

SUNDAY, MAY 15

Evening	6:30 – 9:30	Welcome Reception/Registration
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MONDAY, MAY 16

8:30–12:20	Opening Plenary	(Joint session, no parallel sessions)
8:30– 10:10	<i>Chair:</i> <i>S. Chattopadhyay, JLAB</i>	<ul style="list-style-type: none"> - Introduction (<i>Governor of TN/N. Holtkamp/S. Chattopadhyay</i>) - Linear Collier Technology Decision (<i>B. Barish, CalTech</i>) - Title TBA (<i>C. Jarlskog, Lund Univ</i>)

Coffee Break

10:40–12:20	Opening Plenary	<ul style="list-style-type: none"> - PEP-II/KEK-B Operational Status (<i>J. Seeman, SLAC</i>) - RHIC Operational Status (<i>T. Roser, BNL</i>) - FNAL Tevatron Operational Status (<i>D. McGinnis, FNAL</i>)
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1:50–3:30	HEHAC: High Energy Hadron Accelerators and Colliders <i>Chair:</i> <i>V. Shiltsev, FNAL</i>	<ul style="list-style-type: none"> - Advances in the Understanding and Operations of Super-conducting Colliders (<i>P. Bauer, FNAL</i>) - Performance Limitations in High-Energy Ion Colliders (<i>W. Fischer, BNL</i>) - (TBD)
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	SAI: Sources and Injectors <i>Chair:</i> <i>J. Alessi, BNL</i>	<ul style="list-style-type: none"> - An 8 GeV High Intensity Proton Source (<i>B. Foster, FNAL</i>) - High Intensity High Charge State Ion Beam Sources (<i>D. Leitner, LBNL</i>) - (TBD)
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	MBD: Multiparticle Beam Dynamics <i>Chair:</i> <i>K. Harkay, ANL</i>	<ul style="list-style-type: none"> - Experimental Results from the Small Isochronous Ring Results (<i>E. Pozdeyev, JLAB</i>) - Benchmark Space Charge Simulations and Comparison with Experimental Results for High Intensity Low Energy Accelerators (<i>S. Cousineau, SNS/ORNL</i>) - (TBD)
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3:30–5:10	HEHAC: High Energy Hadron Accelerators and Colliders <i>Chair:</i> <i>W. Barletta, LBNL</i>	<ul style="list-style-type: none"> - Theory and Reality of Beam-Beam Effects at Hadron Colliders (<i>Y. Alexahin, FNAL</i>) - Polarized Proton Collisions (<i>M. Bai, BNL</i>) - (TBD)
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	SAI: Sources and Injectors <i>Chair:</i> <i>R. Sheffield, LANL</i>	<ul style="list-style-type: none"> - Frontiers of RF Photoinjectors (<i>M. Ferrario, INFN</i>) - Future directions in Electron Sources (<i>J. Lewellen, ANL</i>) - (TBD)
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	MBD: Multiparticle Beam Dynamics <i>Chair:</i> <i>S. Henderson, SNS</i>	<ul style="list-style-type: none"> - Beam-Beam Simulation vs. Experimental Results (<i>Y. Cai, SLAC</i>) - Anisotropy Driven Modes in Intense Ion Beams (<i>E. Startsev, PPPL</i>) - (TBD)
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1:50–5:30	Posters	
5:10–5:30	Social	
6:00–9:00	Chair's Reception	

TUESDAY, MAY 17

8:30–10:10	MAG: Magnets <i>Chair:</i>	<ul style="list-style-type: none"> - Limits of Nb3 sn Magnets (<i>S. Caspi, LBNL</i>) - U.S. Accelerator Contribution to the LHC (<i>M. Lamm, FNAL</i>)
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	<i>M. Harrison, BNL</i>	- Survey of Superconducting Insertion Devices for Light Sources (<i>N. Mezentsev, BINP</i>)
	LSAFEL: Light Sources and Free Electron Lasers Chair: <i>M. Cornacchia, SLAC</i>	- VUV/Soft X-Ray FEL Projects on the Horizon (<i>R. Bakker, Elettra</i>) - First Results from VUV FEL at DESY (<i>B. Faatz, DESY</i>) - First Results from DUV FEL Upgrade at BNL (<i>X. Wang, BNL</i>)
	INSTABFB: Instabilities and Feedback Chair: <i>E. Shaposhnikova, CERN</i>	- Overview of Impedance and Single-Beam Instability Mechanisms (<i>E. Metral, CERN</i>) - Beam-Loading Compensation for Super B-factories (<i>D. Teytelman, SLAC</i>) - Stochastic Cooling for Bunched Beams (<i>M. Blaskiewicz, BNL</i>)
Coffee Break		
10:40–12:20	MAG: Magnets Chair: <i>R. Kephardt, FNAL</i>	- Superconducting Combined Function Magnets for the J-PARC Proton Transport Line (<i>T. Nakamoto, JParc, KEK</i>) - SNS Injection and Extraction Devices (<i>D. Raparia, BNL</i>) - (TBD)
	LSAFEL: Light Sources and Free Electron Lasers Chair: <i>L. Rivkin, PSI</i>	- First Year of SPEAR 3 Operation (<i>R. Hettel, SSRL</i>) - Femto-slicing in Storage Rings (<i>S. Khan, Bessy II</i>) - New Storage Ring Light Sources on the Horizon (<i>B. Podobedov, BNL</i>)
	INSTR: Instrumentation Chair: <i>T. Shea, SNS</i>	- Techniques for Pump-probe Synchrotronization of fsec Radiation Pulses (including electro-optic methods) (<i>H. Schlarb, DESY</i>) - Novel Tune Diagnostics for Fermilab Tevatron (bunch-by-bunch counter-rotating beams) (<i>C. Tan, FNAL</i>) - (TBD)
8:30–12:20	Posters	
1:50–3:30	ADCON: Advanced Concepts Chair: <i>C. Pellegrini, UCLA</i>	- Mono-energetic Beams from Laser-plasma Interactions (<i>C. Geddes, LBNL</i>) - Review of Beam-Plasma Wakefield Experiments (<i>M. Hogan, SLAC</i>) - Laser Injection of Electrons into Plasma Accelerators (<i>J. Cary, Univ. of Colorado, Boulder</i>)
	LSAFEL: Light Sources and Free Electron Lasers Chair: <i>L. Merminga, JLAB</i>	- Methods of Attosecond Pulse Generation (<i>A. Zholents, LBNL</i>) - SPPS Results (<i>J. Hastings, SLAC</i>) - Femtosecond Synchronization of Lasers and Electron Beam (<i>F. Kaertner, MIT</i>) - Overview of Energy Recovery Linacs (<i>I. Bazarov, Cornell Univ.</i>)
	INSTR: Instrumentation Chair: <i>R. Webber, FNAL</i>	- Imaging Diagnostics for Beam Instabilities at APS (Diagnostics suite for high brightness electron storage rings) (<i>B. Yang/A. Lumpkin, ANL</i>) - Ionization Profile Monitors in RHIC and AGS (enhanced performance of non-intercepting profile monitor for protons and ions) (<i>R. Connolly, BNL</i>) - (TBD)
3:30–5:10	ADCON: Advanced Concepts Chair: <i>W. Leemans, LBNL</i>	- High Energy Gain IFEL at UCLA/Neptune (<i>P. Musumeci, UCLA</i>) - Proton Acceleration and High Energy Density Physics from Laser Foil Interactions (<i>K. Krushelnick, Imperial College, London</i>) - Review of Laser “Vacuum” Acceleration Experiments (<i>T. Plettner, Stanford</i>)
	DSEM/NPHEP: Development in the South, East and Mid-East/Nuclear Physics High Energy Physics	- SC Cyclotron and RIB Facility in Kolkata (<i>B. Sinha, VECC, Kolkata, India</i>) - TBD (BEPC-II in China); - TBD (Cyclotron in Johannesburg, South Africa) - Cooler Storage Ring at China Institute of Modern Physics (<i>J. Xia, China Inst. of Modern Physics</i>)

Chair: P. Schmor, TRIUMF	
LC: Linear Collider	- Experience with the TTF-2 (<i>L. Lilje, DESY</i>)
Chair: G. Dugan, Cornell Univ.	- E-166: Polarized Positrons (<i>K. McDonald, Princeton Univ.</i>)
	- Results from DR and Instrumentation Test Facilities (<i>J. Urakawa, KEK</i>)
	- Progress with CLIC towards Multi-TeV Linear Colliders (<i>J. Delahaye, CERN</i>)

1:50–5:30 **Posters**5:10–5:30 **Social**

Evening
6:30–8:00 **Einstein Special Event: Science and Music: Jack Liebeck Violin Concert, accompanied by Piano and commented by Brian Foster; Master of Ceremony: S. Chattopadhyay, JLAB**

WEDNESDAY, MAY 18

8:30–10:10	LC: Linear Collider Chair: K. Hubner, CERN	- International Linear Collider (ILC) Design Organization and Plans (<i>TBD</i>) - Progress and Plans for R&D and the Conceptual Design of the ILC Main Linacs (<i>TBD</i>) - Progress and Plans for R&D and the Conceptual Design of the ILC Injector Systems (<i>TBD</i>) - Progress and Plans for R&D and the Conceptual Design of the ILC Beam Delivery Systems (<i>TBD</i>)
	DSEM/LS: Development in the South, East and Mid-East/Light Source Chair: M. Poole, Daresbury Lab	- Australian Light Source (<i>A. Jackson, Australian Light Source, Melbourne</i>) - Shanghai Light Source (<i>TBD, Shanghai Light Source, Shanghai</i>) - Brazilian Light Source (<i>P. Tavares, Brazilian Light Source, Campinas Brazil</i>)
	SPBDO: Single Particle Dynamics and Optics Chair: V. Lebedev, FNAL	- Aberration in Electron Microscopy (<i>H. Rose, Darmstadt Tech. Univ.</i>) - Chromatically Corrected Imaging for Proton Radiography (<i>B. Blind LANL</i>) - Effects of Fringe Fields and Insertion Devices Revealed Through Experimental Frequency Map Analysis (<i>P. Kuske, BESSY-II</i>)

Coffee Break

10:40–12:20	LEAC: Lepton Accelerators and Colliders Chair: A. Hutton, JLAB	- Super-B Factories (<i>H. Koiso, KEK</i>) - Lepton Collider Operation with Constant Currents (<i>U. Wienands, SLAC</i>) - JLab 12 GeV Upgrade (<i>TBD</i>)
	DSEM/LS: Development in the South, East and Mid-East/Light Source Chair: H. Winick, SSRL, SLAC	- INDUS-II (<i>V. Sahni, Center for Advanced Technology, Indore, India</i>) - SESAME in Jordan (<i>G. Vignola, Amman, Jordan</i>) - TBD
	SPBDO: Single Particle Dynamics and Optics Chair: A. Chao, SLAC	- Design and Performance of Large Momentum (15%) Acceptance Lattice (<i>D. Douglas, JLAB</i>) - Beam-based Nonlinear Optic Corrections in Colliders (<i>F. Pilat, BNL</i>) - Measurement and Understanding the Momentum Aperture in a Storage Ring (<i>C. Steier, LBNL</i>)

8:30–12:20	Posters	
1:00–3:00	DPB/IEEE Awards Reception and Ceremony	- Wilson Prize Talk (<i>Keith Symon, University of Wisconsin – Madison</i>) - Beam Physics Dissertation Talk (<i>TBA</i>)
3:00–5:50	Special Session : Einstein and World Year of Physics Jointly sponsored by PAC/EPAC/APAC Chair: S. Chattopadhyay, JLAB	- Introduction – <i>S. Chattopadhyay</i> - Cosmic Acceleration (<i>Michael Turner, NSF</i>) - Symmetries (<i>M. Kobayashi, KEK</i>) - Cosmic Rays (<i>Y. Suzuki, Univ. of Tokyo</i>) - Cooling and Antiprotons (<i>C. Rubbia, CERN</i>)
Evening 6:00–9:00	City of Knoxville-sponsored World's Fair as an Einstein/World Year of Physics Celebration	

THURSDAY, MAY 19

8:30–10:10	LEAC: Lepton Accelerators and Colliders Chair: K. Oide, KEK, Japan	- DAFNE Operational and Plans for DAFNE 2 (<i>M. Zobov, INFN</i>) - CESR-c: Performance of a Wiggler-Dominated Storage Ring (<i>S. Temnykh, Cornell Univ.</i>) - TBD
	PPHIB: Pulsed Power and High Intensity Beams Chair: E. Hartouni, BNL	- DAHRT II Long Pulse /Beam Dynamics Experiments (<i>C. Ekdahl, LANL</i>) - Advances of Transmission Line Kicker Magnet (<i>L. Ducimetier, CERN</i>) - Highly Compressed Ion Beams for High Energy Density Science (<i>A. Friedman, LLNL</i>)
	RFSYS: Radiofrequency Systems Chair: S. Tantawi, SLAC	- SNS Cavity and Cryomodule Commissioning (<i>R. Campisi, ORNL</i>) - Overview of LLRF Systems (<i>M. Liepe, Cornell Univ.</i>) - Low and Intermediate Velocity SRF Developments (<i>T. Grimm, MSU</i>)

Coffee Break

10:40–12:20	ACTECH: Accelerator Technology Chair: TBD	- Recent Progress in Power Refrigeration Below 2K for Superconducting Accelerators (<i>S. Claudet, CERN</i>) - Digital Low-level RF Controls for Future Superconducting Linear Colliders (<i>M. Minty, DESY</i>) - TBD
	PPHIB: Pulsed Power and High Intensity Beams Chair: K. C. D. Chan, LANL	- Pulsed Power Drivers and Diodes for X-ray Radiography (<i>K. Thomas, AWE/UK</i>) - Pulsed Power Applications in High Intensity Proton Rings (<i>W. Zhang, BNL</i>) - Solid State Modulator for RF and Fast Kickers (<i>E. Cook, LLNL</i>)
	RFSYS: Radiofrequency Systems Chair: M. Lynch, LANL	- W-band RF Source Development (<i>B. Carlsten, LANL</i>) - RF Breakdown in Normal Conducting Single-cell Structures (<i>V. Dolgashev, SLAC</i>) - TBD

8:30–12:20	Posters	
1:50–3:30	CONCOM: Controls and Computing Chair: L. Hoff, LBNL	- A Java-based Application Programming Environment for the SNS (<i>J. Galambos, SNS</i>) - CLS: A Fully Open-source Control System (<i>E. Matias, Canadian Light Source</i>) - The Grid (<i>W-D. Klotz, ESRF</i>)

	<p>TICP: Two Stream Instabilities and Collective Processes Chair: <i>G. Rumolo, GSI</i></p>	<p>- Suppressing Electron Cloud in Future Linear Colliders (<i>M. Pivi, SLAC</i>) - Experiments Studying Desorbed Gas and Electron Cloud in Ion Accelerators (<i>A. Molvik, LLNL</i>) - Electron Cloud Dynamics in High-Intensity Rings (<i>L. Wang, BNL</i>)</p>
	<p>LAMEAR: Low and Medium Energy Accelerators and Rings Chair: <i>Y. Yamazaki, JAERI</i></p>	<p>- SNS Beam Commissioning Results (<i>A. Aleksandrov, ORNL</i>) - J-Parc Commissioning Results (<i>K. Hasegawa, JAERI</i>) - Status of the Radioactive Ion Beam Factory Project at RIKEN (<i>Y. Yano, Riken</i>)</p>
3:30–5:10	<p>CONCOM: Controls and Computing Chair: <i>R. Ryne, LBNL</i></p>	<p>- Terascale Beam-Beam Simulations for Tevatron, RHIC and LHC (<i>J. Qiang, LBNL</i>) - Vlasov Simulations of Beam and Halo (<i>E. Sonnendrucker, U. Strasbourg</i>) - TBD</p>
	<p>TICP: Two Stream Instabilities and Collective Processes Chair: <i>J. Hofmann, GSI</i></p>	<p>- Filling in the Roadmap for Self-Consistent Electron Cloud and Gas Modeling (<i>J. Vay, LBNL</i>) - Plasma Approaches to Electron Cloud Modeling (<i>A. Ghalam, USC</i>) - Halo Mitigation Using Nonlinear Lattices (<i>K. Sonnad, SLAC</i>)</p>
	<p>LAMEAR: Low and Medium Energy Accelerators and Rings Chair: <i>R. Garnett, LANL</i></p>	<p>- Progress Report on Electron Cooling of 8 GeV protons (<i>S. Nagaitsev, FNAL</i>) - Experimental Progress in Fast Cooling in the ESR (<i>M. Steck, GSI</i>) - TBD</p>
1:50–5:30	Posters	
5:10–5:30	Social	
Evening 7:00–9:30	Conference Banquet	

FRIDAY, MAY 20

8:30–10:10	<p>ACTECH: Accelerator Technology Chair: <i>P. Kelley, LANL</i></p>	<p>- New Liquid Hydrogen Target Technology (<i>M. Cummings, Northern Illinois Univ.</i>) - Technology for Improved DARHT II Accelerator Cells (<i>B. Prichard, LANL</i>) - HOM Effects in Vacuum System with Short Bunches (<i>S. Novokhatski, SLAC</i>)</p>
	<p>APAC: Application of Accelerators Chair: <i>R. Sah, SRRC</i></p>	<p>- Compact Neutron Generators for Medical, Home Land Security and Planetary Exploration (<i>J. Riejonen, LBNL</i>) - Advances in X-band and S-band Linear Accelerators for Medical, Security, NDT Applications (<i>A. Mishin, AS&E</i>) - Recent Developments in Hadron Therapy Accelerators (<i>TBD</i>)</p>
	<p>SECBEAM: Secondary Beam Facilities: Neutrons, Muons and Neutrinos Chair: <i>C. Moore, FNAL</i></p>	<p>- Radioactive Beam Facilities (<i>Y. Kuno, Osaka Univ.</i>) - Status of Neutrino Factory (<i>TBD</i>) - New Concepts in FFAG Design for Secondary Beam Facilities and Other Applications (<i>M. Craddock, TRIUMF</i>)</p>
Coffee Break		
10:40–12:20	<p>ACTECH: Accelerator Technology Chair: <i>W. Oren, JLAB</i></p>	<p>- Remote Handling in High-Power Proton Facilities (<i>G. Murdoch, ORNL</i>) - Survey of Current and Near-term Cryomodule Designs (<i>C. Rode, JLAB</i>) - SCRF Development at Delhi Nuclear Science Centre (<i>A. Roy, SUNY-Albany</i>)</p>

	APAC: Application of Accelerators Chair: <i>A. Todd, AES</i>	- High Power FEL Applications (<i>M. Shinn, JLAB</i>) - Compact Synchrotron Light Source (<i>R. Ruth, SLAC</i>) - Short Pulse Quasi-Monochromatic X-ray Sources (<i>TBA</i>) - Muon Radiography (<i>C. Morris, LANL</i>)
	EXTBEAM: Extreme Beams Chair: <i>A. Sessler, LBNL</i>	- Frozen Beams (<i>H. Okamoto, Hiroshima Univ.</i>) - Ultra-high Density Electron Beams for Beam Radiation and Beam Plasma Interaction (<i>S. Anderson, LLNL</i>) - Laboratory Astrophysics Using High Density Particles and Light Beams (<i>R. Bingham RAL</i>)
8:30–12:20	Posters	
1:50–5:10	Closing Plenary Session	(Joint session, no parallel sessions)
1:50–3:30	Chair: <i>N. Holtkamp, SNS</i>	- Science with SNS (<i>T. Mason, SNS</i>) - XFEL/Short Pulse Science (<i>J. R. Schneider, DESY</i>) - High Intensity Upgrade of the SIS18 as Injector for the FAIR Facility (<i>P. Spiller, GSI</i>)
3:30–5:10	Chair: <i>N. Holtkamp, SNS</i>	- High Intensity Neutrino Beams (<i>S. Wojcicki, SLAC</i>) - Science of Rare Isotope Accelerator (RIA) and the Project Status (<i>W. Nazarewicz, Univ. of Tennessee</i>) - Chattopadhyay/Holtkamp: Closing Remarks