and other issues. This is a good opportunity for you to get to know NIH and NSF staff, establish contacts, and get ahead. Registration is not required, and all are welcome.

CONTACT:
Margaret P. Jacobs
Program Director, Epilepsy Research
NINDS, NIH
Neuroscience Center, Room 2138
6001 Executive Blvd.
Bethesda, MD 20852-9523
Phone: (301) 496-1917
Fax: (301) 480-2424
E-mail: mj22o@nih.gov

Workshop to Bring Together K–12 Teachers and Neuroscientists

Salk Institute
Saturday, October 23
8:30 a.m. – 3 p.m.

Are you a neuroscientist who wants to learn more about how neuroscience fits into K–12 curricula? This workshop is designed to bridge the fields of neuroscience research and K–12 education. Neuroscientists will partner with K–12 teachers to foster dialogue about neuroscience education, current research, and possibilities for teacher–scientist collaborations. K–12 teachers and their partner neuroscientists will visit local neuroscience laboratories, explore a hands-on neuroscience activity together, examine human brains, and attend a luncheon discussion session on neuroscience education.

CALL FOR NEUROSCIENTIST PARTNERS!
Enthusiastic neuroscientists are needed to serve as partners for teachers attending the annual meeting and this workshop. Partnering teachers and neuroscientists during the annual meeting for informal discussions has proven to be valuable for both parties, orienting teachers to what can be an overwhelming meeting and giving neuroscientists insight into how neuroscience fits in with K–12 education. Registration is free and is accepted online at www.sfn.org/workshops.

CONTACT:
Kimberly D. Tanner, PhD
E-mail: kdtanner@sfsu.edu
James B. Hutchins, PhD
E-mail: jhutchins@ovc.umsmed.edu

Writing, Editing, and Publishing in Science

San Diego Convention Center, Room 16B
Saturday, October 23
9 a.m. – 1 p.m.
(also offered on Friday, October 22)

Speakers: Linda Cooper, Associate Director, Centre for the Study and Teaching of Writing, McGill University; and Gary Westbrook, Editor-in-Chief, *The Journal of Neuroscience*

Good writing can tip the balance between acceptance and rejection of a manuscript. This interactive workshop will review what editors want and provide researchers with strategies for producing precise, clear, and reader-based texts. We will use examples from participants' writing and *The Journal of Neuroscience* to explain how to structure abstracts, how to transform complex information into precise sentences, and how to make effective figures. Applying current editing techniques, experienced and inexperienced writers will learn how to capture and keep their readers' interest. As a special feature, workshop participants will hear from the Editor-in-Chief of *The Journal of Neuroscience* about the characteristics of a good article. This workshop will be of particular interest to graduate students, postdoctoral students, and junior faculty, whether native or non-native English speakers.

Registration is limited, and advance registration is required.

Register online at www.sfn.org/writing workshop. The registration fee is $75 ($35 for students), and includes a workshop manual and a coffee break.

The registration deadline is September 24, 2004.

CONTACT:
Linda Cooper, PhD
E-mail: Linda.Cooper@mcgill.ca

Hands-On Neuroscience Activities

Manchester Grand Hyatt San Diego, Manchester Ballroom Salons D, E, G, H, I
Saturday, October 23
4 – 7 p.m.

The Hands-On Neuroscience Workshops will involve neuroscientists and K–12 teachers interested in learning how to conduct specific neuroscience activities in a hands-on format. Lessons are targeted for use with elementary, middle, and high school students. Each workshop will last 75 minutes to allow participants time to engage in and discuss the activity. Participants may attend two of the five demonstrations that will be presented. A list of demonstrations is included below. Online registration is free and will be accepted until 30 participants are enrolled in each workshop. Registration is accepted online at www.sfn.org/workshops. Register early to reserve your spot!

DEMONSTRATION 1 — Electrical Rhythms in the Brain and Body During Sleep and Wakefulness
University of North Carolina, Chapel Hill

DEMONSTRATION 2 — NEDS Head: Exploring Brain Mapping Techniques Using an Electrical Model of the Human Nervous System
Memorial University, Newfoundland

DEMONSTRATION 3 — Food For Thought: Discovering Brain–Body–Behavior Relationships
University of Pennsylvania and National Kids Judge! Partnership, Venice, CA

DEMONSTRATION 4 — Neur-Oh Pioneers! A Kinesthetic Pathfinding Activity on Nervous System Development
University of Minnesota

DEMONSTRATION 5 — Remote Scanning Electron Microscopy (rSEM) as a Teaching Tool for Middle and High School Students: A Hypothesis-Driven Project Utilizing the Toadfish Vestibular Labyrinth
NASA, AMES Research Center, CA

CONTACT:
Janet Dubinsky, PhD
E-mail: dubin001@umn.edu
Edward O'Connor, PhD
E-mail: edward.oconnor@quinnipiac.edu

SfN/APA Minority Fellows Poster Session

San Diego Convention Center, Room 17AB
Saturday, October 23
5:30 – 7:30 p.m.

Organized by the Minority Neuroscience Fellowship Program Coalition

The Society for Neuroscience, American Psychological Association (APA), Meharry/Vanderbilt Alliance for Training in Neuroscience, and the Texas Consortium in Behavioral Neuroscience administer training grants that provide support for pre- and postdoctoral trainees, and provide the foundation for advancement and career development. Support for these programs is provided by NIMH, NINDS, and NIDA.

The purpose of this symposium is to highlight the scientific accomplishments of these fellows and to meet them in the reception that follows. Fellows will present their posters or give brief presentations on their research. All officers, members, and guests of the Society are welcome to attend.

The poster session and the reception are sponsored by the Minority Neuroscience Fellowship Coalition, which is a joint effort by the SfN Minority Fellowship Programs, the APA Neuroscience Fellowship Program, the Meharry/Vanderbilt Alliance for Training in Neuroscience, and the Texas Consortium in Behavioral Neuroscience.

CONTACT:
J.L. Martinez, PhD
APA Minority Fellowship Program
750 First Street, NE
Washington, DC 20002
Phone: (202) 336-6127
Fax: (202) 336-6012

J. Berger-Sweeney, PhD
SfN Minority Neuroscience Fellowship Program
Department of Biological Sciences
Wellesley College
106 Central Street
Wellesley, MA 02481-8203
Phone: (781) 283-3503
Fax: (781) 283-3704
E-mail: mnfp@wellesley.edu

Women in Neuroscience Awards Ceremony

San Diego Convention Center, Room 27AB
Saturday, October 23
6:30 – 8 p.m.

All meeting attendees are invited to honor the recipients of this year's Women in Neuroscience (WIN) awards: winners of our annual Eli Lilly and Pfizer travel awards, the Mika Salpeter Lifetime Achievement Award, the Patricia Goldman-Rakic Hall of Honor, the Louise Hanson Marshall Special Recognition Award, and our new Young Investigator Excellence in Publications Award. Light fare and refreshments will be served.

The Mika Salpeter Women in Neuroscience Lifetime Achievement Award, awarded to a living recipient, and the Patricia Goldman-Rakic Hall of Honor Award, awarded posthumously, honor individuals with outstanding career achievements in neuroscience who have also significantly promoted the professional advancement of women within the field. The Louise Hanson Marshall Special Recognition Award honors individuals with outstanding career achievements in any field who have also significantly promoted the professional advancement of women in neuroscience. The Young Investigator Excellence in Publications Award is WIN's newest achievement award, which will honor a woman in the early stages of her career for an excellent publication in the field of neuroscience. The report must have been published between January 1, 2002, and June 1, 2004. Please see the WIN Web site for more information.

CONTACT:
Laurel L. Haak, PhD
Committee on Science, Engineering, and Public Policy
The National Academies
500 Fifth St., NW
Washington, DC 20001
Phone: (202) 334-1438
Fax: (202) 334-1667
E-mail: lhaak@nas.edu
Web site: www.womeninneuroscience.org

Sunday, October 24

Wyeth-Ayerst WIN Career Development Workshop

How to Be an Effective Chairperson

San Diego Convention Center, Room 10
Sunday, October 24
9 a.m. – noon

What makes an effective chair? Many people are thrust into the job of chairing—a study, a symposium, a review panel—without any preparation or guidance. This workshop will provide basic skills training, including understanding the charge to the committee, preparing an agenda, recruiting participation, tell-tale signs that a meeting is getting off-track, refocusing issues, guiding consensus, and defining the outcome. The workshop will open with brief remarks on chairing and staffing committee meetings inside and outside of academe; then workshop participants will have an opportunity to learn and practice chairing skills in facilitated work groups. Please see the Women in Neuroscience Web site for more information.

CONTACT:
Laurel L. Haak, PhD
Committee on Science, Engineering, and Public Policy
The National Academies
500 Fifth St., NW
Washington, DC 20001
Phone: (202) 334-1438
Fax: (202) 334-1667
E-mail: lhaak@nas.edu
Web site: www.womeninneuroscience.org

How to Take Neuroscience into the Schools

San Diego Marriott Hotel and Marina
Columbia Room
Sunday, October 24
1 – 3 p.m.

The "No Child Left Behind" policy has had a major impact on teaching in the K–12 classroom. With the emphasis in science education being placed on hands-on inquiry, there is an important place for the scientist in the classroom. However, most scientists are not well informed about the national science standards and testing mandated by this executive policy. This workshop will address: What standards are mandated and what challenges has this created for the K–12 science teacher? How can neuroscientists assist teachers in their local school systems to meet the legislative requirements in an

environment of shrinking state educational allocations due to budget deficits? Using a discussion format, we will examine these challenges, and showcase community and Society for Neuroscience chapter resources available to ensure that "no child is left behind" in learning about the brain and nervous system.

Registration is free and is accepted online at www.sfn.org/workshops.

CONTACT:

Andrea M. Zardetto-Smith, PhD
E-mail: azardettosmith@mail.unomaha.edu
William E. Cameron, PhD
E-mail: cameronw@ohsu.edu

Public Advocacy Forum

All Politics Are Local: Learn How You Can Make a Difference Today

San Diego Convention Center, Room 17A
Sunday, October 24
1 – 3 p.m.

Organized by the Government and Public Affairs Committee

Do you have something to say to policymakers? When you speak, Congress listens! Neuroscientists can inform legislators and impact public policy affecting you, your research, and the patients you are trying to help. Congress relies on knowledgeable people in their own communities to inform them about scientific progress and future potential, as well as your own needs and concerns. There are many opportunities for you to engage in public advocacy in your own lives, and they don't require much time or effort.

Come listen to the perspectives of a celebrity patient advocate and congressional contact about why they think you should be involved in public advocacy. You will hear from Mahlon DeLong, MD, member of the Department of Neurology at Emory University's School of Medicine, about his activities in strengthening ties between the patient advocacy and neuroscience communities. Also speaking is Mark Rasenick, PhD, member of the Department of Physiology at the University of Illinois' College of Medicine, who will share his experience as a neuroscientist who has worked in Congress. Participants will discuss methods to tailor your message for maximum impact.

CONTACT:

Allison Kupferman
Government and Public Affairs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
Fax: (202) 462-9740
E-mail: allison@sfn.org

NSF Funding Opportunities for Research and Education in Neuroscience

San Diego Convention Center, Room 22
Sunday, October 24
4 – 5:30 p.m.

Come hear the latest word from NSF program officers on funding opportunities for neuroscientists, including all areas of basic neuroscience research, collaborative research and networking, education and training, career development opportunities, and large-scale multidisciplinary centers. General information about the agency, the review process, and tips for writing successful proposals will also be presented. NSF will also maintain an exhibit booth featuring relevant publications and program officers available for extended conversation.

CONTACT:

Diane Witt
E-mail: dwitt@nsf.gov

Brain Awareness Week Campaign Meeting/Poster Session

San Diego Convention Center, Room 17AB
Sunday, October 24
Meeting: 5 – 6:30 p.m.
Reception: 6:30 – 7:30 p.m.

Organized by SfN in conjunction with the Dana Alliance for Brain Initiatives

Join us for an informal panel discussion followed by an open town meeting session. This year's event will explore outreach as a critical component of professional development and good citizenship. We hope to increase scientist partner participation by raising the professional impact of events, focusing on starting new events, and highlighting a variety of contributions that can be made locally that further the global effort. The discussion will be followed by a networking reception and poster session on 2004 BAW events. RSVP is required to attend the reception and to present a poster of your event.

CONTACT:

Corinne Dreskin
Educational Programs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
Fax: (202) 462-5175
E-mail: corinne@sfn.org

Animals in Research Panel

Translational Neuroscience Accomplishments

San Diego Convention Center, Room 2
Sunday, October 24
5:30 – 7:30 p.m.

Moderated by: John Morrison, PhD, *Mount Sinai School of Medicine, and chair, Committee on Animals in Research*

Organized by the Committee on Animals in Research

For those of you who use animal models —

and even for those of you who do not — how do you discuss your research with friends, students, journalists, or policymakers? Animal research can be a sensitive subject for neuroscientists to address, whether you have been working with animals for two years or 20. The arguments against animal research are pervasive and emotionally charged, yet it is widely acknowledged that such research is a necessary prerequisite to clinical innovations. Neuroscientists should be able to speak about animal research in a positive way, citing the broad array of breakthrough accomplishments achieved because of animal models. As a neuroscientist, you can become an effective advocate for animal research in a nondefensive, proactive manner that emphasizes these translational accomplishments.

SfN's Committee on Animals in Research is pleased to provide a list of such advancements in neuroscience, as a tool to use in discussing your research. The impetus for the creation of this list, and the comprehensive work applied to it, resulted in a top-notch resource for SfN members. Yet, because of its far-reaching and important message, there are many other possible incarnations of these *Translational Neuroscience Accomplishments*. Please join us for a panel discussion of the list, how to utilize it in discussing animal research with the public, and discover the exciting ways the list of accomplishments will be used in the future. Plus, hear from a neuroscientist whose work with primates may contribute future additions to the list.

Panelists: *Miguel Nicolelis, MD, PhD*
Department of Neurobiology
Duke University Medical Center
John H. Morrison, PhD
Neurobiology of Aging Labs
Mount Sinai School of Medicine
Joseph Carey, Senior Director
Communications and Public Affairs
Society for Neuroscience

CONTACT:
Allison Kupferman
Government and Public Affairs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
E-mail: allison@sfn.org

Monday, October 25

Short Course for High School Students

San Diego Marriott Hotel and Marina
San Diego Ballroom Salon A
Monday, October 25
8:30 a.m. – 2:30 p.m.

Pre-college science students from the San Diego area are invited to attend this one-day short course. Included will be presentations by prominent neuroscientists, a guided tour of the poster sessions and exhibits, an interactive brain demonstration, and a sit-down lunch. The course will introduce students to neuroscience research, the life of a neuroscientist, and the impact research has had on our understanding of the brain. Registration is free and is accepted online at www.sfn.org/workshops.

GUIDES ARE NEEDED FOR STUDENTS!
Time commitment is minimal and flexible.

CONTACT:
James Herman, PhD
E-mail: james.herman@uc.edu
Keith Trujillo, PhD
E-mail: keith@csusm.edu

What Is the Role of SfN in Advancing the Careers of Women and Minorities in Neuroscience?

San Diego Convention Center, Room 17A
Monday, October 25
9 a.m. – noon

In collaboration with an intersociety group formed through the NIH Office on Research on Women's Health [Achieving XXcellence in Science (AXXS) Advancing Women's Contributions to Science Through Professional Societies], this workshop will offer a two-way dialogue between some who know how other societies are working to help their members, and others who will benefit from learning about other societies' practices (see http://www4.od.nih.gov/axxs), to advance the careers of women and minorities in the sciences. The workshop will familiarize SfN members with the AXXS initiative, facilitate engagement of SfN members in identifying current and prospective practices within the Society that are beneficial to the promotion and advancement of women and minorities in neuroscientific careers, assist in the development of a societal self-assessment tool to evaluate and measure future progress, and garner SfN membership input for the development and preparation of the AXXS 2005 conference goals and agenda. Pre-registration is required, because participants will engage in a pre-workshop needs assessment process.

CONTACT:
Andrea M. Zardetto-Smith, PhD
College of Arts and Sciences
University of Nebraska at Omaha
6001 Dodge Street
Omaha, NE 68182
Phone: (402) 554-2587
E-mail: azardettosmith@mail.unomaha.edu

Tuesday, October 26

Nonacademic Careers in Neuroscience

San Diego Convention Center, Room 17A
Tuesday, October 26
9 a.m. – noon

This workshop will be devoted to a discussion of nonacademic careers in neuroscience and the spectrum of issues that accompany career paths outside academia. Capitalizing on the different perspectives and expertise of our distinguished panelists, we will discuss training and skills required to position new and established neuroscientists for successful careers, and the unique benefits and pressures of working outside the mainstream academic setting. We will also tackle issues surrounding transitions between the academic and the nonacademic job market, as well as the challenges of mid-career re-entry and career change — topics that are equally critical for those in academic careers. Registration is not required.

Presenters:
Dennis Choi, MD, PhD
Merck
Stephanie Bird, PhD
Journal of Science and Engineering Ethics
Kathie Olsen, PhD
Executive Office of the President
of the United States
Emmeline Edwards, PhD
NIH/NINDS
Rashid Shaikh, PhD
New York Academy of Sciences

CONTACT:
Judy Illes, PhD
Stanford Center for Biomedical Ethics
Stanford University
701 Welch Road A-1115
Palo Alto, CA 94304-5748
Phone: (650) 724-6393
Fax: (650) 725-6131
E-mail: illes@stanford.edu

Social Issues Roundtable

Suicide and Depression: Biological and Social Factors, Ethical and Policy Implications

San Diego Convention Center, Room 30E
Tuesday, October 26
2 – 4 p.m.

Moderated by: Stephanie Bird, PhD, *Massachusetts Institute of Technology, and chair, Social Issues Committee*
Organized by the Social Issues Committee

Suicide is the third leading cause of death among young people aged 15–24 in this country, and accounts for about 30,000 deaths per year in the United States. The former Surgeon General and the Institute of Medicine have promulgated recent reports advocating a national strategy for suicide prevention in the United States. Improved treatment of depression is one major objective because untreated depressive illness is associated with most suicides.

However, while antidepressant medications are effective in treating major depression, there is little evidence presently available attesting to the efficacy of antidepressants in reducing suicide rates.

Moreover, new epidemiological data on falling suicide rates in youth and adults — and some psychosocial correlates of these changes — suggest a limited potential explanatory role for employment rates and substance abuse disorders. Better understanding of the epidemiology of suicide, and of the biological and social factors contributing to it, may help in the development of better prevention strategies. At the same time, continuing stigma associated with the label of mental illness and a widespread lack of understanding of mental illness as a treatable condition raise ethical concerns.

Speakers:
J. John Mann, MD
Professor, Department of Neurology
Columbia University
Professor and Chief of Neuroscience
New York State Psychiatric Institute
William E. Bunney, Jr., MD
Della Martin Chair of Psychiatry
College of Medicine
University of California, Irvine
Victoria Arango, PhD
New York State Psychiatric Institute
Neuroscience and Psychiatry
Columbia University
Kay Redfield Jamison, PhD
Professor of Psychiatry
Johns Hopkins University

CONTACT:
Allison Kupferman
Government and Public Affairs
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
E-mail: allison@sfn.org

SfN Business/Members Meeting

San Diego Convention Center, Room 17A
Tuesday, October 26
5:30 – 6:30 p.m.

Information will be posted on the SfN Web site as it becomes available.

CONTACT:
Bridget Faraci
Executive Department
Society for Neuroscience
11 Dupont Circle, NW
Suite 500
Washington, DC 20036
Phone: (202) 462-6688
E-mail: bridget@sfn.org

Special Interest Socials

www.sfn.org/socials

Special Interest Socials provide an opportunity for registrants to meet informally with others who share common scientific interests. Socials are open to all Neuroscience 2004 registrants and their guests. Please remember that the size of the rooms in which these events are held is based on previous years' attendance. Because there are space constraints with any facility, it is possible that some socials will fill quickly. Please have more than one option in mind if you plan to attend the Special Interest Socials.

Monday, October 25, 5:30 – 7:30 p.m.

Alzheimer's Disease Social: Who Wants to be a Millionaire (and Secure Funding for Alzheimer's Disease Research for Life)?

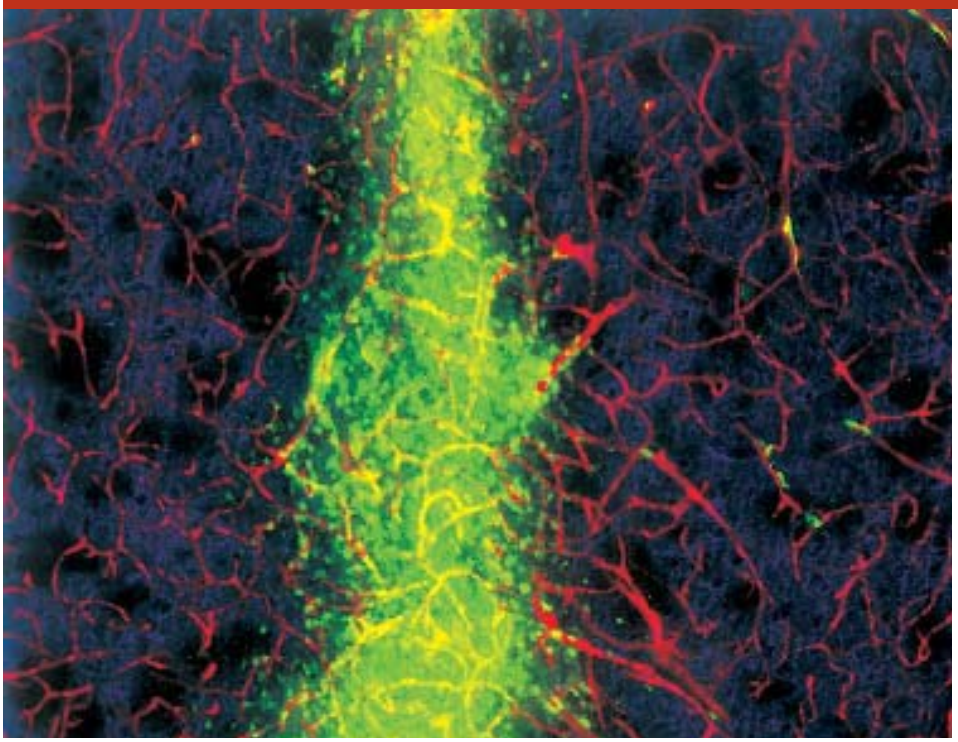
San Diego Convention Center, Room 30E
Monday, October 25
5:30 – 7:30 p.m.
Contest
Chaired by: E. Masliah
Using humorous questions of increasing levels of difficulty related to Alzheimer's disease, the format will be as in the TV show. Participants will compete in rounds demonstrating their knowledge about an Alzheimer's disease subject. They will be able to use life lines and help from the audience to encourage participation.

Cajal Club Social: Mapping Thousands of Gene Expression Patterns in the Brain

San Diego Convention Center, Room 23A
Monday, October 25
5:30 – 7:30 p.m.
Overview with Q&A
Chaired by: L.W. Swanson
Guests: T. Curran
Several massive projects are under way to map spatiotemporal patterns of expression for the roughly 15,000 genes thought to be expressed in the mammalian brain. What strategies are being developed to implement this revolutionary task? How much work is involved? Who will pay for it? Who will benefit from it? And why is it worth doing? Community involvement through suggestions and feedback is essential.

Clinical Neuroscience Social: Careers at the Interface of Basic and Clinical Neuroscience

San Diego Convention Center, Room 28D
Monday, October 25
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: F.M. Longo
Guests: A. Abeliovich, T. Golde, J. Kocsis, D. Landis, S. Landis, J. McNamara, W. Mobley, S. Small, W. Snider
Advances in basic neuroscience and new insights into mechanisms underlying neurological, neurosurgical, and psychiatric disorders have created novel possibilities for career paths in so-called "translational research." Keys to career success will be developing the abilities to recognize critical issues underlying clinical disorders and incorporate cutting-edge basic neuroscience to address these issues. Once training is complete, investigators face the challenge of obtaining support for studies that are neither entirely traditional basic science nor standard clinical trials. Invited guests with career success will informally discuss strategies in training, career development, and funding.



Faculty for Undergraduate Neuroscience Social

San Diego Convention Center, Room 17AB
Monday, October 25
5:30 – 7:30 p.m.
Social and undergraduate poster session
Chaired by: R.J. Bayline
Socialize and exchange ideas with others concerned with undergraduate research and education. Undergraduates will present posters, and the FUN Travel Awards and Educator of the Year Award will be presented. See the FUN Web site (www.funfaculty.org) for the FUN Travel Award application and registration for poster presentations.

Ingestive Behavior Social: The Blood–Brain Barrier in Control of Energy Balance — How Variable, How Much, and How Important?

San Diego Convention Center, Room 24A
Monday, October 25
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: P.J. Currie
The ability of peripherally produced peptides to act on neurons in the brain is crucial for their function in the control of energy intake and expenditure. This highlights the importance of the blood–brain barrier (BBB) in the control of energy balance. A presentation will focus on the general principles and features of BBB peptide uptake mechanisms in brain areas involved in the control of ingestive behavior and energy balance, followed by a discussion of some critical issues.

Invertebrate Neurobiology/ Neuroethology Social

The Future of Nonvertebrate Neuroscience in a Time of Post-Genomic Emphasis on Translational Research
San Diego Convention Center, Room 28C
Monday, October 25
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: B.S. Beltz
Co-Chaired by: D.C. Sandeman
Guests: J.G. Hildebrand, B. Mulloney
There will be a few, very *brief*, remarks related to funding, politics, and nonvertebrate neuroscience.

Neuroendocrinology Social: Hormones and the Media

San Diego Convention Center, Room 32B
Monday, October 25
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: J.M. Swann
Co-Chaired by: A.A. Nunez
Guest: M.M. McCarthy
This year's lighthearted social will focus on our most prevalent form of entertainment media — television. NEUROENDIE AWARDS will be given for best depictions of the field of neuroendocrinology in the sitcoms, drama, comedy, and our latest fad — reality shows.

Oculomotor and Vestibular Systems Social

San Diego Convention Center, Room 25A
Monday, October 25
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: J.M. Groh
Co-Chaired by: N.J. Gandhi
Guest: D.L. Sparks
David Sparks is a featured guest who will be there for an exchange of views on the history of the field. Please join us for some informal presentations by a panel to be named.

Pavlovian Society Social

San Diego Convention Center, Room 27A
Monday, October 25
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: M.S. Fanselow
Guests: T. Shors, J. Steinmetz, R. Thompson, W. Wilson
Pavlovian conditioning is fundamental to all aspects of our life. Join us for lively discussions that range from molecular mechanisms through behavioral processes to societal impacts of associative learning. A splendid time is guaranteed for all.

Psychopharmacology Social

San Diego Convention Center, Room 27B
Monday, October 25
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: W.A. Carlezon
Guests: G. Aston-Jones, A. Bonci, R. DiLeone, P. Kalivas, M. Marinelli, A. Markou, M. Picciotto, C. Pierce, T. Robinson, D. Self

Come join fellow psychopharmacologists interested in the after-hours self-administration of alcohol. Depending on your tolerance, a priming dose may be required to avoid the aversive states caused by being within environments previously associated with formal events. Cross-sensitization may facilitate the rewarding effects of conversation with your peers, even if they are molecular biologists. Regardless, protein phosphorylation will occur in key regions of your brain.

Sensorimotor Integration and Motor Control Social: Neuro Tricks and Teaching Demos (continued!)

San Diego Convention Center, Room 31C
Monday, October 25
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: W.T. Thach

Our friends and colleagues will amuse us with stunts that illustrate neurophysiologic principles.

Songbird Social: Social Communication about Vocal Communication

San Diego Convention Center, Room 26A
Monday, October 25
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: D.S. Vicario

Come visit with old pals or, if new to the field, meet birdbrain neuroscientists who study the mechanisms of vocal communication and learning in songbirds. We don't really know whether birds have fun when they sing, but we can have fun discussing the many experimental approaches to birdsong – behavioral, cellular, and molecular. The event will include informal, provocative, and hopefully irreverent presentations, plus plenty of time to socialize. All are welcome!

Synapses Social

San Diego Convention Center, Room 22
Monday, October 25
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: S.M. Thompson
Guests: M.F. Bear, D.S. Bredt, H.T. Cline, M.D. Ehlers, L.C. Griffith, K.M. Harris, R.L. Huganir, J.A. Kauer, R.C. Malenka, J.M. Sullivan

Where pre meets post!

Vision Social: Everything You Wanted to Know About Vision Science, but Were Afraid to Ask

San Diego Convention Center, Room 33C
Monday, October 25
5:30 – 7:30 p.m.
Contest
Chaired by: J.H. Reynolds
Co-Chaired by: P. Verghese
Guests: S. Anstis, M. Carrasco, M. Goldberg, P. Lennie, S. McKee, J.A. Movshon

This will be a lighthearted contest in which participants will try to answer neuroscience trivia questions, including identifying the authors of "published statements I most regret." There will also be a mystery guest.

Tuesday, October 26, 5:30 – 7:30 p.m.

Autonomic Nervous System Social: That Circulation is More Important than Respiration

San Diego Convention Center, Room 31C
Tuesday, October 26
5:30 – 7:30 p.m.
Debate
Chaired by: P.M. Pilowsky
Co–Chaired by: C.B. Saper
Guests: J.H. Coote, T.E. Dick, P.G. Guyenet, D.R. McCrimmon

The relationship between neurons regulating the central control of respiration and circulation is often fraught. Does the expression of a central respiratory drive potential have primacy? Or do the 'circulatory' neurons take precedence? Tonight, in favor of 'Circulation' will be Don McCrimmon and Ted Dick. John Coote and Patrice Guyenet will oppose them in support of 'Respiration.' Our moderator will be Clifford Saper. Audience participation will be mandatory.

Behavioral and Cognitive Neuroscience Social: Cognitive Neuroscience

San Diego Convention Center, Room 22
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: P.A. Reuter-Lorenz
Guests: S. Corkin, G.R. Mangun, S.E. Petersen, L.G. Ungerleider, et al.

Join us to consolidate what you've learned at the meeting by engaging in informal conversation with fellow cognitive neuroscientists. Relax and mingle with established scientists and get to know the "et al."

Behavioral Neuroendocrinology Social: A Celebration of Frank Beach

San Diego Convention Center, Room 24A
Tuesday, October 26
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: E.L. Bittman
The Beach Award will be presented to the outstanding trainee of 2004. This event will provide an opportunity to socialize with others interested in behavioral neuroendocrinology. A short presentation will review the life and career of Frank Beach, 16 years after his death, and attendees will be invited to reminisce about this pioneer of the study of the relationships and interactions between hormones and behavior. A brief lecture will be given by this year's award recipient.

Cell Death Social

San Diego Convention Center, Room 27B
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: A. Bonni
Guests: B.A. Barres, D.W. Choi, M.E. Greenberg, J. Ham, F.D. Miller, R.W. Oppenheim
This will be a social gathering that offers the opportunity to discuss recent findings, exchange ideas, or just mingle and share a drink with leaders in the field of neuronal apoptosis.

Developmental Neurobiology Social

San Diego Convention Center, Room 23A
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: G. Feng
Co-Chaired by: B.L. Patton
A purely social event to bring developmental neurobiologists together for an evening of relaxation and fun. Come to meet old friends and colleagues, and learn about the latest progress in the field of developmental neuroscience.

Excitatory Amino Acids Social

San Diego Convention Center, Room 25A
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: H. Lee
Guests: M. Bear, D. Bredt, M.D. Browning, H.T. Cline, R.J. Dingledine, M.D. Ehlers, S.F. Heinemann, R.L. Huganir, J.E. Lisman, R.C. Malenka, R. Malinow, R.A. Nicoll, K.W. Roche, P.H. Seeburg, M.H. Sheng, R.J. Wenthold, G.L. Westbrook, P.F. Worley, E.B. Ziff, R.S. Zukin
Please come and join us to discuss the latest in the excitatory amino acid field in a casual setting or simply to enjoy the company of others in the field.

Hippocampus Social: What Kind of Associations Does the Hippocampus Make?

San Diego Convention Center, Room 26A
Tuesday, October 26
5:30 – 7:30 p.m.
Debate
Chaired by: W.A. Suzuki
This will be a social occasion for the first hour, followed by a 30-minute discussion addressing the question of the kinds of associations the hippocampus makes. The discussion will start with invited comments by researchers studying humans, monkeys, and rats, and will continue with a moderated open-floor discussion.

Human Brain Project Social: Electronic 3-D Mouse Brain Atlases on the Horizon

San Diego Convention Center, Room 28C
Tuesday, October 26
5:30 – 7:30 p.m
Social with brief presentation
Chaired by: M.D. Hirsch
Co-Chaired by: L.W. Swanson
Guests: J.M. Lauder, G. Paxinos, U.B. Schambra, R.W. Williams
There will be a brief expert panel discussion with audience participation to explore creating publicly accessible, shared, Web-based, 3-D electronic mouse brain atlases. Discussion will include: (1) effective approaches to examine, curate, and annotate data on neuroanatomic brain structure and molecular genetic, genomic, and proteomic expression across development and plasticity; (2) nomenclature decisions and relationships (ontology); (3) methods and errors in data transfer from experimental brains to reference maps; and (4) issues on currently available atlases.

International Training and Collaboration Social: An Evening on International Education and Research Opportunities

San Diego Convention Center, Room 28D
Tuesday, October 26
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: J.S. Lund
Co-Chaired by: T.N. Wiesel
Guest: A.J. Aguayo

The event will celebrate the programs of the International Brain Research Organization (IBRO) and the Human Frontier Science Program (HFSP), and discuss issues of international education and research opportunities for young neuroscientists. IBRO "alumni" and former HFSP awardees are invited, as well as anyone interested in hearing more about these organizations.

Membrane Biophysics Social

San Diego Convention Center, Room 27A
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: L.P. Wollmuth
Co-Chaired by: M. Akabas
Guests: T. Auerbach, S. Cull-Candy, C. Czajkowski, B. Hille, J. Johnson, S. Lummis, C. Rosenmund, S. Traynelis, J. Trimmer, D. Weiss

Come join others interested in membranes. Storytelling, humor, and complaints are welcome. Several surprise guests will enlighten the affair.

Music Social

San Diego Convention Center, Sails Pavilion
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: J.C. LaManna
Guests: C. Iadecola, W.J. Pearce

This will be a purely social evening focused on musical performances by neuroscientists. The evening will feature the rock and blues music of Cornu Ammonis. The remainder of the program will be filled with whatever music styles are favored by the volunteer participants. The evening will conclude with a blues jam session, in which all participants are invited to join.

Spinal Cord Injury Social

San Diego Convention Center, Room 30E
Tuesday, October 26
5:30 – 7:30 p.m.
Social with brief presentation
Chaired by: P.J. Reier
Co-Chaired by: O. Steward

The theme of this purely social event will be "A Celebration of Scientific Advances in SCI." As bench-to-bedside translation is becoming a growing topic of conversation, the SCI research community has much to be proud of when considering where this field was not so long ago and where it is today. A very brief presentation will be made reflecting on some significant past contributions that have stimulated many contemporary interests and insights. There also may be a surprise or two! All interested in SCI research should make an effort to attend.

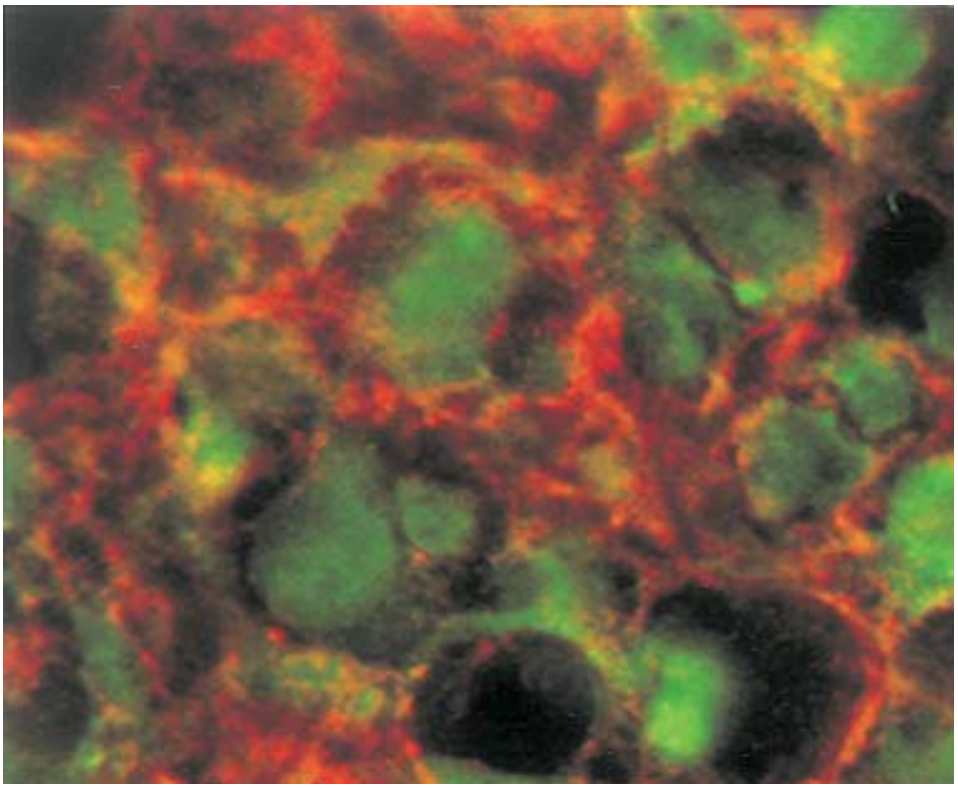
The Thalamus Social: Insights into Thalamic Function

San Diego Convention Center, Room 29D
Tuesday, October 26
5:30 – 7:30 p.m.
Purely social occasion
Chaired by: W. Guido

Prominent researchers in the field will lead a lively discussion focusing on recent advances into thalamic function.

Satellites

www.sfn.org/satellites



Wednesday to Friday, October 20 – 22

14th *Neuropharmacology* Conference: The Cytoskeleton and Synaptic Function

Hilton San Diego Resort
Wednesday, October 20
12:30 – 6 p.m.
Thursday, October 21
9 a.m. – 8 p.m.
Friday, October 22
9 a.m. – 6 p.m.

Conference Chairs: Andrew I. Matus, Switzerland; Shelley Halpain, U.S.; Morgan Sheng, U.S.

Organized by Elsevier/*Neuropharmacology*, this conference will bring together leading experts from the neurosciences and cell biology to review cytoskeletal influences on neuronal function, stability and plasticity of neuronal morphology, and the molecular mechanisms that regulate pre- and postsynaptic structure.

Session topics include structure and function in central circuits, stability and plasticity in synaptic circuits, cytoskeletal influences on neuronal function, making and maintaining the presynapse, and postsynaptic plasticity and its consequences.

Full program and registration information available at www.neuropharmacology-conference.elsevier.com

CONTACT:
Phillipa Fletcher
Phone: +44 1235 868811
Fax: +44 1235 227322
E-mail: np-conference@elsevier.com
Web site: www.neuropharmacology-conference.elsevier.com

Thursday to Friday, October 21 – 22

Third International Conference on Galanin and Its Receptors

Horton Grand Hotel
Thursday, October 21
7 a.m. – 8 p.m.
Friday, October 22
7:30 a.m. – 1 p.m.

Since the description of galanin in 1983 by Tatemoto, Rokaeus, Jornvall, McDonald, and Mutt in porcine intestine and evidence of its biological activity, a steady growth has occurred in our appreciation of the complex roles played by galanin and its receptors, with more than 2,300 referenced publications. In the past five years alone, there has been an explosion in these efforts with more than 800 peer-reviewed papers appearing on topics associated with this peptide, its three known receptors, and targeted gene mutations to reveal their functions. This satellite meeting, consisting of topical symposia and poster sessions, provides a forum for galanin researchers to review and consider the current state of knowledge regarding the biology, pharmacology, physiology, and behavioral effects of galanin and its receptors, and an assessment of their future impact upon the development of clinically useful therapeutics.

To register for the meeting, contact Professional Conference Management, Inc., (www.pcmisandiego.com). Submit abstracts to Tony L. Yaksh, PhD. For information on meeting agenda and registration, abstract submission and hotel reservations, visit the Web sites: www.pcmisandiego.com and www.galanin2004.com.

CONTACT:
Tony Yaksh, PhD
E-mail: tyaksh@ucsd.edu
Tamas Bartfai, PhD
Phone: (858) 784-8404
E-mail: tbartfai@scripps.edu

The 22nd Annual National Neurotrauma Society Symposium

Paradise Point Resort and Spa
Thursday, October 21 – Friday, October 22
8 a.m. – 5 p.m.

This two-day scientific symposium is especially designed for scientists, physicians, postdoctoral fellows, residents, and graduate students.

This year's theme of "Bedside to Benchtop to Bedside" will provide insight into meaningful research with the objective of targeting both clinical trials and basic research for improved functional recovery. The scientific program will span the gamut of clinical pathophysiology, treatment strategies, basic research models, and molecular approaches involved in CNS neurotrauma.

CONTACT:
Karen Gottlieb
Phone: (305) 663-6777
Fax: (305) 663-7244
E-mail: NNS2004@dprice.com
Web site: www.neurotrauma.org
Linda Garcia
E-mail: garcialinda@cox.net

J.B. Johnston Club/Karger Workshop

Radisson Hotel Harbor View
Thursday, October 21
8 a.m. – 5 p.m.
Friday, October 22
8 a.m. – 5 p.m.

The J.B. Johnston Club (JBJC), an international organization of researchers in comparative and evolutionary neurobiology, will hold its Karger Workshop and annual meeting this year at the Radisson Hotel Harbor View. Michael Pritz and Eduardo Rosa-Molinar are organizing the Karger workshop (October 21). This year's topic is: "Hindbrain Evolution, Development, and Organization Revisited" with Robb Krumlauf, PhD, as the invited speaker.

The JBJC regular meeting (October 22) will feature short oral presentations in an informal setting. Abstracts for the regular JBJC meeting will be published in "Brain, Behavior, and Evolution."

CONTACT:
Blinda McClelland, PhD
Phone: (512) 450-1622
Fax: (512) 471-5935
E-mail: mcclelland@mail.utexas.edu
Web site: www.creighton.edu/jbjc

Dynamical Neuroscience XII: Closing the Loop

San Diego Convention Center, Room 2
Thursday, October 21
8 a.m. – 8 p.m.
Friday, October 22
8 a.m. – 6 p.m.

From ion channels to behavior, understanding the dynamics of neural systems is a challenging task for experimentalists and theoreticians. Whether at the cellular, network, or behavioral level, the majority of processes involve feedback – closed loop – where the output of the system changes the input to the system. Closed-loop experiments allow us to peek into the inner workings of the brain that are not accessible by any other means. This symposium will examine systems ranging from the cellular and network to the whole organism; emphasize the role of the "dynamic clamp" in examining the role of ion channels in orchestrating behavior; and extend the concept to networks, neural prostheses, and therapeutic intervention. Poster sessions will be held during both days of the meeting.

CONTACT:
Dennis Glanzman, PhD
Phone: (301) 443-1576
Fax: (301) 443-4822
E-mail: glanzman@helix.nih.gov
Web site: www.nimh.nih.gov/scientificmeetings/dynamics2004.cfm
Matt Burdetsky
Phone: (703) 536-4993
E-mail: matt@cmpinc.net
Web site: www.cmpinc.net

5th *Neurobiology of Aging* Conference: Protein Misfolding in Alzheimer's and Other Age-Related Neurodegenerative Diseases

Hilton San Diego Resort
Thursday, October 21
9 a.m. – 6 p.m.
Friday, October 22
9 a.m. – 6 p.m.
Chair: Paul Coleman, University of Rochester Medical Center, USA

Organized by Elsevier/*Neurobiology of Aging*, this conference will be devoted to protein folding and misfolding in the cell biology of Alzheimer's disease (AD).

The comprehensive program will bring together selected experts in protein folding with AD researchers whose work emphasizes cell biological aspects related to protein processing in Alzheimer's disease. The event will be of interest to all those concerned with early events in the pathological cascade of AD.

For full speaker lineup and registration information visit: www.nba-conference.elsevier.com

CONTACT:
April Williams
Phone: +44 1865 843089
Fax: +44 1865 843958
E-mail: a.williams@elsevier.com
Web site: www.nba-conference.elsevier.com

Neurons and Memory: The Second *Neuron* Satellite Meeting

Doubletree Hotel Mission Valley
Thursday, October 21
3 – 6 p.m.
Friday, October 22
9 a.m. – 6 p.m.

Neuron is pleased to present its second annual satellite meeting. This year's meeting on the neurobiology of memory will cover recent advances in memory research, including molecular, cellular, and systems levels studies, as well as provide a historical perspective on this rapidly developing field.

Speakers will include Ron Davis, Yadin Dudai, Eric Kandel, Joe LeDoux, Earl Miller, Brenda Milner, Roger Nicoll, Larry Squire, Wendy Suzuki, Susumu Tonegawa, and Gina Turrigiano. The meeting will include talks, a poster session, and opportunities for informal conversations over lunch and refreshments.

CONTACT:
Phillipa Fletcher
Phone: +44-1235-868811
Fax: +44-1235-227322
E-mail: neuron-meeting@elsevier.com
Web site: www.neuron-meeting.com

Molecular and Cellular Cognition

Manchester Grand Hyatt San Diego: Poster Session, Douglas Pavilion A; Symposia, Manchester GH
Thursday, October 21
6:30 – 9:30 p.m.
Friday, October 22
9 a.m. – 6 p.m.

The meeting will survey recent molecular and cellular studies of cognition. The focus is on studies that integrate molecular, physiological, and behavioral mechanisms. It will start with a poster session on October 21 in Douglas Pavilion A from 6:30 to 9:30 p.m. The following day (starting at 9 a.m. in the Manchester GH), invited speakers will provide an overview of the latest findings and advances in the field. Invited speakers include: C. Bargmann, E. Nestler, H. Zoghbi, J. Ritcher, K. Si, R. Davis, S. Nagao, S. Maren, S. Thomas, T. Abel, T. Insel, T. Shors, and Y. Zhong. In addition, four junior speakers will be chosen from submitted abstracts. For further information and online registration (free, but required), go to www.molcellcog.org/sandiego2004.htm or e-mail Alcino J. Silva at office@molcellcog.org.

CONTACT:
Alcino Silva, PhD
Phone: (310) 794-6609
Fax: (310) 794-7088
E-mail: silvaa@mednet.ucla.edu
Web site: www.molcellcog.org
David Sweatt, PhD
Phone: (713) 798-3107
E-mail: jsweatt@bcm.tmc.edu

Friday, October 22

Advances in Primate Auditory Neurophysiology (APAN) II

San Diego Convention Center, Room 28D-E
Friday, October 22
8 a.m. – 6 p.m.

This annual symposium is to facilitate the growth of auditory neurophysiology research in nonhuman primates, provide an opportunity for researchers to discuss issues unique to this field, and share our latest findings. The symposium will also make it possible for researchers working in other systems to learn about this exciting field. Those interested in giving an oral or poster presentation must submit an abstract (~250 words) by August 1. We encourage the submission of abstracts by newly established investigators, postdoctoral researchers, and graduate students. Registration fees are as follows: Advance (by October 1): $70 (faculty), $30 (students). On-site: $90 (faculty), $50 (students). For abstract submission, registration, and scientific programs, please visit the symposium's Web site: www.apan.jhu.edu.

CONTACT:
Xiaoqin Wang, PhD
Phone: (410) 614-4547
Fax: (410) 614-9599
E-mail: xwang@bme.jhu.edu
Web site: www.bme.jhu.edu/~xwang
Yale E. Cohen, PhD
Phone: (603) 646-0532
E-mail: yec@dartmouth.edu
Web site: www.dartmouth.edu/~psych/people/faculty/cohen.html

NIDA Mini-Convention: Frontiers in Addiction Research: Overview

San Diego Convention Center, Room 30
Friday, October 22
8 a.m. – 8:45 p.m.

To celebrate the 30th anniversary of the National Institute on Drug Abuse, outstanding scientists will present recent findings and discuss future directions in the neurobiology of drug abuse and addiction. Details for each event follow under separate listings.

8 a.m.	Introduction: N. Volkow, MD, Director, NIDA
8:10 a.m.	Behavior Neuroscience of Nicotine Addiction
10:30 a.m.	Creative Directions in Imaging
12:35 p.m.	Poster Session (Room 29)
2:35 p.m.	Mechanisms of Brain Resiliency and Repair
4:55 p.m.	Glutamate and Addiction
7:35 p.m.	Break/Light Refreshment (courtesy of Elsevier)
8 p.m.	Presentation by Jacob A. Waletzky Award Recipient

Seating is limited. Pre-register at www.drugabuse.gov/WhatsNew/#5.

CONTACT:
Rita Liu, PhD
Phone: (301) 435-1388
E-mail: rliu@nida.nih.gov
D. Shurtleff
Phone: (301) 443-1887
E-mail: dshurtle@mail.nih.gov
C. Sasek
Phone: (301) 443-6071
E-mail: csasek@nida.nih.gov

NIDA Mini-Convention: Behavioral Neuroscience of Nicotine Addiction

San Diego Convention Center, Room 30
Friday, October 22
8:10 – 10:15 a.m.

This symposium will address a range of topics, models, and approaches in contemporary behavioral neuroscience of nicotine addiction, emphasizing the nicotinic receptor and novel circuitry related to addictive behavior,

nicotine's dual role in reinforcing behavior and adding valence to other stimuli, positive/negative motivational aspects, dopamine- and non-dopamine pathways of reward, and imaging the nicotine receptor in human brain. Speakers: W. Corrigall (chair), Y-S. Ding, N. Chaudhri, C. Heidbreder, S. Laviolette, and A. Markou.

This symposium is part of NIDA's sponsored mini-convention on "Frontiers in Addiction Research." Seating is limited. Please pre-register at www.drugabuse.gov/WhatsNew/#5 or contact William Corrigall.

CONTACT:
William A. Corrigall
Phone: (301) 435-1324
E-mail: wcorriga@nida.nih.gov
Paul Schnur
Phone: (301) 435-1316
E-mail: pschnur@nida.nih.gov

Neurotoxicity Society Satellite Meeting on 1) Iron and Parkinson's Disease and 2) Neurotoxicity of Substances of Abuse

San Diego Convention Center, Room 22
Friday, October 22
8:30 a.m. – 4:30 p.m.

A morning session on "Iron and Parkinson's Disease" focuses on the uniqueness of iron as an accelerant of environmental cytotoxicity in the genesis of Parkinson's disease. Oral presentations address iron transport, iron regulatory proteins, iron processing, dopamine-dependent iron toxicity, and influence of iron in MPTP- and neuroleptic toxicities. Speakers are J.K. Andersen, T.A. Rouault, T. Archer, J. Segura-Aguilar, S. Mandel, and P. Riederer. An afternoon session on "Neurotoxicity of Substances of Abuse" features oral presentations that address genomics; histopathology; and roles of cytokines, NO, and stress in substituted amphetamine neurotoxicity. Speakers are S. Ali, J. Cadet, J. O'Callaghan, F. Fornai, Y. Itzhak, and D. Miller (NIOSH-CDC). Pre-registration required online at www.NeurotoxicityResearch.com.

CONTACT:
Richard Kostrzewa, PhD
Phone: (423) 439-6321
Fax: (423) 439-8773
E-mail: kostrzew@etsu.edu
Web site: www.med.uchile.cl/oqclub/NS
Juan Segura-Aguilar, PhD
Phone: +56 2 678 6057
E-mail: jsegura@med.uchile.cl
Web site: www.med.uchile.cl/oqclub/NS

Developments in Neural Probe Technologies and Applications

San Diego Marriott Hotel and Marina, Marina Ballroom Salon F
Friday, October 22
8:30 a.m. – 5 p.m.

This symposium will highlight emerging neural probe technologies and applications that are driving developments across many areas of neuroscience. Presentations and discussions will involve scientific applications and technology developments associated with advanced implantable microelectrode systems for neural recording, stimulation, chemical sensing, and chemical delivery. The symposium is sponsored by the NIH-funded Center of Neural Communication Technology at the University of Michigan (www.engin.umich.edu/facility/cnct).

The fee of $100 includes the morning and afternoon sessions, a continental breakfast, and lunch. A reduced fee is available for students and postdoctoral scientists. Contact Vera Williams for registration information.

CONTACT:
Daryl Kipke, PhD
Phone: (734) 764-3716
Fax: (734) 936-1905
E-mail: dkipke@umich.edu
Web site: http://nelab.engin.umich.edu
Vera Williams
Phone: (734) 615-3360
E-mail: williav@umich.edu

Molecular and Functional Imaging in Neurodegenerative Disorders

San Diego Convention Center, Room 5AB
Friday, October 22
9 a.m. – 4 p.m.

The Brain Imaging Council of the Society of Nuclear Medicine is pleased to sponsor a symposium entitled "Molecular and Functional Imaging in Neurodegenerative Disorders." This daylong symposium will be organized in two halves. In the morning, molecular and functional brain imaging applications in Alzheimer's disease will be presented, and in the afternoon, applications in movement disorders will be reviewed. Presentations in each half will cover the role of molecular and functional neuroimaging in both basic science and in clinical research. The symposium will begin with an overview of molecular and functional neuroimaging techniques and will conclude with a discussion of future needs and opportunities in molecular and functional neuroimaging in neurodegenerative disorders.

CONTACT:
Michael Devous, PhD
Phone: (214) 648-3315
Fax: (214) 648-5641
E-mail: Michael.Devous@UTSouthwestern.edu

Brain Maps and Systems Biology

San Diego Marriott Hotel and Marina, Santa Rosa Room
Friday, October 22
9 a.m. – 5 p.m.

The focus of this symposium is to promote interaction and discussion among scientists working with databases and those who are just starting to move in this direction. The Human Brain Project has been funding the development of databases and analytical tools in neuroscience and has reached a critical juncture where we need to understand and learn more from those in the know. Databases in neuroscience will promote discovery research and will enhance hypothesis-driven research, which is the more traditional approach in neuroscience. The hope is that with this panel of experts

we will have the opportunity to learn important ideas and concepts and that this exchange will shape what we are doing.

CONTACT:
Stephen H. Koslow, PhD
Phone: (301) 443-1815
Fax: (301) 443-1867
E-mail: koz@helix.nih.gov
Web site: http://www.nimh.nih.gov/neuroinformatics

The Senses

San Diego Marriott Hotel and Marina, Marina Ballroom Salon D
Friday, October 22
10 a.m. – 6 p.m.

This symposium is sponsored by *The Journal of Physiology* and brings together some of the world's leading experts on sensory information processing. The major topics will be how different sensors evolved, what biophysical limits there are to the implementation of sensors, how sensory information is initially processed, and how the brain interprets and combines incoming information from different modalities. Our goal is to compare different sensory modalities in search of common organization principles and functional properties. We will enlist speakers using a whole variety of different approaches, ranging from genetic manipulations and single neuron responses to the analysis of systems.

CONTACT:
Karl Gegenfurtner, PhD
Phone: +0049 641 9926100
Fax: +0049 641 9926119
E-mail: gegenfurtner@uni-giessen.de
Cornelis Kros, PhD
Phone: +44 1273 678341
E-mail: c.j.kros@sussex.ac.uk

NIDA Mini-Convention: Creative Directions in Imaging Drug Effects in Animals

San Diego Convention Center, Room 30
Friday, October 22
10:30 a.m. – 12:35 p.m.

There has been a remarkable evolution of functional biomedical imaging methods into powerful and indispensable tools in drug abuse research. The goal of this session is to present outstanding, state-of-the-art examples of imaging research in animals that are now possible using PET, MRI, and optical methods.

Speakers: Susan Andersen, PhD, McLean Hospital; G. Allan Johnson, PhD, Duke University; Helene Benveniste, MD, PhD, Brookhaven National Laboratory; and Mark Schnitzer, PhD, Stanford University.

This symposium is part of NIDA's sponsored mini-convention on "Frontiers in Addiction Research." Seating is limited. Please pre-register online at: www.drugabuse.gov/WhatsNew/#5

The event will be co-chaired by Thomas Aigner and Steven Grant.

CONTACT:
Thomas Aigner
Phone: (301) 435-1314
Fax: (301) 594-6043
E-mail: taigner@nida.nih.gov
Steven Grant
Phone: (301) 443-8869
E-mail: sgrant@nida.nih.gov

NIDA Mini-Convention: Young Investigators Poster Session

San Diego Convention Center, Room 29
Friday, October 22
12:35 – 2:35 p.m.

This invited poster session will showcase drug abuse and related neuroscience research conducted by a diverse group of young investigators, including graduate students, postdoctoral fellows, and junior faculty. The poster session will also provide opportunities for young investigators to speak with the mini-convention symposium participants, NIDA staff, and NIDA-supported training directors and researchers.

This poster session is part of NIDA's sponsored mini-convention on Frontiers in Addiction Research. Pre-registration online recommended at: www.drugabuse.gov/WhatsNew/#5.

CONTACT:
Susan F. Volman, PhD
Phone: (301) 435-1315
Fax: (301) 594-6043
E-mail: svolman@nida.nih.gov
Web site: www.drugabuse.gov/whatsnew/#5

Confocal Microscopy and Stereology: An Executive Short Course

San Diego Marriott Hotel and Marina, Mission Hills Room
Friday, October 22
1 – 5 p.m.

Advances in staining and microscopy have made the use of multiple fluorescence labeling widespread. Such staining enables the investigator to detect several labels at once

and to determine their coexpression. It is increasingly necessary to combine qualitative observations with quantitation of cell number, and many reviewers now require that stereology be used. Performing stereological sampling on confocal microscopes can be difficult, and investigators must consider many aspects of material preparation, image acquisition, sampling design, and data interpretation to obtain reliable results. This short course is designed to present the principal investigator or researcher with the essential principles and common pitfalls of confocal microscopy and design-based stereology and to detail approaches combining these two valuable analytical techniques. Pre-registration is requested.

CONTACT:
Daniel Peterson, PhD
Phone: (847) 578-3411
Fax: (847) 578-8545
E-mail: info@neurorenew.com
Web site: www.neurorenew.com

Advances in Computational Motor Control III

San Diego Convention Center, Room 32AB
Friday, October 22
1 – 9:30 p.m.

The goal of this annual symposium is to look beyond empirical observations of motor function and focus on the deeper principles underlying those observations. The program will include invited talks and contributed talks. We invite extended abstract submissions. Each abstract will be reviewed and ranked by three referees, and the top abstracts will be selected for presentation. Any work that has a substantial theoretical component and is relevant to motor control will be considered. While formal ideas expressed as computational models are preferred, intuitive ideas that await formalization are also welcome. We encourage presentations by the researchers who were most directly involved in the work being submitted. Organizers: E. Todorov and R. Shadmehr.

CONTACT:
Emanuel Todorov, PhD
Phone: (858) 822-1658
E-mail: todorov@cogsci.ucsd.edu
Web site: www.acmc-conference.org

Behavioral and Neural Effects of Ethanol Withdrawal

San Diego Convention Center, Room 7AB
Friday, October 22
2 – 5 p.m.

In this 20th annual symposium on the neural basis of behavior, the invited speakers will consider the general impact and specificity of ethanol exposure versus ethanol withdrawal on brain function and behavior in animal models. The ameliorative and/or protective effects of chemical and hormonal interventions will be discussed. No registration or fees required.

Organizers: Michael J. Forster and James W. Simpkins. Sponsors: Accuscan Instruments, Inc., the Institute for Aging and Alzheimer's Disease Research, and the University of North Texas Health Science Center.

CONTACT:
Michael Forster, PhD
Phone: (817) 735-2092
Fax: (817) 735-2091
E-mail: forsterm@hsc.unt.edu
James Simpkins, PhD
Phone: (817) 735-2063
E-mail: jsimpkin@hsc.unt.edu

NIDA Mini-Convention: Mechanisms of Brain Resiliency and Repair

San Diego Convention Center, Room 30
Friday, October 22
2:35 – 4:40 p.m.

Brain resiliency and repair is an exciting frontier in neuroscience, yet few drug abuse researchers are looking toward clinical interventions being evaluated for neurodegenerative diseases. This symposium will relate the capacity of neurons to repair themselves and regenerate connections, and interventions to enhance repair and appropriate connectivity, to drug abuse neurotoxicity. Speakers are leaders in neural recovery for the broad range of neurodegenerative diseases.

This symposium is part of NIDA's sponsored mini-convention on "Frontiers in Addiction Research." Seating is limited. Please pre-register online at www.drugabuse.gov/WhatsNew/#5.

CONTACT:
Jerry Frankenheim
Phone: (301) 435-1312
Fax: (301) 594-6043
E-mail: JFranken@nida.nih.gov
Web site: www.drugabuse.gov/WhatsNew/#5
Nancy Pilotte
Phone: (301) 435-1317
Fax: (301) 594-6043
E-mail: NPilotte@nida.nih.gov
Web site: www.drugabuse.gov/WhatsNew/#5

NIDA Mini-Convention: The Role of Glutamate in Drug Addiction

San Diego Convention Center, Room 30
Friday, October 22
4:55 – 7:30 p.m.

Until recently the focus of research on the mechanisms of addiction has been on monoamines. Recent research has implicated glutamate in drug addiction. For example, psychostimulant administration modifies cortical glutamatergic and ventral tegmental-related plasticity that relates to sensitization and drug abuse relapse. This session will review these and other advances, and highlight the contribution of this system to the processes of drug addiction.

Speakers: S. Sesack, D. Self, A. Bonci, Y. Shaham, M. Caron, and P. Kalivas.

Chairs: M. Lynch and D. Shurtleff.

This symposium is part of NIDA's sponsored mini-convention on "Frontiers in Addiction Research." Seating is limited. Please pre-register online at www.drugabuse.gov/WhatsNew/#5 or e-mail mlynch1@mail.nih.gov.

CONTACT:
David Shurtleff, PhD
Phone: (301) 443-1887
Fax: (301) 594-6043
E-mail: dshurtle@mail.nih.gov

Saturday, October 23

Association of Neuroscience Departments and Programs Annual Meeting/Reception

San Diego Convention Center, Room 22
Saturday, October 23
5:30 – 7:30 p.m.

The annual fall meeting of the Association of Neuroscience Departments and Programs (ANDP) includes a reception and the annual presentation of the ANDP Award for Education in Neuroscience (recipient to be named). The meeting is open to all ANDP representatives. Registration is required.

CONTACT:
George Rebec, PhD
Phone: (812) 855-4832
Fax: (812) 855-4520
E-mail: rebec@indiana.edu
Web site: www.indiana.edu/~neurosci/rebec.html

Monday, October 25

Association of Neuroscience Departments and Programs Forum: Skills and Strategies for Getting the Job You Want

San Diego Convention Center, Room 22
Monday, October 25
11:30 a.m. – 1 p.m.

When the postdoctoral fellowship is ending and the job search is beginning, what will employers look for on your CV? What should you do to prepare for the interview, and when it arrives, what can you expect? How should you negotiate for salary, space, and start-up money? After you get the job offer, what can you do to get started quickly? What pitfalls should you avoid? The Association of Neuroscience Departments and Programs invites students, postdoctoral fellows, recently hired faculty, and more senior scientists to discuss these and related issues to illuminate and smooth the transition to research independence. Presentations of what search committees look for and what applicants should do to get and keep the job they want will be followed by a panel discussion led by postdoctoral fellows and recent hires. Audience participation will be encouraged to stimulate a lively discussion.

CONTACT:
Gerry Oxford, PhD
Phone: (317) 278-5808
Fax: (317) 278-5849
E-mail: goxford@iupui.edu
Web site: www.andp.org

WIN Business Meeting

San Diego Convention Center, Room 16B
Monday, October 25
noon – 1 p.m.

The mission of Women in Neuroscience (WIN) is to foster careers of women in neuroscience at every level of academia, as well as those in nonprofit, governmental, industry, and business organizations. Come to this meeting and discuss WIN initiatives, career development programs, and awards programs. Contact Laurel Haak if you would like to suggest agenda items for the meeting.

All members of SfN are invited; you do not need to be a member of WIN to attend and participate in our planning. Lunch will be served.

R.S.V.P. to WIN President Laurel Haak by October 1, to ensure sufficient lunches are available.

CONTACT:
Laurel Haak, PhD
Phone: (202) 334-1438
Fax: (202) 334-1667
E-mail: lhaak@nas.edu

Greek Neuroscientists Social

San Diego Convention Center, Room 11AB
Monday, October 25
6:30 – 7:30 p.m.

Our event is open to all meeting registrants, exhibitors, and their guests. This year there will be a review presentation and discussion by Nikolaos K. Robakis, PhD, professor of neurobiology and A.P. Slaner Professor for Alzheimer's Disease Research, Mount Sinai School of Medicine, New York, on "Genetics, Neuropathology and Molecular Biology of Alzheimer's Disease." The evening will continue with dinner, live Greek music, and dance at the Athens Market Taverna, 109 W. F St., San Diego, CA 92101 [(619) 234-1955], within walking distance of the San Diego Convention Center. Advance e-mail reservations strongly recommended.

CONTACT:
Emmanuel Pothos, PhD
Phone: (617) 636-6778
Fax: (617) 636-6738
E-mail: Emmanuel.Pothos@tufts.edu
George Paxinos, PhD
E-mail: g.paxinos@unsw.edu.au

siRNA Libraries as Tools for Target Identification

San Diego Convention Center, Room 5AB
Monday, October 25
6:30 – 7:30 p.m.

Small interfering RNAs (siRNAs) are routinely used to establish and confirm gene function in mammalian cells. We use libraries of siRNAs to identify genes involved in cellular pathways and processes and have measured how siRNA concentration, siRNA pooling, cell type, and time between transfection and analysis influence the final screening data. Our results provide a framework for setting up functional screens with siRNA libraries and show the power of using such an approach to correlate genes with cellular functions. Using tens to hundreds of siRNAs targeting kinases, GPCRs, phosphatases, transcription factors, and proteases, we have identified genes

involved in apoptosis, cell proliferation, interferon response, and cell cycle from both whole cell assays and from high content screening assays.

CONTACT:
Ellen Prediger, PhD
Phone: (512) 651-0200 x6125
Fax: (512) 651-0201
E-mail: eprediger@ambion.com
Web site: www.ambion.com
Dawn Obermoeller
Phone: (512) 651-0200 x6112
E-mail: dobermoeller@ambion.com
Web site: www.ambion.com

Ex Vivo Culture of Neural Stem Cells

San Diego Convention Center, Room 3
Monday, October 25
6:30 – 8 p.m.

Availability of ex vivo expanded neural stem cells (NSCs) has opened a new direction for basic research on neural development. Novel approaches toward the treatment of neurological disorders have evolved from this field of inquiry. The process of NSC proliferation is tightly regulated in vivo by extrinsic factors such as growth, integrins, extracellular matrix components, and neurotransmitters. Assorted culture conditions, therefore, using specific mitogens and adhesive substrates differentially affect the proliferation and lineage restriction of cultured NSCs.

In this workshop, a discussion will be held detailing how NSCs, derived from different sources, can best be expanded in vitro, and how culture conditions may affect proliferation and lineage selection of propagated NSCs.

CONTACT:
Hsiao-Tzu Ni, PhD
Phone: (800) 328-2400
Fax: (612) 379-6580
E-mail: jessien@rndsystems.com
Gregg Hickey, PhD
Phone: (800) 328-2400
E-mail: greggh@rndsystems.com

Funding Opportunities and Regulatory Steps for Developing Biological Therapeutics in Neuroscience

San Diego Convention Center, Room 6AB
Monday, October 25
6:30 – 8 p.m.

Many recent advances in neuroscience show great potential for development of therapies for disorders of the nervous system. To assist sponsors/grantees in the effective translation of novel biological therapies, such as cell transplantation, gene transfer, and other new biological interventions from the laboratory into clinical trials, the National Institute of Neurological Disorders and Stroke (NINDS) and the Center for Biologics Evaluation and Research of the Food and Drug Administration (FDA) have established a collaborative, interagency working group to assist sponsors and grantees who are planning applications. This symposium will present special funding opportunities in translational research at NINDS and will describe the series of important stages that are required for advancing biological products to clinical trial investigational status at the FDA.

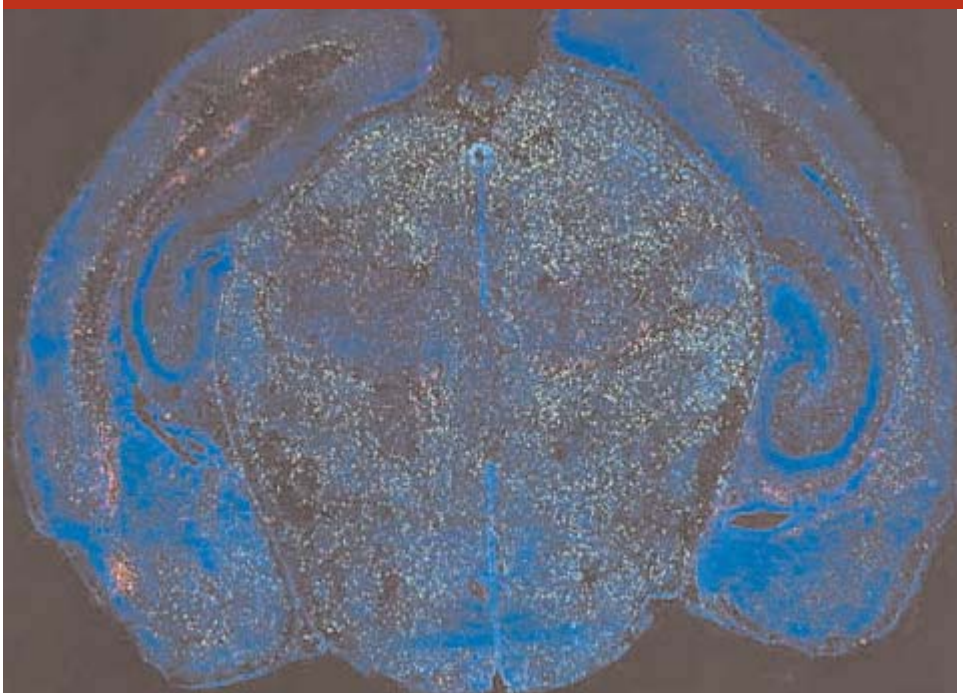
CONTACT:
Robert Baughman, PhD
Phone: (301) 496-1779
Fax: (301) 402-1501
E-mail: rb175y@nih.gov
Cynthia Rask, MD
Phone: (301) 827-6536
E-mail: cynthia.rask@fda.hhs.gov

Sleep Research Society Club Hypnos Reception

San Diego Marriott Hotel and Marina, Marriott Hall Salon 2
Monday, October 25
6:30 – 8 p.m.

The Sleep Research Society (SRS) invites meeting attendees to the Sleep Research Society Club Hypnos Reception. This event provides an opportunity for colleagues to share interests in sleep research. As part of the SRS's continuing effort to advance sleep research, all interested neuroscientists are welcome. Come learn about current SRS activities and the benefits of membership. Refreshments will be served.

CONTACT:
Kimberly McNamara
Phone: (708) 492-1093
Fax: (708) 492-0943
E-mail: kmcnamara@srsnet.org
Web site: www.sleepresearchsociety.org
Mark R. Opp, PhD
Phone: (734) 647-8929
E-mail: mopp@umich.edu



Turkish Neuroscience Social

San Diego Marriott Hotel and Marina,
Balboa Room
Monday, October 25
6:30 – 8 p.m.

The Neuroscience Society of Turkey, which is Turkiye Beyin Arastirmalari ve Sinirbilimleri Dernegi (TUBAS), also the Turkish Chapter of SfN, aims to host a purely social event where the Turkish diaspora of neuroscientists, visiting neuroscientists, and neuroscience students in the United States, Canada, Europe, Japan, and other countries abroad can meet the hosting Turkish neuroscientists and the Foreigner Friends of Turkish Neuroscience to establish and maintain fruitful networking and joint projects in neuroscience research, teaching, and community outreach.

CONTACT:

Gonul O. Peker, PhD
Phone: + 90 232 3882868
Fax: + 90 232 3746597
E-mail: gpeker@med.ege.edu.tr
Web site: www.neurosciencesociety ofturkey.org
Reha Erzurumlu, PhD
Phone: (504) 568-4016
E-mail: rerzur@lsu.edu

University of Michigan Neuroscience Reception

San Diego Marriott Hotel and Marina,
Marina Ballroom Salon D
Monday, October 25
6:30 – 8 p.m.

This is a social event hosted by the University of Michigan Neuroscience Graduate Program for faculty, students, alumni, and friends.

CONTACT:

Peter Hitchcock, PhD
Phone: (734) 763-9638
Fax: (734) 647-0717
E-mail: neuroscience.program@umich.edu
Web site: www.umich.edu/~neurosci
Charma Shoemaker
Phone: (734) 763-9638
E-mail: neuroscience.program@umich.edu
Web site: www.umich.edu/~neurosci

Cure Autism Now Foundation Event Social

San Diego Marriott Hotel and Marina,
Warner Center Room
Monday, October 25
6:30 – 8:30 p.m.

A chance for those already interested in autism research or becoming interested to join us for a cocktail party sponsored by Cure Autism Now. Cure Autism Now is a not-for-profit organization of parents, clinicians, and scientists committed to accelerating the pace of biomedical research in autism through raising money for research projects, education, and outreach.

CONTACT:

Sharon Shelton
Phone: (323) 549-0500 x 13
Fax: (323) 549-0547
E-mail: shelton@cureautismnow.org
Web site: www.cureautismnow.org

MBL Social

San Diego Marriott Hotel and Marina,
Point Loma Room
Monday, October 25
6:30 – 8:30 p.m.

The Marine Biological Laboratory (MBL) in Woods Hole, Mass., an internationally renowned center for full-immersion training and research in the life sciences, was at the heart of the emergence of neuroscience as a discipline. Throughout the years, many notables in the field have called the MBL home, including 16 Nobel laureates who either taught or studied here. Today the MBL continues to attract those seeking cutting-edge training and a unique cross-disciplinary research environment. This reception is open to all former, current, and future members of the MBL neuroscience community. Please join us for drinks, hors d'oeuvres, and a celebration of neuroscience at the MBL.

CONTACT:

Kate Shaw
Phone: (508) 289-7416
E-mail: kshaw@mbl.edu
Web site: www.mbl.edu

Neurobehavioral Teratology Society (NBTS) Social

San Diego Marriott Hotel and Marina,
Leucadia Room
Monday, October 25
6:30 – 8:30 p.m.

The NBTS welcomes those interested in the neurobehavioral teratology field. Our purpose is to understand the behavioral and developmental alterations that result from genetic and/or environmental perturbations of the nervous system during the pre- and perinatal period. We co-sponsor the journal, *Neurotoxicology and Teratology*, and host an annual meeting. Student membership is reasonably priced, and we offer generous student travel awards to our meeting. Join us for drinks (cash bar) and complimentary hors d'oeuvres to learn more about our society!

CONTACT:
Frank Scalzo
Phone: (845) 758-7222
Fax: (845) 758-7628
E-mail: scalzo@bard.edu
Web site: www.nbts.org

Neuroscience in Germany XI

San Diego Marriott Hotel and Marina,
Marriott Hall Salon 1
Monday, October 25
6:30 – 8:30 p.m.

This annual social event facilitates an exchange of ideas and contacts among basic scientists and clinicians as well as research fellows and graduate and undergraduate students interested in German neuroscience. As in previous years, there will be an opportunity to get familiarized with recent developments in German neuroscience research. In this informal get-together, all those having an interest in establishing contacts with German neuroscientists or who would like to work in a German laboratory are invited to participate. There has been some "job trading" in the past. The event is open to all registrants of the Society for Neuroscience annual meeting. To obtain further information and pre-register, contact Bernhard Sabel.

CONTACT:
Bernhard Sabel, PhD
Phone: +49-391-611 7100
Fax: +49-391-611 7103
E-mail: RNN@Medizin.Uni-Magdeburg.de

Novel Approaches in Behavioral Phenotyping

San Diego Marriott Hotel and Marina,
New York and Orlando Rooms
Monday, October 25
6:30 – 8:30 p.m.

Identifying a specific phenotype among thousands of mutants produced by modern mutagenesis programs, or discovering a successful new CNS drug among thousands of candidate compounds requires sensitive behavioral research tools with a maximum throughput. At this symposium, speakers from diverse areas, including ethology, pharmacology, and behavioral neurobiology, will discuss advances in behavioral testing made possible by novel research instruments. Each presentation will cover a technique, its validity for a specific test paradigm, and comparisons of its sensitivity relative to other techniques. Symposium topics will include automated behavioral phenotyping of zebrafish using video tracking; automated high-throughput behavioral phenotyping of mutant mice in a home cage environment; the modified holeboard: a differential screen for behavior in rodents; computer-aided gait analysis with CatWalk™: a novel screen for walking disorders in rodents; and computer analysis of rodent grooming sequences: detecting and analyzing hidden patterns.

Symposium speakers: Robert Gerlai, University of Hawaii; Steve Bonasera, UCSF; and Berry Spruijt, Frauke Ohl, Frank Hamers, all of Utrecht University. Refreshments will be served.

The SfN member sponsor of this event is Robert Gerlai, PhD.

CONTACT:
Shannon O'Malley
Phone: (703) 771-0440/(800) 355-9541
Fax: (703) 771-0441
E-mail: shannon@noldus.com
Web site: www.noldus.com

NYU Neuroscience

Manchester Grand Hyatt San Diego,
Manchester Ballroom Salon C
Monday, October 25
6:30 – 8:30 p.m.

All alumni, students, postdoctoral fellows, and faculty at New York University are cordially invited to an informal social gathering.

CONTACT:
Moses Victor Chao, PhD
Phone: (212) 263-0761
Fax: (212) 263-0723
E-mail: chao@saturn.med.nyu.edu
Edward Ziff, PhD
E-mail: edward.ziff@med.nyu.edu

Recent Findings in Developmental Psychobiology: PowerPoint and Exhibit Social

San Diego Marriott Hotel and Marina,
Mission Hills Room
Monday, October 25
6:30 – 8:30 p.m.

The International Society for Developmental Psychobiology (ISDP) promotes and encourages research on the development of brain and behavior with special attention to the effects of biological factors operating at any level of organization. Our members study a variety of subjects, from invertebrates to humans. A key mission for our society is to promote integrative discussion and foster collaborations that reach beyond traditional boundaries. This social and educational session will host a PowerPoint exhibit highlighting recent findings presented at the 37th ISDP meeting held in Aix, France, in June 2004. The event will feature a diverse range of developmental research spanning molecular and neurobiology, behavioral genetics, and developmental psychology. This informal social is open to anyone with interests in developmental psychobiology and will provide a unique opportunity to interact with colleagues who work in the area of behavioral and neural development.

CONTACT:
Gordon Barr, PhD
Phone: (212) 772-5610
Fax: (212) 772-4477
E-mail: gbarr@hunter.cuny.edu

Rehabilitation and Neurology Social

San Diego Marriott Hotel and Marina,
Marriott Hall Salon 5
Monday, October 25
6:30 – 8:30 p.m.

This 18th annual social event invites attendees of the SfN meeting to meet others interested in clinical neurology and rehabilitation. This purely social event is a good opportunity to meet scientists who have an interest in clinical neurophysiology, neurology, and rehab. Cash

bar and light snacks provided. All are welcome to announce position openings, upcoming meetings, and grant opportunities related to rehab and sensorimotor control. Sponsors: the National Center for Medical Rehabilitation Research, NeuroCom International, and the Neurology Section of the American Physical Therapy Association.

CONTACT:
Fay Horak, PhD
Phone: (503) 418-2600
Fax: (503) 418-2501
E-mail: horakf@ohsu.edu
Web site: www.ohsu.edu/nsi/

SUNY Downstate Social

San Diego Marriott Hotel and Marina, Torrance Room
Monday, October 25
6:30 – 8:30 p.m.

The Graduate Program in Neural and Behavioral Science and the Graduate Alumni Association of SUNY Downstate in Brooklyn, N.Y., cordially invite alumni, students, faculty, and friends to an informal social gathering. Join us to renew old friendships and make new ones. All meeting attendees are welcome to mingle, learn about our program, and meet our scientists. Prospective students interested in our graduate program are welcome. There will be hors d'oeuvres and a cash bar.

CONTACT:
Ed Throckmorton
Phone: (718) 270-2740
Fax: (718) 270-3378
E-mail: Ed.Throckmorton@downstate.edu
Web site: www.downstate.edu/grad
John Crary
Phone: (718) 270-3933
E-mail: john.crary@downstate.edu
Web site: www.downstate.edu/grad

University of Chicago Reception

San Diego Marriott Hotel and Marina, Santa Rosa Room
Monday, October 25
6:30 – 8:30 p.m.

Upon the occasion of its 25th anniversary, the Committee on Neurobiology at the University of Chicago, founded by Ray W. Guillery, invites students, faculty, alumni, and friends to a purely social reception. Come see old friends and make new ones. Snack food and drinks will be served.

CONTACT:
Peggy Mason, PhD
Phone: (773) 702-3144
Fax: (773) 702-1216
E-mail: p-mason@uchicago.edu
Diane Hall
Phone: (773) 702-6371
E-mail: d-hall@uchicago.edu

Washington University – St. Louis Neuroscience Reception

Manchester Grand Hyatt San Diego, Manchester Ballroom Salon E
Monday, October 25
6:30 – 8:30 p.m.

The neuroscience community at Washington University invites you to an informal social gathering for lively company and conversation. Join us at forming and renewing friendships and collaborations between past and present professors, postdocs, and students. Prospective graduate students and postdocs are also welcome to mingle and learn about current developments and future directions. We will be serving refreshments and hors d'oeuvres to aid in the merriment. For further information, contact Natasha Viquez, Department of Molecular Biology & Pharmacology, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110-1093, or by phone or e-mail listed below.

CONTACT:
Natasha Viquez
Phone: (314) 362-9866
Fax: (314) 747-3436
E-mail: viquezn@msnotes.wustl.edu

Electrophysiology Innovation Partnership Symposium

San Diego Convention Center, Room 6DE
Monday, October 25
6:30 – 9 p.m.

Speakers will present results illustrating advances in neuroscience due to advances in instrumentation. The first half will focus on microelectrode and chemical/thermal stimulation techniques. The second half will be devoted to multielectrode techniques. The microelectrode/stimulation techniques section will illustrate some experimental problems addressable with improved electronics. The multielectrode techniques part will illustrate the growing field of MEA technology.

The symposium is organized by the Electrophysiology Innovation Partnership (e.IP). It has the legal status of a friendly and incorporated society with the objective to further science and technology in the field of electrophysiology and to communicate and promote innovative developments, solutions, and products enabling high-end electrophysiology in the field of basic research, drug discovery, and neurotechnology.

CONTACT:
Hans Reiner Polder
Phone: +49-714-1601534
Fax: +49-714-1601266
E-mail: support@npielectronic.com
Web site: www.ephysinnovation.com, www.npielectronic.com

Glial Meeting

San Diego Marriott Hotel and Marina, Del Mar Room
Monday, October 25
6:30 – 9 p.m.

There is increasing recognition that glia are not glue but actively participate in the neural network. The Glial Meeting is an informal gathering for investigators from diverse backgrounds to share new and exciting findings in glial biology and to identify unsolved problems. There will be one or two short presentations, followed by informal discussion and interactions among all attendees. Light refreshments will be served.

CONTACT:
Akiko Nishiyama, PhD
Phone: (860) 486-4561
Fax: (860) 486-3303
E-mail: akiko.nishiyama@uconn.edu

University of Texas Medical Branch

Manchester Grand Hyatt San Diego, America's Cup Room C – D
Monday, October 25
6:30 – 9 p.m.

Members of the University of Texas Medical Branch (UTMB) extraordinary neuroscience graduate program invite friends to gather for an informal reception. Join former, current, and future faculty and students for refreshments and conversation. This event provides an opportunity for friends to gather. Join us in honoring Neuroscience Graduate Program Director Jim Blankenship and former program directors Bill Willis and Bob Leonard.

CONTACT:
Ann Anderson
Phone: (409) 747-1233
Fax: (409) 772-5420
E-mail: ananders@utmb.edu

Vesicle-Related Proteins as CNS Drug Targets

San Diego Convention Center, 7AB
Monday, October 25
6:30 – 9 p.m.
Chair: Jeffrey Noebels, MD, PhD, Baylor College of Medicine

Presynaptic mechanisms involved with neurotransmission are of growing interest in CNS drug discovery efforts. This symposium reviews the biology of presynaptic transmitter release proteins, including the regulated steps in transmitter packaging, mobilization, exocytosis, and modulation of vesicular release, and discusses the potential for future drug therapies that modify these intracellular pathways for the treatment of nervous system disorders. Speakers include: R. Edwards, UCSF, on packaging neurotransmitter vesicles; T. Sudhof, UT Southwestern, on mobilizing vesicle pools for release; S. Bajjalieh, University of Washington, on modulating exocytosis; B. Lynch, UCB Pharma Research, on a novel presynaptic target of an antiepileptic drug.

CONTACT:
Jeffrey Noebels, MD, PhD
E-mail: jnoebels@bcm.tmc.edu
Henrik Klitgaard, PhD
E-mail: henrik.klitgaard@ucb-group.com

Erythropoietin and the Nervous System

San Diego Marriott Hotel and Marina, Cardiff Room
Monday, October 25
6:30 – 9:30 p.m.

Please join us at the "Erythropoietin and the Nervous System" satellite symposium. Erythropoietin (EPO) is a hematopoietic growth factor primarily produced by the kidneys in response to hypoxia. However, EPO and its receptor are expressed widely in the nervous system. EPO has been shown to be a neuroprotective agent in various neuronal injury paradigms. The primary goal of this minisymposium is to bring researchers from different backgrounds in the neuroscience community to present "state-of-the-art" knowledge on EPO and the nervous system (there will be six 20-minute presentations), and stimulate further interest from groups who have not considered studying EPO. There will be an informal buffet of hors d'oeuvres and a cash bar for beverages.

CONTACT:
Ahmet Hoke, MD, PhD
Johns Hopkins University
Phone: (410) 614-1196
Fax: (410) 614-1008
E-mail: ahoke@jhmi.edu

Neuroscience in Neurosurgery

Manchester Grand Hyatt San Diego, Manchester Ballroom Salon A
Monday, October 25
6:30 – 9:30 p.m.

Neurosurgery offers unique, direct access to the human brain. Basic advances in neuroscience offer the potential of improvements in clinical care in neurosurgery, just as the access to the brain afforded by neurosurgeons offers potential for significant advances in human neurobiology. Epilepsy, movement disorders, transplantation, trauma, stroke and recovery, tumors, spina bifida, and hydrocephalus are examples of problems of interest to neurosurgeons. This social event with four brief presentations has been a focus of collaborative incubation for more than a decade. Issues of training and career paths receive lively discussion. Refreshments are provided.

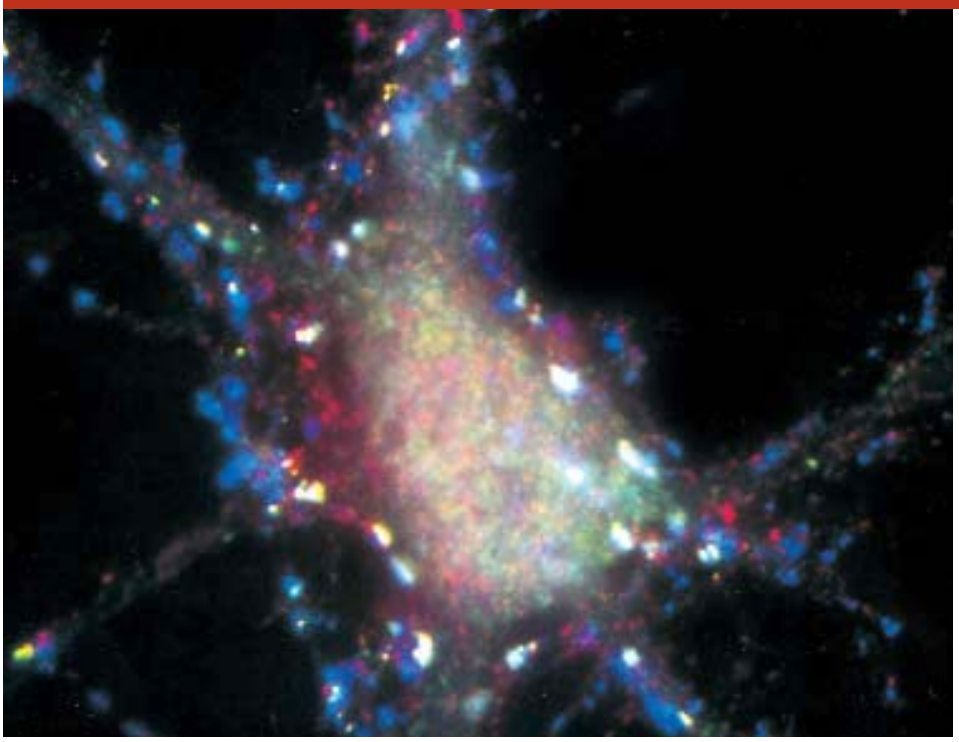
CONTACT:
Joseph R. Madsen, MD
Phone: (617) 355-6005
E-mail: joseph.madsen@childrens.harvard.edu

Progress in Motor Neuron Disease: Lessons from the Study of SMA

Manchester Grand Hyatt San Diego, Manchester Ballroom Salon D
Monday, October 25
6:30 – 9:30 p.m.

A unique convergence of events is contributing to a better understanding of spinal muscular atrophy and thus other motor neuron diseases. Led by co-chairs Alexander Mackenzie and Michael Sendtner, the faculty will discuss the role of SMN1, the gene implicated in SMA, as a ubiquitous protein, critical to spliceosome formation and mRNA processing. Mutation of the gene appears to be detrimental only to motor neurons: animal models of the disease suggest downstream effects of the mutation may be important in axonal modeling and function. Fortuitously, the presence of a duplicate gene, SMN2, is facilitating animal model studies and may provide the most straightforward path to therapeutics development for SMA, ALS, and other motor neuron diseases. Supported by the SMA Foundation.

CONTACT:
Cynthia Joyce
Phone: (646) 253-7100
Fax: (212) 247-3079
E-mail: cjoyce@smafoundation.org
Web site: www.smafoundation.org
Alexander MacKenzie, MD, PhD
Phone: (613) 737-2772
E-mail: alex@mgcheo.med.uottawa.ca



Taiwanese Social Evening

Jasmine, The Seafood Restaurant of San Diego,
Monday, October 25
6:30 – 9:30 p.m.

This will be mainly a social event designed to bring together all of the Taiwanese people attending the SfN annual meeting, for dinner and fellowship. All who attend the meeting from Taiwan, the U.S., or other parts of the world are most welcome to attend. The after-dinner speaker will be Shun-sheng Chen on the medical history of Taiwan. Chen is Professor of Neurology, Kaoshiung Chang Gung Memorial Hospital and Kaoshiung Medical University. Other programs and entertainment will be provided. Reservations appreciated.

Place: Jasmine, The Seafood Restaurant of San Diego, 4609 Convoy Street, San Diego, CA 92111. Phone: (858) 268-0888

For further information contact Anita Tredeau, or Shawn Wu, hwu@mcw.edu or (414) 456-5663.

CONTACT:

Leon Tseng, PhD
Phone: (414) 456-5686
Fax: (414) 456-6507
E-mail: ltseng@mcw.edu
Anita Tredeau
Phone: (414) 456-5733
E-mail: atredeau@mcw.edu

American Society for Neural Transplantation and Repair Social

Manchester Grand Hyatt San Diego,
Elizabeth Ballroom Salons A – B
Monday, October 25
7 – 10 p.m.

The American Society for Neural Transplantation and Repair hosts an evening of light food, medium music, and heavy dancing for members and friends.

CONTACT:

Myrna Lenz
Phone: (858) 534-8857
Fax: (858) 534-5220
E-mail: mlenz@ucsd.edu
Donna Morrison
Phone: (813) 974-3154
E-mail: dmorriso@hsc.usf.edu

The Biomedical Informatics Research Network Social

San Diego Marriott Hotel and Marina,
Atlanta and Chicago Rooms
Monday, October 25
6:30 – 10 p.m.

The Biomedical Informatics Research Network (BIRN), www.nbirn.net, is an NIH information technology initiative that fosters distributed collaborations in biomedical science. Currently, this growing consortium involves 22 research sites from 14 universities and hospitals participating in three test bed projects centered on neuroimaging studies of human neuropsychiatric illness and associated animal models. The BIRN is developing a shared infrastructure for collaboration, data sharing, integration, and analysis in basic and translational research that is available from any Internet capable location. As a part of this open system, software tools and resources are being made available to the biomedical community for their use.

This informal, social meeting is open to all those interested in learning about the BIRN, viewing demonstrations, and in meeting with researchers who are utilizing the BIRN infrastructure.

CONTACT:

Jeffrey Grethe, PhD
Phone: (858) 822-0703
Fax: (858) 822-0828
E-mail: jgrethe@ncmir.ucsd.edu
Web site: www.nbirn.net/Events/Neuroscience_2004

Partners in the Mercosur, Partners in Neuroscience: Brazil and Argentina Get Together in San Diego

San Diego Marriott Hotel and Marina,
Marina Ballroom Salon G
Monday, October 25
6:30 – 10 p.m.

In 2003, Brazilian neuroscientists hosted for the first time an official ancillary SfN event. With the intention of strengthening scientific bonds among South American countries, Brazil and Argentina decided to co-organize this year's gathering.

Representatives from both countries will discuss strategies for the enhancement of neuroscience in the region, following up on opportunities for collaboration and funding. Then, all neuroscientists are invited to celebrate together the richness of both cultures featuring forró, tango, capoeira, and malambo. Caipirinhas and empanadas will be served.

CONTACT:

Stevens Rehen, PhD
Phone: (858) 784-1000
Fax: (858) 784-7084
E-mail: srehen@scripps.edu
Carla Rothlin
E-mail: rothlin@salk.edu

Serotonin Club Dinner

Berkeley Ferry Boat,
Monday, October 25
6:30 – 10 p.m.

The Serotonin Club is an international organization dedicated to sharing information on research concerning this formidable neurotransmission system. Well established functions of the serotonergic system include the three S's: sleep, sex, and satiety. This dinner event will focus on satiety. Members as well as nonmembers interested in learning more about this exciting field are welcome to attend. This is a purely social event with no speeches and will be held at Berkeley Ferry Boat, 1492 N. Harbor Drive. Cost is $60 per person. Checks should be made payable to the Serotonin Club and sent to the attention of Sonya Watkins, 215 College Rd., Paramus, NJ 07652. Phone: (201) 261-1331 x 365. So relax, eat, drink, and enjoy meeting new and old colleagues!

CONTACT:

Theresa Branchek, PhD
Phone: (201) 261-1331 x118
Fax: (201) 261-0623
E-mail: tbr@lundbeck.com
Mark Geyer, PhD
Phone: (619) 543-3582
E-mail: mgeyer@ucsd.edu

Stem Cell Update: Can Evolving Developmental Insights Inform Intelligent Therapeutic Translation and Its Limitations?

Manchester Grand Hyatt San Diego,
Manchester Ballroom Salons G – I
Monday, October 25
6:30 – 10 p.m.

The La Jolla-based biomedical research institutes (Burnham, Salk, Scripps, and UCSD), on behalf of the Southern California Stem Cell Consortium, will jointly sponsor an evening symposium dealing with the latest controversies, insights, and "hot topics" in stem cell biology – with a particular emphasis on fundamental developmental biology. In an effort to comprehend the realistic road to translation, topics will address our evolving knowledge of the complexities of signaling pathways and modes of gene expression; the limitations to cell replacement; the "rescue" effects and trophic responses (vs. replacement potential) mediated by stem cells; the role of, and interplay with, non-neural cells; host-stem cell interactions; difficulties in definition and taxonomy; species differences between rodent and human; and the limitations of "plasticity." The format will include very short "blitz"-like presentations by multiple investigators, each telling a single "story" and each followed by discussion/debate. (Supported in part by bequests from Invitrogen and Chemicon.)

CONTACT:

Evan Snyder, MD, PhD
Phone: (858) 646-3158
Fax: (858) 713-6273
E-mail: esnyder@burnham.org
Web site: www.burnham.org
Shonna Hyde
Phone: (858) 646-3100 x3388
E-mail: shyde@burnham.org
Web site: www.burnham.org

Aiming Higher: The Goal of a Blue Angel's Pilot

San Diego Convention Center, Ballroom 6CF
Monday, October 25
7 – 8:30 p.m.

Before flying with the world-famous Blue Angels, Jim Horsley flew as a Navy combat pilot in Vietnam. He will share his "lessons from the edge" experienced in Vietnam and air shows with the Blue Angels. He has worked with a worldwide humanitarian organization and visited many places including Africa, Latin America, and North Vietnam. In addition, he will speak on faith's impact on neuroscience research to serve the peoples of the world. A discussion will follow the lecture. This meeting welcomes all conference attendees of the Society for Neuroscience, as well as the public. To receive e-mail updates, enter your e-mail address in the Christian Neuroscience Society's Mail List database at www.cneuroscience.org

CONTACT:

Ted McDonald, PhD
Phone: (360) 683-8300
Fax: (360) 683-3525
E-mail: ted@a-msystems.com
Web site: www.cneuroscience.org

Is Beta Amyloid the Cause of AD and Best Therapeutic Opportunity?

San Diego Convention Center, Room 1AB
Monday, October 25
7 – 9 p.m.

The amyloid hypothesis of Alzheimer's disease (AD) arose almost two decades ago with the observation that beta amyloid peptide was a core component of neuritic plaques found in the diseased brain at autopsy. Intense research in the intervening years has shed significant light on this topic, although it still remains a hypothesis. Please join your colleagues this evening for a debate regarding the role of beta amyloid in AD. It will involve two experts in the field, Todd Golde and Peter Davies, who will argue the pros and cons, respectively, of the data supporting the amyloid hypothesis. This is the second in a series of debates sponsored by the Neurological Disease Foundation, a nonprofit organization devoted to increased awareness and scientific discourse on issues affecting diseases of the nervous system.

CONTACT:

Dale Schenk, PhD
Phone: (650) 877-7651
Fax: (650) 553-7196
E-mail: dale.schenk@elan.com
Web site: www.n-d-f.com
Cheryl Badaracco
Phone: (650) 877-7651
E-mail: cheryl.badaracco@elan.com
Web site: www.n-d-f.com

American Society and International Society for Neurochemistry Mixer

San Diego Marriott Hotel and Marina, Marina Ballroom Salon F
Monday, October 25
6:30 – 10 p.m.

The American Society for Neurochemistry (ASN) and International Society for Neurochemistry (ISN) cordially invite all ASN/ISN members to bring a nonmember guest and join us in the ASN/ISN Hospitality Room.

CONTACT:
Sheilah Jewart
Phone: (407) 909-9064
Fax: (407) 876-0750
E-mail: amazing@iag.net
URL: www.ASNeurochem.org

Patents for Scientists

San Diego Convention Center, Room 2
Monday, October 25
7:30 – 9:30 p.m.

Patents for Scientists: A presentation about intellectual property (IP) for scientists in academia and in industry. Topics to be covered include: What is IP?; IP for academic scientists; IP for industry scientists; and IP for budding entrepreneurs. Faculty include: James Fox, PhD (neuroscience), JD, research at UCLA, UCSF, biotech industry, now patent attorney; Carol Stratford, PhD (pharmacology), JD, research at University of Michigan, Stanford University, biotech industry, now patent attorney; Joseph Belanoff, MD, faculty member in the department of psychiatry and behavioral sciences at Stanford University, co-founder and CEO of Corcept, a biopharmaceutical company; Heath Lukatch, PhD (neuroscience), research at Stanford University, biotech industry, now managing director, Piper Jaffray Ventures. Pre-registration requested at: jfox@hewm.com.

CONTACT:
James Fox, PhD
Phone: (650) 324-6951
Fax: (650) 324-0638
E-mail: jfox@hewm.com
Web site: www.hewm.com

Society for the Stimulus Properties of Drugs

Manchester Grand Hyatt San Diego, America's Cup Room A – B
Monday, October 25
7:30 – 10 p.m.

Society for the Stimulus Properties of Drugs will sponsor an evening paper session at the Society for Neuroscience meeting. The annual business meeting will be held prior to oral presentations of current research. Light refreshments and a cash bar will be available. Open to all students and investigators interested in the stimulus properties of drugs.

CONTACT:
Ellen Walker, PhD
Phone: (215) 707-6770
Fax: (215) 707-3678
E-mail: ellen.walker@temple.edu

LGBT Neuroscientist Social

San Diego Marriott Hotel and Marina, Coronado Room
Monday, October 25
8 – 9 p.m.

This is the 13th annual social event for lesbian, gay, bisexual, and transgendered members of the neuroscience community and their colleagues. All are welcome.

CONTACT:
Michael Rogan, PhD
Phone: (212) 543-5594
Fax: (212) 543-5474
E-mail: mr522@columbia.edu
Web site: www.geocities.com/lgbtneuroscientist

siRNA Delivery: Optimizing Transfection and Electroporation

San Diego Convention Center, Room 5AB
Monday, October 25
8 – 9 p.m.

Delivery of siRNA is critical to mammalian RNA interference experiments. We have developed two siRNA delivery procedures that are faster and often more efficient than current siRNA transfection protocols. The first, developed for immortalized cells, involves simultaneously plating and transfecting cells to reduce time and improve transfection efficiency. The method facilitates high-throughput applications such as siRNA library screening and long-term knockdown by repeated siRNA transfection. The second method was developed for primary, neuronal, and suspension cells and features electroporation. It overcomes problems with poor cell viability inherent in mammalian cell electroporation and provides up to 95 percent target gene reduction in primary cell populations. Applications of both methods will be presented along with analyses of how these methods impact siRNA efficacy and specificity.

CONTACT:
Ellen Prediger, PhD
Phone: (512) 651-0200 x6125
Fax: (512) 651-0201
E-mail: eprediger@ambion.com
Web site: www.ambion.com
Dawn Obermoeller
Phone: (512) 651-0200 x6112
E-mail: dobermoeller@ambion.com
Web site: www.ambion.com

The Grass Foundation Fellowship Program at the Marine Biological Laboratory

San Diego Marriott Hotel and Marina, Solana Room
Monday, October 25
8 – 9:30 p.m.

The Grass Foundation has supported neuroscientists early in their careers to conduct independent research at the Marine Biological Laboratory (MBL) in Woods Hole, Mass., since 1951. This social/educational gathering

provides the opportunity for those interested in applying for a Grass Fellowship to talk with trustees and former fellows. This session will be informal with an introduction to the program followed by a question-and-answer period. Potential applicants can then discuss the program with those present. Currently, there are more than 400 Grass fellows, and many of them have gone on to make major contributions to neuroscience. See contact information below or send mail to 400 Franklin St., Ste. 302, Braintree, MA 02184.

CONTACT:
Steven Zottoli, PhD
Phone: (781) 843-0219
Fax: (781) 843-0474
E-mail: GrassFdn@aol.com
Web site: www.GrassFoundation.org

Neuroscience in Sleep and Circadian Biology

San Diego Marriott Hotel and Marina, Marriott Hall Salon 3
Monday, October 25
8 – 9:30 p.m.

Understanding the molecular and genetic basis of sleep and sleep disorders and the interaction between sleep and circadian systems remains a significant unmet challenge for neurobiologists. This is an opportunity for researchers with common interests in the neurobiology and genetics of sleep, sleep disorders, circadian biology, and ventilatory control to meet informally with investigators in related disciplines. Fast paced DataBlitz presentations will highlight recent research developments. Representatives from the NIH National Center on Sleep Disorders Research and other NIH institutes will be present. No pre-registration required.

CONTACT:
Carl E. Hunt, MD
Phone: (301) 435-0199
Fax: (301) 480-3451
E-mail: ncsdr@nih.gov
Web site: www.nhlbi.nih.gov/sleep

UIUC Neuroscience Reception

Manchester Grand Hyatt San Diego, Manchester Ballroom Salon B
Monday, October 25
8 – 10 p.m.

Open reception sponsored by UIUC (University of Illinois at Urbana-Champaign) Neuroscience Program. Light food and beverages.

CONTACT:
Samuel N. Beshers, PhD
Phone: (217) 333-4971
Fax: (217) 244-3499
E-mail: beshers@life.uiuc.edu

Tuesday, October 26

How to Publish Your Paper in *Science* Magazine

San Diego Convention Center, Room 11AB
Tuesday, October 26
5:30 – 6:30 p.m.

Editors from *Science* magazine will provide an overview of how to get published in *Science*. They will walk through the process of submitting a paper, and then provide an overview of the review process, and finally publication. Any scientist interested in being published in *Science* should plan to attend.

CONTACT:
Amanda Donathen
Phone: (202) 326-6669
Fax: (202) 898-7825
E-mail: adonathe@aaas.org
Web site: www.scienceonline.org

MicroRNA Profiles in Normal and Disease Tissues

San Diego Convention Center, Room 2
Tuesday, October 26
5:30 – 6:30 p.m.

MicroRNAs (miRNAs) are small, siRNA-like molecules encoded in plant and animal genomes. The highly conserved, ~21mer RNAs regulate expression of genes by binding specific mRNAs and modulating their translation. Examples exist of miRNAs being key regulators of early development, cell proliferation and cell death, apoptosis and fat metabolism, and cell differentiation. Recent studies of miRNA expression implicate various miRNAs in brain development, chronic lymphocytic leukemia, and colonic adenocarcinoma providing possible links between miRNAs and neurodevelopment and cancer. We have developed methods for isolating and quantifying miRNAs in tissue and cell samples. We have used these procedures to analyze a variety of normal and abnormal tissue samples, including human brain subregions. Our miRNA expression data implicate a number of miRNAs in brain differentiation and disease progression.

CONTACT:
Ellen Prediger, PhD
Phone: (512) 651-0200 x6125
Fax: (512) 651-0201
E-mail: eprediger@ambion.com
Web site: www.ambion.com
Dawn Obermoeller
Phone: (512) 651-0200 x6112
E-mail: dobermoeller@ambion.com
Web site: www.ambion.com

Wellesley College Neuroscience Reunion

San Diego Marriott Hotel and Marina, Carlsbad Room
Tuesday, October 26
5:30 – 6:30 p.m.

This is a purely social get-together for faculty and alumnae of the Wellesley College Neuroscience (formerly Psychobiology) Program.

CONTACT:
Barbara Beltz, PhD
Phone: (781) 283-3048
Fax: (781) 283-3642
E-mail: bbeltz@wellesley.edu

Association of Korean Neuroscientists Annual Symposium

San Diego Marriott Hotel and Marina,
Santa Rosa Room
Tuesday, October 26
5:30 – 7 p.m.

This is an annual meeting of Korean neuroscientists from North America, Korea, and other countries, and is open to everyone. An informal reception with poster presentations will be held from 5:30 to 7 p.m. A dinner meeting will follow at 7:30 p.m. and the location will be posted on the Association of Korean Neuroscientists (AKN) Web site (http://www2.utmb.edu/akn). Please contact U.J. Kang or K.S. Kim for poster presentations; slots are limited.

CONTACT:
Un Jung Kang, MD
Phone: (773) 702-6389
Fax: (773) 702-9060
E-mail: unkang@uchicago.edu
Kwang Soo Kim, PhD
Phone: (617) 855-2024
Fax: (617) 855-3479
E-mail: kskim@mclean.harvard.edu

IBNS Reception

San Diego Marriott Hotel and Marina,
Marriott Hall Salon 2
Tuesday, October 26
5:30 – 7 p.m.

The International Behavioral Neuroscience Society (IBNS) cordially invites SfN registrants with an interest in the relationship between brain function and behavior. This event provides an opportunity to meet individuals with similar interests and as a rendezvous point for current IBNS members. IBNS, founded to encourage research and education in the field of behavioral neuroscience, has 626 members from 33 different countries. Information on future meetings and membership in the Society will be available. Refreshments/cash bar.

Contact: Marianne Van Wagner, IBNS Central Office, 8181 Tezel Road, #10269, San Antonio, TX 78250, or via the contact information listed below.

CONTACT:
Marianne Van Wagner
Phone: (830) 796-9393
Fax: (830) 796-9394
E-mail: ibns@ibnshomepage.org
Web site: www.ibnshomepage.org

Chinese Neuroscientists Social

San Diego Marriott Hotel and Marina,
Manchester Room
Tuesday, October 26
5:30 – 7:30 p.m.

The Society for Chinese Bioscientists of America (SCBA) Neuroscience Division invites you to a social gathering. Richard Tsien will come to give a short talk. An "Outstanding Achievement" award will be given in a special ceremony this year for the first time. Everybody, regardless of ethnic background, is welcome! This is a great opportunity to meet old friends, make new friends, and talk to some leading neuroscientists in the field. Lin Mei, Yi Rao, Morgan Sheng, Liqun Luo, Li-Huei Tsai, and Yu-Tian Wang will join the event.

CONTACT:
Bai Lu, President
E-mail: lub@mail.nih.gov
Gong Chen, Treasurer, PhD
Phone: (814) 865-2488
E-mail: gongchen@psu.edu

Fragile X Research Forum: Forefronts of Research on Fragile X Mental Retardation

San Diego Marriott Hotel and Marina,
Marriott Hall Salon 1
Tuesday, October 26
5:30 – 7:30 p.m.

You are cordially invited to attend a Fragile X Research Forum hosted by FRAXA Research Foundation, Conquer Fragile X Foundation, and the Fragile X Research Foundation of Canada, three foundations that offer grants to scientists for research aimed at a cure or specific treatments for Fragile X.

Scheduled to speak are SfN Treasurer-elect Bill Greenough, Howard Hughes Investigator Mark Bear of MIT, and Oswald Steward of the University of California-Irvine. This event will be an excellent opportunity for investigators, postdoctoral fellows, and students to meet leaders in this field and to learn about the latest advances in understanding the neurobiology of Fragile X. There will be opportunity for informal discussion with the speakers and to talk with officials of the hosting foundations about their research funding programs. Wine, cheese, and light hors d'oeuvres will be provided.

CONTACT:
Katherine Clapp, MS
Phone: (978) 462-1866
Fax: (978) 463-9985
E-mail: kclapp@fraxa.org
Web site: www.fraxa.org
William Greenough, PhD
Phone: (217) 333-4472
E-mail: wgreenou@uiuc.edu
Web site: http://soma.npa.uiuc.edu/labs/greenough/home.html

Loyola University Chicago Neuroscience and Aging Institute Reception

San Diego Marriott Hotel and Marina,
Coronado Room
Tuesday, October 26
5:30 – 7:30 p.m.

Please join us for the annual gathering of friends and alumni of the Neuroscience and Aging Institute at Loyola University Chicago.

CONTACT:

Paula Griffin-Arnold
Phone: (708) 216-6755
E-mail: pgriffi@lumc.edu

Neuroscience in Developing Countries: Do You Dare to Return Home?

San Diego Convention Center, Room 7AB
Tuesday, October 26
5:30 – 7:30 p.m.

Many scientists in developing countries have done some or all of their training in a developed country. While increasing programs exist for this type of foreign training, the problem arises when trainees return home to establish independent laboratories. Cash-strapped institutions that have limited infrastructure make it difficult to return without sacrificing research. In this symposium, we will hear from neuroscientists who have (and have not) successfully transitioned back to their home country and identify potential solutions to the typical problems. Institutions trying to attract back talented trainees, as well as funding organizations, will be present and listening. Please join us for a lively discussion. Attendees from both developed and developing countries are encouraged to attend. Light refreshments will be served.

CONTACT:

Gregory Quirk, PhD
Phone: (787) 813-1883
Fax: (787) 844-1980
E-mail: gjquirk@yahoo.com
Gladys Maestre, MD, PhD
E-mail: gem6@cgcmail.cpmc.columbia.edu

Songbird Neurogenomics Initiatives

San Diego Convention Center, Room 10
Tuesday, October 26
5:30 – 7:30 p.m.

This event will bring together people interested in new resources under development for neuroscience research using songbirds. These resources include Web-accessible databases of gene sequences expressed in the brain and DNA microarrays for analysis of gene expression and conservation.

Topics will include description of available resources and mechanisms for access, overview of experimental applications and approaches, and discussion of community priorities for possible future efforts (e.g., full genome sequencing, integrated database for gene sequence and expression data, comparative studies, and systematic breeding program for genetics).

Anyone interested in using songbirds as a model for the study of brain, behavior, evolution, and disease is welcome!

CONTACT:

David Clayton, PhD
Phone: (217) 244-3668
Fax: (503) 213-6611
E-mail: dclayton@uiuc.edu
Web site: http://titan.biotec.uiuc.edu/songbird
Kirstin Replogle
Phone: (217) 244-6268
E-mail: kdohrer@life.uiuc.edu
Web site: http://titan.biotec.uiuc.edu/songbird

UCLA Neuroscience Reception

San Diego Marriott Hotel and Marina,
Marriott Hall Salon 3
Tuesday, October 26
5:30 – 7:30 p.m.

The UCLA Brain Research Institute and the UCLA Neuropsychiatric Institute are hosting a social gathering for members, friends, and alumni of the UCLA neuroscience community.

CONTACT:

Michael Levine, PhD
Phone: (310) 825-5061
Fax: (310) 267-0341
Web site: www.bri.ucla.edu
Julia Spragg
Phone: (310) 825-5061
E-mail: spragg@mednet.ucla.edu
Web site: www.bri.ucla.edu

Canadian Association for Neuroscience Reception and Annual Business Meeting

San Diego Marriott Hotel and Marina,
San Diego Ballroom Salon C
Tuesday, October 26
5:30 – 8 p.m.

The Canadian Association for Neuroscience invites you to this largely social event designed to bring together Canadian neuroscientists (trainees and faculty) in an informal atmosphere to facilitate the formation of new contacts and bolster old ones. Hors d'oeuvres will be offered and a cash bar will be open throughout the evening. The business meeting will be held from approximately 6:30 to 7 p.m., during which time travel awards to graduate students and postdoctoral fellows will be presented. Information on new funding opportunities will be made available.

CONTACT:

Valerie Verge, PhD
Phone: (306) 655-8710
Fax: (306) 655-8709
E-mail: verge@sask.usask.ca

MIT Mixer

The Bitter End,
Tuesday, October 26
5:30 – 8 p.m.

An informal cocktail reception for present, former, and prospective students; faculty; staff; and friends of the MIT Department of Brain and Cognitive Sciences.

CONTACT:

John Armstrong
Phone: (617) 253-0267
Fax: (617) 258-9216
Web site: http://web.mit.edu/bcs

Recent Advances in Network Electrophysiology Using Multi-Electrode Arrays

San Diego Convention Center, Room 3
Tuesday, October 26
5:30 – 8 p.m.

In this third annual symposium on network electrophysiology using multi-electrode arrays, the invited speakers will discuss short- and long-term properties of neuronal networks investigated in acute and cultured brain slices. The target audience for this event includes all neuroscientists who strive to get reliable, long-term, continuous recordings and two-dimensional, real-time analysis of neuronal activity.

Invited speakers will include neuroscientists from Duke University, the National Institutes of Health, and the University of Tokyo. No registration is required and the symposium is free to SfN attendees.

CONTACT:
Makoto Taketani, PhD
Phone: (949) 258-0310
Fax: (949) 258-0321
E-mail: taketani@med64.com
Web site: www.med64.com

Mayo Molecular Neuroscience Program Alumni Reception

San Diego Marriott Hotel and Marina, Torrey Room 1– 2
Tuesday, October 26
6 – 8 p.m.

All alumni and guests of the Mayo Molecular Neuroscience Program (predoctoral or postdoctoral trainees) are invited to attend the reception to renew old friendships and promote future collaborations. There will be an informal buffet of hors d'oeuvres and beverages.

For further information: Anthony J. Windebank, MD, Professor of Neurology, Mayo Clinic College of Medicine, 1501 Guggenheim Building, 200 First Street SW, Rochester, MN 55905.

CONTACT:
Anthony Windebank, MD
Phone: (507) 284-1781
Fax: (507) 284-3383
E-mail: windebank.anthony@mayo.edu

Restless Legs Syndrome: The Thief of Sleep

San Diego Marriott Hotel and Marina, Columbia 1 – 3
Tuesday, October 26
6:30 – 8:30 p.m.

The objectives of this social event are to acquaint SfN members with a common, but relatively unknown neurological disorder, the Restless Legs Syndrome, and to show how a diversity of disciplines, approaches, and studies of different nervous system regions are now contributing to understanding this disorder. This social will bring together international experts in Restless Legs Syndrome.

CONTACT:
Sheila Rainey
Phone: (507) 287-6465
Fax: (507) 287-6312
E-mail: rainey@rls.org
URL: www.rls.org
Georgianna Bell
Phone: (507) 287-6465
E-mail: bell@rls.org
URL: www.rls.org

UCSD Neurosciences/Salk/Scripps Reception and Alumni Reunion

San Diego Marriott Hotel and Marina, San Diego Ballroom Salon A
Tuesday, October 26
6 – 9 p.m.

All UCSD, Salk Institute, and Scripps Research Institute alumni are cordially invited to the UCSD Neurosciences Graduate Program Alumni Reunion on Tuesday, October 26 from 6 to 9 p.m. Cocktails and hors d'oeuvres to be served.

CONTACT:
Tanya Levi
Phone: (858) 534-7875
Fax: (858) 534-8242
E-mail: tlevi@ucsd.edu
URL: http://medicine.ucsd.edu/neurosci
Nikki Larramendy
Phone: (858) 534-3377
E-mail: nlarramendy@ucsd.edu
URL: http://medicine.ucsd.edu/neurosci

Amplification of Nanogram and Picogram Amounts of Total RNA

San Diego Convention Center, Room 5AB
Tuesday, October 26
6:30 – 7:30 p.m.

RNA amplification by T7 polymerase transcription of cDNA is commonly used for preparing microarray samples and is often necessary for producing sufficient labeled target nucleic acid for detection by array hybridization. Amplification of micrograms of RNA (millions of cells) is fairly robust and has been successfully used for expression profiling experiments. However, amplification of nanograms (100-9000 cells) to picograms (few cells) of RNA is still problematic. We will present amplification characteristics of low total RNA inputs from diverse samples (mouse brain, cell cultures, tumor biopsies, high quality control samples), and other preliminary studies. Microarray analysis of some of these samples indicates that expression analysis of nanogram amounts of total RNA is possible.

CONTACT:
Ellen Prediger, PhD
Phone: (512) 651-0200 x6125
Fax: (512) 651-0201
E-mail: eprediger@ambion.com
URL: www.ambion.com
Dawn Obermoeller, MS
Phone: (512) 651-0200 x6112
E-mail: dobermoeller@ambion.com
URL: www.ambion.com

List of Sessions by Theme and Day

www.sfn.org/am2004

Theme Descriptions

A Development
B Synaptic Transmission and Excitability
C Sensory Systems
D Motor Systems
E Homeostatic and Neuroendocrine Systems
F Cognition and Behavior
G Neurological and Psychiatric Conditions
H Techniques in Neuroscience
I History and Teaching of Neuroscience

All posters will be exhibited in the Convention Center Halls A–H. All slide rooms are in the Convention Center.

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
	Theme A							
24	Regeneration CNS and Retina	S	32B	1:00 pm				
31	Neurogenesis in the Dentate Gyrus I	P		1:00 pm				
32	Cell Cycle Regulation	P		1:00 pm				
33	Secreted Factors and Neural Development	P		1:00 pm				
34	Neuronal Regeneration	P		1:00 pm				
35	Transcription Control	P		1:00 pm				
36	Neuronal Differentiation and Outgrowth	P		1:00 pm				
37	Axon Guidance I	P		1:00 pm				
38	Cytokines and Other Factors I	P		1:00 pm				
39	Neurotrophins and Receptors I	P		1:00 pm				
40	Trophic Factors and Cell Death I	P		1:00 pm				
41	Development: Olfactory and Taste Systems	P		1:00 pm				
42	Transplantation: CNS Models and Mechanisms	P		1:00 pm				
43	Regeneration CNS: Spinal Cord I	P		1:00 pm				
44	Comparative and Evolutionary Neuroscience	P		1:00 pm				
148	Glial and Neural Crest Development	P			8:00 am			
149	Forebrain Patterning	P			8:00 am			
150	Neural Stem Cells I	P			8:00 am			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme A								
151	Glial Differentiation: Astrocytes	P			8:00 am			
152	Gliogenesis	P			8:00 am			
153	Axon Guidance II	P			8:00 am			
154	Activity-Dependent Development and Plasticity I	P			8:00 am			
155	Activity-Dependent Development and Plasticity II	P			8:00 am			
156	Activity-Dependent Development and Plasticity III	P			8:00 am			
157	Cytokines and Other Factors II	P			8:00 am			
158	Trophic Factors and Cell Death II	P			8:00 am			
257	Axon Growth and Guidance	S	11B		1:00 pm			
266	Neurogenesis in the Ganglionic Eminences	P			1:00 pm			
267	Cerebral Cortical Neurogenesis	P			1:00 pm			
268	Retinal Development	P			1:00 pm			
269	Synapse Formation: PNS I	P			1:00 pm			
270	Transplantation: Cellular and Molecular Studies	P			1:00 pm			
271	Regeneration CNS: Cellular and Molecular Mechanisms I	P			1:00 pm			
373	Regeneration PNS	S	23A			8:00 am		
381	Striatum Neurogenesis and Parkinson's Disease	P				8:00 am		
382	Adult Neurogenesis	P				8:00 am		
383	Neural Stem Cells II	P				8:00 am		
384	Dendritic Growth I	P				8:00 am		
385	Synapse Formation: PNS II	P				8:00 am		
386	Synapse Formation: CNS I	P				8:00 am		
387	Synapse Formation: CNS II	P				8:00 am		
388	Activity-Dependent Development and Plasticity IV	P				8:00 am		
389	Activity-Dependent Development and Plasticity V	P				8:00 am		
390	Regeneration PNS: Cellular and Molecular Mechanisms	P				8:00 am		
391	Regeneration CNS: Brain	P				8:00 am		
482	CNS Neurogenesis	S	11B			1:00 pm		

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme A								
483	Neuronal Differentiation I	S	23A			1:00 pm		
491	Olfactory Neurogenesis	P				1:00 pm		
492	Neuronal Migration I	P				1:00 pm		
493	Cell Lineage and Cell Fate Specification	P				1:00 pm		
494	Neuron-Glia Interactions in Development: Schwann Cells and Oligodendrocytes	P				1:00 pm		
495	Regeneration CNS: Retina, Optic Nerve, and Visual System	P				1:00 pm		
606	Cerebellum III	P					8:00 am	
607	Neurogenesis in the Dentate Gyrus II	P					8:00 am	
608	Gene Expression during Neural Development	P					8:00 am	
609	Neuron-Glia Interactions in Development: Radial Glia, Astrocytes, and Microglia	P					8:00 am	
610	Dendritic Growth II	P					8:00 am	
611	Dendritic Growth III	P					8:00 am	
612	Synapse Formation: CNS III	P					8:00 am	
613	Activity-Dependent Development and Plasticity VI	P					8:00 am	
614	Activity-Dependent Development and Plasticity VII	P					8:00 am	
615	Development: Somatosensory System	P					8:00 am	
616	Limbic System Development	P					8:00 am	
617	Transplantation: Stroke and Neurodegenerative Models	P					8:00 am	
618	Regeneration PNS: Cellular Interactions, Models, and Mechanisms	P					8:00 am	
619	Regeneration CNS: Spinal Cord II	P					8:00 am	
711	Neural Stem Cells III	S	11B				1:00 pm	
719	Neural Stem Cells IV	P					1:00 pm	
720	Neuronal Migration II	P					1:00 pm	
721	Midbrain Neurogenesis	P					1:00 pm	
722	Glial Differentiation: Schwann Cells and Oligodendrocytes	P					1:00 pm	
723	Axon Guidance III	P					1:00 pm	
724	Ephrins and Receptors	P					1:00 pm	
725	Cytokines and Other Factors III	P					1:00 pm	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme A								
726	Neurotrophins and Receptors II	P					1:00 pm	
727	Neurotrophins and Receptors III	P					1:00 pm	
728	Trophic Factors and Cell Death III	P					1:00 pm	
729	Regeneration CNS: Cellular and Molecular Mechanisms II	P					1:00 pm	
825	Neural Stem Cells V	S	24A					8:00 am
831	Exogenous Effects on Neurogenesis	P						8:00 am
832	Neural Stem Cells and Neural Crest	P						8:00 am
833	Neuronal Differentiation II	P						8:00 am
834	Axon Guidance IV	P						8:00 am
835	Semaphorins and Receptors	P						8:00 am
836	Neurotrophins and Receptors IV	P						8:00 am
837	Trophic Factors and Cell Death IV	P						8:00 am
838	Mechanisms of Development I	P						8:00 am
839	Visual System I	P						8:00 am
840	Visual System II	P						8:00 am
932	Neuronal Migration III	S	5B					1:00 pm
933	Transplantation	S	7B					1:00 pm
939	Spinal Cord	P						1:00 pm
940	Neural Stem Cells VI	P						1:00 pm
941	Axon Guidance V	P						1:00 pm
942	Axon Guidance VI	P						1:00 pm
943	Neurotrophins and Receptors V	P						1:00 pm
944	Trophic Factors and Cell Death V	P						1:00 pm
945	Molecules and Development	P						1:00 pm
946	Mechanisms of Development II	P						1:00 pm
947	Auditory Development	P						1:00 pm
948	Regeneration CNS: Models and Mechanisms	P						1:00 pm

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme B								
19	Long-Term Potentiation	S	25A	1:00 pm				
45	Catecholamines I	P		1:00 pm				
46	Catecholamines II	P		1:00 pm				
47	Peptides I	P		1:00 pm				
48	Nicotinic Acetylcholine Receptors: Disease Related	P		1:00 pm				
49	NMDA Receptors I	P		1:00 pm				
50	Glutamate Receptors: Non-NMDA Receptors I	P		1:00 pm				
51	$GABA_A$: Structure	P		1:00 pm				
52	HCN Channels	P		1:00 pm				
53	Dopamine Transporter I	P		1:00 pm				
54	Serotonin Transport I	P		1:00 pm				
55	Long-Term Potentiation: Scaffolding and Trafficking	P		1:00 pm				
56	Long-Term Potentiation: Physiology	P		1:00 pm				
57	Spike Timing I	P		1:00 pm				
58	Spike Timing II	P		1:00 pm				
142	Serotonin Transport II	S	25A		8:00 am			
144	Presynaptic Mechanisms	S	28C		8:00 am			
159	NMDA Receptors II	P		8:00 am				
160	$GABA_A$: Gating and Conductance	P		8:00 am				
161	Glycine Receptors	P		8:00 am				
162	Metabotropic Glutamate Receptors: Regulation and Signaling	P		8:00 am				
163	G-Protein-Linked Catecholamine Receptors: Pharmacology	P		8:00 am				
164	Intracellular Signaling Pathways: Other I	P		8:00 am				
165	Intracellular Signaling Pathways: Calcium and Models	P			8:00 am			
166	Chloride and Other Channels	P			8:00 am			
167	GABA/Dopamine Transporters	P			8:00 am			
168	Glutamate Transporters I	P			8:00 am			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme B								
169	Postsynaptic Mechanisms I	P			8:00 am			
170	Inhibitory Mechanisms I	P			8:00 am			
171	Plasticity of Intrinsic Membrane Properties I	P			8:00 am			
260	Glutamate Receptors: NMDA and Non-NMDA	S	25A		1:00 pm			
262	Potassium and Sodium Channels	S	28C		1:00 pm			
272	GABA/Glycine	P			1:00 pm			
273	Cannabinoids I	P			1:00 pm			
274	Invertebrate Neurotransmitters: Arthropods	P		1:00 pm				
275	Nicotinic Acetylcholine Receptors: Structure and Function	P		1:00 pm				
276	Glutamate Receptors: Non-NMDA Receptors II	P		1:00 pm				
277	G-Protein-Linked Catecholamine Receptors: Localization and Regulation	P		1:00 pm				
278	Transcriptional Regulation I	P		1:00 pm				
279	Vesicle Docking and Fusion I	P		1:00 pm				
280	Dopamine Transporter II	P		1:00 pm				
281	Presynaptic Release Machinery	P		1:00 pm				
282	Long-Term Depression I	P		1:00 pm				
283	Homeostatic Plasticity I	P		1:00 pm				
284	Synaptic Transmission and Excitability: Neuron-Glia Signaling I	P		1:00 pm				
392	$GABA_A$: Trafficking and Clustering	P				8:00 am		
393	Metabotropic Glutamate Receptors: Animal Studies and Disease	P				8:00 am		
394	GPCR-Linked Receptors: Serotonin and Pharmacology	P				8:00 am		
395	G-Protein-Linked Catecholamine Receptors: Functional and In Vivo Studies	P				8:00 am		
396	Transcriptional Regulation II	P				8:00 am		
397	Sodium Channels: Physiology I	P				8:00 am		
398	Sodium Channels: Pharmacology	P				8:00 am		
399	Calcium Channels: N, T, and P/Q	P				8:00 am		
400	Potassium Channels: A-Current and EAG family	P				8:00 am		
401	Choline Transport	P				8:00 am		

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme B								
402	Presynaptic Modulation of Release I	P				8:00 am		
403	Presynaptic Plasticity	P				8:00 am		
404	Postsynaptic Mechanisms: GluRs	P				8:00 am		
405	Glia: Astrocytes, Other	P				8:00 am		
496	Catecholamines IV	P				1:00 pm		
497	Invertebrate Neurotransmitters: Molluscs	P				1:00 pm		
498	Protein Phosphorylation I	P				1:00 pm		
499	Protein Phosphorylation II	P				1:00 pm		
500	Intracellular Signaling Pathways: Other II	P				1:00 pm		
501	Potassium Channels: K_{Ca} and M currents	P				1:00 pm		
502	Vesicle Docking and Fusion II	P				1:00 pm		
503	Glutamate Transporters II	P				1:00 pm		
504	Glutamate Transporters III	P				1:00 pm		
505	Vesicular Transporters	P				1:00 pm		
506	Presynaptic Calcium Dynamics	P				1:00 pm		
507	Presynaptic GABAergic Mechanisms	P				1:00 pm		
508	Postsynaptic Mechanisms: Networks I	P				1:00 pm		
509	Inhibitory Mechanisms II	P				1:00 pm		
510	Long-Term Potentiation/Long-Term Depression and mGluRs	P				1:00 pm		
511	Homeostatic Plasticity II	P				1:00 pm		
512	Synaptic Plasticity: Transcription and Translation	P				1:00 pm		
513	Synaptic Plasticity: Short-Term Plasticity and Physiology	P				1:00 pm		
514	Synaptic Plasticity I	P				1:00 pm		
515	Synaptic Plasticity: Aplysia	P				1:00 pm		
516	Plasticity of Intrinsic Membrane Properties II	P				1:00 pm		
517	Plasticity of Intrinsic Membrane Properties III	P				1:00 pm		
593	Calcium Channels	S	2				8:00 am	
597	Postsynaptic Mechanisms II	S	11B				8:00 am	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme B								
620	Serotonin I	P					8:00 am	
621	Serotonin II	P					8:00 am	
622	Opioids	P					8:00 am	
623	Cannabinoids II	P					8:00 am	
624	Nicotinic Acetylcholine Receptors: Miscellaneous	P					8:00 am	
625	$GABA_A$: Circuits and Systems	P					8:00 am	
626	Ligand-Gated Ion Channel: 5-HT Receptor	P					8:00 am	
627	Metabotropic Glutamate Receptors: Pharmacology	P					8:00 am	
628	GPCR-Linked Receptors: Serotonin, Anatomy, and Regulation	P					8:00 am	
629	Peptide Receptors: Pharmacology	P					8:00 am	
630	GPCR-Linked Opioid Receptors: Genes and Gene Expression and Interacting Proteins	P					8:00 am	
631	G-Protein-Linked Purine Receptors	P					8:00 am	
632	Protein Phosphorylation III	P					8:00 am	
633	Protein Phosphorylation IV	P					8:00 am	
634	Sodium Channels: Physiology II	P					8:00 am	
635	Potassium Channels: IKV, etc.	P					8:00 am	
636	Long-Term Potentiation: Transcription and Translation	P					8:00 am	
637	Long-Term Potentiation: Morphological Changes	P					8:00 am	
638	Oscillator and Intrinsic Firing Mechanisms I	P					8:00 am	
730	Gases	P					1:00 pm	
731	NMDA Receptors III	P					1:00 pm	
732	Glutamate Receptors: Non-NMDA Receptors III	P					1:00 pm	
733	GPCR-Linked Receptors: Serotonin and Behavior	P					1:00 pm	
734	GPCR-Linked Opioid Receptors: Cellular and Animal Studies	P					1:00 pm	
735	Calcium Channels: Pharmacology	P					1:00 pm	
736	Neurotransmitter Release: Calcium	P					1:00 pm	
737	Postsynaptic Mechanisms: Dendrites	P					1:00 pm	
738	Long-Term Depression II	P					1:00 pm	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme B								
739	Long-Term Potentiation and Kinases I	P					1:00 pm	
740	Long-Term Potentiation and Kinases II	P					1:00 pm	
741	Oscillator and Intrinsic Firing Mechanisms II	P					1:00 pm	
826	GPCR-Linked Receptors	S	25A					8:00 am
841	Peptides II	P						8:00 am
842	Nicotinic Acetylcholine Receptors: am Expression and Regulation	P						8:00am
843	NMDA Receptors IV	P						8:00 am
844	$GABA_A$: Pharmacosteroidal and Steroidal Regulation	P						8:00 am
845	Ligand-Gated Ion Channel: Other	P						8:00 am
846	G-Protein-Linked Muscarinic Receptors	P						8:00 am
847	Peptide Receptors: Miscellaneous I	P						8:00 am
848	Calcium Channels: Channelopathies and TRP	P						8:00 am
849	Calcium Channels: L and Other	P						8:00 am
850	Potassium Channels	P						8:00 am
851	Potassium Channels: Inward Rectifiers	P						8:00 am
852	Presynaptic Modulation of Release II	P						8:00 am
853	Epilepsy and Synchrony	P						8:00 am
854	Long-Term Potentiation: Behavior	P						8:00 am
855	Long-Term Potentiation: Disease and Addiction	P						8:00 am
856	Long-Term Depression III	P						8:00 am
949	ACh I	P						1:00 pm
950	ACh II	P						1:00 pm
951	Glutamate I	P						1:00 pm
952	Glutamate II	P						1:00 pm
953	Catecholamines V	P						1:00 pm
954	Catecholamines VI	P						1:00 pm
955	Neurotransmitters/Other	P						1:00 pm
956	Nicotinic Acetylcholine Receptors: Pharmacology	P						1:00 pm

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme B								
957	NMDA Receptors V	P						1:00 pm
958	Purine P2X Receptors	P						1:00 pm
959	GPCR-Linked $GABA_B$ Receptors	P						1:00 pm
960	Peptide Receptors: Miscellaneous II	P						1:00 pm
961	GPCR-Linked Receptors: Other	P						1:00 pm
962	Protein Phosphorylation V	P						1:00 pm
963	Intracellular Signaling Pathways: Other III	P						1:00 pm
964	Intracellular Signaling Pathways: Other IV	P						1:00 pm
965	Calcium Channels: Protein Interactions	P						1:00 pm
966	Potassium Channels: Pharmacology	P						1:00 pm
967	Vesicle Recycling I	P						1:00 pm
968	Vesicle Recycling II	P						1:00 pm
969	Postsynaptic Mechanisms: Scaffolding	P						1:00 pm
970	Postsynaptic Mechanisms: Networks II	P						1:00 pm
971	Long-Term Potentiation: Receptor Trafficking	P						1:00 pm
972	Long-Term Potentiation: Modulation	P						1:00 pm
973	Homeostatic Plasticity III	P						1:00 pm
974	Synaptic Plasticity II	P						1:00 pm
975	Glia: Microglia, Oligodendrocytes, and Schwann Cells	P						1:00 pm
976	Synaptic Transmission and Excitability: Neuron-Glia Signaling II	P						1:00 pm
Theme C								
17	Models and Mechanisms of Chronic Pain	S	23A	1:00 pm				
18	Visual Cortex: Maps and Organization	S	24A	1:00 pm				
20	Visual Cortex: Cognitive Factors	S	26A	1:00 pm				
59	Cortex and Thalamocortical Relationships I	P		1:00 pm				
60	Pain Control and Morphine Withdrawal	P		1:00 pm				
61	Sex and Pain	P		1:00 pm				
62	Sodium Channels	P		1:00 pm				

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme C								
63	Pain Behavior and Psychophysics	P		1:00 pm				
64	Neuropathic Pain Mechanisms	P		1:00 pm				
65	Retina: Photoreceptors and Light-Induced Damage	P		1:00 pm				
66	Visual Cortex: Development and Plasticity	P		1:00 pm				
67	Olfaction: Organization and Physiology of Olfactory Bulb	P		1:00 pm				
139	Olfaction: Receptor Mechanisms and Coding	S	11B		8:00 am			
172	Pain: Development and Effects of Early Experience	P			8:00 am			
173	Types of Persistent Pain	P			8:00 am			
174	Visual Cortex: Color and Contrast	P			8:00 am			
175	Visual Cortex: Attentional Modulation	P			8:00 am			
176	Visual Cortex: Attention and Search	P			8:00 am			
177	Multisensory I	P			8:00 am			
178	Olfaction: Receptor Cells and Transduction	P			8:00 am			
179	Taste I	P			8:00 am			
258	Visual Cortex: Processing of Faces	S	23A		1:00 pm			
285	Purinergic Transmission and Pain	P			1:00 pm			
286	Visceral Nociception	P			1:00 pm			
287	Cold Transduction	P			1:00 pm			
288	Function of TRP Channels in Nociceptors	P			1:00 pm			
289	Nociceptors and Growth Factors	P			1:00 pm			
290	Neurotransmitter Release from Nociceptors	P			1:00 pm			
291	Spinal Cord: Basic Mechanisms of Acute Pain	P			1:00 pm			
292	Dorsal Horn Circuitry and Function	P			1:00 pm			
293	Trigeminal Anatomy and Physiology	P			1:00 pm			
294	Trigeminal Pain Mechanisms	P			1:00 pm			
295	Forebrain Pain Modulation	P			1:00 pm			
296	Medullary Modulation of Pain	P			1:00 pm			
297	Descending Modulation and Persistent Pain	P			1:00 pm			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme C								
298	Pain Models	P			1:00 pm			
299	Retina: Interneurons	P			1:00 pm			
300	Visual Cortex: Organization and Circuitry	P			1:00 pm			
301	Visual Cortex: Processing and Seeing Motion	P			1:00 pm			
302	Eye Movements and Perception	P			1:00 pm			
303	Mechanoreceptors	P			1:00 pm			
304	Auditory Brainstem	P			1:00 pm			
305	Subcortical Auditory	P			1:00 pm			
368	Visual Cortex: Motion and Depth	S	1B			8:00 am		
370	Visual Cortex: Orientation and Color	S	5B			8:00 am		
371	Trigeminal and Visceral Pains	S	7B			8:00 am		
374	Central Mechanisms of Pain	S	24A			8:00 am		
406	Opioids: Spinal and Peripheral Mechanisms	P				8:00 am		
407	Inflammation and Peripheral Mechanisms of Pain	P				8:00 am		
408	Retina: Ganglion Cells and Neural Coding	P				8:00 am		
409	Visual Thalamus: LGN	P				8:00 am		
410	Striate Cortex: Neuronal Properties	P				8:00 am		
411	Vestibular System: Vestibulo-Ocular Reflex	P				8:00 am		
412	Olfactory Coding I	P				8:00 am		
413	Taste II	P				8:00 am		
414	Sensory Systems: Invertebrate I	P				8:00 am		
484	Nociceptors	S	24A			1:00 pm		
486	Auditory Cortex I	S	26A			1:00 pm		
487	Visual Cortex: Perception and Action	S	28C			1:00 pm		
490	Visual Cortex: Neural Coding I	S	32B			1:00 pm		
518	Neuro-Glial Immune Interactions	P				1:00 pm		
519	Cannabinoid and Other Forms of Analgesia	P				1:00 pm		
520	Opioid Analgesia	P				1:00 pm		

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme C								
521	Supramedullary Modulation of Pain	P				1:00 pm		
522	Neuropathic Pain Treatments I	P				1:00 pm		
523	Neuropathic Pain Treatments II	P				1:00 pm		
524	Visual Cortex: Learning and Plasticity I	P				1:00 pm		
525	Visual Cortex: Face Perception	P				1:00 pm		
526	Motion and Optic Flow	P				1:00 pm		
527	Visual Cortex: Decision, Reward, and Memory	P				1:00 pm		
528	Multisensory II	P				1:00 pm		
529	Auditory Cortex II	P				1:00 pm		
530	Vestibular Endorgans and Nerve	P				1:00 pm		
531	Olfactory Coding II	P				1:00 pm		
532	Olfaction: Behavior and Clinical Issues	P				1:00 pm		
598	Early Visual Processing	S	23A				8:00 am	
599	TRP Channels in Nociceptors	S	24A				8:00 am	
605	Visual Cortex: Plasticity and Learning	S	32B				8:00 am	
639	Cellular and Molecular Signaling	P					8:00 am	
640	Cortex and Thalamocortical Relationships II	P					8:00 am	
641	Cortex and Thalamocortical Relationships III	P					8:00 am	
642	Cortex Imaging I	P					8:00 am	
643	Cortex Imaging II	P					8:00 am	
644	Dorsal Horn Plasticity	P					8:00 am	
645	Inflammatory Pain: Pathophysiology I	P					8:00 am	
646	Visual Cortex: Approaches to Imaging	P					8:00 am	
647	Superior Colliculus/Tectum	P					8:00 am	
648	Visual Cortex: Population Dynamics and Synchrony	P					8:00 am	
649	Perception and Action	P					8:00 am	
650	Auditory Cortex III	P					8:00 am	
651	Hearing Impairment and Psychophysics	P					8:00 am	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme C								
652	Vestibular System: Central Physiology and Anatomy	P					8:00 am	
713	Visual Cortex: Context Effects and Contours	S	24A				1:00 pm	
717	Visual Cortex: Spatial Attention and Awareness	S	28D				1:00 pm	
718	Mechanisms of Analgesia	S	32B				1:00 pm	
742	Persistent Visceral Pain	P					1:00 pm	
743	TRP Channel Pharmacology I	P					1:00 pm	
744	TRP Channel Pharmacology II	P					1:00 pm	
745	Physiology and Function of Sensory Neurons	P					1:00 pm	
746	Forebrain Pain Processing	P					1:00 pm	
747	Inflammatory Pain: Pathophysiology II	P					1:00 pm	
748	Neuropathic Pain: Peripheral Pathophysiology	P					1:00 pm	
749	Retina: Development, Aging, and Damage	P					1:00 pm	
750	Retina: Adaptation and Circadian Rhythms	P					1:00 pm	
751	Visual Cortex: Processing and Seeing Objects	P					1:00 pm	
752	Auditory Cortex IV	P					1:00 pm	
822	Visual Cortex: States and Networks	S	5B					8:00 am
824	Visual Cortex: Object Recognition	S	23A					8:00 am
857	Barrels I	P						8:00 am
858	Sprouting	P						8:00 am
859	ASICs	P						8:00 am
860	TRP Channel Biology	P						8:00 am
861	Genetics and Pharmacology of DRG Cells	P						8:00 am
862	Spinal Cord Pharmacology	P						8:00 am
863	Treatments for Persistent Pain	P						8:00 am
864	Inflammatory Pain: Pharmacology	P						8:00 am
865	Rivalry: Stereo and Depth	P						8:00 am
866	Visual Cortex: Learning and Plasticity II	P						8:00 am
867	Vestibular System: Posture and Spatial Orientation	P						8:00 am

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme C								
868	Vestibular System: Perception and Spatial Orientation	P						8:00 am
869	Olfaction: Pathways and Physiology of Higher Processing	P						8:00 am
870	Sensory Systems: Invertebrate II	P						8:00 am
934	Retina	S	11B					1:00 pm
935	Visual Cortex: Processing of Visual Motion	S	23A					1:00 pm
977	Barrels II	P						1:00 pm
978	Barrels III	P						1:00 pm
979	Arthritic Pain	P						1:00 pm
980	Neuropathic Pain: Central Pathophysiology	P						1:00 pm
981	Spinal Cord Injury	P						1:00 pm
982	Neuropathic Pain Models	P						1:00 pm
983	Visual Thalamus	P						1:00 pm
984	Visual Cortex: Neural Coding II	P						1:00 pm
985	Visual Cortex: Population Dynamics	P						1:00 pm
986	Visual Cortex: Orientation, Shapes, and Models	P						1:00 pm
987	Auditory Cortex V	P						1:00 pm
988	Sensory Systems: Anatomy	P						1:00 pm
Theme D								
68	Kinematics and EMG: Reaching and Pointing I	P		1:00 pm				
69	Kinematics and EMG: Reflexes	P		1:00 pm				
70	Basal Ganglia: Cell Discharge I	P		1:00 pm				
71	Eye Movements: Visual Tracking	P		1:00 pm				
180	Movement and Locomotion I	P			8:00 am			
181	Movement Disorders I	P			8:00 am			
182	Kinematics and EMG: Aging	P			8:00 am			
183	Basal Ganglia: Cell Discharge II	P			8:00 am			
184	Spinal Cord Injury: Transplantation II	P			8:00 am			
185	Spinal Cord Injury: Regeneration II	P			8:00 am			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme D								
186	Eye Movements: Cortex and Thalamus	P			8:00 am			
187	Pattern Generation and Locomotion I	P			8:00 am			
188	Muscle and Motor Unit I	P			8:00 am			
189	Muscle and Motor Unit II	P			8:00 am			
190	Brain/Machine Interface: Neural Protheses I	P			8:00 am			
191	Eye-Hand Coordination: Physiology	P			8:00 am			
261	Basal Ganglia: Behavior and Unit Activity	S	26A		1:00 pm			
263	Brain/Machine Interface	S	28D		1:00 pm			
306	Posture and Movement I	P			1:00 pm			
307	Basal Ganglia: Expression of Transmitters and Receptors	P			1:00 pm			
308	Basal Ganglia: Behavior and Parkinson's	P			1:00 pm			
309	Basal Ganglia Networks	P			1:00 pm			
310	Spinal Cord: Motoneurons and Injury	P			1:00 pm			
311	Spinal Cord: Reflexes I	P			1:00 pm			
312	Spinal Cord: Motoneuron Disease or Injury	P			1:00 pm			
313	Eye Movements: Attention and Cognition	P			1:00 pm			
314	Invertebrate Motor Systems: Crustacea	P			1:00 pm			
378	Eye Movements: Cortex and Adaptation	S	28D			8:00 am		
415	Movement and Locomotion II	P				8:00 am		
416	Basal Ganglia: Behavior I	P				8:00 am		
417	Spinal Cord: Reflexes II	P				8:00 am		
418	Spinal Cord: Plasticity	P				8:00 am		
419	Spinal Cord Injury: Spinal Learning	P				8:00 am		
420	Pattern Generation: Models of Network Dynamics	P				8:00 am		
421	Brain Machine	P				8:00 am		
533	Kinematics and EMG: Reaching and Pointing II	P				1:00 pm		
534	Basal Ganglia: Behavior II	P				1:00 pm		

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme D								
535	Cerebellum I	P				1:00 pm		
536	Cerebellum II	P				1:00 pm		
537	Invertebrate Motor Systems: Molluscs	P				1:00 pm		
601	Pattern Generation and Locomotion II	S	26A				8:00 am	
603	Eye-Hand Coordination: Sensorimotor Processing, Kinematics, and Computations	S	28D				8:00 am	
653	Kinematics and EMG: Fingers and Grasping	P					8:00 am	
654	Spinal Cord Injury: Models	P					8:00 am	
655	Motor Cortex and Premotor Cortical Areas I	P					8:00 am	
656	Spinal Cord: Physiology and Anatomy	P					8:00 am	
657	Modulation of Small Circuit Dynamics	P					8:00 am	
658	Invertebrate Motor Systems	P					8:00 am	
712	Eye Movements: Pursuit, Ocular Following, and Vestibular Function	S	23A				1:00 pm	
753	Basal Ganglia: Transmitters and Receptors	P					1:00 pm	
754	Basal Ganglia: Anatomy	P					1:00 pm	
755	Brainstem: Physiology	P					1:00 pm	
827	Cerebellum IV	S	26A					8:00 am
871	Kinematics and EMG: Reaching and Pointing III	P						8:00 am
872	Kinematics and EMG: Reaching and Pointing IV	P						8:00 am
873	Posture and Movement II	P						8:00 am
874	Movement Disorders II	P						8:00 am
875	Spinal Cord: Motoneuron Anatomy and Physiology	P						8:00 am
876	Spinal Cord: Development, Hormones, and Toxicology	P						8:00 am
877	Spinal Cord Injury: Neurochemical Targets II	P						8:00 am
878	Motor Cortex and Premotor Cortical Areas II	P						8:00 am
879	Brainstem: Physiology and Anatomy	P						8:00 am
880	Eye Movements: Brainstem, Superior Colliculus, and Cerebellum	P						8:00 am
881	Eye Movements: Muscle, Motoneurons, and Blink	P						8:00 am

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme D								
882	Pattern Generation: Spinal Cord and Other I	P						8:00 am
883	Pattern Generation: Spinal Cord and Other II	P						8:00 am
884	Brain/Machine Interface: Neural Protheses II	P						8:00 am
989	Cerebellum: Learning, Development and Ataxia	P						1:00 pm
990	Eye Movements: Saccades	P						1:00 pm
991	Eye Movements: Visuomotor Processing	P						1:00 pm
992	Muscle and Motor Unit III	P						1:00 pm
993	Muscle and Motor Unit IV	P						1:00 pm
994	Eye-Hand Coordination: Sensorimotor Transformations	P						1:00 pm
995	Eye-Hand Coordination: Visuomotor Processing	P						1:00 pm
Theme E								
22	Blood Flow I	S	28D	1:00 pm				
72	Estrogen: Morphological Changes	P		1:00 pm				
73	Magnocellular and Other Signaling	P		1:00 pm				
74	Cardiovascular Regulation: Anatomy	P		1:00 pm				
75	Monoamines: 5-HT and Dopamine	P		1:00 pm				
76	Cannabinoids, Amino Acids, and Other Regulators	P		1:00 pm				
77	Sleep and Cognition	P		1:00 pm				
78	Sleep, Adenosine, and Caffeine	P		1:00 pm				
143	HPG Axis Regulation	S	26A		8:00 am			
145	Respiratory Regulation I	S	28D		8:00 am			
147	Neuropeptide Regulators	S	32B		8:00 am			
192	Gonadotropin Secretion: Pharmacology	P			8:00 am			
193	Stress and Sex Differences	P			8:00 am			
194	Peripheral Signals: Ghrelin, PYY, and CCK	P			8:00 am			
195	Circadian Entrainment I	P			8:00 am			
196	CNS State and Oscillatory Activity	P			8:00 am			
197	Energy Metabolism	P			8:00 am			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme E								
198	Blood-Brain Barrier I	P			8:00 am			
199	Hypoxia and Hyperoxia	P			8:00 am			
265	HPA Axis I	S	32B		1:00 pm			
315	Stress: Hormones and Other	P			1:00 pm			
316	Memory and Learning	P			1:00 pm			
317	Neuropeptides: NPY and POMC	P			1:00 pm			
318	HCT/ORX, Sleep, and Arousal	P			1:00 pm			
380	Signaling, Development, and Anatomy	S	32B			8:00 am		
422	Magnocellular Signaling	P				8:00 am		
423	Behavioral Regulation: Reproduction	P				8:00 am		
424	Respiratory Regulation: Rhythm Generation	P				8:00 am		
425	Anatomy	P				8:00 am		
426	Stress and Behavior	P				8:00 am		
427	Peripheral Signals: Reproductive Hormones and Other	P				8:00 am		
428	Circadian Entrainment II	P				8:00 am		
429	Blood Flow II	P				8:00 am		
430	Blood-Brain Barrier II	P				8:00 am		
431	Functional Imaging	P				8:00 am		
538	Steroids and Development	P				1:00 pm		
539	Cardiovascular Regulation: Integrated Responses	P				1:00 pm		
540	Cardiovascular Regulation: Neurochemical Interactions	P				1:00 pm		
541	Gastrointestinal and Urogenital Regulation I	P				1:00 pm		
542	Exercise and Fatigue	P				1:00 pm		
543	Stress and the CNS	P				1:00 pm		
544	Development: Anatomy	P				1:00 pm		
545	Clock Output	P				1:00 pm		
546	Sleep and Neuromodulators	P				1:00 pm		
659	Estrogen and Cell Signaling	P					8:00 am	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme E								
660	Thirst and Water Balance	P					8:00 am	
661	Respiratory Regulation II	P					8:00 am	
662	Stress and Development	P					8:00 am	
663	Sleep and Intermittent Hypoxia	P					8:00 am	
756	HPG Axis Regulation: Other	P					1:00 pm	
757	Estrogen: Other Changes	P					1:00 pm	
758	Other Factors and Development	P					1:00 pm	
759	Neuroendocrine Neurochemistry: Other	P					1:00 pm	
760	CRF	P					1:00 pm	
761	Stress and the Immune System	P					1:00 pm	
762	Depression and Anxiety	P					1:00 pm	
763	Neuropeptides: Galanin, Hypocretin, MCH, and Others	P					1:00 pm	
764	Sleep: Molecular and Biochemical Mechanisms	P					1:00 pm	
765	SCN Anatomy, Physiology, and Neurochemistry	P					1:00 pm	
829	Steroids and Plasticity	S	28D					8:00 am
885	GnRH Regulation	P						8:00 am
886	Androgen, Progesterone, Neurosteroids, and Signaling	P						8:00 am
887	Androgen, Progesterone, and Adrenal Hormones	P						8:00 am
888	Behavioral Regulation: Aggression and Other	P						8:00 am
889	Respiratory Regulation: Hypoxia and Hypercapnia	P						8:00 am
890	Thermoregulation	P						8:00 am
891	Gastrointestinal and Urogenital Regulation II	P						8:00 am
892	HPA Axis II	P						8:00 am
893	Peripheral Signals: Glucosensing, Insulin, and Leptin	P						8:00 am
894	Molecular Biology and Physiology of Clocks	P						8:00 am
895	Sleep and Brainstem/Hypothalamic Systems	P						8:00 am
996	Behavioral Regulation and Other	P						1:00 pm
997	Prolactin and Other	P						1:00 pm

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme E								
998	Gastrointestinal and Urogenital Regulation III	P						1:00 pm
999	Hippocampus	P						1:00 pm
1000	Stress: Cellular and Molecular Effects	P						1:00 pm
1001	Seasonality	P						1:00 pm
Theme F								
11	Motivation and Emotion I	S	1B	1:00 pm				
14	Cognitive Aging	IS	5B	1:00 pm				
15	Learning: Imaging and Recording	S	7B	1:00 pm				
16	Learning and Long-Term Memory I	S	11B	1:00 pm				
79	Learning and Long-Term Memory II	P		1:00 pm				
80	Language I	P		1:00 pm				
81	Working Memory I	P		1:00 pm				
82	Cognitive Learning and Memory: Primates	P		1:00 pm				
83	Cognitive Learning and Memory: Mouse Studies	P		1:00 pm				
84	Emotional Learning and Memory: Human and Primate Studies	P		1:00 pm				
85	Learning and Memory Pharmacology: Glutamate	P		1:00 pm				
86	Learning and Memory Invertebrates I	P		1:00 pm				
87	Executive Functions: Prefrontal Cortex I	P		1:00 pm				
88	Factors Regulating Behavior in Birds and Fish	P		1:00 pm				
89	Comparative Neuroanatomy	P		1:00 pm				
136	Eyelid Conditioning I	S	3		8:00 am			
137	Language II	S	5B		8:00 am			
138	Temporal Perception and Production	S	7B		8:00 am			
200	Perception and Imagery I	P			8:00 am			
201	Learning and Long-Term Memory III	P			8:00 am			
202	Attention I	P			8:00 am			
203	Emotion	P			8:00 am			
204	Human and Nonhuman Anatomy	P			8:00 am			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme F								
205	Cognitive Learning and Memory: Episodic-Like and Relational	P			8:00 am			
206	Fear Conditioning	P			8:00 am			
207	Reward Mechanisms	P			8:00 am			
208	Emotional Learning and Memory I	P			8:00 am			
209	Place Cells and Space	P			8:00 am			
210	Learning and Memory Pharmacology: Consolidation and Signaling	P			8:00 am			
211	Executive Functions: Premotor and Posterior Cortices	P			8:00 am			
212	Motivation and Emotion: Maternal Behavior	P			8:00 am			
213	Motivation and Emotion: Play	P			8:00 am			
214	Motivation and Emotion: Sexual Behavior	P			8:00 am			
215	Motivation and Emotion: Social Behavior	P			8:00 am			
253	Working Memory II	S	1B		1:00 pm			
254	Neural Mechanisms of Attention	S	2		1:00 pm			
319	Cognitive Development	P			1:00 pm			
320	Genetic Variation and Individual Differences	P			1:00 pm			
321	Human Timing Studies	P			1:00 pm			
322	Cognitive Learning and Memory: Gene Targeting	P			1:00 pm			
323	Cognitive Learning and Memory: Diet and Cognition, Aging and Cognition	P			1:00 pm			
324	Physiology and Learning	P			1:00 pm			
325	Eyelid Conditioning II	P			1:00 pm			
326	Eyelid Conditioning III	P			1:00 pm			
327	Emotional Learning and Memory: Consolidation and Reconstruction	P			1:00 pm			
328	Emotional Learning and Memory: Extinction	P			1:00 pm			
329	Place Cells: Mechanisms	P			1:00 pm			
330	Mapping and Remapping	P			1:00 pm			
331	Attention: Cortical Mechanisms I	P			1:00 pm			
332	Attention: Cortical Mechanisms II	P			1:00 pm			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme F								
333	Birdsong I	P			1:00 pm			
334	Vocal and Social Communication	P			1:00 pm			
369	Learning and Long-Term Memory IV	S	3			8:00 am		
372	Reasoning and Problem Solving I	S	11B			8:00 am		
376	Perception and Imagery II	S	26A			8:00 am		
432	Learning and Long-Term Memory V	P				8:00 am		
433	Working Memory III	P				8:00 am		
434	Cognitive Learning and Memory: Spatial Learning	P				8:00 am		
435	Learning and Memory Pharmacology: Cholinergic I	P				8:00 am		
436	Learning and Memory Pharmacology: Cholinergic II	P				8:00 am		
437	Motivation and Emotion: Reward I	P				8:00 am		
438	Motivation and Emotion: Reward II	P				8:00 am		
439	Motivation and Emotion: Reward III	P				8:00 am		
440	Regulatory Factors in Mammals	P				8:00 am		
477	Language III	S	1B			1:00 pm		
480	Attention II	S	5B			1:00 pm		
481	Perception and Imagery III	S	7B			1:00 pm		
547	Attention III	P				1:00 pm		
548	Reasoning and Problem Solving II	P				1:00 pm		
549	Cognitive Aging II	P				1:00 pm		
550	Mechanisms of Timing I	P				1:00 pm		
551	Cognitive Learning and Memory: Cortex	P				1:00 pm		
552	Emotional Learning and Memory: Genes, Regulation, and Knock-Outs	P				1:00 pm		
553	Learning and Memory Invertebrates II	P				1:00 pm		
554	Modulation in the Song System	P				1:00 pm		
555	Invertebrate Hormones and Neuropeptides	P				1:00 pm		
595	Language IV	S	5B				8:00 am	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme F								
596	Learning and Long-Term Memory VI	S	7B				8:00 am	
664	Perception and Imagery IV	P					8:00 am	
665	Language V	P					8:00 am	
666	Human Anatomy and Genetic Relations	P					8:00 am	
667	Cognitive Learning and Memory: Anatomy, Physiology, and Models	P					8:00 am	
668	Motivation and Emotion: Decision Making	P					8:00 am	
669	Motivation and Emotion: Emotions	P					8:00 am	
670	Motivation and Emotion: Faces	P					8:00 am	
671	Motivation and Emotion: Learning	P					8:00 am	
672	Neuroethology of Motor Control	P					8:00 am	
709	Attention IV	S	5B				1:00 pm	
710	Learning, Reward and Addiction	S	7B				1:00 pm	
715	Motivation and Emotion II	S	26A				1:00 pm	
766	Learning and Long-Term Memory VII	P					1:00 pm	
767	Attention V	P					1:00 pm	
768	Mechanisms of Timing II	P					1:00 pm	
769	Cognitive Learning and Memory: Signaling and Gene Expression	P					1:00 pm	
770	Cognitive Learning and Memory: Hormones and Stress	P					1:00 pm	
771	Prefrontal Cortex	P					1:00 pm	
772	Emotional Learning and Memory: Stress and Corticosteroids	P					1:00 pm	
773	Emotional Learning and Memory: Hippocampus	P					1:00 pm	
774	Learning: Functional Imaging	P					1:00 pm	
775	Physiology of Learning	P					1:00 pm	
776	Learning and Memory Pharmacology: Dopamine and Serotonin	P					1:00 pm	
777	Learning and Memory Pharmacology I	P					1:00 pm	
778	Learning and Memory Invertebrates III	P					1:00 pm	
779	Attention: Neuromodulation I	P					1:00 pm	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme F								
780	Attention: Neuromodulation II	P					1:00 pm	
781	Executive Functions: Prefrontal Cortex II	P					1:00 pm	
782	Motivation and Emotion: Anxiety and Depression	P					1:00 pm	
783	Motivation and Emotion: Aversive Learning	P					1:00 pm	
784	Motivation and Emotion: Defensive Behavior	P					1:00 pm	
785	Motivation and Emotion: Reward IV	P					1:00 pm	
786	Birdsong II	P					1:00 pm	
819	Perception and Imagery V	S	1B					8:00 am
823	Working Memory IV	S	7B					8:00 am
896	Learning I	P						8:00 am
897	Hippocampus and Related Structures	P						8:00 am
898	Learning and Memory Pharmacology II	P						8:00 am
899	Executive Functions: Other	P						8:00 am
900	Motivation and Emotion: Aggression	P						8:00 am
931	Learning: Experiments and Models	S	1B					1:00 pm
1002	Cognitive Learning and Memory	P			1:00 pm			
1003	Gender Differences and Sex Hormones	P						1:00 pm
1004	Pathology and Recovery of Function	P						1:00 pm
1005	Learning II	P						1:00 pm
1006	Emotional Learning and Memory II	P						1:00 pm
1007	Place Cells, Sleep, and Theta	P						1:00 pm
1008	Mouse Models of Learning	P						1:00 pm
1009	Learning and Memory Pharmacology III	P						1:00 pm
1010	Birdsong III	P						1:00 pm
Theme G								
21	Parkinson's Disease: Clinical Trials and Experimental Treatments	S	28C	1:00 pm				
23	Ab Production and Assembly I	S	30E	1:00 pm				

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
90	g-Secretase Complex I	P		1:00 pm				
91	APP and APP Metabolites: Physiological Functions	P		1:00 pm				
92	Cholinergic System, Neurotrophins, and Down's Syndrome	P		1:00 pm				
93	Oxidative Stress in PD	P		1:00 pm				
94	Mitochondria in Parkinson's Disease	P		1:00 pm				
95	Trinucleotide Repeat: Ataxias	P		1:00 pm				
96	ALS I	P		1:00 pm				
97	Other Alzheimer's Mechanisms	P		1:00 pm				
98	Aging: Prefrontal Cortex	P		1:00 pm				
99	Ischemia: Excitotoxicity and Cell Death I	P		1:00 pm				
100	Ischemia: Inflammation and Cytokines I	P		1:00 pm				
101	Ischemia: Neuroprotection and Tolerance I	P		1:00 pm				
102	Ischemia: Neuroprotection and Tolerance II	P		1:00 pm				
103	Ischemia: Neuroprotection and Tolerance III	P		1:00 pm				
104	Ischemia: Neuroprotection and Tolerance IV	P		1:00 pm				
105	Multiple Sclerosis I	P		1:00 pm				
106	Spinal Cord Injury: Transplantation I	P		1:00 pm				
107	Spinal Cord Injury: Regeneration I	P		1:00 pm				
108	Spinal Cord Injury: Neuroprotection	P		1:00 pm				
109	Schizophrenia: Pathology I	P		1:00 pm				
110	Schizophrenia: Pathology II	P		1:00 pm				
111	Schizophrenia: Experimental Models I	P		1:00 pm				
112	Schizophrenia: Experimental Models II	P		1:00 pm				
113	Schizophrenia: Experimental Pharmacotherapeutics I	P		1:00 pm				
114	Affective Disorders: Recovery of Function	P		1:00 pm				
115	Anxiolytics	P		1:00 pm				
116	Autism-Related Disorders I	P		1:00 pm				

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
117	Drugs of Abuse: Alcohol I	P		1:00 pm				
118	Drugs of Abuse: Psychostimulants and Development	P		1:00 pm				
119	Drugs of Abuse: Opioids I	P		1:00 pm				
120	Drugs of Abuse: Nicotine I	P		1:00 pm				
121	Drugs of Abuse: Nicotine II	P		1:00 pm				
122	Addiction: Behavioral Pharmacology I	P		1:00 pm				
123	Catecholamines III	P		1:00 pm				
134	ALS II	S	1B		8:00 am			
135	Ischemia: Cell and Molecular Mechanisms I	S	2		8:00 am			
140	Synucleins, Parkin, and DJ-1	S	23A		8:00 am			
141	Dementia: Cognitive Deficits, Clinical Trials, and Pathology	S	24A		8:00 am			
146	g-Secretase Complex and BACE	S	30E		8:00 am			
216	Neuroprotective Treatments and Mechanisms I	P			8:00 am			
217	Ab Toxicity: Mechanisms I	P			8:00 am			
218	Ab Toxicity: Mechanisms II	P			8:00 am			
219	Neuroprotective Treatments and Mechanisms II	P			8:00 am			
220	Ab Degradation and Clearance	P			8:00 am			
221	Neuroprotection in Parkinson's Disease	P			8:00 am			
222	Cellular Mechanisms in Parkinson's Disease	P			8:00 am			
223	Trinucleotide Repeat: Huntington's Disease Models I	P			8:00 am			
224	Prion Diseases	P			8:00 am			
225	Other Diabetes	P			8:00 am			
226	Neurodegeneration Mechanisms I	P			8:00 am			
227	Epilepsy: Basic Mechanisms I	P			8:00 am			
228	Epilepsy: Basic Mechanisms II	P			8:00 am			
229	Global Ischemia I	P			8:00 am			
230	Brain Trauma: Therapeutics	P			8:00 am			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
231	Spinal Cord Injury: Functional Recovery	P			8:00 am			
232	Spinal Cord Injury: Inflammation	P			8:00 am			
233	Neurooncology I	P			8:00 am			
234	Drugs of Abuse: Alcohol II	P			8:00 am			
235	Drugs of Abuse: Amphetamine Toxicity I	P			8:00 am			
236	Drugs of Abuse: Amphetamines I	P			8:00 am			
237	Drugs of Abuse: Cocaine I	P			8:00 am			
238	Addiction: Genetics	P			8:00 am			
239	Developmental Disorders: Mental Retardation I	P			8:00 am			
255	Dementia: Pathobiology and Genetics I	S	5B		1:00 pm			
256	Synucleins I	S	7B		1:00 pm			
259	Neuroprotection I	S	24A		1:00 pm			
264	g-Secretase Complex II	S	30E		1:00 pm			
335	mRNA Profiling/DNA Microarray Analysis of Neurodegenerative Disorders	P			1:00 pm			
336	Ubiquitin — Proteasome System and Neurodegenerative Disease	P			1:00 pm			
337	APP/Presenilin Transgenic Models I	P			1:00 pm			
338	APP/Presenilin Transgenic Models II	P			1:00 pm			
339	Proteomics of Neurodegenerative Disorders	P			1:00 pm			
340	ALS III	P			1:00 pm			
341	ALS IV	P			1:00 pm			
342	Ischemia: Cell and Molecular Mechanisms II	P			1:00 pm			
343	Ischemia: Gene Expression	P			1:00 pm			
344	Multiple Sclerosis II	P			1:00 pm			
345	Monoaminergic Systems and Basal Ganglia: Mechanisms and Models	P			1:00 pm			
346	Schizophrenia: Functional Deficit I	P			1:00 pm			
347	Schizophrenia: Functional Deficit II	P			1:00 pm			
348	Schizophrenia: Functional Deficit III	P			1:00 pm			
349	Schizophrenia: Experimental Pharmacotherapeutics II	P			1:00 pm			

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
350	Schizophrenia: Experimental Pharmacotherapeutics III	P			1:00 pm			
351	Schizophrenia: Experimental Pharmacotherapeutics IV	P			1:00 pm			
352	Affective Disorders: Animal Models I	P			1:00 pm			
353	Affective Disorders: Neurogenesis	P			1:00 pm			
354	Affective Disorders: Experimental Therapeutics I	P			1:00 pm			
355	Affective Disorders: Experimental Therapeutics II	P			1:00 pm			
356	Affective Disorders: Experimental Therapeutics III	P			1:00 pm			
357	Drugs of Abuse: Opioids II	P			1:00 pm			
358	Neuroplasticity of Addiction I	P			1:00 pm			
359	Developmental Disorders: ADHD and Cognitive Disorders	P			1:00 pm			
375	Imaging Pathology in Neurodegenerative Disease	S	25A			8:00 am		
377	Ab Toxicity: Mechanisms III	S	28C			8:00 am		
379	Global Ischemia II	S	30E			8:00 am		
441	Ab Production and Assembly II	P				8:00 am		
442	ApoE and ApoE Receptors	P				8:00 am		
443	APP/Presenilin Transgenic Models (Including Behavior) I	P				8:00 am		
444	APP/Presenilin Transgenic Models (Including Behavior) II	P				8:00 am		
445	Trinucleotide Disease: Huntington's Disease Mechanisms I	P				8:00 am		
446	Other HIV	P				8:00 am		
447	Other Neurological Disease	P				8:00 am		
448	Neurodegeneration Mechanisms II	P				8:00 am		
449	Neurodegeneration Mechanisms III	P				8:00 am		
450	Aging: Anatomy and Pharmacology	P				8:00 am		
451	Epilepsy: Human and Animal Models I	P				8:00 am		
452	Epilepsy: Human and Animal Models II	P				8:00 am		
453	Ischemia: Excitotoxicity and Cell Death II	P				8:00 am		
454	Ischemia: Cell and Molecular Mechanisms III	P				8:00 am		
455	Ischemia: Inflammation and Cytokines II	P				8:00 am		

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
456	Ischemia: Neuroprotection and Tolerance V	P				8:00 am		
457	Ischemia: Preconditioning	P				8:00 am		
458	Spinal Cord Injury: Models and Concomitant Functions	P				8:00 am		
459	Spinal Cord Injury: Neurochemical Targets I	P				8:00 am		
460	Apoptosis: Excitotoxicity and Oxidative Stress	P				8:00 am		
461	Excitotoxicity and Oxidative Stress: Mechanisms and Therapeutics	P				8:00 am		
462	Neurooncology II	P				8:00 am		
463	Drugs of Abuse: Cocaine II	P				8:00 am		
464	Drugs of Abuse: Psychostimulants I	P				8:00 am		
465	Drugs of Abuse: Neurobiology of Reward I	P				8:00 am		
466	Monoamines I	P				8:00 am		
479	Epilepsy: Basic Mechanisms III	S	3			1:00 pm		
485	Neuroprotective Treatments and Mechanisms III	S	25A			1:00 pm		
488	Ab Toxicity: Mechanisms IV	S	28D			1:00 pm		
489	Drugs of Abuse: Alcohol III	S	30E			1:00 pm		
556	Oxidative Stress and Heavy Metals	P				1:00 pm		
557	Synucleins II	P				1:00 pm		
558	Parkin and DJ-1	P				1:00 pm		
559	Synucleins III	P				1:00 pm		
560	Inflammation in PD	P				1:00 pm		
561	Transgenic Models in Parkinson's Disease	P				1:00 pm		
562	MPTP/6-OHDA Models of PD	P				1:00 pm		
564	Trinucleotide Repeat: Huntington's Disease Models II	P				1:00 pm		
563	Models of Parkinson's Disease	P				1:00 pm		
565	Aging: Physiology	P				1:00 pm		
566	Epilepsy: Basic Mechanisms IV	P				1:00 pm		
567	Epilepsy: Basic Mechanisms V	P				1:00 pm		
568	Ischemia: Cell and Molecular Mechanisms IV	P				1:00 pm		

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
569	Neurotoxicity: Models and Mechanisms	P				1:00 pm		
570	Affective Disorders: Animal Models II	P				1:00 pm		
571	Affective Disorders: Animal Models III	P				1:00 pm		
572	Drugs of Abuse: Alcohol IV	P				1:00 pm		
573	Drugs of Abuse: Cocaine III	P				1:00 pm		
574	Drugs of Abuse: Psychostimulants II	P				1:00 pm		
575	Drugs of Abuse: Nicotine III	P				1:00 pm		
576	Addiction: Neurobiology I	P				1:00 pm		
577	Addiction: Neurobiology II	P				1:00 pm		
578	Addiction: Neurobiology III	P				1:00 pm		
579	Addiction: Behavioral Pharmacology II	P				1:00 pm		
580	Drugs of Abuse: Neurobiology of Reward II	P				1:00 pm		
581	Neuroplasticity of Addiction II	P				1:00 pm		
582	Developmental Disorders: Autism	P				1:00 pm		
583	Behavioral Pharmacology I	P				1:00 pm		
592	Apoptosis	S	1B				8:00 am	
594	Drugs of Abuse: Opioids III	S	3				8:00 am	
600	Ischemia: Excitotoxicity and Cell Death III	S	25A				8:00 am	
602	Tau	S	28C				8:00 am	
604	Anti-Ab Treatments: In Vitro and Cell Culture	S	30E				8:00 am	
673	Anti-Ab Treatments: In Vitro, Cell Culture, and Slices	P					8:00 am	
674	Anti-Ab Treatments: Animal Models I	P					8:00 am	
675	Anti-Ab Treatments: Animal Models II	P					8:00 am	
676	Adaptations in Parkinson's Disease	P					8:00 am	
677	Parkinson's Disease: Drug and Diet Treatments (Animal Models) I	P					8:00 am	
678	Parkinson's Disease: Drug and Diet Treatments (Animal Models) II	P					8:00 am	
679	Epilepsy: Basic Mechanisms VI	P					8:00 am	
680	Epilepsy: Basic Mechanisms VII	P					8:00 am	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
681	Ischemia: Cell and Molecular Mechanisms V	P					8:00 am	
682	Global Ischemia III	P					8:00 am	
683	Multiple Sclerosis III	P					8:00 am	
684	Neuromuscular Disease I	P					8:00 am	
685	Brain Trauma: Animal Models	P					8:00 am	
686	Brain Trauma: Cellular and Molecular Mechanisms	P					8:00 am	
687	Apoptosis: Cellular and Molecular Mechanisms I	P					8:00 am	
688	Drugs of Abuse: Psychostimulant Sensitization I	P					8:00 am	
689	Drugs of Abuse: MDMA I	P					8:00 am	
690	Drugs of Abuse: Cannabinoids	P					8:00 am	
691	Addiction: Treatment	P					8:00 am	
692	Neuroplasticity of Addiction III	P					8:00 am	
706	Neuromuscular Disease II	S	1B				1:00 pm	
708	Drugs of Abuse: Nicotine and Cannabinoids	S	3				1:00 pm	
714	Spinal Cord Injury: Models and Acceleration of Functional Recovery	S	25A				1:00 pm	
716	Anti-Ab and Anti-Tau Treatments: Animal Models	S	28C				1:00 pm	
787	Tau and Tau Kinases: Human Studies and Animal Models	P					1:00 pm	
788	Tau and Tau Kinases: In vitro and Cell Culture	P					1:00 pm	
789	Amyloid Plaques and Associated Pathologies	P					1:00 pm	
790	Parkinson's Disease: Gene Therapy, Growth Factors, and Grafts (Animal Models) I	P					1:00 pm	
791	Parkinson's Disease: Gene Therapy, Growth Factors, and Grafts (Animal Models) II	P					1:00 pm	
792	Ischemia: Stem Cells and Gene Therapy	P					1:00 pm	
793	Brain Trauma: Human Studies and Animal Models	P					1:00 pm	
794	Apoptosis: Human and Animal Models	P					1:00 pm	
795	Apoptosis: Cellular and Molecular Mechanisms II	P					1:00 pm	
796	Schizophrenia: Experimental Models III	P					1:00 pm	
797	Schizophrenia: Experimental Models IV	P					1:00 pm	
798	Schizophrenia: Experimental Pharmacotherapeutics V	P					1:00 pm	

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
799	Affective Disorders: Pathology	P					1:00 pm	
800	Psychiatric Disorders: ADHD and Tourette's Syndrome	P					1:00 pm	
801	Psychiatric Disorders: Other	P					1:00 pm	
802	Drugs of Abuse: Amphetamines II	P					1:00 pm	
803	Drugs of Abuse: Psychostimulant Sensitization II	P					1:00 pm	
804	Drugs of Abuse: Cocaine IV	P					1:00 pm	
805	Drugs of Abuse: Opioids IV	P					1:00 pm	
806	Developmental Disorders: Immunology	P					1:00 pm	
807	Monoamines II	P					1:00 pm	
820	Trauma	S	2					8:00 am
821	Neuroprotection II	S	3					8:00 am
828	Epilepsy: Human and Animal Models III	S	28C					8:00 am
830	Anti-Ab Treatments: Animal Models III	S	32B					8:00 am
901	Dementia: Pathobiology and Genetics II	P						8:00 am
902	Dementia: Pathobiology	P						8:00 am
903	Parkinson's Disease: Other Therapeutic Interventions (Animal Models)	P						8:00 am
904	Neurodegeneration Mechanisms IV	P						8:00 am
905	Molecular Aspects of Aging I	P						8:00 am
906	Epilepsy: Anti-Convulsant Drugs	P						8:00 am
907	Nerve Trauma	P						8:00 am
908	Apoptosis: Neurodegeneration Models and Mechanisms	P						8:00 am
909	Schizophrenia: Pathology III	P						8:00 am
910	Schizophrenia: Experimental Models V	P						8:00 am
911	Schizophrenia: Experimental Models VI	P						8:00 am
912	Antidepressants: Monoaminergic Systems I	P						8:00 am
913	Drugs of Abuse: Alcohol V	P						8:00 am
914	Drugs of Abuse: Alcohol VI	P						8:00 am
915	Drugs of Abuse: Amphetamine Toxicity II	P						8:00 am

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme G								
916	Drugs of Abuse: Psychostimulants III	P						8:00 am
917	Drugs of Abuse: MDMA II	P						8:00 am
918	Drugs of Abuse: Nicotine IV	P						8:00 am
919	Developmental Disorders: Sensory and Metabolic Disorders	P						8:00 am
936	Multiple Sclerosis IV	S	25A					1:00 pm
937	Toxic Metabolic Effects and Disorders	S	28C					1:00 pm
938	Huntington's Disease	S	30E					1:00 pm
1011	Parkinson's Disease: Clinical Manifestations and Therapeutic Trials	P						1:00 pm
1012	Dementia: Cognitive Deficits, Biomarkers, and Treatments	P						1:00 pm
1013	Parkinson's Disease: Interventions in Cell Culture Models	P						1:00 pm
1014	Parkinson's Disease: Genetics and Pathobiology	P						1:00 pm
1015	Trinucleotide Disease: Huntington's Disease Mechanisms II	P						1:00 pm
1016	Trinucleotide Disease: Huntington's Disease Mechanisms III	P						1:00 pm
1017	Molecular Aspects of Aging II	P						1:00 pm
1018	Ischemia: Neuroprotection and Tolerance VI	P						1:00 pm
1019	Ischemia: Neuroprotection and Tolerance VII	P						1:00 pm
1020	Ischemia: Neuroprotection and Tolerance VIII	P						1:00 pm
1021	Toxic Metabolic Disorders: Cellular and Molecular Mechanisms	P						1:00 pm
1022	Schizophrenia: Functional Deficit IV	P						1:00 pm
1023	Schizophrenia: Experimental Models VII	P						1:00 pm
1024	Antidepressants: Monoaminergic Systems II	P						1:00 pm
1025	Anxiety Disorders I	P						1:00 pm
1026	Anxiety Disorders II	P						1:00 pm
1027	Anxiety Disorders III	P						1:00 pm
1028	Autism-Related Disorders II	P						1:00 pm
1029	Developmental Disorders: Mental Retardation II	P						1:00 pm
1030	Behavioral Pharmacology II	P						1:00 pm

Session Number	Session Title	Slide/ Poster	Room Number	Sat.	Sun.	Mon.	Tues.	Wed.
Theme H								
12	Molecular and Genetic Techniques and Bioinformatics	S	2	1:00 pm				
13	Techniques: Brain Imaging Methods I	S	3	1:00 pm				
124	Imaging Techniques: LM Visualization of Cells and Molecules and Tract Tracing	P		1:00 pm				
125	Peptides and Proteomics	P		1:00 pm				
240	Imaging Techniques: fMRI, BOLD, and Other	P			8:00 am			
241	EEG and Spike Train Methods	P			8:00 am			
467	Imaging Techniques: Calcium, Electrical Activity, and Live Cells	P				8:00 am		
478	Imaging Techniques: MRI, fMRI, and PET	S	2			1:00 pm		
693	Imaging Techniques: fMRI and Other	P					8:00 am	
694	Techniques: Brain Imaging Methods III	P					8:00 am	
695	Mass Spectometry and Other Biochemical and Analytical Methods	P					8:00 am	
707	Imaging Techniques	S	2				1:00 pm	
808	Molecular and Genetic Techniques I	P					1:00 pm	
809	Bioinformatics I	P					1:00 pm	
920	Stimulation, Recording, and Electrode Arrays	P						8:00 am
921	Modeling and Analysis	P						8:00 am
922	Molecular, Anatomical, and Physiological Methods and Analysis	P						8:00 am
1031	Molecular and Genetic Techniques II	P						1:00 pm
1032	Bioinformatics II	P						1:00 pm
1033	Imaging Techniques: Three-Dimensional Reconstruction	P						1:00 pm
Theme I								
25	History of Neuroscience	P		1:00 pm				
26	Teaching of Neuroscience I	P		1:00 pm				
27	Teaching of Neuroscience II	P		1:00 pm				
28	Teaching of Neuroscience III	P		1:00 pm				
29	Teaching of Neuroscience IV	P		1:00 pm				
30	Teaching of Neuroscience V	P		1:00 pm				

Professional Development Resources

FASEB Career Resources Center and Job Placement Service

Convention Center
Career Center, Hall A
A service of FASEB Career Resources, arranged by the Society for Neuroscience
Registration for the FASEB Job Placement Service is FREE to all applicants who are registered annual meeting attendees.
For those not attending Neuroscience 2004, please see https://ns2.faseb.org/career/crc/sfncrc.htm for enrollment information.
Employers are required to pay a fee.

This service offers an informal and confidential setting for job applicants and employers to meet, conduct interviews, and post job openings. Job opportunities include private practice, academic, government agency, nonprofit agency, and industry positions, including sabbatical positions worldwide. Candidates at doctoral, master's, or bachelor's level are encouraged to apply.

The service features:

- Computer-assisted registration, interview scheduling, and messaging service
- 24-hour access to the Neuroscience 2004 CareerWeb system via the Internet during the meeting
- "Self-service" search-and-referral computer terminals for employers and applicants
- On-site interview facilities including private interview booths
- "Position Available" posting area
- Career development seminars
- Cover letter and resume critiquing
- Year-long listing in *CAREERS OnLine* database

Reminder

Register in advance for Neuroscience 2004 and take advantage of *CAREERS OnLine* before the meeting! Online interview scheduling services will be available October 11, 2004.

Advance Registration

Register online at https://ns2.faseb.org/career/crc/sfncrc.htm (select Applicant or Employer services option) or mail registration form and payment to:

FASEB Career Resources
9650 Rockville Pike
Bethesda, MD 20814-3998
Phone: (301) 634-7021
Fax: (301) 571-1889

Deadline for Advance Registration is Sunday, October 17, 2004.

Sign In and On-site Registration

Hours of Operation:

Saturday, October 23
1 – 5 p.m.
Sunday, October 24 – Tuesday, October 26
8 a.m. – 5 p.m.
Wednesday, October 27
8 – 11 a.m.

Interview Scheduling/Search and Referral of Applicants
Saturday, October 23
1 – 5 p.m.
Sunday, October 24 – Tuesday, October 26
8 a.m. – 5 p.m.
Wednesday, October 27
8 – 11 a.m.

Scheduled Interviews
Saturday, October 23
1 – 5 p.m.
Sunday, October 24 – Tuesday, October 26
9 a.m. – 5 p.m.
Wednesday, October 27
9 a.m. – noon

Applicants: Placement service registration is **free** to all registered Neuroscience 2004 attendees. Services include access to on-site facilities, *CAREERS OnLine* Applicant DataNet listing for up to one year, and position desired advertisement in the *CAREERS OnLine* classifieds. For those not attending Neuroscience 2004, please see https://ns2.faseb.org/career/crc/sfncrc.htm for more information.

Employers: The following fees include on-site facilities, unlimited position available postings during the conference, and list of positions in the *CAREERS OnLine* classifieds following the conference.

Employer Categories:

(on-site rates in parentheses)
Academic/Nonprofit/Government
$500 ($600)
Industry/Commercial
$850 ($950)
Recruiting Firms
$1200 ($1500)
Private Interview Booths
$200 (additional fee; advance purchase only)
Position Posting only (no interviews)
$200 per position

Fees

All fees must be paid in U.S. dollars, by cash, check, or money order made payable to FASEB Career Resources, or by credit card (American Express, MasterCard, or VISA).

FASEB Career Development Seminars and Workshops

Convention Center
Career Center, Hall A
Saturday, October 23 (resume critiques only)
1 – 5 p.m.
Sunday, October 24 – Tuesday, October 26
8:30 a.m. – 5 p.m.
Wednesday, October 27
8:30 a.m. – 12:30 p.m.

No fees or pre-registration required for these workshops and seminars. Critiquing of resumes is by appointment; sign up on-site at FASEB Career Resources/Placement Service.

Presenters:
Ed Bocko, Jr., *Managing Director, Protran Resources, Inc.*
Marilyn Cimahosky, *Cimahosky and Associates*
Joe Tringali, *Managing Director, Tringali & Associates*

Rise 'n Shine with Ed, Joe, and Marilyn—Career Open Forum: Career Q&A Session
Sunday, October 24 – Wednesday, October 27
8:30 – 9:30 a.m. daily

Resumexercise: Tone and Sculpt a Powerful Resume/CV
Sunday, October 24
9:30 – 10:30 a.m.
Monday, October 25
11:30 a.m. – 12:30 p.m.

So, You Don't Want to Work at the Bench Anymore? Planning Your Career Transition in the Sciences
Sunday, October 24
10:30 – 11:30 a.m.

The Importance of Business Correspondence: Cover Letters, Broadcast Letters, and Follow-Up Letters
Sunday, October 24
11:30 a.m. – 12:30 p.m.

The Truth about References and Reference Checking
Sunday, October 24
3 – 4 p.m.
Tuesday, October 26
11:30 a.m. – 12:30 p.m.

Interviewing 101
Sunday, October 24
4 – 5 p.m.
Monday, October 25
3 – 4 p.m.

Marilyn's Top Ten: Ten Ways to Ensure a Positive and Lasting First Impression in the Employment Arena
Monday, October 25
9:30 – 10:30 a.m.

Working with an Employment Agency: Facts and Fables
Monday, October 25
4 – 5 p.m.

Uncovering the Hidden Job Market: Sources of Information and Influence
Tuesday, October 26
9:30 – 10:30 a.m.

Networking as an Art
Tuesday, October 26
10:30 – 11:30 a.m.

Joe's Top Ten: Ten Ways to Ensure a Positive and Lasting First Impression in the Employment Arena
Tuesday, October 26
2 – 3 p.m.

Networking 101
Tuesday, October 26
3 – 4 p.m.

Tuesday "Reality Rap-Up"
Tuesday, October 26
4 – 5 p.m.

SfN Professional Development Workshops

Professional Skills Workshop
Friday, October 22
8:30 a.m. – 4:30 p.m.
Organized by B. Fischer and M. Zigmond of the University of Pittsburgh Survival Skills and Ethics Program
Supported by NINDS (NS46740)
For more details, please see page 22 or visit www.edc.gsph.pitt.edu

Writing, Editing, and Publishing in Science
Friday, October 22
3 – 7 p.m.
Saturday, October 23
9 a.m. – 1 p.m.
Speakers: Linda Cooper, Associate Director, Centre for the Study and Teaching of Writing, McGill University, and Gary Westbrook, Editor-in-Chief, *The Journal of Neuroscience*
Please see page 23 for full details.

NIH and NSF Funding for your Research Training and Career Development
Saturday, October 23
8 – 10 a.m.
Sponsored by NINDS, in collaboration with other institutes of NIH and NSF
Please see page 23 for full details.

Wyeth-Ayerst WIN Career Development Workshop:
How to Be an Effective Chairperson
Sunday, October 24
9 a.m. – noon
Please see page 25 for full details.

NSF Funding Opportunities for Research and Education in Neuroscience
Sunday, October 24
4 – 5:30 p.m.
Please see page 26 for full details.

What is the Role of SfN in Advancing the Careers of Women and Minorities in Neuroscience?
Monday, October 25
9 a.m. – noon
Please see page 27 for full details.

Nonacademic Careers in Neuroscience
Tuesday, October 26
9 a.m. – noon
Please see page 28 for full details.

Public Education and Outreach

A synopsis of activities for those interested in promoting public awareness about neuroscience

Science Teachers and Neuroscientists Come Together—Workshop to Bring Together K–12 Teachers and Neuroscientists

Saturday, October 23
8:30 a.m. – 3 p.m.
Salk Institute
K–12 educators and neuroscientists are invited to attend this workshop to be held at the Salk Institute. Explore hands-on activities, participate in a luncheon discussion, and learn more about how neuroscience fits into K–12 curricula. Registration is free and accepted at www.sfn.org/workshops. Please see page 23 for full description.

Hands-On Neuroscience Activities for Teachers and Neuroscientists

Saturday, October 23
4 – 7 p.m.
Manchester Grand Hyatt San Diego
Manchester Ballroom Salons D, E, G, H, I
Learn how to conduct specific neuroscience activities using a hands-on format. Discover creative lessons targeted for use with all ages. Registration is free and accepted at www.sfn.org/workshops until 30 participants are enrolled in each workshop. Please see page 24 for full description.

How to Take Neuroscience into the Schools

Sunday, October 24
1 – 3 p.m.
San Diego Marriott Hotel and Marina, Columbia Room
Attend this workshop to learn more about the federal "No Child Left Behind" education policy and its impact on teaching and learning about the brain and nervous system in the K–12 classroom. Discussion will address both the scientist and educator viewpoints about hands-on inquiry, national science standards, and testing. Contribute to this essential dialogue! Registration is free and accepted at www.sfn.org/workshops. Please see page 25 for full description.

NSF Funding Opportunities for Research and Education in Neuroscience

Sunday, October 24
4 – 5:30 p.m.
San Diego Convention Center, Room 22
NSF Program Officers will review funding opportunities for neuroscientists at this workshop. Topic areas include collaborative research and networking, education and training, and more. Please see page 26 for full description.

Brain Awareness Week Campaign Meeting/Poster Session/Reception

Sunday, October 24
Campaign meeting/poster session: 5 – 6:30 p.m.
Reception: 6:30 – 7:30 p.m.
San Diego Convention Center, Room 17AB
Join the many chapter members and individuals who conducted BAW outreach activities internationally. Make connections and learn from others about neuroscience outreach. Includes informal discussion, town meeting, reception, and posters describing local BAW events.
RSVP required to attend the reception. Please see page 26 for full description.

Short Course for High School Students

Monday, October 25
8:30 a.m. – 2:30 p.m.
San Diego Marriott Hotel and Marina, San Diego Ballroom Salon A
San Diego area high school science students are invited to attend this exciting one-day short course. The full day of activities will introduce students to neuroscience research, what neuroscientists do, and the impact research has had on our understanding of the brain. **NEUROSCIENTIST GUIDES ARE NEEDED FOR STUDENTS.** Registration is free and accepted at www.sfn.org/workshops. Please see page 27 for full description.

DON'T MISS the History and Teaching of Neuroscience Poster Session

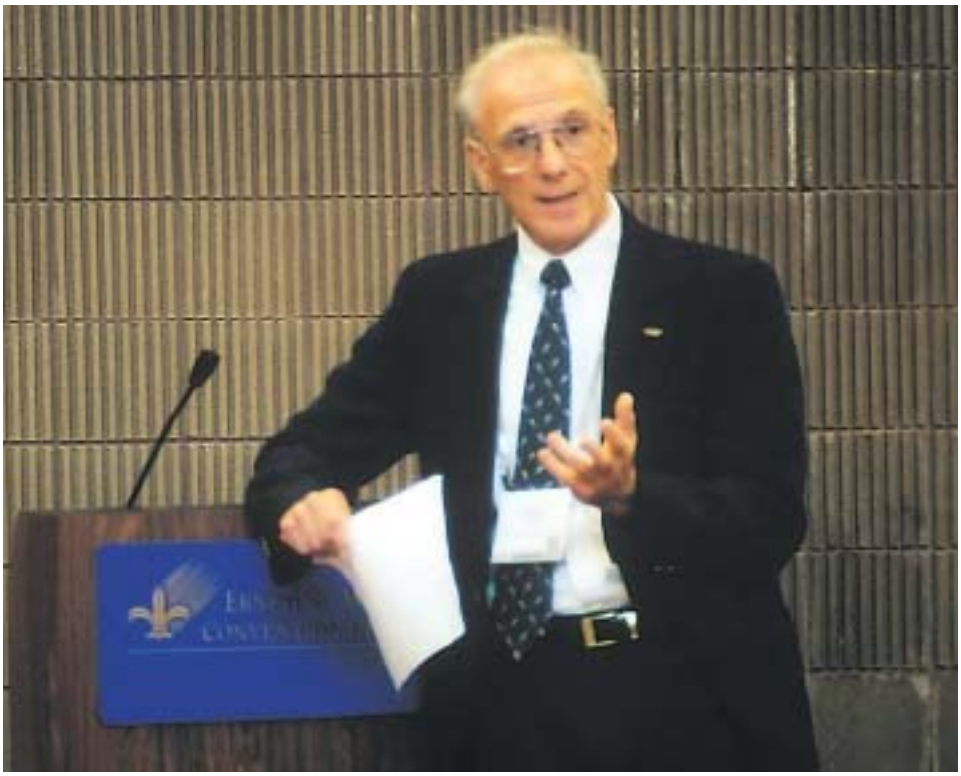
Saturday, October 23
1 – 5 p.m.
Sunday, October 24 – Wednesday, October 26
8 a.m. – 5 p.m.
San Diego Convention Center, Exhibit Hall A
Consult the final program for times when authors will be present at their posters.

2004 Science Educator Award Presentation

Monday, October 25
4:15 p.m.
San Diego Convention Center, Ballroom 20
The 2004 Science Educator Award will be presented prior to the Albert and Ellen Grass Lecture.

Continuing Medical Education

www.sfn.org/cme



The Society for Neuroscience Annual Meeting is a forum for the education of physicians in the art of neuroscience. By attending special lectures, symposia, or minisymposia, the physician will receive a broad overview of the field presented in each activity. By attending poster or slide presentations, the physician will receive information about the most recent, detailed research in the topic of the session. The abstract of each plenary or specific session contains brief descriptions of the material to be presented. By attending any of the activities, the physician will better understand the basic science that underlies his or her clinical practice.

Statement of Need

It is important that physicians comprehend the basic science that underlies clinical medicine. The Society for Neuroscience Annual Meeting is the premier venue for this educational opportunity. Physicians learn about the most up-to-date, cutting-edge discoveries regarding the nervous system.

Objectives

At the end of this activity physicians will be able to:

- Summarize the basic science underlying the clinical medicine of the nervous system.
- Integrate the new information into their diagnostic and therapeutic modalities of practice.
- Identify and discuss new research discoveries.

Accreditation

The Society for Neuroscience is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation Per Session

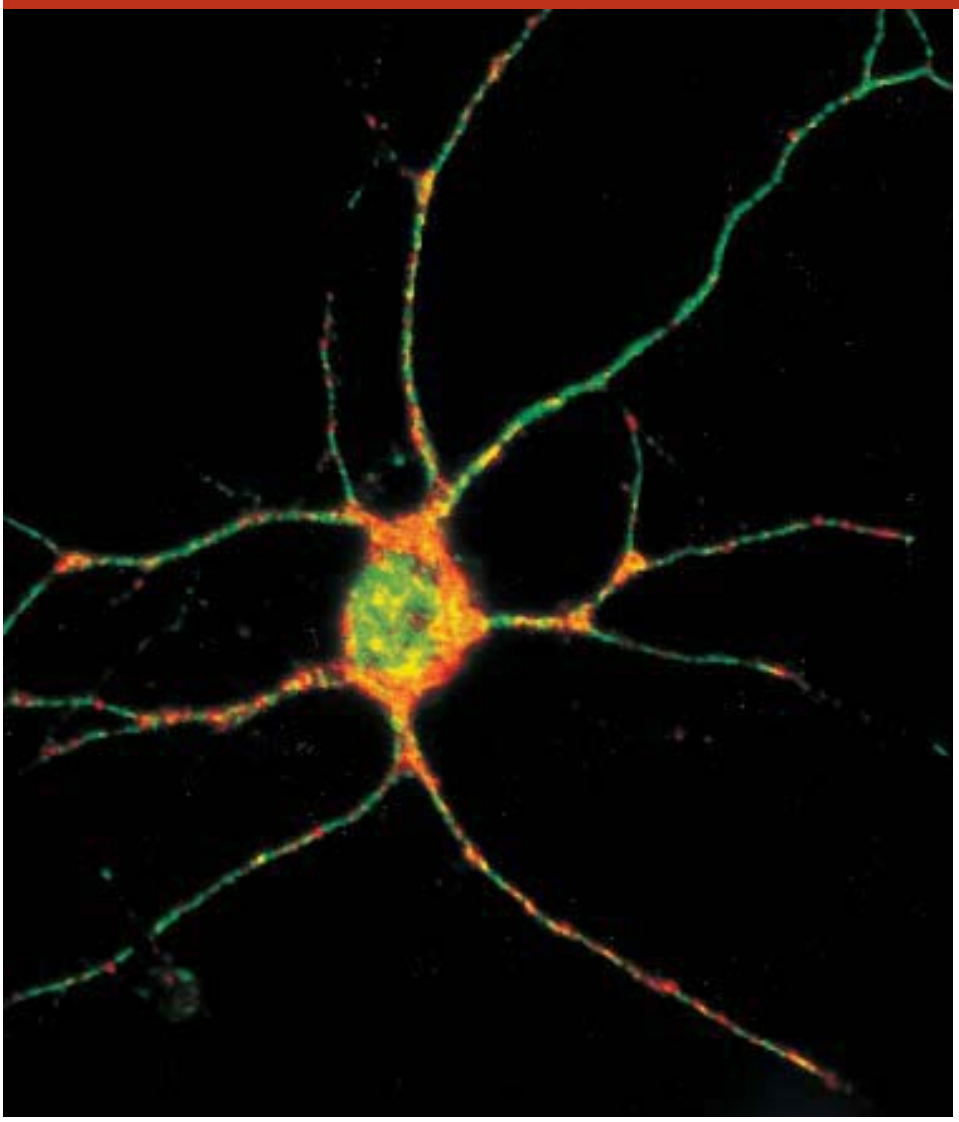
POSTER SESSIONS — The Society for Neuroscience designates this educational activity for a maximum of 4 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

SLIDE SESSIONS — The Society for Neuroscience designates this educational activity for a maximum of 3 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

SYMPOSIA — The Society for Neuroscience designates this educational activity for a maximum of 3 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

MINISYMPOSIA — The Society for Neuroscience designates this educational activity for a maximum of 3 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

PUBLIC LECTURE — The Society for Neuroscience designates this educational activity for a maximum of 1 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.



THE ALBERT AND ELLEN GRASS LECTURE — The Society for Neuroscience designates this educational activity for a maximum of 2 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

PRESIDENTIAL SYMPOSIUM — The Society for Neuroscience designates this educational activity for a maximum of 2 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

PRESIDENTIAL SPECIAL LECTURES — The Society for Neuroscience designates this educational activity for a maximum of 1 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

SPECIAL LECTURES — The Society for Neuroscience designates this educational activity for a maximum of 1 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

PFIZER LECTURE — The Society for Neuroscience designates this educational activity for a maximum of 1 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

SfN NEUROETHICS LECTURE — The Society for Neuroscience designates this educational activity for a maximum of 1 Category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he or she actually spent in the activity.

A meeting attendee seeking CME credit may use a combination of the previously mentioned activities described above to gain a maximum of 41.75 Category 1 credits toward the AMA Physician's Recognition Award. For those registering prior to the meeting, a processing fee of $40 is charged in addition to the meeting registration fee. The on-site processing fee for CME is $50. Purchase orders will not be accepted as payment. To register for CME credits in advance, check the appropriate box on the Annual Meeting Registration form and include the CME processing fee.

IMPORTANT:
CME registration must be completed before or during the annual meeting. Those who do not register at these times will not receive the necessary documentation should they request it after the meeting. CME registrants will receive instructions for obtaining CME credits with their registration materials.

Awards in Neuroscience

www.sfn.org/awards2004

SfN/AstraZeneca Young Investigator Award

Support contributed by AstraZeneca.

SfN established the Young Investigator Award in 1983. Each year, an outstanding neuroscientist who has received an advanced professional degree within the past 10 years is presented with a prize and an honorarium. The winner of the 2004 award will be announced prior to the Albert and Ellen Grass Lecture on Monday, October 25, at 4:15 p.m. in Ballroom 20 of the San Diego Convention Center.

Previous recipients include: D. Bredt (2003); L. Luo and R. Yuste (2002); R.C. Reid and A. Ghosh (2001); E.K. Miller (2000); M.H. Sheng (1999); D.J. Linden (1998); M. Tessier-Lavigne (1997); W. Zagotta (1996); J. Nathans and S.K. McConnell (1995); L.C. Katz and D.V. Madison (1994); M.F. Bear and R.C. Malenka (1993); R.M. Sapolsky and S.G. Amara (1992); D.D.M. O'Leary and R.L. Huganir (1991); S.E. Petersen (1990); M.L. Mayer (1989); R.W. Aldrich (1988); J.W. Lichtman (1987); S.G. Lisberger (1986); J.A. Movshon and C.J. Shatz (1985); E. Knudsen and R. Scheller (1984); M. Constantine-Paton (1983).

SfN Chapters/Burroughs Wellcome Fund Postdoctoral Travel Awards in Neuroscience

Support contributed by Burroughs Wellcome Fund.

The Burroughs Wellcome Fund generously provided the Society for Neuroscience with a grant to enable exceptional postdoctoral trainees to travel to the SfN annual meeting. All awardees are chosen and nominated by their local SfN chapter based on the scientific merit of their abstract, as well as letters of nomination from their faculty mentor and local nominating chapter. Recipients of this award will be recognized at the SfN Chapters/Eli Lilly Graduate Student Travel Award Reception and Chapter Representative Social on Monday, October 25, at 7 p.m. in the San Diego Marriott Hotel & Marina San Diego Ballroom C. This event is by invitation only and RSVP is required.

SfN Chapters/Eli Lilly Graduate Student Travel Awards

Support contributed by Eli Lilly & Co.

The Society for Neuroscience Chapters/Eli Lilly Graduate Student Travel Awards provide $750 in travel expenses plus meeting registration fees to honor outstanding graduate students nominated by their local SfN chapters. Awardees are chosen on the basis of the scientific merit of their abstract, as well as letters of nomination from the Principal Investigator/Mentor and the local nominating chapter. The winners of this award will be recognized at the SfN Chapters/Eli Lilly Graduate Student Travel Award Reception and Chapter Representative Social on Monday, October 25, at 7 p.m. in the San Diego Marriott Hotel & Marina San Diego Ballroom C. This event is by invitation only and RSVP is required.

Ralph W. Gerard Prize in Neuroscience

Support contributed by Eli Lilly & Co.
The Society for Neuroscience endows this prize to honor outstanding contributions to neuroscience. The prize, a plaque and an honorarium, is named after Ralph W. Gerard, who was instrumental in founding SfN, and who served as Honorary President from 1970 until his death in 1974. The winner of the 2004 prize will be announced prior to the History of Neuroscience Lecture on Tuesday, October 26, at 1:00 p.m. in Ballroom 20 of the San Diego Convention Center.

Previous recipients include: A.J. Hudspeth (2003); P. Goldman-Rakic and P. Rakic (2002); W. Maxwell Cowan (2001); S. Snyder (2000); C.F. Stevens (1999); E.R. Perl (1998); E.R. Kandel (1997); L. Sokoloff (1996); H. Thoenen and E.M. Shooter (1995); P. Greengard (1994); D.H. Hubel and T.N. Wiesel (1993); J. Axelrod (1992); B. Sakmann and E. Neher (1991); B. Katz and S.L. Palay (1990); S. Benzer (1989); H.W. Magoun and D.B. Lindsley (1988); B. Milner (1987); S.S. Kety (1986); V. Hamburger and R. Levi-Montalcini (1985); T.H. Bullock and S. Hagiwara (1984); W.J.H. Nauta (1983); J.E. Rose and C.N. Woolsey (1982); H.H. Jasper (1981); V.B. Mountcastle (1980); R.W. Sperry (1979); S.W. Kuffler (1978).

The Albert and Ellen Grass Lecture

Support contributed by The Grass Foundation.
Each year since 1972, an award from The Grass Foundation has enabled SfN to recognize a distinguished neuroscientist with an invitation to present the Albert and Ellen Grass Lecture. Roger Y. Tsien, PhD, will receive the 2004 honorarium and present the Albert and Ellen Grass Lecture on Monday, October 25, at 4:15 p.m. in Ballroom 20 of the San Diego Convention Center.

Previous lecturers include: W. Newsome (2003); H.R. Horvitz (2002); N. Le Douarin (2001); M. Raff (2000); L.G. Ungerleider (1999); C.S. Goodman (1998); P.S. Goldman-Rakic (1997); R. Axel (1996); B. Milner (1995); A.J. Hudspeth (1994); T.M. Jessell (1993); S.F. Heinemann (1992); C.J. Shatz (1991); D. Purves (1990); B. Hille (1989); V.B. Mountcastle (1988); T.S. Reese (1987); P. Greengard (1986); P. Rakic (1985); M. Konishi (1984); S. Grillner (1983); L. Sokoloff (1982); C.F. Stevens (1981); J. Axelrod (1980); W.M. Cowan (1979); S. Benzer (1978); E.R. Kandel (1977); D.H. Hubel and T.N. Wiesel (1976); S.S. Kety (1975); B. Katz (1974); A.E. Carlsson (1973); S.W. Kuffler (1972).

SfN/IBRO International Travel Awards

Co-sponsored by SfN and IBRO.
Fellowships are distributed evenly among five of the International Brain Research Organization regions (Africa, Asia/Pacific, Central/Eastern Europe, Western Europe and Latin America). Recipients of this award receive complimentary SfN meeting registration and a cash award to help defray travel costs. Eligible nominees must be from a developing country, less than 35 years of age, and a first author of an abstract to be presented at the SfN annual meeting. Each designated fellow will be partnered with a senior member of the Society at Neuroscience 2004.

Donald B. Lindsley Prize in Behavioral Neuroscience

Support contributed by The Grass Foundation.
The Grass Foundation has established a prize in the name of Donald B. Lindsley to recognize meritorious research in behavioral neuroscience. The prize is awarded for the most outstanding PhD thesis in the general area of behavioral neuroscience submitted and approved during the previous calendar year. The award consists of an honorarium and engraved plaque, as well as the recipient's travel expenses to attend the SfN annual meeting. The winner of the 2004 prize will be announced prior to the Albert and Ellen Grass Lecture on Monday, October 25, at 4:15 p.m. in the San Diego Convention Center, Ballroom 20.

Previous recipients include: A. Leonardo (2003); B. Corneil and S. Low-Zeddies (2002); W. Asaad (2001); M. Solis and N. Sobel (2000); M.T. Rogan (1999); C.L. Passaglia (1998); E. G. Freedman (1997); C.D. Salzman (1996); M.S. Brainard (1995); W.A. Suzuki (1994); T.A. Jones (1993); L.M. Romanski (1992); G.H.

Recanzone (1991); C.H. Keller, II (1990); D.P. Munoz (1989); B. Wolozin (1988); J.R. Larson (1987); D.G. McMahon (1986); R. Sapolsky (1985); D. McCormick (1984); B.L. Tempel (1983); S.M. Breedlove (1982); M.A. Della-Fera and M.E. Gurney (1981); J.K. Chapin (1980) and L.C. Evinger (1979).

Neuroscience Scholars Program

Support contributed by the National Institute of Neurological Disorders and Stroke.

This program is designed to enhance career development and professional networking opportunities for pre- and postdoctoral minority trainees in neuroscience. This award is a three-year fellowship that provides travel assistance to the SfN annual meetings along with mentoring, enrichment opportunities, and SfN membership benefits. Fellowship awardees will be honored at the SfN Annual Minority Reception on Monday, October 25, at 7 p.m. in the San Diego Marriott Hotel & Marina Columbia Room. This event is by invitation only and RSVP is required.

Minority Neuroscience Fellowship Program

Support contributed by the National Institute of Mental Health and National Institute of Neurological Disorders and Stroke.

The goal of the Minority Neuroscience Fellowship Program is to increase the diversity of the pool of individuals participating in mental health-related neuroscience research and teaching programs. This program recruits and trains outstanding individuals of traditionally underrepresented racial and ethnic minorities. Training stipends are available for pre-doctoral (up to three years) and postdoctoral (up to two years) fellowships. Fellowship recipients will present their research at the SfN/APA Minority Fellows Poster Session on Saturday, October 23, at 5:30 p.m. in the San Diego Convention Center, Room 17AB, and will be honored at the SfN Annual Minority Reception on Monday, October 25, at 7 p.m. in the San Diego Marriott Hotel & Marina Columbia Room. This event is by invitation only and RSVP is required.

Pfizer Lectureship for a Distinguished Foreign Scientist

Support contributed by Pfizer, Inc.

In 1981, Warner-Lambert, now Pfizer, Inc., generously endowed SfN with funds dedicated to bring a distinguished lecturer from abroad to speak at the SfN annual meeting. This year's lecturer will be Wolfram Schultz, MD, University of Cambridge, who will speak on Sunday, October 24, at 11:15 a.m. in the San Diego Convention Center, Ballroom 20.

Previous lecturers include: N. Logothetis, Max-Planck Institute (2003); H. Betz, Max-Planck Institute for Brain Research, Frankfurt, Germany (2002); Christine Holt, University of Cambridge, United Kingdom (2001); Cancelled in 2000; Walter Gehring, Biozentrum, University of Basel, Switzerland (1999); C.D. Marsden, The National Hospital, London (1998); M. Schachner, Zentrum für Molekulare Neurobiologie Hamburg, Germany (1997); M. Ito, RIKEN, Saitama, Japan (1996); N.N.M. Le Douarin, Institut d'Embryologie Cellulaire et Moleculaire, Collège de France, France (1995); M. Raff, University College, London, England (1994); P. Ascher, L'Ecole Normale Supérieure, France (1993); T. Hökfelt, Karolinska Institutet, Sweden (1992); F. Bonhoeffer, Max-Planck Institute for Developmental Biology, Tübingen, Germany (1991); P. Andersen, University of Oslo, Norway (1990); W. Singer, Max-Planck Institute of Brain Research, Germany (1989); R. Porter, John Curtin School of Medical Research, Australia National University, Canberra City, Australia (1988); J.-P. Changeux, Institut Pasteur, Paris, France (1987); B. Droz, Institute d'Histologie, Université de Lausanne, Switzerland (1986); R.F. Schmidt, Physiologisches Institüt der Universität Wurzburg, Germany (1985); M. Raff, University College, London, England (1984); N.N.M. Le Douarin, Institut d'Embryologie Cellulaire et Moleculaire, Collège de France, France (1983); H.G.J.M. Kuypers, Erasmus University, Rotterdam, The Netherlands (1982); E. Neher, Max-Planck Institute for Biophysical Chemistry, Göttingen, Germany (1981).

Science Educator Award

This prize will be awarded each year at the SfN annual meeting to an outstanding neuroscientist who has made significant contributions to SfN's critical mission of educating the public about neuroscience. The recipient of the 2004 award will be announced prior to the Albert and Ellen Grass Lecture on Monday, October 25, at 4:15 p.m. in Ballroom 20 of the San Diego Convention Center.

Previous recipient: E. Chudler (2003).

The Jacob P. Waletzky Memorial Award for Innovative Research in Drug Addiction and Alcoholism

Support contributed by The Philanthropic Collaborative at Rockefeller Philanthropy Advisors.

This prize is awarded each year at the SfN annual meeting to a young scientist who has received an advanced degree of either PhD or MD within the past 15 years, and who has done research or plans to do research in the area of substance abuse and the brain and nervous system. The award of $25,000 will be presented to the recipient prior to the Albert and Ellen Grass Lecture on Monday, October 25, at 4:15 p.m. in Ballroom 20 of the San Diego Convention Center.

Previous recipient: P. Piazza (2003).

Registration, Hotel, & Travel

visit us at www.sfn.org/am2004

- Registration Information
- Travel Information
- Shuttle Routes
- Shuttle Schedule
- Hotel Information
- Hotel List
- San Diego Map
- Exhibitor List

Registration Information

www.sfn.org/registration

Registration Options

On-Site Online Registration – Opens September 22!

If you missed the deadline for advance registration but still want to take advantage of reduced registration fees and quick badge and program pick-up on-site, check out the on-site online registration option. This option allows you to register online and then stop by the On-site Online badge pick-up counter in the Convention Center with your confirmation number during on-site registration hours. On-Site Online registration will open online September 22 and will remain open throughout the annual meeting.

On-Site Online registration also includes a reduced fee and saves you time because payment and data entry will already be completed online.

On-Site Registration

San Diego Convention Center, Sails Pavilion

Attendees who do not register in advance or via the on-site online option may register on-site during the following hours:

On-site registration hours

Friday, October 22	2 p.m.–5 p.m.
Saturday, October 23	9 a.m.–5 p.m.
Sunday, October 24	8 a.m.–5 p.m.
Monday, October 25*	8 a.m.–5 p.m.
Tuesday, October 26*	8 a.m.–5 p.m.
Wednesday, October 27*	8 a.m.–3 p.m.

*On Monday, Tuesday, and Wednesday, registration will be conducted in the Society's Business Office (San Diego Convention Center, Sails Pavilion).

Registration Fees

SfN membership dues are not included in registration fees. Registration fees may be paid by credit card (MasterCard, VISA, or American Express) or by check or money order (U.S. dollars drawn on a U.S. bank account) made payable to the Society for Neuroscience. Purchase orders and credit cards other than MasterCard, VISA, or American Express will not be accepted as payment.

Registration fees

	On-Site Online opens Sept. 22	*On-Site opens Oct. 22*
Member	$240	$250
Student Member	$75	$80
Nonmember	$400	$410
Student Nonmember	$90	$100
Guest	$25	$30
CME Accreditation	$50	$50

Registration Categories

Society Member

A member in good standing of the Society for Neuroscience as of Friday, October 8, 2004.

Student Member/Student Nonmember

Students working toward an undergraduate, graduate, or doctoral degree in neuroscience or an allied field qualify for a reduced student rate. An individual registering as a student member must be a student member of the Society for Neuroscience as of Friday, October 8, 2004. Postdoctoral fellows, hospital residents, interns, and laboratory technicians, even though they may be in a training program, do not qualify for a reduced student rate. Students who graduate in 2004 prior to the annual meeting may register as students for the 34th Annual Meeting. Students registering on-site must provide student ID or proof of qualifying for student status.

Nonmember

Anyone who is not a member in good standing of the Society for Neuroscience as of Friday, October 8, 2004, is considered a nonmember.

Guest

Guests are nonscientist family members or guests of a scientist. Guest registration is valid for admission to the registration area and social events only. Guest name must be included on the annual meeting registration form. Individuals under age 17 will not be permitted to attend the annual meeting without adult supervision, and badges will not be issued to these individuals.

International Attendees

Visa Information

SfN recommends that international participants see the following Web sites for important timelines and information concerning visa applications for entry into the United States:

U.S. State Department:

http://travel.state.gov/nonimmigrantvisas.html

National Academies:

www7.nationalacademies.org/visas/Traveling_to_US.html.

If you need an official invitation letter to attend Neuroscience 2004, please submit an online request at www.sfn.org/visainfo.

Qualifying for Membership

Membership status will be verified when registering. Membership must be confirmed prior to registering for the meeting as a member.

Annual meeting registration does not automatically qualify you for membership or affect your current membership status (i.e., changing from student to regular member).

If you are not currently an SfN member in good standing as of Friday, October 8, 2004, you cannot register as a member for this year's annual meeting.

To verify status or apply for membership, contact the SfN Membership Department, e-mail membership@sfn.org or call (202) 462-6688.

Cancellations

The deadline for refund requests (written and e-mailed) is Friday, October 8, 2004.

Refund requests must meet the following criteria to be processed:

- Receipt of registrant's original badge is required for the cancellation to be processed.
- E-mailed cancellations will not be processed until the registrant's original badge is received in the Society office. Registrant's badge must be received in the Society office by Friday, October 15, in order for a refund to be processed.
- After Friday, October 8, there will be no refunds for cancellations of any type, including no-shows.
- Refunds will not be issued for incorrect category of registration. If you are not sure if you are a member or student member, please contact the Membership Department via e-mail at membership@sfn.org or phone at (202) 462-6688.

More Cost Effective to Become a Member!

If you plan to register for Neuroscience 2004, joining SfN will save you money and increase your benefits.

- The cost of preregistering as a member is $240 – $250.
- The cost of registering as a nonmember is $400 – $410.
- The difference is the cost of membership! (It's actually $15 cheaper to become a member and register for Neuroscience 2004!)

* Please note: Membership must be confirmed before registering as a member. Membership application processing takes one to two weeks. The receipt deadline for submission of membership or change of status applications in order to be considered for SfN membership prior to the annual meeting is Friday, October 8. A membership application can be found online at www.sfn.org/joinnow.

- E-mail cancellation requests to: amcancel@sfn.org. Mail cancellation requests to:
  Society for Neuroscience
  Annual Meeting Registration
  11 Dupont Circle, NW, Suite 500,
  Washington, DC 20036.

Cancellation Fee

A registration cancellation fee for processing will be deducted from refunds: $15 for students and guests, and $30 for members and nonmembers.

Travel Information

www.sfn.org/travel

Airline Discounts

Special meeting fares have been negotiated for Neuroscience 2004 and are available on US Airways and American Airlines.

Applicable restrictions must be met. To make reservations, you may call the airlines directly and refer to the ID numbers listed. If you choose to go through a travel agent, please also reference the airline ID number.

Airlines:

US Airways:
(877) 874-7687
Provide Meeting ID # GF21623135

American Airlines:
(800) 433-1790
Provide Meeting ID # A23H4AN

The above discounts apply for travel October 18 through November 1, 2004.

International Attendees

International attendees should refer to the SfN Web site www.sfn.org/visainfo for information regarding visas.

Automobile Rental

The Society has negotiated special car rental rates with National and Avis for Neuroscience 2004. These discounts are available for October 23 – 27, 2004.

National:
Call (800) 227-7368 or book online at www.nationalcar.com.
Be sure to mention Contract ID # 5282914 when reserving your car.

Avis:
Call (800) 331-1600 or book online at www.avis.com.
Be sure to mention AWD ID # J945617 when reserving your car.

Ground Transportation

Getting around is a breeze. The San Diego International Airport, Lindbergh Field, is located approximately three miles and just minutes from the convention center and is amply supplied with taxis and shuttles ready to whisk you to your lodging.

Airport Shuttle
Cloud 9 provides 24-hour airport transportation. The SfN discounted fare from the airport to downtown hotels is $5.50, fare to Mission Valley is $7.50, $9.50 to the Coronado Island Marriott Resort, and to the Loews Coronado Bay Resort $12.50. Fares are per person, one way. When you arrive at the airport, claim your luggage and call Cloud 9 Shuttle from the airport courtesy phones located in the baggage claim. Return trips to the airport can be prearranged by dialing (800) 974-8885. To arrange transportation from the airport to your hotel prior to your arrival in San Diego, visit www.cloud9shuttle.com and enter SfN's promotional code Neuro2004 for discounted fares. Cloud 9 accepts AMEX, Visa, MasterCard, Discover, and Diner's Card. For further information, contact Cloud 9 Shuttle, Inc., at (800) 974-8885 or visit their Web site at www.cloud9shuttle.com.

Taxis
Taxis are available 24 hours a day—a taxi ride from the airport to downtown is a fixed rate of $8. Companies that provide service to and from the airport are listed below with approximate fares.

Yellow Taxi	(619) 234-6161
La Jolla Cab	(858) 453-4222
Orange Taxi	(619) 291-3333
Crown City Cab	(619) 437-8885

Approximate One-Way Fare between Airport and Hotel

Coronado	$22 – $25
Mission Bay	$15 – $20
Downtown	$12 – $15
Mission Valley	$15 – $20
Harbor Island	$4 – $6
Shelter Island	$6 – $8

NOTE: Fares are subject to change. Please contact the company of your choice to confirm prices and hours of operation before arriving in San Diego.

Bus
The public bus is available to the downtown area for a fare of $2.25. The fare for a senior or disabled rider is $1. Buses depart the airport for downtown approximately every 10 to 15 minutes. Buses travel downtown between 6 a.m. and Midnight. Day Tripper Passes are also available for $5 per day, $9 for two days, $12 for three days, and $15 for four days. For more information, contact San Diego transit at (800) COMMUTE.

Trolley
Trolley fares are based on trip distance and are good for travel for two hours from the time of validation and may be used until the expiration time stamped on the ticket. Round-trip fares for the San Diego Trolley are generally from $2.50 to $5. The fare for seniors and disabled riders is $1.

Parking
The San Diego Convention Center provides several parking locations for attendees needing to park their vehicle nearby while attending an event. Current parking rates start at $8 per entry with no in/out privileges.

Tourist Attractions

San Diego Convention Center, Lobby B
Stop by the San Diego Convention and Visitors Restaurant and City Concierge Booth in Lobby B for information on local tours and attractions. Appreciation is extended to the San Diego Convention and Visitors Bureau for providing this complimentary service.

Shuttle Routes

www.sfn.org/shuttle

The Society for Neuroscience provides complimentary shuttle service between the San Diego Convention Center and the hotels listed below. SfN shuttles will operate from Friday, October 22, through Wednesday, October 27. If you have questions regarding the shuttle service prior to the meeting, contact Sharon Kerley Bowles at sharon@sfn.org or (202) 462-6688. For questions or concerns about shuttle routes and schedules while at the annual meeting, please call (619) 525-6274. Buses will be identified by the route numbers and colors listed here.

Route	Hotel	Boarding Location
Route 1: RED	Hilton San Diego Resort Dana Inn on Mission Bay Hyatt Regency Islanda	Front Entrance Front Entrance Front Entrance
Route 2: DARK BLUE	Hacienda Hotel Old Town San Diego Holiday Inn Express Old Town	Curbside on Harney Curbside on Arista
Route 3: YELLOW	Hilton San Diego Airport/Harbor Island	Curbside Front Entrance
Route 4: DARK GREEN	Humphrey's Half Moon Inn & Suites Bay Club Hotel & Marina Shelter Pointe Hotel & Marina Holiday Inn San Diego Bayside	Front Entrance Curbside in Front of Hotel Curbside in Front Front Entrance
Route 5: ORANGE	Coronado Island Marriott Resort Loews Coronado Bay Resort	Front Entrance Front Entrance
Route 6A: LIGHT BLUE	San Diego Marriott Mission Valley Doubletree San Diego Mission Valley Radisson Hotel San Diego Hilton San Diego Mission Valley Comfort Suites Mission Valley	Curbside in Front Curbside in Front Front Entrance – White Curb Curbside at Tour Bus Stop Curbside in Front
Route 6B: LIGHT BLUE	Town & Country Resort Handlery Hotel and Resort Red Lion Hanalei Hotel Comfort Inn & Suites Zoo/Sea World Area	Convention Center Entrance Curbside in Front Curbside in Front Walk to Red Lion Hanalei
Route 7A: PINK	Comfort Inn & Suites Hotel Circle Ramada Plaza Hotel Circle Doubletree Club Hotel Kings Inn Hotel Mission Valley Resort (formerly the Quality Resort Hotel)	Bus Stop Front Entrance Between Hotel & Ricky's Curbside at Bus Stop Front Entrance Front Entrance Between Buildings 7 & 8
Route 7B: PINK	Holiday Inn Select San Diego Days Inn Hotel Circle Best Western Seven Seas	Parking Lot Near Front Entrance Walk to Holiday Inn Walk to Holiday Inn
Route 8: LIGHT GREEN	Embassy Suites Hotel San Diego Bay Holiday Inn on the Bay Hampton Inn by Hilton San Diego Downtown Residence Inn by Marriott San Diego	Curbside on Pacific Highway Curbside in Front Curbside in Front Curbside in Front
Route 9: PURPLE	Westgate Hotel Bristol Hotel Westin Horton Plaza US Grant Hotel W San Diego Wyndham San Diego at Emerald Plaza	On First Street at F On First Street at F On First Street at F On First Street at F On B Street at State Curbside on Broadway
Route 10: GREY	Quality Inn & Suites Downtown Harborview Comfort Inn Downtown Radisson Hotel Harbor View Holiday Inn Harbor View Best Western Bayside Inn	Corner of 7th Avenue and Ash Corner of 7th Avenue and Ash Curbside on Union On Cedar at 1st Avenue Curbside on Ash
Route 11: LAVENDER	Sheraton Suites San Diego Prava Hotel Horton Grand Hotel	Curbside on A Street Walk to Courtyard by Marriott Curbside on 4th
Hotels within walking distance of the Convention Center	San Diego Marriott Hotel & Marina Manchester Grand Hyatt San Diego Hilton San Diego Gaslamp Omni San Diego Hotel	N/A N/A N/A N/A

Shuttle Schedule

www.sfn.org/shuttle

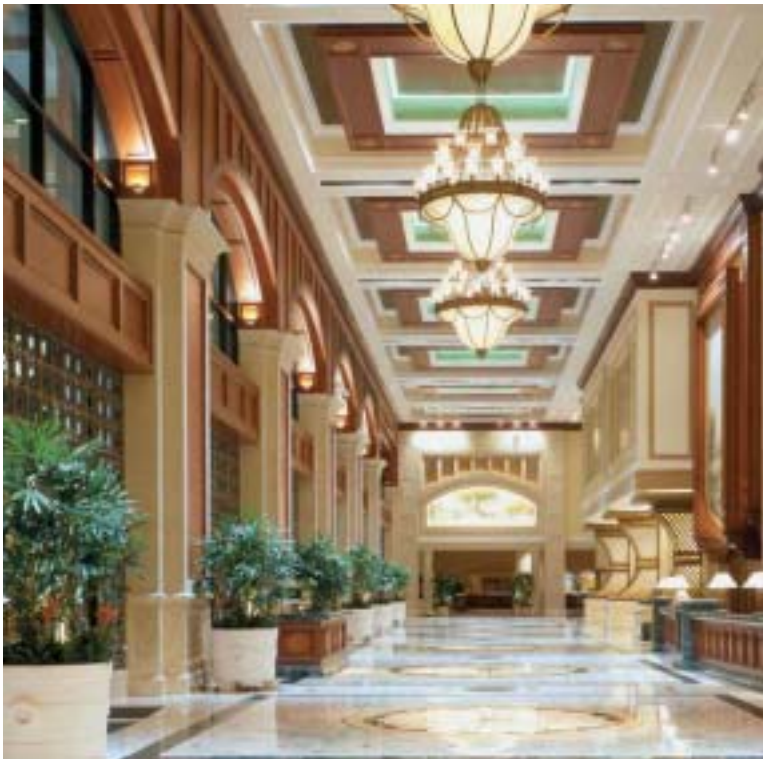
SfN's official shuttle contractor will monitor traffic conditions continuously. Please allow additional time when planning your commute to various events. Annual meeting attendees experiencing delays should call the on-site shuttle desk at (619) 525-6274.

Note: The time intervals listed here are approximate. This schedule refers to all routes.

Date	Hours of Service	Frequency
Friday, October 22	1:30 – 5 p.m.	20 min.
Saturday, October 23	8:30 – 10:30 a.m.	20 min.
	10:30 a.m. – 5 p.m.	10 min.
	5 – 10 p.m.	20 min.
Sunday, October 24	6:30 – 10:30 a.m.	10 min.
	10:30 a.m. – 4 p.m.	20 min.
	4 – 8 p.m.	10 min.
	8 – 11 p.m.	20 min.
Monday, October 25	7 – 10:30 a.m.	10 min.
	10:30 a.m. – 4 p.m.	20 min.
	4 – 8 p.m.	10 min.
	8 – 9:30 p.m.	20 min.
Tuesday, October 26	7 – 10:30 a.m.	10 min.
	10:30 a.m. – 4 p.m.	20 min.
	4 – 8 p.m.	10 min.
	8 – 9:30 p.m.	20 min.
Wednesday, October 27	7 – 10:30 a.m.	10 min.
	10:30 a.m. – 3:30 p.m.	20 min.
	3:30 – 6 p.m.	10 min.

Hotel Information

www.sfn.org/hotel



The Society's housing company, Travel Planners, Inc. (TPI), will be on-site to assist with any housing questions that arise during the annual meeting. Representatives will be located in the San Diego Convention Center, Sails Pavilion, October 22 – 27, during the following hours:

Friday	9 a.m. – 5 p.m.
Saturday	9 a.m. – 5 p.m.
Sunday	8 a.m. – 5 p.m.
Monday	8 a.m. – 5 p.m.
Tuesday	8 a.m. – 5 p.m.
Wednesday	8 a.m. – 3 p.m.

On-site phone: (619) 525-6240

- The numbered circles on the map (page 107) correspond to the numbers assigned to the hotels listed on the next pages.
- The San Diego Marriott Hotel and Marina and the Manchester Grand Hyatt San Diego are the official co-headquarter hotels.

Hotel List

www.sfn.org/hotel

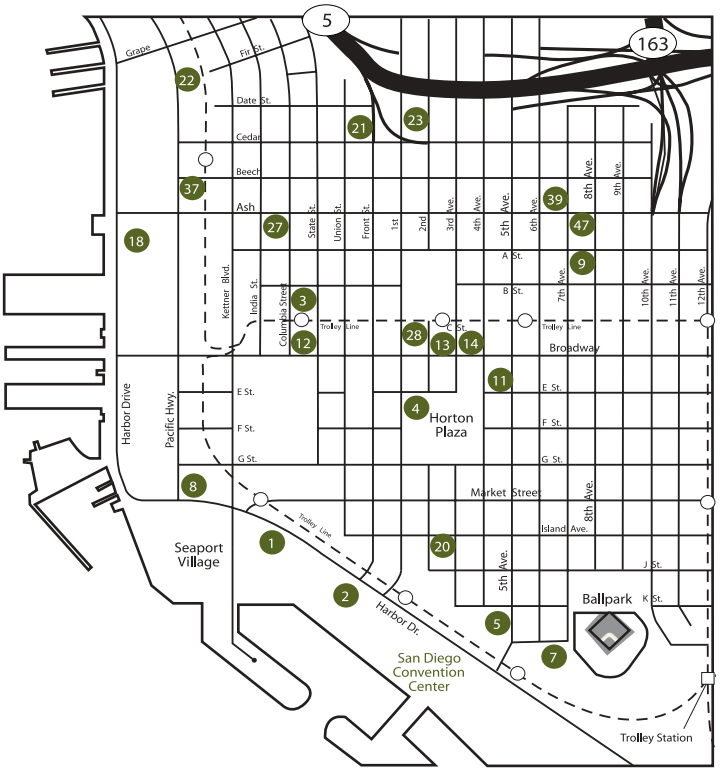
HOTEL NO.	HOTEL ADDRESS, PHONE, & FAX NUMBERS	# OF BLOCKS FROM CONVENTION CENTER HALL F
32	Bay Club Hotel & Marina 2131 Shelter Island Drive; Phone: (619) 224-8888 Fax: (619) 225-1604	5 Miles; 12 Min. Drive
27	Best Western Bayside Inn 555 West Ash Street; Phone: (619) 233-7500 Fax: (619) 239-8060	2 Miles; 30 Min. Walk
48	Best Western Seven Seas 411 Hotel Circle South; Phone: (619) 291-1300 Fax: (619) 291-6933	9 Miles; 15 Min. Drive
28	Bristol Hotel 1055 First Avenue; Phone: (619) 232-6141 Fax: (619) 232-0118	7 Blocks; 12 Min. Walk
47	Comfort Inn Downtown 719 Ash Street; Phone: (619) 232-2525 Fax: (619) 687-3024	1.5 Miles; 20 Min. Walk
46	Comfort Inn & Suites Hotel Circle 2201 Hotel Circle South; Phone: (619) 881-6800 Fax: (619) 542-1227	5 Miles; 10 Min. Drive
45	Comfort Inn & Suites Zoo/Sea World Area 2485 Hotel Circle Place; Phone: (619) 881-6200 Fax: (619) 297-6179	5 Miles; 15 Min. Drive
42	Comfort Suites Mission Valley 631 Camino del Rio South; Phone: (619) 881-4000 Fax: (619) 881-4037	9 Miles; 15 Min. Drive
6	Coronado Island Marriott Resort 2000 Second Street; Phone: (619) 522-3190 Fax: (619) 435-4183	5 Miles; 10 Min. Drive
29	Dana Inn on Mission Bay 1710 W. Mission Bay Drive; Phone: (619) 222-6440 Fax: (619) 222-5916	5 Miles; 15 Min. Drive
50	Days Inn Hotel Circle 543 Hotel Circle South; Phone: (619) 297-8800 Fax: (619) 298-6029	9 Miles; 15 Min. Drive
35	DoubleTree Club Hotel 1515 Hotel Circle South; Phone: (619) 881-6900 Fax: (619) 260-0147	9 Miles; 15 Min. Drive
25	DoubleTree San Diego Mission Valley 7450 Hazard Center Drive; Phone: (619) 297-5466 Fax: (619) 297-5499	9 Miles; 15 Min. Drive
8	Embassy Suites Hotel San Diego Bay 601 Pacific Highway; Phone: (619) 239-2400 Fax: (619) 239-1520	4 Blocks; 10 Min. Walk
36	Hacienda Hotel Old Town San Diego 4041 Harney Street; Phone: (619) 298-4707 Fax: (619) 298-4771	6 Miles; 10 Min. Drive
37	Hampton Inn by Hilton-San Diego Downtown 1531 Pacific Highway; Phone: (619) 233-8408 Fax: (619) 233-8418	1 Mile; 15 Min. Walk
43	Handlery Hotel and Resort 950 Hotel Circle North; Phone: (619) 298-0511 Fax: (619) 298-9793	9 Miles; 15 Min. Drive

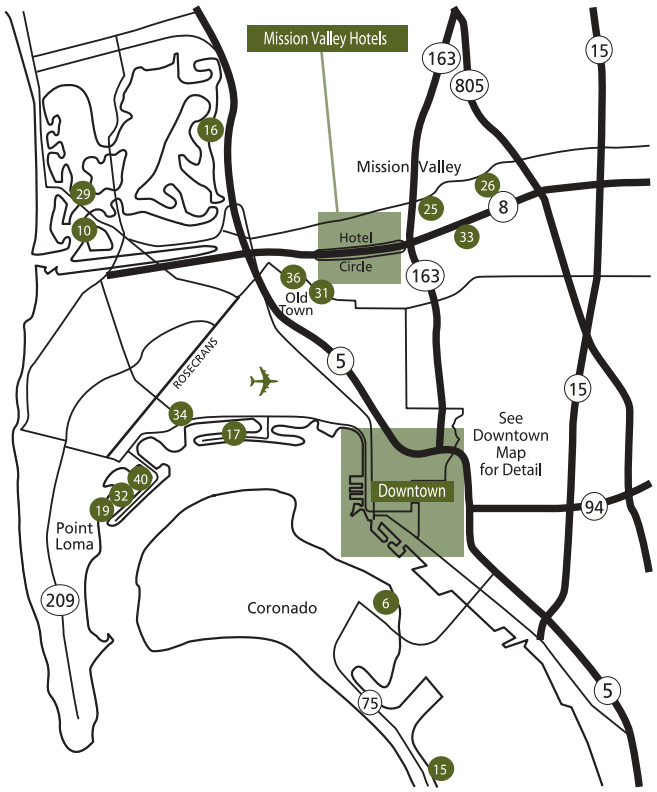
HOTEL NO.	HOTEL ADDRESS, PHONE, & FAX NUMBERS		# OF BLOCKS FROM CONVENTION CENTER HALL F
17	Hilton San Diego Airport Harbor Island 1960 Harbor Island Drive; Phone: (619) 291-6700 Fax: (619) 293-0694		7 Miles; 15 Min. Drive
5	Hilton San Diego Gaslamp Quarter 401 K Street; Phone: (619) 231-4040 Fax: (619) 231-6439		1 Block; 3 Min. Walk
24	Hilton San Diego Mission Valley 901 Camino del Rio South; Phone: (619) 543-9000 Fax: (619) 543-9358		9 Miles; 15 Min. Drive
16	Hilton San Diego Resort 1775 E. Mission Bay Drive; Phone: (619) 276-4010 Fax: (619) 275-7992		8 Miles; 15 Min. Drive
31	Holiday Inn Express Old Town 3900 Old Town Avenue; Phone: (619) 299-7400 Fax: (619) 299-1619		5 Miles; 8 Min. Drive
23	Holiday Inn Harbor View 1617 First Avenue; Phone: (619) 239-9600 Fax: (619) 233-6228		15 Blocks; 5 Min. Drive
18	Holiday Inn on the Bay 1355 North Harbor Drive; Phone: (619) 232-3861 Fax: (619) 232-4924		1 Mile; 5 Min. Drive
34	Holiday Inn San Diego Bayside 4875 North Harbor Drive; Phone: (619) 224-3621 Fax: (619) 224-3629		1 Mile; 5 Min. Drive
41	Holiday Inn Select San Diego 595 Hotel Circle; Phone: (619) 291-5720 Fax: (619) 297-7362		9 Miles; 15 Min. Drive
20	Horton Grand Hotel 311 Island Avenue; Phone: (619) 544-1886 Fax: (619) 544-0058		2 Blocks; 5 Min. Walk
40	Humphrey's Half Moon Inn & Suites 2303 Shelter Island Drive; Phone: (619) 224-3411 Fax: (619) 224-3478		6 Miles; 11 Min. Drive
10	Hyatt Regency Islandia 1441 Quivira Road; Phone: (619) 224-1234 Fax: (619) 221-4241		8 Miles; 15 Min. Drive
49	Kings Inn Hotel 1333 Hotel Circle South; Phone: (619) 297-2231 Fax: (619) 296-5255		9 Miles; 15 Min. Drive
15	Loews Coronado Bay Resort 4000 Coronado Bay Road; Phone: (619) 424-4000 Fax: (619) 424-4400		6 Miles; 10 Min. Drive
1	Manchester Grand Hyatt One Market Place; Phone: (619) 232-1234 Fax: (619) 233-6464	**Co-headquarter hotel**	2 Blocks; 5 Min. Walk
44	Mission Valley Resort (formerly the Quality Resort Hotel) 875 Hotel Circle South; Phone: (619) 298-8282 Fax: (619) 295-5610		9 Miles; 15 Min. Drive
7	Omni San Diego Hotel 675 L Street; Phone: (619) 231-6664 Fax: (619) 231-8060		2 Blocks; 5 Min. Walk

HOTEL NO.	HOTEL ADDRESS, PHONE, & FAX NUMBERS	# OF BLOCKS FROM CONVENTION CENTER HALL F
11	Prava Hotel 911 5th Avenue; Phone: (619) 233-3300 Fax: (619) 233-0340	8 Blocks; 10 Min. Walk
39	Quality Inn & Suites Downtown Harborview 1430 7th Avenue; Phone: (619) 696-0911 Fax: (619) 234-9416	1.5 Miles; 20 min. Walk
21	Radisson Hotel Harbor View 1646 Front Street; Phone: (619) 239-6800 Fax: (619) 238-9461	14 Blocks; 5 Min. Drive
33	Radisson Hotel San Diego 1433 Camino del Rio South; Phone: (619) 260-0111 Fax: (619) 497-0813	9 Miles; 15 Min. Drive
51	Ramada Plaza Hotel Circle 2151 Hotel Circle South; Phone: (619) 291-6500 Fax: (619) 294-7531	5 Miles; 8 Min. Drive
38	Red Lion Hanalei Hotel 2270 Hotel Circle North; Phone: (619) 297-1101 Fax: (619) 297-6049	9 Miles; 15 Min. Drive
22	Residence Inn by Marriott-San Diego 1747 Pacific Highway; Phone: (619) 338-8200 Fax: (619) 338-8219	7 Blocks; 12 Min. Walk
2	San Diego Marriott Hotel & Marina 333 West Harbor Drive; Phone: (619) 234-1500 Fax: (619) 234-8678	**Co-headquarter hotel** Adjacent to Convention Center
26	San Diego Marriott Mission Valley 8757 Rio San Diego Drive; Phone: (619) 692-3800 Fax: (619) 692-0769	9 Miles; 15 Min. Drive
19	Shelter Pointe Hotel & Marina 1551 Shelter Island Drive; Phone: (619) 221-8000 Fax: (619) 221-5953	5 Miles; 15 Min. Drive
9	Sheraton Suites San Diego 701 A Street; Phone: (619) 696-9800 Fax: (619) 696-1555	14 Blocks; 5 Min. Drive
30	Town and Country Resort 500 Hotel Circle North; Phone: (619) 291-7131 Fax: (619) 291-3584	9 Miles; 15 Min. Drive
14	U.S. Grant Hotel 326 Broadway; Phone: (619) 232-3121 Fax: (619) 232-3626	7 Blocks; 12 Min. Walk
3	W San Diego Hotel 421 West B Street; Phone: (619) 231-8220 Fax: (619) 231-3059	7 Blocks; 12 Min. Walk
13	Westgate Hotel 1055 Second Avenue; Phone: (619) 238-1818 Fax: (619) 557-3737	7 Blocks; 12 Min. Walk
4	Westin Horton Plaza 910 Broadway Circle; Phone: (619) 239-2200 Fax: (619) 239-0509	5 Blocks; 10 Min. Walk
12	Wyndham San Diego at Emerald Plaza 400 West Broadway; Phone: (619) 239-4500 Fax: (619) 239-2374	7 Blocks; 12 Min. Walk

San Diego Area Map

1 Manchester Grand Hyatt
2 San Diego Marriott Hotel & Marina
3 W San Diego Hotel
4 Westin Horton Plaza
5 Hilton San Diego Gaslamp Quarter
6 Coronado Island Marriott Resort
7 Omni San Diego Hotel
8 Embassy Suites Hotel San Diego Bay
9 Sheraton Suites San Diego
10 Hyatt Regency Islandia
11 Prava Hotel
12 Wyndham San Diego at Emerald Plaza
13 Westgate Hotel
14 US Grant Hotel
15 Loews Coronado Bay Resort
16 Hilton San Diego Resort
17 Hilton San Diego Airport/Harbor Island
18 Holiday Inn on the Bay
19 Shelter Pointe Hotel & Marina
20 Horton Grand Hotel
21 Radisson Hotel Harborview
22 Residence Inn by Marriott- San Diego Downtown
23 Holiday Inn Harbor View
24 Hilton San Diego Mission Valley
25 DoubleTree Hotel San Diego, Mission Valley
26 San Diego Marriott Mission Valley
27 Best Western Bayside Inn
28 Bristol Hotel
29 Dana Inn on Mission Bay
30 Town and Country Resort
31 Holiday Inn Express Old Town
32 Bay Club Hotel and Marina
33 Radisson Hotel San Diego
34 Holiday Inn San Diego Bayside
35 Doubletree Club Hotel
36 Hacienda Hotel Old Town San Diego
37 Hampton Inn by Hilton San Diego Downtown
38 Red Lion Hanalei Hotel
39 Quality Inn and Suites Downtown Harborview
40 Humphrey's Half Moon & Suites
41 Holiday Inn Select San Diego
42 Comfort Suites Mission Valley
43 Handlery Hotel and Resort
44 Mission Valley Resort (formerly the Quality Resort Hotel)
45 Comfort Inn & Suites Zoo/Sea World Area
46 Comfort Inn and Suites Hotel Circle
47 Comfort Inn Downtown
48 Best Western Seven Seas
49 Kings Inn Hotel
50 Days Inn Hotel Circle
51 Ramada Plaza Hotel Circle





Exhibitor List

www.sfn.org/exhibits

21st Century Biochemicals, LLC
4-D Neuroimaging
A.M.P.I.
Abgent
AC Scientific, Inc.
Academia Book Exhibits
Accerlys
AccuScan Instruments, Inc.
Active Motif
ADInstruments
Advanced Medical Technology, Inc. (AMTI)
Advanced Targeting Systems
ALA Scientific Instruments
Alembic Instrument
Algos Therapeutics
ALPCO Diagnostics
Alpha Diagnostic International
Alpha Innotech Corporation
Alpha MED Sciences Co., Ltd
Alpha Omega Co. USA, Inc.
ALS Association
ALS Therapy Development Foundation
ALZET® Osmotic Pumps/DURECT Corp.
Alzheimer Research Forum
Alzheimer's Association
A-M Systems
Amaxa GmbH
Ambion, Inc.
American Society for Pharmacology & Experimental Therapeutics (ASPET)
American Biotechnology Laboratory
American Peptide Company
American Physiological Society
American Psychiatric Publishing, Inc.
American Psychological Association
American Qualex
American Radiolabeled Chemicals, Inc.
Amresco, Inc.
AnaSpec, Inc.
Andor Technology
Animal Identification and Marking Systems, Inc.
Antec Leyden bv.
Apogee Instruments, Inc.
Apple Computer
Applied Biosystems
Applied Science Laboratories
Aquatic Habitats
Arrington Research, Inc.
ASI/Applied Scientific Instrumentation
Assay Designs, Inc.
ATCC
Atto Bioscience
AutoMate Scientific, Inc.
AutoQuant Imaging
Aves Labs, Inc.
Avotec, Inc.
Axon Instruments
Axxora-ALEXIS Biochemicals
BACHEM
Bak Electronics, Inc.
Barnstead International
BASi/Bioanalytical Systems, Inc.
BD Biosciences
Bentham Science Publishers, Ltd.
Berthold Detection Systems
Biacore, Inc.
Billups-Rothenburg, Inc.
BIOBSERVE
BioElectroSpec
BioFX Laboratories, Inc.
BioGenex Laboratories
Biognostik GmbH
Biographics, Inc.
Bioline USA, Inc.
Biological Test Center
Biologix Research Company
BioMed Central
Biomeda
Biomedical Informatics Research Network (BIRN)
Biomedical Research Instruments
Biomol International, LP
BIOPAC Systems, Inc.
Biophotonics International
BIOQUANT Image Analysis Corp.
Bio-Rad Laboratories
Bioscan, Inc.
Bioscience Tools
Bio-Serv
BioSource International, Inc.
Bio-Synthesis, Inc.
BioTechniques-Eaton Publishing
BIOTREND Chemicals, Inc.
BioVision, Inc.
Bitplane
Blackwell Publishing
Bluetooth EMG
BMG Labtech, Inc.

Brady Corporation
Brain and Tissue Bank for Developmental Disorders
BrainBits, LLC
Brandel
BrandTech Scientific
Brinkmann Instruments, Inc.
British Neuroscience Association
Bruker Daltonics
BTX / Harvard Apparatus
Buck Scientific
Cambrex
Cambridge Electronic Design Ltd.
Cambridge University Press
Campden Instruments Ltd.
Carl Zeiss MicroImaging, Inc.
Cayman Chemical Company
Cedarlane Laboratories Ltd.
Cedrus Corporation
Cell MicroControls LLC
Cell Signaling Technology
Cell Technology, Inc.
Cellectricon
Cerebricon Ltd.
CEREP, Inc.
Charles River Laboratories
Charnwood Dynamics Ltd.
Chemicon International, Inc.
Christopher Reeve Paralysis Foundation
Chroma Technology Corp.
Chronos Vision
CIHR-Institute, Neurosciences, Mental Health, Addiction
Ciphergen Biosystems, Inc.
CleveMed
Clever Sys., Inc.
Clinomics Biosciences
CMA/Microdialysis
Coherent
Cold Spring Harbor Laboratory Press
Columbus Instruments
Compix Inc., Imaging Systems
Compumedics Neuroscan
COOKE Corporation
Corning Incorporated
Coulbourn, Inc.
Covance Research Products
Coy Laboratory Products
CRC Press c/o Taylor & Francis Books, Inc.
Crist Instrument Co., Inc.
CTI Molecular Imaging
Cure Autism Now Foundation
CWE Inc.
Cyberkinetics, Inc.
Cygnus Technology, Inc.
CYTOCENTRICS CCS
Cytomyx Holdings
Dagan Corporation
Dage-MTI of MC, Inc.
Dana Press
Data Integrated Scientific Systems
Data Sciences International
DataWave Technologies
David Kopf Instruments
Delaware Diamond Knives, Inc.
Dharmacon, Inc.
Diatome U.S.
Digitimer Ltd.
Dionex Corporation
Discovery Technology International
Diversity in Neuroscience
DOES Institute
Dongwoo Optron
Dragonfly Research & Development, Inc.
Drummond Scientific Co.
DVC Company
dXOR, Inc.
Dynamic Microsystems, Inc.
Dystonia Medical Research Foundation
EICOM Corporation
Electrical Geodesics, Inc.
Electron Microscopy Sciences
Elsevier
EMD Biosciences
Empix Imaging Inc.
EPICENTRE
ESA, Inc.
EXFO Burleigh Products Group
Fabreeka International, Inc.
Faculty for Undergraduate Neuroscience/FUN
Faxitron X Ray Corp.
FEI Company
FHC, Inc.
Fine Science Tools
Fisher Scientific
flyion GmbH
Fogarty International Center
Foundation for Biomedical Research (FBR)
FRAXA - Fragile X Research Foundation

FUJIFILM Medical Systems USA, Inc.
Gatan, Inc.
GBC Separations, Inc.
GE Healthcare
Gene Therapy Systems, Inc.
Gene Tools, LLC
GeneChoice, Inc.
GeneCopoeia, Inc.
GeneSifter
Genetix
GenHunter Corporation
Genisphere, Inc.
Genomics One International
Genospectra
GenUs Biosystems
George Tiemann & Co.
German Genome Research Network
German Graduate Schools of Neuroscience
GraphPad Software, Inc.
Grass, An Astro-med, Inc., Product Group
Greiner Bio-One, Inc.
Hamamatsu Photonic Systems
Hamilton Company
Hamilton-Kinder, LLC
Harlan Bioproducts for Science
Harlan Teklad
Harvard Apparatus
Harvard University Press
HEKA Electronics Inc.
Hilltop Lab Animals, Inc.
Human Brain & Spinal Fluid Resource Center
Human Embryonic Stem Cell Culture Training Course
Humana Press, Inc.
Huntington's Disease Society of America
HyClone
Icon Learning Systems
IITC Inc./Life Science
IMGENEX Corporation
Immuno-Biological Laboratories, Inc. (IBL America)
Immunochemistry Technologies, LLC
IMT(Image & Microscope Technology)
IN/US Systems, Inc.
INDEC BioSystems
Ingenium Pharmaceuticals
Innovative Microplate
Innovision Systems, Inc.
Inotech Biosystems International
Instech Solomon
Institute for Laboratory Animal Research
Instrutech Corporation
Integra
Integrated DNA Technologies
Intelligent Imaging Innovations, Inc.
International Behavioral Neuroscience Society
International Brain Research Organization (IBRO)
International Rett Syndrome Association
International Society for Neurochemistry
International Spinal Research Trust
Intracellular Imaging, Inc.
Invitrogen
Ionics Instrument Business Group
IOP Publishing, Inc.
ISC BioExpress
ISI ResearchSoft
IWorx/CB Sciences
Jackson ImmunoResearch Labs, Inc.
JEOL USA, Inc.
JustGarciaHill.org and Hunter College Gene Center
Juvenile Diabetes Research Foundation International
Karger Publishers
KD Scientific
Kent Scientific Corporation
KeyNeurotek AG
KINARM
Kinetic Systems
Kinexus Bioinformatics Corporation
Kissei America, Inc.
Kodak Scientific Imaging Systems
KPL, Inc.
Lab Vision Corporation
Labcon
Labnet International, Inc.
Lafayette Instrument Company, Inc.
Lampire Biological Laboratories, Inc.
Leica Microsystems
LI-COR Biosciences
LightForm, Inc
LINCO Research
Lippincott Williams & Wilkins
List Biological Laboratories
LKC Technologies, Inc.
LKT Laboratories, Inc.
Locus Technology, Inc.

Lohmann Research Equipment

Luigs & Neumann Feinmechanik und Elektrotechnik GmbH

Man-Tech Associates, Inc.

Marine Biological Laboratory

Marine Biotech, Inc.

Matrix Technologies Corp.

Mauna Kea Technologies

Mayo Graduate School Molecular Neuroscience Program

MBL International

McGraw-Hill Medical Publishing

MED Associates

Medcare

Media Cybernetics, Inc.

Mediomics, LLC

Melles Griot

Meso Scale Discovery

Metris b.v.

MicroBrightField, Inc.

Microdata Instrument, Inc.

Millipore

Miltenyi Biotec, Inc.

Mindware Technologies, Ltd.

Mini Mitter Co., Inc.

Mo Bio Laboratories, Inc.

Molecular Devices Corp.

Molecular Machines & Industries Inc.

Moor Instruments, Inc.

Motic Instruments, Inc.

Motion Analysis

MP Biomedicals

MRI Devices Corporation

Multi Channel Systems MCS GmbH

MWG Biotech Inc.

myNeurolab.com

Narishige

National Alzheimer's Coordinating Center

National Ataxia Foundation

National Center for Biotechnology Information (NCBI)

National Center for Complimentary and Alternative Medicine (NCCAM)

National Center for Research Resources (NCRR)

National Center on Sleep Disorders Research (NCSDR)

National Eye Institute, NIH (NEI)

National Institute of Child Health and Human Development (NICHD)

National Institute of Dental and Craniofacial Research (NIDCR)

National Institute of General Medical Sciences (NIGMS)

National Institute of Mental Health (NIMH)

National Institute of Neurological Disorders & Stroke (NINDS)

National Institute on Aging (NIA)

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

National Institute on Deafness and Other Communication Disorders (NIDCD)

National Institute on Drug Abuse (NIDA)

National Institutes of Health (NIH)

National Institutes of Health, Office of Extramural Research

National Instruments

National Parkinson Foundation

National Research Council of the National Academies

National Science Foundation

National Spasmodic Dysphonia Association

Nature Publishing Group

Navitar

NDI

Neogen Corporation

Nerac

Neural Arts, Inc.

Neuralynx, Inc.

Neuro Investigations, Inc.

Neurobehavioral Systems, Inc.

NeuroCom International

Neurological Testing Service, Inc.

Neuromice.org

Neuromorphometrics, Inc.

NeuroNexus Technologies

NeuroScience Associates

Neurostructural Research Labs

New England Biolabs

New England Peptide, Inc.

New York Academy of Sciences

NewBehavior

NIH Center for Scientific Review

Nikon Instruments, Inc.

NIMH Human Brain Project

NINDS NIMH Microarray Consortium

Noldus Information Technology

Noraxon U.S.A., Inc.

Novascreen Biosciences Corp.

Novus Biologicals, Inc.

npi electronic GmbH

Nuaire, Inc.
NuGEN
NUNC Brand Products
Olympus America, Inc.
Omega Optical
OMEGAWAVE, Inc.
Omni International, Inc.
Open Biosystems
Optical Imaging, Inc.
Optical Insights, LLC
Optronics
Orbigen, Inc.
OriGene
OriginLab Corporation
Oxford Biomedical Research
Oxford University Press
Oxis International, Inc.
Pacer Scientific
Panlab, S.L.
Parents of Infants and Children with Kernicterus
Peak Performance Technologies, Inc.
PeproTech, Inc.
Peptides International
Perimed, Inc.
PerkinElmer Life and Analytical Sciences
Pharmidex
Phoenix Pharmaceuticals
PhoeniX Technologies Incorporated
PhosphoSolutions
Photometrics
Photon Technology International, Inc.
Photonic Instruments
Phylogeny, Inc.
Physitemp Instruments
Pierce Biotechnology, Inc.
Pinnacle Technology, Inc.
Plastics One, Inc.
Plexon, Inc.
Proceedings of the National Academy of Sciences (PNAS)
Point Source
Popper & Sons, Inc.
Prairie Technologies, Inc.
Prior Scientific
Promega Corporation
PsychoGenics, Inc.
Psychology Software Tools/Brain Innovation
Purina Mills - TestDiet
QED Bioscience, Inc.
QIAGEN Inc.
QImaging
Quantum Dot Corporation
Quintiles
R&D Systems, Inc.
R. C. Electronics, Inc.
Rainin Instrument, LLC
Rapp OptoElectronic GmbH
Rat Genome Database
Razel Scientific Instruments, Inc.
Re Cath Co. LLC
RedShirtImaging, LLC
Reed Business Information/Life Science
Research & Diagnostic Antibodies
Research Diets, Inc.
Research Organics, Inc.
Research Products International Corp.
Resonance Technology, Inc.
Restless Legs Syndrome Foundation
Richard-Allan Scientific
Richardson Technologies, Inc.
RIKEN Brain Science Institute
Riverbend Instruments, Inc.
Robomedica, Inc.
Roboz Surgical Instrument Co., Inc.
Rocky Immunochemicals, Inc.
Rocky Mountain Diagnostics, Inc.
Rogue Research, Inc.
rPeptide
RUN Technologies
S.R. Research, Ltd.
SAGE Publications
Salimetrics, LLC
San Diego Instruments, Inc.
Sarstedt Inc.
Scanalytics, Inc.
Schleicher & Schuell BioScience, Inc.
SCIENCE/AAAS
ScienceJobs.com/*New Scientist*
Scienteur
Scientifica Limited
SciMedia
SciPro
Semrock, Inc.
SensoMotoric Instruments
Serotec
Sigma-Aldrich
Signet Laboratories
Silk Scientific, Inc.

Sinauer Associates, Inc., Publishers
Siskiyou Design Instruments
SkeleTech, Inc.
Society for Neuroscience
Society for the Study of Ingestive Behavior
Soft Imaging System
Solamere Technology Group
Sophion Bioscience A/S
Source Signal Imaging, Inc.
Southern Biotech
Spectra-Physics
SPEX Fluorescence (JY)
Spider Pharm
Spinal Muscular Atrophy Foundation
SPOT-Diagnostic Instruments, Inc.
Spotfire, Inc.
Springer
SRI International
St Jude Children's Research Hospital
StemCell Technologies, Inc.
STI - Signal Transduction Products
Stoelting Co.
Stovall Life Science
Stratagene
Strategic Applications
Strategic Biosolutions
SuperArray Bioscience Corporation
SurgiVet, a division of Smiths Medical PM, Inc.
Sutter Instrument Company
Synergy Software
Synpep Corporation
Synthecon, Incorporated
SYSTAT SOFTWARE
Taconic
TauTec LLC
Taylor-Wharton/Harsco GFC
Technical Manufacturing Corporation
Ted Pella, Inc.
TEF Labs
Thales Optem
The Company of Biologists Ltd.
The Jackson Laboratory
The Journal of Neuroscience
The MIT Press
The National Alliance for Autism Research
The Scientist
The Society for Progressive Supranuclear Palsy
The Vibratome Company
Thermo Electron Corporation
Thomas RECORDING GmbH
TILL Photonics LLC
TNA-Trigeminal Neuralgia Association
Tocris
Tokai Hit Co., Ltd.
TOMTEC, Inc.
Tomy Tech
Toohey Company
TSE Systems
Tucker-Davis Technologies
Turner BioSystems
U.S. Genomics
University of Iowa Neuroscience Graduate Program
Upstate
USA Scientific, Inc.
USB Corporation
USDA/Animal Welfare Information Center
UVP, Inc.
Varian, Inc.
VayTek, Inc.
Vector Laboratories, Inc.
Vicon Motion Systems, Inc.
ViewPoint Life Sciences Inc.
Vision BioSystems
Vision Research Graphics, Inc
VisiTech International Ltd
VSM MedTech/CTF Systems
VWR International
Wako Laboratory Chemicals
Warner Instruments
WaveMetrics, Inc.
Wheaton Science Products
Wiley
Wireless Neural Headstages: Triangle BioSystems
Women in Neuroscience (WIN)
World Precision Instruments, Inc. (WPI)
Worth Publishers
Worthington Biochemical Corporation
You Ltd.
Zymed Laboratories, Inc.

Attendee Resources

visit us at www.sfn.org/resources

- Resources for Attendees & Guests
- Speaker Resources
- Hotel Floor Plans
- Convention Center Floor Plans
- Council and Program Committee

Resources for Attendees and Guests

www.sfn.org/resources

Abstracts CD-ROM/Itinerary Planner/Viewing Room

The Itinerary Planner/Abstracts CD-ROM will contain the full text of abstracts and will allow attendees to plan an itinerary for Neuroscience 2004 in San Diego. The electronic Abstracts will be available in three Web-based formats. An on-site viewing area for previewing and using the CD-ROM will be available in Hall A of the convention center. The paper Abstracts volumes are no longer produced.

Annual Meeting Offices

Annual Meeting Headquarters Office—Logistics and Programming
San Diego Convention Center
Sails Pavilion
Hours:
Friday – Saturday, October 22 – 23
9 a.m. – 5 p.m.
Sunday – Wednesday, October 24 – 27
7:30 a.m. – 5 p.m.
The Logistics Office addresses all questions concerning annual meeting logistics and advance registration. The Programming Office addresses questions concerning sessioning information for slide/poster sessions, symposia, lectures, and socials for the 2004 and 2005 annual meetings.

Society Executive Meeting Room
San Diego Convention Center
Room 16A, Mezzanine Level
Hours:
Saturday, October 23
noon – 5 p.m.
Sunday – Wednesday, October 24 – 27
8 a.m. – 5 p.m.
The Society Executive Meeting Room addresses matters of Council, committees, and past presidents.

Press Room
San Diego Convention Center
Room 15A, Mezzanine Level
Hours:
Saturday, October 23 – Wednesday, October 27
8 a.m. – 5 p.m.
Members of the press must register and pick up their badges in the Press Room.

Annual Meeting Program

San Diego Convention Center
Sails Pavilion
Advance registrants residing in North America opting to pick up on-site and registrants residing elsewhere who did not order a mailed publication may pick up their program during registration hours in the Convention Center, Sails Pavilion.

Annual Meeting T-shirts

San Diego Convention Center
Commemorative T-shirts and merchandise for SfN's 34th Annual Meeting will be available for sale on-site in the Society for Neuroscience booth in the Exhibit Hall, Booth 2114. You may also purchase SfN mugs, polo shirts, and additional merchandise online at www.sfn.org/ads.

Business Service Center/ ATM Machines

San Diego Convention Center
Hall A Lobby
A business center, located in the Convention Center Lobby outside of Hall A, will provide complete business services for a fee, including copy and fax services. There are ATM machines located in the lobbies of the Convention Center. The San Diego Marriott Hotel and Marina and Manchester Grand Hyatt San Diego also operate full-service business centers.

Child-Care Arrangements

Please check with your hotel's concierge or front desk for names of sitters who will provide care in your hotel room. Parents and guardians are required to perform their own reference checks and arrange child care independently. The Society for Neuroscience is not responsible for child care or for the quality of care given.

Climate/Weather

During October in San Diego, the average annual temperature is 70 degrees Fahrenheit (20 degrees Celsius), and the typical day is sunny and mild with low humidity. You'll rarely need a topcoat or raincoat. However, evenings are almost always cool, so be sure to bring a sweater. Meeting rooms may be chilly and the temperature is often difficult to adjust. It is recommended that you bring a light sweater or jacket to ensure your comfort.

Coat Check

Limited space will be available for coat check on a first-come, first-serve basis in the Convention Center, Saturday – Wednesday, October 23 – 27.

Directory of Registrants

The directory of registrants has been combined with the message center.

Disabilities and Special Needs

If you have a disability or a special need that may have an impact on your participation in the annual meeting, **please check the appropriate box on the Registration Form** and append a statement regarding your disability-related needs. SfN staff will contact you prior to the annual meeting to discuss your requirements. The Society cannot ensure the availability of appropriate accommodations without prior notification of need.

For specialized services, please contact: Accessible San Diego at (858) 279-0704, by e-mail at mail@accessandiego.org, or visit their Web site at www.accessandiego.org. Accessible San Diego is a member of the San Diego Convention and Visitors Bureau. If you wish to speak with someone directly, please contact Sharon Kerley Bowles by phone (202) 462-6688, fax (202) 462-2937, or e-mail at sharon@sfn.org.

Event Locations

SfN-SPONSORED EVENTS WILL BE HELD AT THE FOLLOWING LOCATIONS:

Daytime and evening lectures, exhibits, scientific sessions, symposia, minisymposia, poster sessions, socials, registration, and headquarters offices will be located in the San Diego Convention Center. Satellite and Ancillary events will be held at the San Diego Convention Center, San Diego Marriott Hotel & Marina, Manchester Grand Hyatt San Diego, and other San Diego facilities.

San Diego Convention Center
111 W. Harbor Drive
San Diego, CA 92101

Manchester Grand Hyatt San Diego
One Market Place
San Diego, CA 92101

San Diego Marriott Hotel & Marina
333 W. Harbor Drive
San Diego, CA 92101

Exhibits

San Diego Convention Center
Exhibit Halls A – H

HOURS:
Sunday – Wednesday, October 24 – 27
9:30 a.m. – 5 p.m.

Exhibits are an integral part of the Society's annual meeting. They provide an opportunity to learn about the latest products, publications, and services available. This *Program* includes a preliminary list of exhibitors. The *2004 Guide to Exhibits* will include information on exhibiting companies and a cross-referenced listing of companies by type of product exhibited. The guide will be distributed on-site at each entrance to the Exhibit.

Your badge will double as a name badge and an exhibit inquiry card. Attendees' demographic information will be encoded onto the front of their badge. E-mail addresses will only be included if the attendee has selected the option box when registering. Council encourages all annual meeting attendees to present their badge at each exhibit booth they visit. Exhibitors determine the success of their participation in the annual meeting by the number of leads they accumulate from attendees visiting their exhibit booths. We appreciate your cooperation– a successful exhibit program helps defray the cost of running the annual meeting and keeps registration fees to a minimum.

For further information, please visit the Exhibit section of the SfN Web site at www.sfn.org/exhibits or contact:

The Herlitz Company
1890 Palmer Avenue, Suite 202A
Larchmont, NY 10538-3031
(914) 833-1979
info@herlitz.com
The on-site exhibit management office is located in Lobby D of the Convention Center. The on-site telephone number is (619) 525-6230.

First Aid and Emergencies

San Diego Convention Center
Lobby C

The first aid room will be open and staffed by an ACLS-certified RN and/or paramedic during session hours. The in-house phone extension for the first aid room is 6295. If dialing from outside the convention center, the telephone number is (619) 525-6295.

Food Service

San Diego Convention Center
Catering to You!

Visit the Food Court under the Sail on the upper level, featuring international cuisine, open daily 7 a.m. – 5 p.m. The Exhibit Hall will feature Café Express. For extra energy, specialty carts set up throughout the convention center will include Starbucks, Krispy Kreme Doughnuts, Mrs. Fields Cookies, and more!

Graduate Student and Postdoctoral Fellow Reception

San Diego Marriott Hotel and Marina
Marina Ballroom
Tuesday, October 26
9 p.m.- midnight

A reception will be held for graduate students and postdoctoral fellows on Tuesday, October 26, 9 p.m. – midnight. Hors d'oeuvres and entertainment will be provided.

Guest Hospitality Room

San Diego Convention Center
Room 12, Mezzanine Level

HOURS:
Saturday, October 23
1 – 4 p.m.
Sunday – Wednesday, October 24 – 27
9 a.m. – 4 p.m.

The Guest Hospitality Room will be open to all guest registrants (nonscientist family members and guests of scientists) during the hours above. Information about tours, shopping, and restaurants in the San Diego area will be available.

The guest registration fee includes a badge, admittance to the registration area, and social events. Guests are not admitted to the scientific events (including poster and slide sessions and the exhibit area) unless special permission is granted by the Society's central office. Permission is granted for one day or two half-days only. Guests are required to pick up a guest pass in the SfN Headquarters Office, located in the Sails Pavilion of the San Diego Convention Center.

Important Phone Numbers

San Diego Convention Center
Dial direct to the following locations:

Annual Meeting Services
HQ Office/Logistics: Sails Pavilion
(619) 525-6200
HQ Office/Programming: Sails Pavilion
(619) 525-6210
Society Executive Meeting Room: Room 16A
(619) 525-6270
Message Center: Lobby A, D, and G
(619) 525-6290
Press Room: Room 15A
(619) 525-6250
Exhibit Management: Lobby D
(619) 525-6230

First Aid and Hospital Numbers

First Aid Room: (619) 525-6295
First Aid Room In-House Phone:
ext. 6295 (when dialing from inside the convention center)

Scripps Mercy Hospital
4077 5th Avenue
Phone: (619) 294-8111

Infant Changing Facilities

San Diego Convention Center
Room 13, Mezzanine Level

Room 13, on the Mezzanine Level of the convention center, is designated for the privacy of parents and guardians caring for infants. This room will be unsupervised and will be equipped with the following: chairs and tables in private areas for changing diapers or nursing, as well as electricity and a water cooler (room temperature). Parents and guardians are responsible for providing infant care supplies, such as lotions and powders, baby wipes, diapers, and changing pads. The Society is not responsible for accidents or injuries that may occur in this room.

International Attendees

International attendees should refer to the SfN Web site www.sfn.org/visainfo for more information regarding visas.

Literature Displays

San Diego Convention Center
Sails Pavilion

Keep your eyes open for important annual meeting event updates on displays in the registration area of the Convention Center, Sails Pavilion. Approval must be granted prior to placing any announcement on the displays. Attendees may obtain approval prior to the meeting by e-mailing meetings@sfn.org, or on-site in the HQ-Logistics Office.

Local Attractions and Restaurant Reservations

San Diego Convention Center
Lobby B

A restaurant reservations desk will be located in the convention center, Lobby B. Maps and information on entertainment, sightseeing, and shopping will also be available at this desk. Appreciation is extended to the San Diego Convention and Visitors Bureau for providing this complimentary service.

Open October 23 – 27 during the following hours:

Saturday	noon – 5 p.m.
Sunday – Wednesday	9 a.m. – 5 p.m.

Lost and Found

San Diego Convention Center
Sails Pavilion

Inquiries concerning lost items may be made at the HQ/Logistics Office located in the San Diego Convention Center, Sails Pavilion.

Luggage Storage

A space in the convention center will be available for luggage storage on Wednesday, October 27, only. Space will not be available Saturday – Tuesday, October 23 – 26. Please do not bring luggage into the meeting rooms.

Message Center

San Diego Convention Center
Lobby A, D, and G

HOURS:
Friday, October 22
2 – 7 p.m.
Saturday – Tuesday, October 23 – 26
7 a.m. – 7 p.m.
Wednesday, October 27
7 a.m. – 5 p.m.

SfN will provide a computerized message center for Neuroscience 2004 attendees wearing their badges. One main message station will be located in Lobby D and two satellite Message Center stations will be located in Lobby A and G of the San Diego Convention Center. Television monitors adjacent to the Message Center will scroll the names of the attendees who have unread messages. Please check the monitors daily.

NEW THIS YEAR Extended message center hours. In response to attendee requests, the message center will remain open until 7 p.m., rather than closing at 5 p.m. Also new this year is that the Message Center will include

the Directory of Registrants. It will no longer be necessary to go to two different counters to first find a colleague and then send a message at a different counter.

You will need to provide your last name and your badge number to log into the Message Center. Once logged in, you can find a colleague who may be attending the meeting, read new or old messages, or send a new message to another registered attendee. Colleagues who wish to reach you during the day can leave a message, starting on Friday, October 22. To leave a message, please call (619) 525-6290 during the hours of registration.

Attendees will again be able to send and retrieve messages from the Message Center remotely, from outside the Convention Center, through the Society's Web site. The ability to access the message center remotely will begin Friday, October 22, and end on Wednesday, October 23, at 5 p.m. To retrieve or send messages remotely, go to the Society's Web site, www.sfn.org/am2004 and click on the message center link located on the lower right side of the page. This will bring you to the log-in screen where you must enter your last name and badge number. Once logged into the Message Center, the screens and functionality are the same as if you were in the Convention Center.

Photography and Electronic Recording Restrictions

Photography, video, filming, tape recording, and all other forms of recording are prohibited during the slide and poster sessions, special lectures, symposia, minisymposia, courses, workshops, and on the exhibit floor. Such recording is permitted only during press conferences. Other arrangements must be made in advance in the Press Room with Joseph Carey, the Society's senior director of communications and public affairs. For arrangements to photograph the exhibit floor, please contact:

The Herlitz Company
1890 Palmer Avenue, Suite 202A
Larchmont, NY 10538-3031
(914) 833-1979
info@herlitz.com
Phone: (619) 525-6230 (on-site)

SfN/ANDP Student Hospitality Suite

San Diego Convention Center
Room 4

Sponsored by the Society for Neuroscience and the Association of Neuroscience Departments and Programs

Hours:

Saturday, October 23
1 – 5 p.m.
Sunday – Wednesday, October 24 – 27
8 a.m. – 5 p.m.

Room 4 will be available in the convention center for student registrants. The room provides an area for relaxing and reading and a place to meet your friends and colleagues. A message board will provide information pertinent to the current SfN meeting.

Society for Neuroscience Booth

Booth 2114, Hall D

The SfN Booth will be located in the center of the Exhibit Hall at Neuroscience 2004. This booth will enable members to pick up a copy of the *Brain Awareness Week Report*, meet with the editorial board and staff of *The Journal of Neuroscience*, speak with a representative of the Membership Department, purchase annual meeting T-shirts for friends and family, and meet for a discussion with your new mentor or mentee. Open during exhibit hours, the booth also contains:

Educational Resources

Stop by for information produced by SfN for use in public educational programs. Resource materials for Brain Awareness Week and other outreach materials will be available. Get ideas for enhancing awareness about both neuroscience and the implications of recent neuroscience research.

Membership Information and Merchandise

Stop by the SfN booth for information on Society membership, publications, resources, and programs. A variety of commemorative T-shirts and merchandise will also be available at the booth. **NOTE:** *The History of Neuroscience in Autobiography* volumes and the autobiographical videotape series are available through Elsevier. For your convenience, membership staff will be on-site to answer questions and handle dues payments, address changes, and other membership matters.

The Journal of Neuroscience

The Journal of Neuroscience, now published weekly, is the official journal of the Society for Neuroscience and features more than 10,000 pages annually of important advances in areas including molecular and cellular; development, plasticity and repair; behavioral, systems, cognitive; and neurobiology of disease. Visit *The Journal* booth and meet members of *The Journal's* editorial board and editorial staff. Take this opportunity to view *The Journal* online and receive a demonstration of its features, including full-text and graphics, browse and search capabilities, links to Medline, GenBank, online submission system, and more.

SfN Women's Careers in Neuroscience Mentoring Booth

The Society's Committee on the Development of Women's Careers in Neuroscience is pleased to continue the mentoring program. The SfN booth will feature a lounge area so that mentors and mentees may meet throughout the meeting to discuss career goals.

Speaker Resources

www.sfn.org/resources

Audiovisual Information

Slide Sessions, Symposia, Minisymposia, and Special Lectures

Basic audiovisual equipment

New This Year! Only computer projection will be set up in session rooms; 35-mm slide projectors will not be provided unless specifically requested in advance. One data/video projector, one PC computer with Windows-readable ZIP (250 MB), CD-ROM, floppy disk drives, an open USB port for USB Flash Drives, one screen, and two projectionists will be available in each session room. Macintosh users should note that Macs can write a PC-formatted readable USB Flash Drive, ZIP disk, and CD-ROM. Software that will be available in each session room will be PowerPoint 2003 and Adobe Acrobat (PDF file-based). Presenters using other software (ex: Mac-Keynote or PC-Corel Draw 12) should save their presentations in PowerPoint 2003 or Adobe Acrobat. Presenters should also remember to include the extension (.ppt or .pdf) when they label their presentations, or the session room PC computers will not recognize them. Presenters are urged to bring their media on a Windows-readable ZIP disk, USB Flash Drive, or CD-ROM to avoid setup delays between presentations. Presenters should arrive in their session room at least 30 minutes prior to the start of the session to download their presentations onto the in-room computer hard drive. Presenters using their own laptop computers must be set up prior to the session start time to avoid setup time that will decrease their allotted presentation time. Presenters are urged to check their media at least 24 hours in advance of presentation in the main speaker ready room (San Diego Convention Center, Room 9) or the auxiliary speaker ready room (San Diego Convention Center, Room 21) to confirm compatibility with the session room computers. Presenters using their own laptops MUST have a VGA 15 pin HD Female video output cable. (NOTE: Some mini laptop computers have a special interface cable that attaches to their video output to hook up external monitors or data/video projectors. If this cable is not with the laptop computer being used, there is no way to connect it to the session room data/video projector.) Presenters must bring a copy of all external files contained within their PowerPoint presentations, such as movie or sound files (wav, avi, mpeg, etc.). Presenters who choose to use their own laptops should be certain to have the most recent version/update of drivers installed.

Speaker-Ready Rooms

San Diego Convention Center
Room 9 and Room 21

A limited number of computers with Open USB Port for PC-Formatted USB Flash Drives, Windows-readable ZIP (250 MB), floppy drive, and CD-ROM will be available in the speaker-ready rooms in the convention center for speakers to check their media prior to their presentations. Speakers are urged to check their media at least 24 hours prior to their presentation.

Hours:

Friday – Wednesday, October 22 – 27
7 a.m. – 5 p.m.

As a courtesy to your fellow speakers, please limit your viewing time to 10 minutes during non-peak times. During peak times, please limit your viewing time to five minutes. An auxiliary Speaker-Ready Room will be located in Room 21 of the San Diego Convention Center. This room will have a limited amount of equipment.

Additional Audiovisual Equipment

One 35-mm slide projector will be provided at no charge if requested a minimum of 24 hours in advance of the presentation time. Dual computer or slide projection and overhead projectors are not standard in session rooms and their use is discouraged. This equipment will not be provided unless the presenter agrees to absorb the cost for all additional equipment and labor. Presenters using video are urged to use NTSC standard VHS tapes to avoid the expense of a different type of VCR.

NOTE: a VHS VCR will not be set up in each room, but will be available upon advance 24-hour request.

Audiovisual Information

Poster Sessions

Basic Equipment

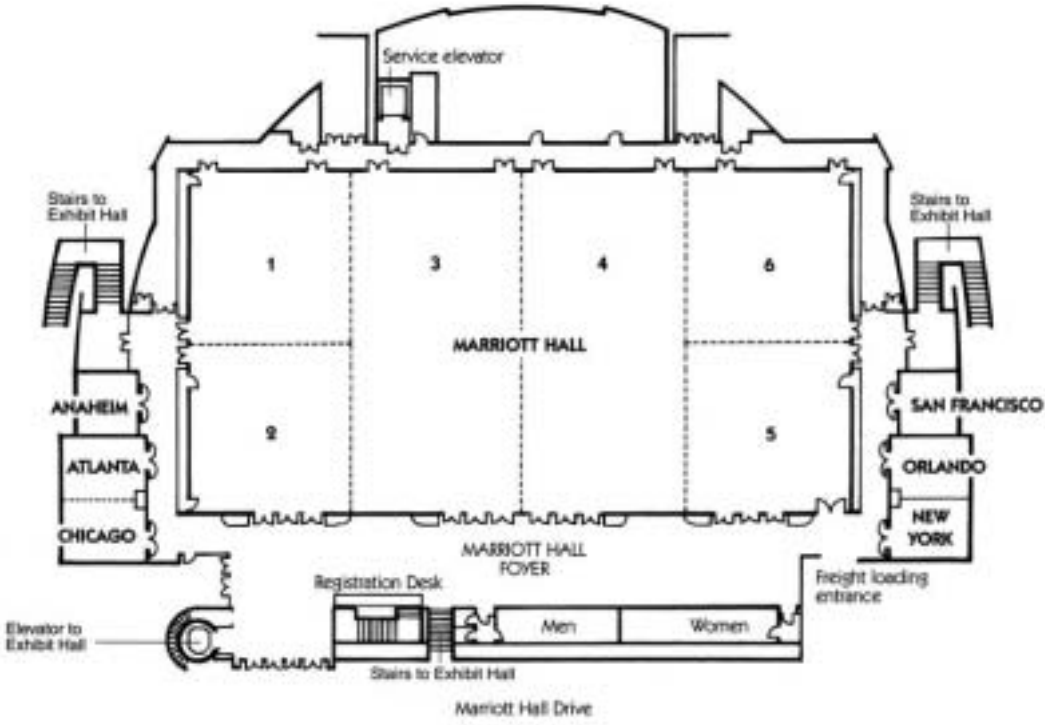
Projection equipment cannot be provided in the poster area.

Computer/Video Equipment

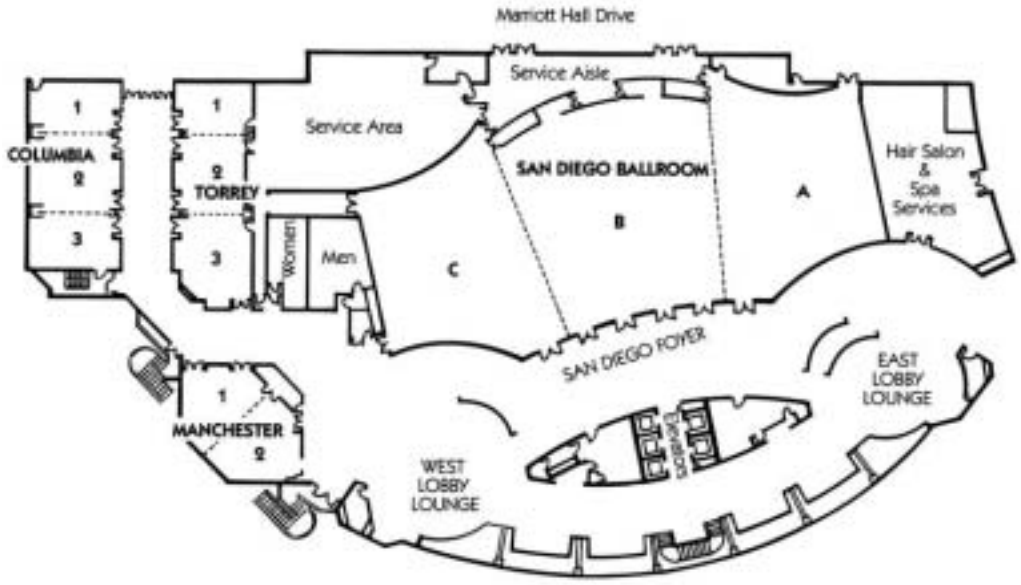
Authors are urged to bring their own laptops to show computer or video presentations during their poster session. If bringing a laptop to the meeting is not an option, authors may rent, at their own expense, a computer and monitor or a VHS VCR with a video monitor and cart for their poster presentation. Note that an electrical outlet is required for this type of equipment and must be ordered no later than October 1.

Marriott Hotel & Marina Floor Plan

Marriott Pavilion Lobby Level

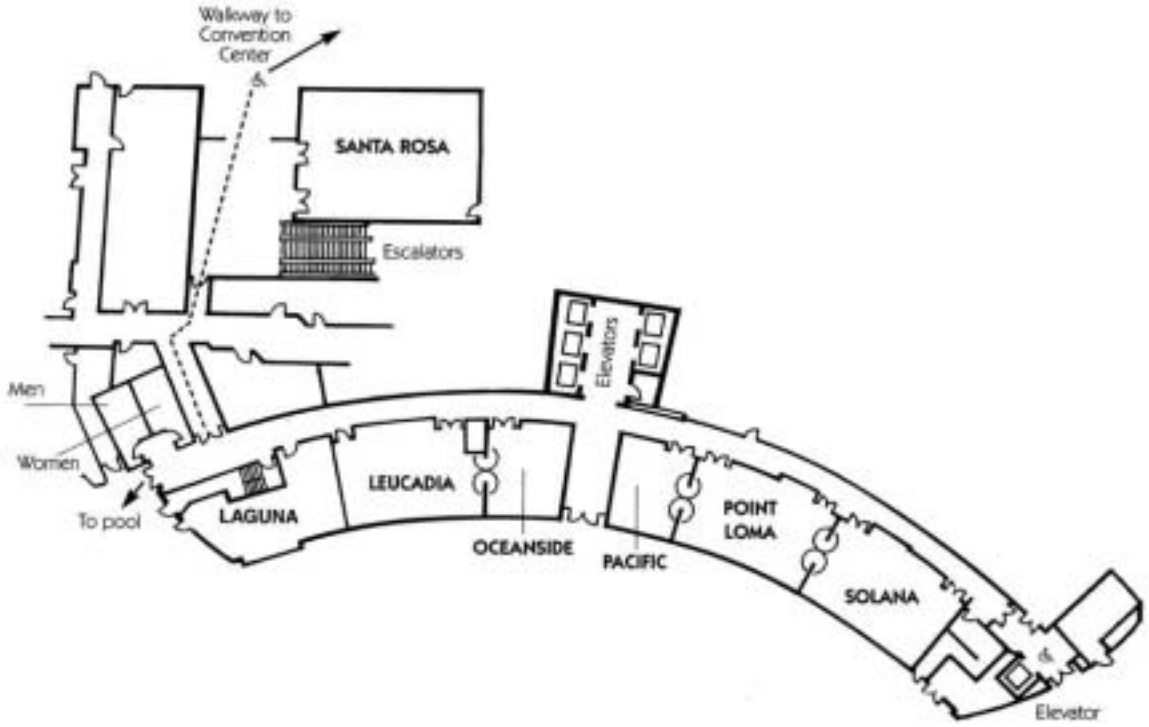


North Tower Lobby Level

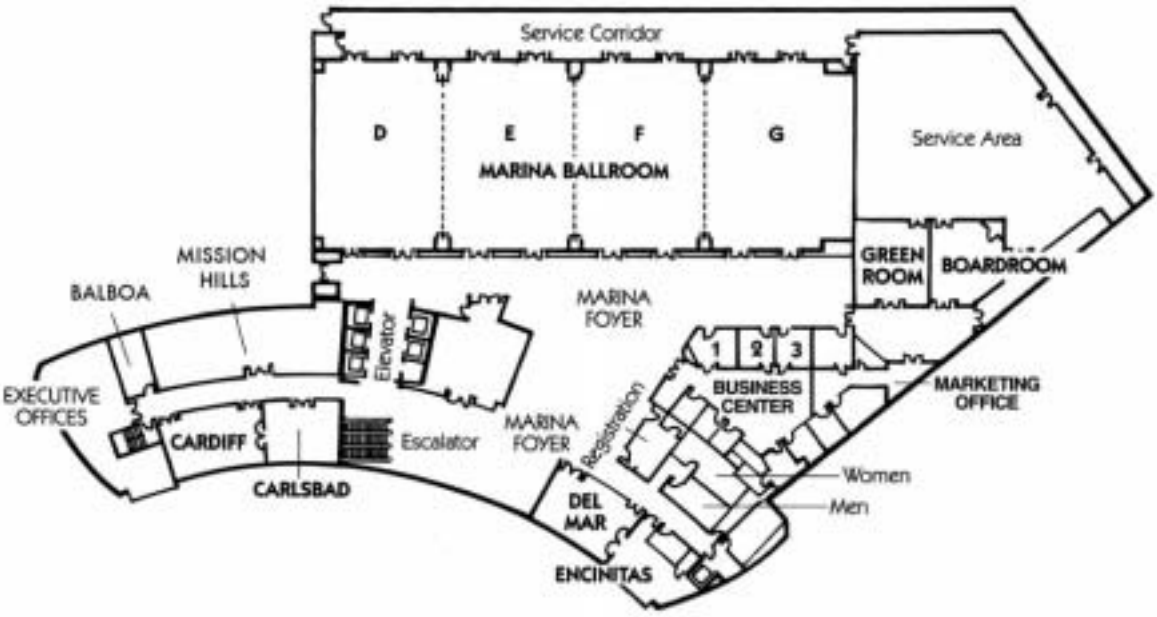


Marriott Hotel & Marina Floor Plan

South Tower Level 1

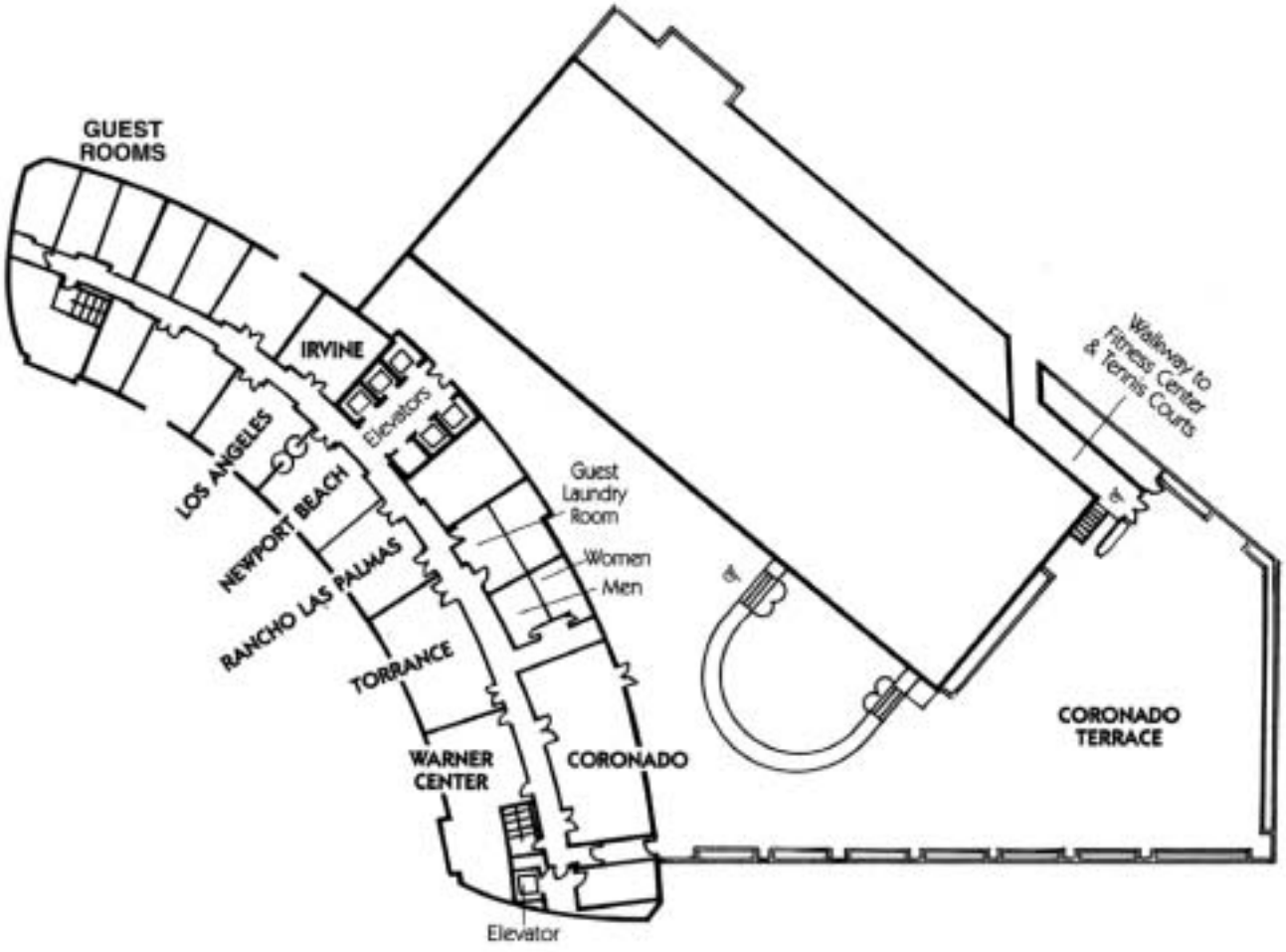


South Tower Level 3



Marriott Hotel & Marina Floor Plan

South Tower Level 4



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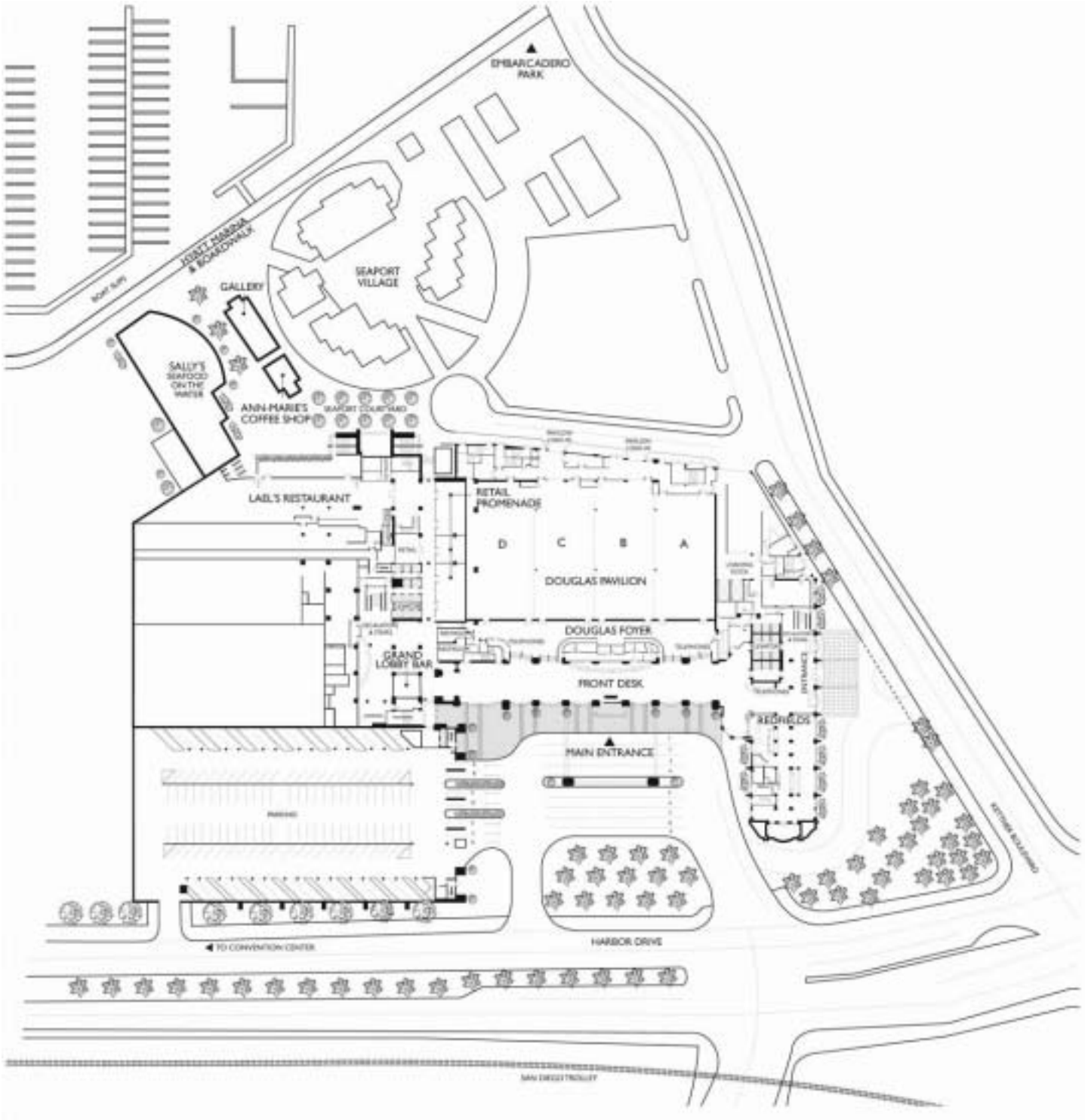
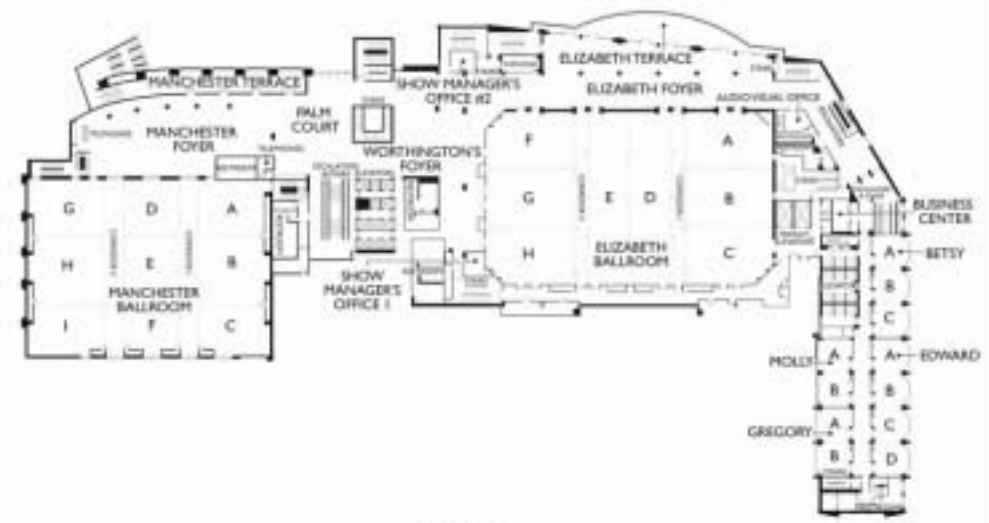
Manchester Grand Hyatt Floor Plan

First Floor

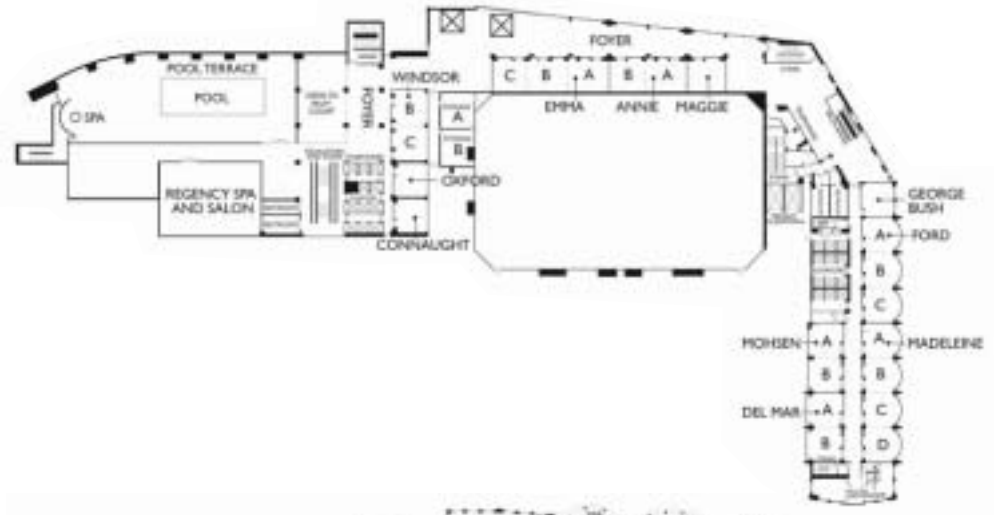


Manchester Grand Hyatt Floor Plan

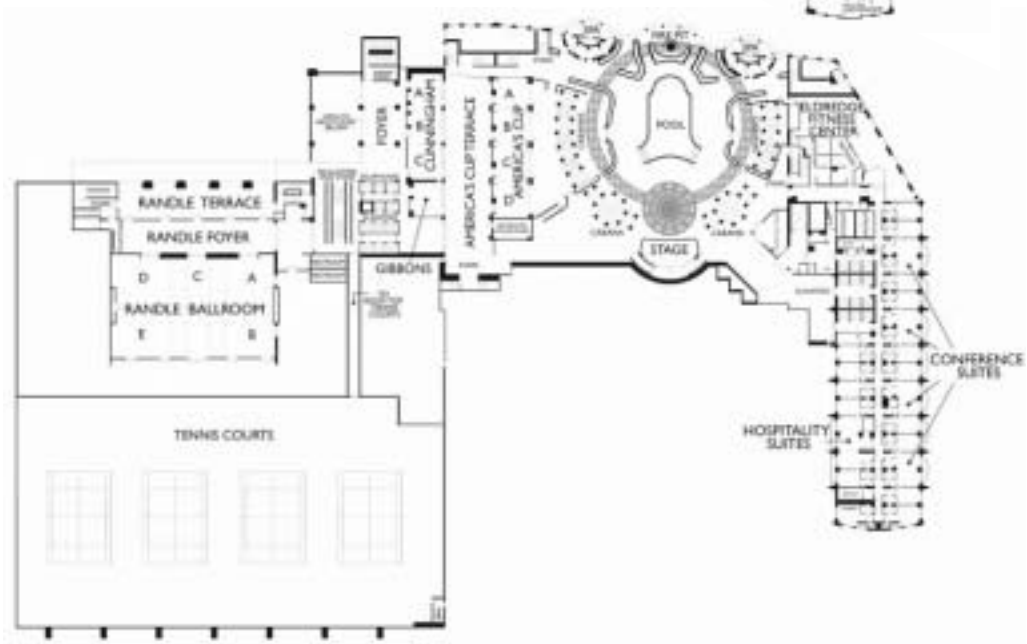
Second Floor



Third Floor

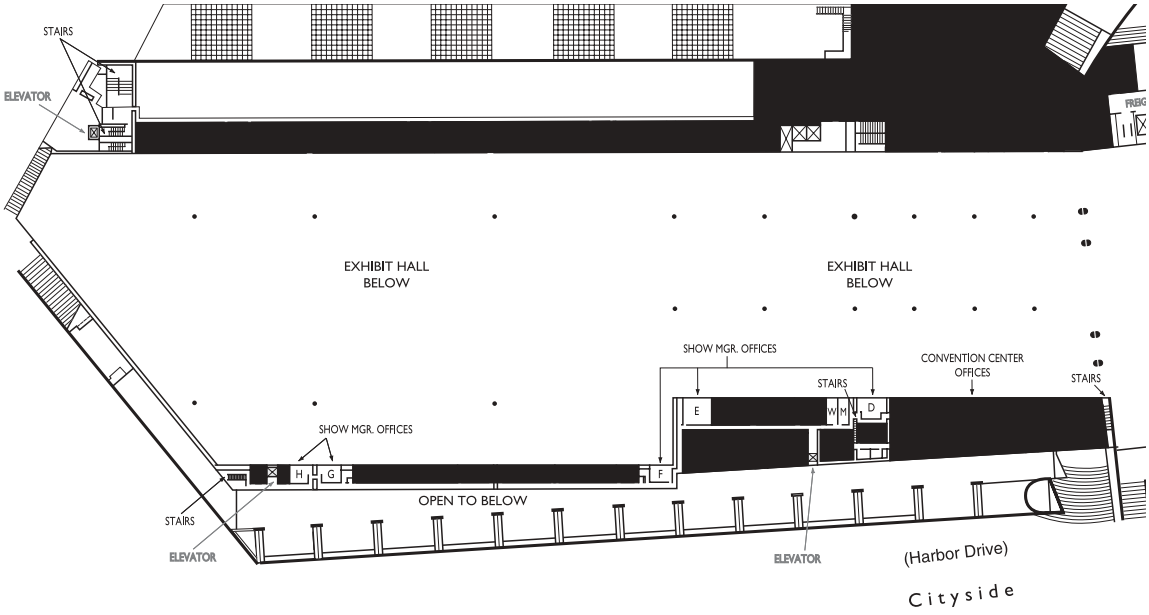


Fourth Floor

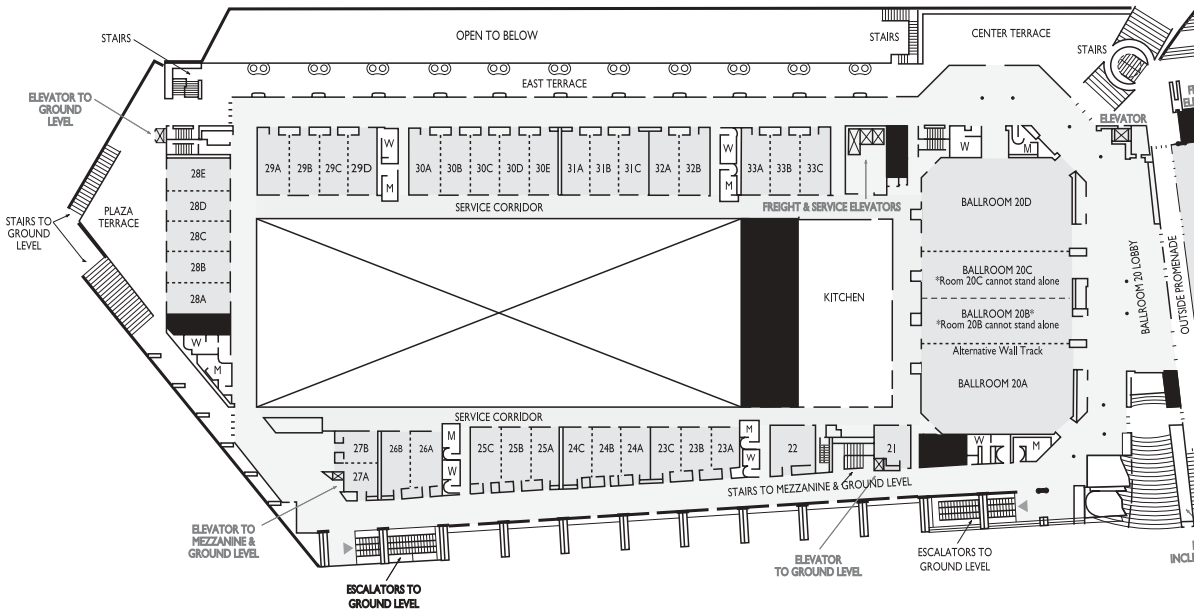


Convention Center Floor Plans

Mezzanine Level

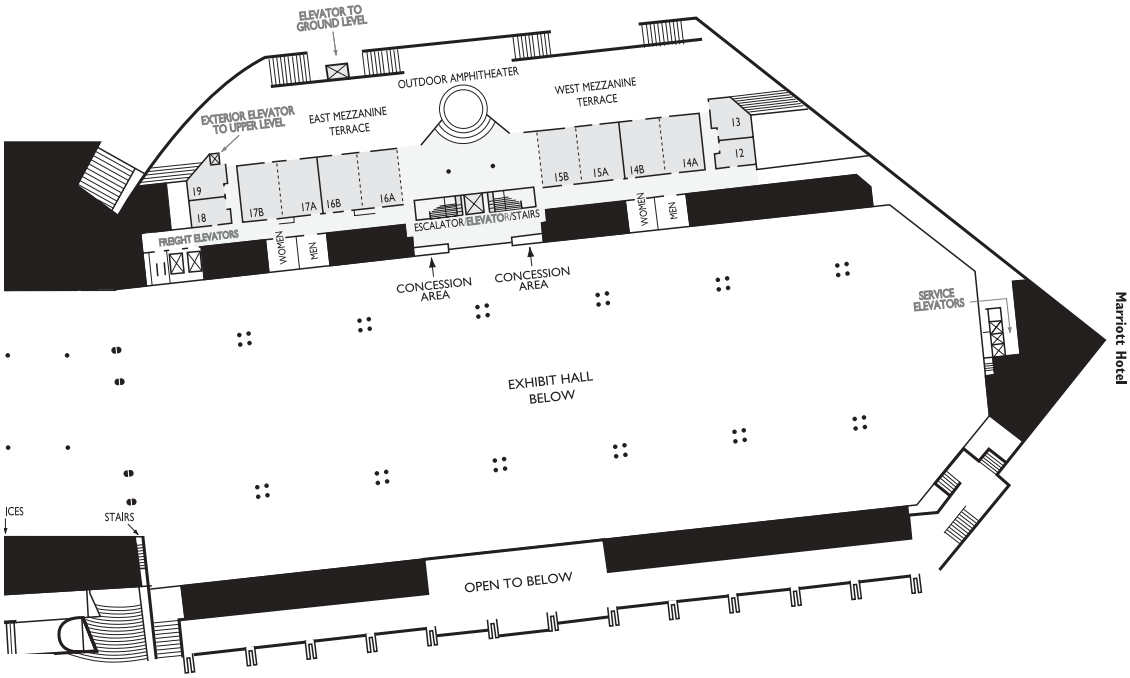


Upper Level

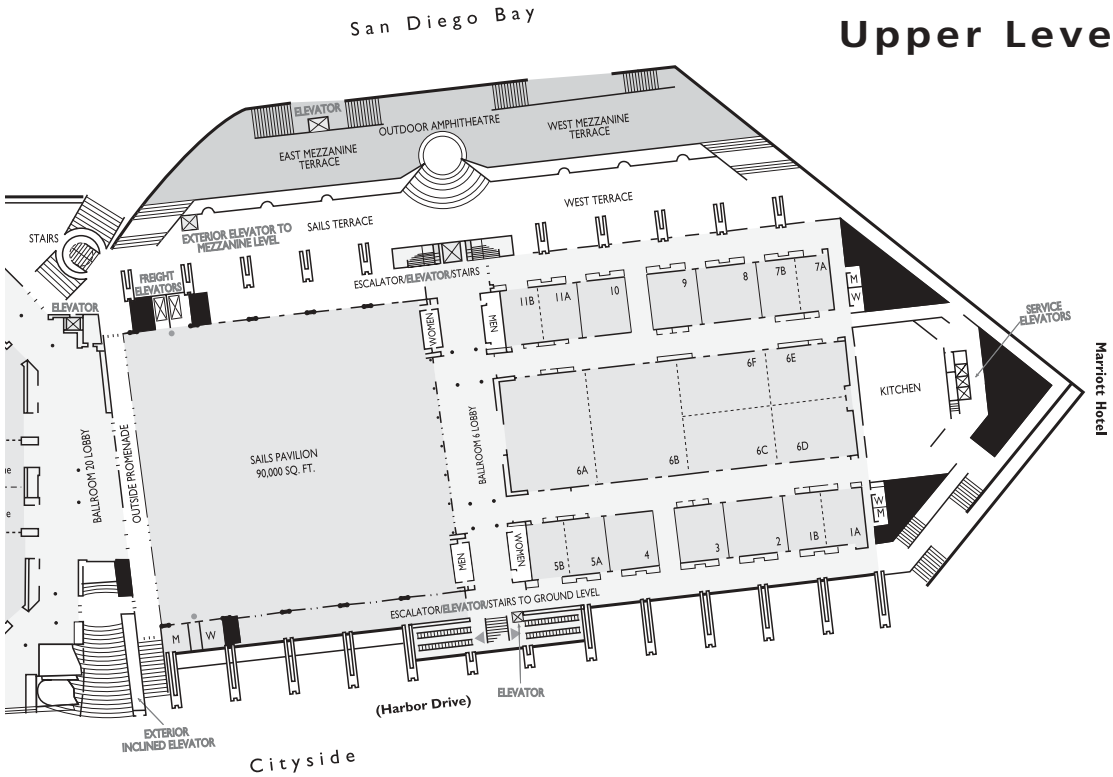


Convention Center Floor Plans

Mezzanine Level



Upper Level



Convention Center Floor Plans

Convention Center Floor Plans

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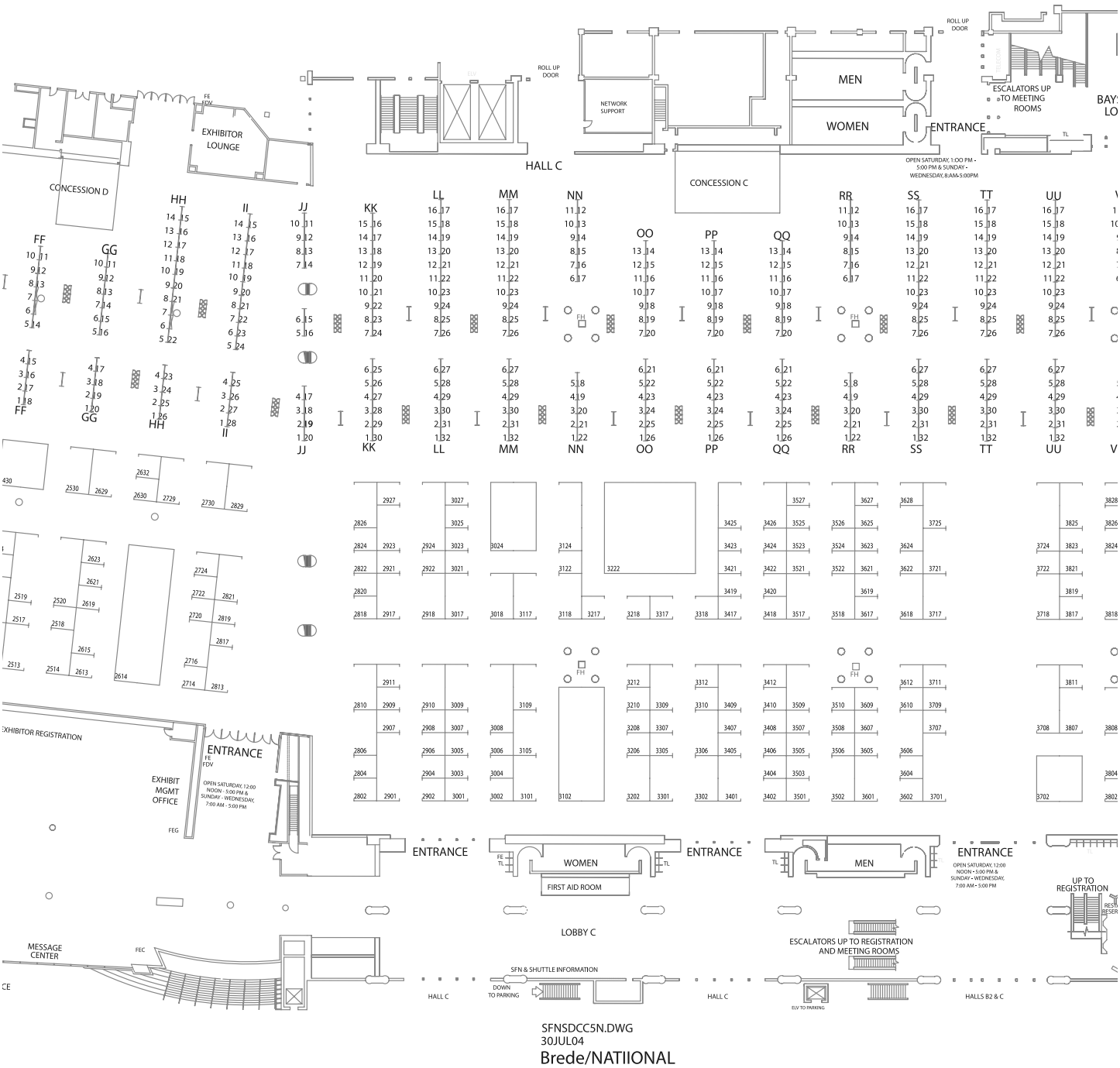
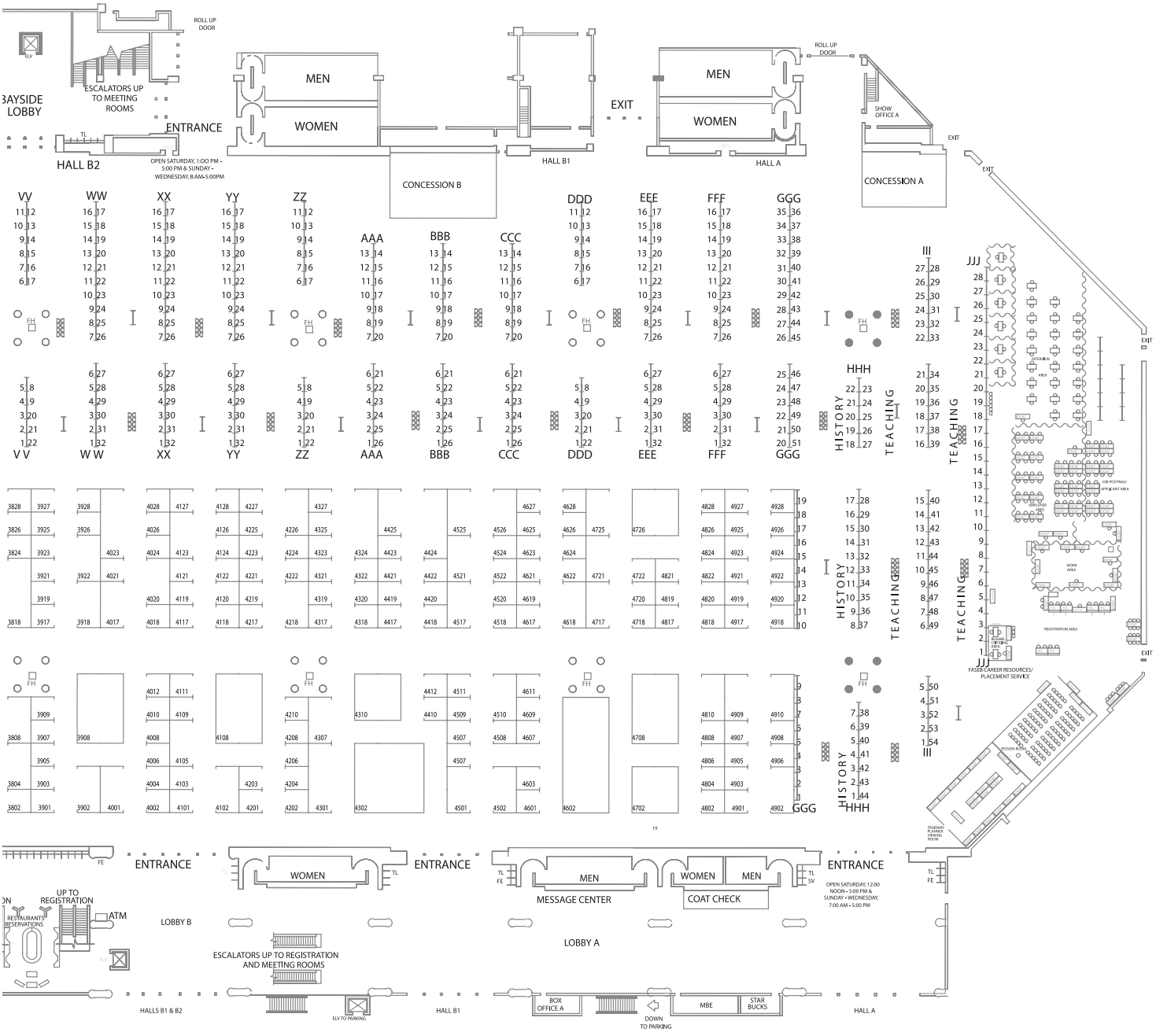
Convention Center Floor Plans



Convention Center Floor Plans



Notes

www.sfn.org/am2004

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Photo Credits

Cover: Cytoskeletal changes of a DRG growth cone induced by contact with an oligodendrocyte (actin filaments, red; microtubules, green).

Courtesy, with permission: B. Niederost, T. Oertle, C.E. Bandtlow, et al., *The Journal of Neuroscience* 2002; 23: 10368 – 76.

Courtesy San Diego Convention & Visitors Bureau, Brett Shoaf.

Page 12: (CLOSE UP OF PAGE 30) Malignant glioma cells migrate along the vasculature. The confocal microscopy images show glioma cells infiltrating striatum preferentially along the microvasculature.

Courtesy, with permission: J.H.-C. Lin, T. Takano, M. Nedergaard, et al., *The Journal of Neuroscience* 2003; 23: 430 – 441.

Page 16: Double-immunofluorescent staining reveals the expression of cannabinoid CB1 receptors (red) in MBP-positive (green) oligodendrocytes in primary culture.

Courtesy, with permission: E. Molina-Holgado, A. Arevalo-Martin, G. Almazan, et al., *The Journal of Neuroscience* 2002; 22: 9742 – 53.

Page 20: Brightfield photomicographs showing a strongly labeled nerve cell enriched in silver grains, representing c-fos non-expressing astroglial cell stained for glial fibillary acidic protein immunoreactivity (brown color) in creasyl violet counterstained section in the hippocampal CA1 region of corticosterone (10 mg/kg, s.c., 4 h) treated adrenalectomized rat. CA1, Cornus Ammon area.

Courtesy, with permission: A.C. Hansson, W. Sommer, R. Rimondini, et al., *The Journal of Neuroscience* 2003; 23: 6013 – 6022.

Page 22: Detection of apoptosis in SK-N-MC neuroblastoma cells using TMRE to measure mitochondrial membrane potential (red), rhodamine 110, bis-L-aspartic acid amide to detect activated caspase-3 (green) and Hoechst 33342 to assess nuclear morphology (blue).

Courtesy, with permission: T.B. Sherer, A.K. Stout, T. Greenamyre, et al., *The Journal of Neuroscience* 2002; 22: 7006 – 7015.

Page 30: Malignant glioma cells migrate along the vasculature. The confocal microscopy images show glioma cells infiltrating striatum preferentially along the microvasculature.

Courtesy, with permission: J.H.-C. Lin, T. Takano, M. Nedergaard, et al., *The Journal of Neuroscience* 2003; 23: 430 – 441.

Page 34: Antibodies against the alpha-4 integrin subunit (red) block axonal outgrowth by superior cervical ganglion sympathetic neurons (stained for tyrosine hydroxylase, green) into the neonatal rat heart after intrathoracic injection.

Courtesy, with permission: K.L. Wingerd, N.L. Goodman, J.W. Tresser, et al., *The Journal of Neuroscience* 2002; 22: 10772 – 80.

Page 42: Cortical subplate neurons (green, labeled with bromodeoxyuridine birthdating) are among dying cells (red, in situ end labeling) observed in this coronal section (blue, nuclear counterstain) 24 hours following neonatal unilateral carotid ligation and hypoxia — the Vannucci-Rice rodent model of human preterm brain injury.

Courtesy, with permission: P.S. McQuillen, R.A. Sheldon, C.J. Shatz, et al., *The Journal of Neuroscience* 2003; 23: 3308 – 15.

Page 46: Dystroglycan is concentrated at a subset of GABAergic synapses. Cultured hippocampal neurons were immunolabeled for beta-dystroglycan (green), $GABA_A$ receptor gamma2 subunit (red), and synapsin (blue); white indicates colocalization of dystroglycan and GABA receptor opposite some synaptic terminals.

Courtesy, with permission: S. Lévi, R.M. Grady, A.M. Craig, et al., *The Journal of Neuroscience* 2002; 22: 4274 – 85.

Page 92: Hippocampal neuron expressing YFP-KIF17 (green) and immunostained with NR2B (red), showing the colocalization (yellow) of YFP-KIF17 and NR2B in non-permeabilized neurons.

Courtesy, with permission: L. Guillaud, M. Setou, and N. Hirokawa, *The Journal of Neuroscience* 2003; 23: 131 – 140.

Page 98: Courtesy San Diego Convention Center.

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