Part IV

Appendices

Staff

MCSD consists of full time permanent staff located at NIST laboratories in Gaithersburg, MD and Boulder, CO. This is supplemented with a variety of faculty appointments, guest researchers, postdoctoral appointments, and student appointments. The following list reflects the status at the end of FY 2002.

Legend: F = Faculty Appointee, GR = Guest Researcher, PD = Postdoctoral Appointee, S = Student, PT= Part time

Division Staff

Ronald Boisvert, *Chief*
Robin Bickel, *Secretary*
Peggy Liller, *Secretary*
Joyce Conlon

Brianna Blaser, S
André Deprit, GR
Jeffrey Fong, GR

Mathematical Modeling Group

Geoffrey McFadden, *Leader*
Bradley Alpert (Boulder)
Timothy Burns
Alfred Carasso
Andrew Dienstfrey (Boulder)
Michael Donahue
Fern Hunt
Raghu Kacker
Anthony Kearsley
Stephen Langer
Agnes O'Gallagher (Boulder)
Donald Porter

Daniel Anderson, GR
Eric Baer, S
James Blue, GR
Richard Braun, F
Daniel Cardy, S
John Gary, GR
Katharine Gurski, PD
Kelly McQuighan, S

Luis Melara, PD
Bruce Murray, GR
Dianne O'Leary, F

Mathematical Software Group

Roldan Pozo, *Leader*
Daniel Lozier
Marjorie McClain
Bruce Miller
William Mitchell
Bert Rust
Bonita Saunders

Bruce Fabijonas, F
Elaine Kim, S
Leonard Maximon, GR
Frank Olver, GR
G.W. Stewart, F
Abdou Youseff, F

Optimization and Computational Geometry Group

Ronald Boisvert, *Acting Leader*
Isabel Beichl
Javier Bernal
David Gilsinn
Christoph Witzgall

Theodore Einstein, GR
Saul Gass, F
Alan Goldman, GR
James Lawrence, F
David Song, PD
Francis Sullivan, GR

Scientific Applications and Visualization Group

Judith Devaney, *Leader*
Yolanda Parker, *Office Manager*
Barbara am Ende
Robert Bohn
William George
Terence Griffin
John Hagedorn

Howard Hung
Peter Ketcham
Adele Peskin (Boulder)
Steven Satterfield
James Sims

Other Staff Associated with the Division for Part of the Year

James Filla (Boulder)
John Koontz (Boulder)

Vital Pourprix, GR

April Andreas, SURF Participant
Stuart Fletcher, SURF Participant
Jacob Scott, SURF Participant

Harry W. Bullen, Volunteer
Jessica S. Chang, Volunteer
Alex V. Harn, Volunteer
Sean P. Kelly, Volunteer

Acronyms

ACM	Association for Computing Machinery
AMS	American Mathematical Society
AMS	Applied Mathematics Series (NIST Publications)
ANSI	American National Standards Institute
APS	American Physical Society
ATP	NIST Advanced Technology Program
BFRL	NIST Building and Fire Research Laboratory
BLAS	Basic Linear Algebra Subprograms
BLAST	Blast Technical Forum
CCS	IDA Center for Computing Sciences
CEM	computational electromagnetics
CIO	Chief Information Officer
CRT	Chinese Remainder Theorem
CSTB	Centre Scientifique et Technique du Batiment
CSTL	NIST Chemical Science and Technology Laboratory
CWI	
DARPA	Defense Advanced Research Projects Agency
DIVERSE	Device Independent Virtual Environments — Reconfigurable, Scalable, Extensible (visualization software)
DLMF	Digital Library of Mathematical Functions (MCSD project)
DOD	Department of Defense
DPD	dissipative particle dynamics
DSO	distributed shared objects
EEEL	NIST Electronics and Electrical Engineering Laboratory
ESRF	European Synchrotron Radiation Facility
ETH	Eidgenössische Technische Hochschule
FY	fiscal year
GAMS	Guide to Available Mathematical Software
GMR	giant magneto-resistance
IDA	Institute for Defense Analysis
IT	information technology
ITL	NIST Information Technology Laboratory
IFIP	International Federation for Information Processing
IMA	Institute for Mathematics and Its Applications (Univ. of Minnesota)
INA	NBS Institute for Numerical Analysis
JAMA	Java Matrix package
JGF	Java Grande Forum
LADAR	Laser Distance and Ranging
MCSD	ITL Mathematical and Computational Sciences Division
MEL	NIST Manufacturing Engineering Laboratory
MMD	MEL Manufacturing Metrology Division
MPI	Message Passing Interface
MRAM	magnetic random access memory

MSEL	NIST Materials Science and Engineering Laboratory
NAML	NBS National Applied Mathematics Laboratory
NBS	National Bureau of Standards (former name of NIST)
NIST	National Institute of Standards and Technology
NSF	National Science Foundation
OOF	Object-Oriented Finite Elements (software package)
OOMMF	Object-Oriented Micromagnetic Modeling Framework (software package)
ORAP	Organisation Associative du Parallelisme
PDE	partial differential equation
PHAML	Parallel Hierarchical Adaptive Multi Level (software)
PL	NIST Physics Laboratory
QDPD	quarternion-based dissipative particle dynamics
RAVE	Reconfigurable Automatic Virtual Environment
SAVG	MCSD Scientific Applications and Visualization Group
SEAC	NBS Standards Eastern Automatic Computer
SEM	scanning electron micrograph
SIAM	Society for Industrial and Applied Mathematics
SSS	Screen Saver Science
STEM	scanning transmission electron microscopy
SUNY	State University of New York
SURF	Student Undergraduate Research Fellowship
SVD	singular value decomposition
TIN	triangulated irregular network
TNT	Template Numerical Toolkit
TOMS	Transactions on Mathematical Software
VCCTL	Virtual Cement and Concrete Testing Laboratory
VET	Virtual Electromagnetic Testrange
VRML	Virtual Reality Modeling Language
XANES	x-ray absorption near-edge structure
XAS	x-ray absorption spectroscopy