

MONDAY MAY 21						
Hall B						
CHAIR: Victor Suller CAMD - LSU						
9:00	Welcome from the Chairs					
9:30	The Future of X-ray Science <i>Joachim Stohr SLAC</i>					
10:00	First Two Years of LHC Operation <i>Steve Myers CERN</i>					
10:30	Coffee Break 10:30-11:00 (Hall C)					
11:00	CHAIR: Stuart Henderson FNAL					
11:30	Accelerator Driven Systems <i>Dirk Vandeplassche SCK-CEN</i>					
12:00	State of the Art and Future Prospects in RF Superconductivity <i>Kenji Saito KEK</i>					
12:30	Design and Simulation of IOTA - a Novel Concept of Integrable Optics Test Accelerator <i>Sergei Nagaitsev Fermilab</i>					
Lunch Break 12:30 - 14:00						
Room 209		Room 218		Room 221		
CHAIR: Won Namkung PAL Paul Schmor TRIUMF		CHAIR: Susan Smith STFC Joseph Bisognano U.WiscM		CHAIR: Paolo Pierini INFN Milan Håkan Danared ESS		
INSTRUMENTATION	Cornell ERL Photoinjector Progress, Bruce Dunham, CLASSE		A Proton-driven Plasma Wakefield Accelerator Experiment with CERN SPS Bunches, Patric Mugli, MPI		The European XFEL LRF System, SPS Bunches, Julien Braillard, DESY	
	Instrumentation and Diagnostics for High Repetition Rate Linac-driven FELs, Stefano De Santis, LBNL		First Results from the Electron Hose Instability Studies in FACET, Erik Adli, U. Oslo		Status and Plans for a Superconducting RF Accelerator Test Facility at Fermilab, Jerry Liebfritz, FNAL	
	Fast Feedback Strategies for Longitudinal Beam Stabilization, Sven Pfeiffer, DESY		FACET First Beam Commissioning, Steven Yocky, SLAC		Superconducting Resonators Development for the FRIB and ReA Linacs at MSU, Alberto Facco, INFN/LNL	
APPLICATIONS	Thorium Energy Futures, Robert Cywinski, U. Huddersfield		Transverse-to-longitudinal Emittance-exchange with an Energy Chirped Beam, Jayakar Thangaraj, FNAL		Electron Linac Photo-fission Driver for the Rare Isotope Program at TRIUMF, Yu-Chiu Chao, TRIUMF	
	Perspectives of the HE-ISOLDE Project at CERN, Yacine Kadi, CERN		Laser-induced CSR: Toward a Probe to Explore Wakefields in Storage Rings, Serge Bielawski, PHLAM/CECLIA		Status of Main Linac Cryomodule Development for Compact ERL Project, Kensel Umemori, KEK	
	High-power Coherent THz Sources and THz-TDS System, Masafumi Kumaki, RISE		An Alternative 1D Model for CSR with Chamber Shielding, Demin Zhou, KEK		A Multi-purpose X Band Accelerating Structure, Micha Dehler, PSI	
POSTER SESSIONS HALL C						
Canal St.		Decatur St.		Bourbon St. (ePosters)		
Circ./Lin. Colliders		Hadron Accelerators		Circ./Lin. Colliders		
Beam Dynamics		Sync. LS & FELs		Instr. Controls, Feedback, Ops		
18:00						

TUESDAY MAY 22						
Room 209		Room 218				
CHAIR: Thomas Roser BNL		CHAIR: Georg Hoffstaetter U.Cornell				
Status of the J-Parc Facility <i>Shoji Nagamiya JAEA/PARC</i>		Progress Towards Ultimate Storage Ring Light Sources <i>Michael Borland ANL</i>				
The Upgrade Plans for the LHC Injector Complex <i>Roland Garoby CERN</i>		Review of ERL Projects at KEK and Around the World <i>Norio Nakamura KEK</i>				
Increasing the AGS Beam Polarization with 80 Tune Jumps <i>Vincent Schoefer BNL</i>		Overview of Present and Future Compton Photon Sources <i>Ying K. Wu FEL/Duke University</i>				
Coffee Break 10:30-11:00 (Hall C)						
CHAIR: Oliver Brüning CERN		CHAIR: Bob Hettel SLAC				
Research and Development Toward a Future Muon Collider <i>Katsuya Yonehara Fermilab</i>		Proton Beam Acceleration with Circular Polarized Laser Pulses <i>Xueqing Yan PKU/IHP</i>				
Overview of Asymmetric Hadron Electron Colliders <i>Vadim Pitsyn BNL</i>		Manufacture and Testing of Optical-scale Accelerator Structures from Silicon and Silica <i>Joel England SLAC</i>				
Performance and Prospect of BEPCII <i>Qing Qin IHEP Beijing</i>		FFAG Experience and Future Prospects <i>Yoshiharu Mori KURRI</i>				
Lunch Break 12:30 - 14:00						
Room 209		Room 218		Room 221		
CHAIR: Vadim Pitsyn BNL Shoji Nagamiya JAEA/PARC		CHAIR: Steve Gourlay LBNL Anke-Susanne Müller FZK		CHAIR: Montse Pont CELLS ALBA Caterina Biscari INFN Frascati		
BEAM DYNAMICS	3-Dimensional Modeling of Electron Clouds in Non-uniform Magnetic Fields, Felix Veltzer, Tech-X		Timing and Synchronization for the APS Short Pulse X-Ray Project, Frank Lenkszus, ANL		Challenges of the FAIR Vacuum System, Andreas Kroemer, GSI	
	Focusing Charged Particle Beams Using Multipole Magnets in a Beam Transport Line, Yosuke Yuri, JAEA/TARRI		Investigation of the Use of Silicon, Diamond and Liquid Helium Detectors for Beam Loss Measurements at 2 Kelvin, Christoph Kurfuerst, CERN		Development of HTS Magnets, Kichiji Hatanaka, RCNP	
	Tests of Low Emittance Tuning Techniques for SuperB at SLS and DAFNE, Simone Luzzo, INFN/LNF		Five Years of Operation Experience at HIT, Andreas Peters, HIT		Development and Test of a Single-Aperture 11T Nb <sup>3</sup> Sn Demonstrator Dipole for LHC Upgrades, Alexander Zlobin, FNAL	
HADRON ACCEL.	Summary of Fermilab's Recycler Electron Cooler Operation and Studies, Lionel Frost, FNAL		A European Proposal for the Compton Gamma-ray Source of ELL-NP, Cristina Vaccarella, INFN-LNF		Experimental Verification of the CLIC Two-beam Scheme, Status and Outlook, Roberto Corsini, CERN	
	Beam Commissioning and Operation of New Linac Injector for RIKEN RI-beam Factory, Kazunori Yamada, RIKEN		Commissioning of the PLS-II, Seunghwan Shin, PAL		Small-Beta Collimation at SuperKEKB to Stop Beam-Gas Scattered Particles and to Avoid Transverse Mode Coupling Instability, Hirayuki Nakayama, KEK	
	H- and Proton Beam Loss Comparison at SNS Superconducting Linac, Andrei Shishlo, ORNL		Status of the FERMI/Elettra Project, Michele Svandrik, ELETTRA		Experimental Measurements of e-Cloud Mitigation using Clearing Electrodes in the DAFNE Collider, David Alesini, INFN/LNF	
POSTER SESSIONS HALL C						
Canal St.		Decatur St.		Bourbon St. (ePosters)		
Beam Dynamics		Particle Sources & Alternate Accel.		Beam Dynamics		
Sync. LS & FELs		Instr. Controls, Feedback, Ops		Sync. LS & FELs		
Industrial Reception						

WEDNESDAY MAY 23						
Room 209		Room 218				
CHAIR: Vladimir Shiltsev FNAL		CHAIR: Kevin Jones ORNL				
Project X: Research, Design, Development and Collaboration Efforts for an Ultra High Power Superconducting RF Linac <i>Bob Tschirhart Fermilab</i>		Recent Advances and New Techniques in Visualization of Ultra-short Relativistic Electron Beam Bunches <i>Dao Xiang SLAC</i>				
Development of Electron Coolers in Novosibirsk <i>Vasily Parkhomchuk BINP</i>		Diagnostics for High Power Targets and Dumps <i>Edda Gschwendner CERN</i>				
Accelerator Physics and Technology for FRIB <i>Michael James Syphers MSU</i>		Protecting Accelerator Control Systems in the Face of Sophisticated Cyber Attacks <i>Steven M. Hartman ORNL</i>				
Coffee Break 10:30-11:00 (Hall C)						
CHAIR: Katsunobu Oide KEK		CHAIR: Mark Boland ASCO				
CLIC Design and R&D Status <i>Stenar Sjupnes CERN</i>		The Spring-8 Angstrom Compact Free Electron Laser (SACLA) <i>Hiroshi Nakamoto RIKEN Spring-8 Center</i>				
Studies of Electron Cloud Beam Dynamics for Future Damping Rings at CsrTA <i>Gerald Dugan CLASSE</i>		Hard X-ray Self-Seeding at the LCLS FEL <i>Paul J. Emma SLAC</i>				
Overview of Super B Factories <i>Maria Enrica Biagini INFN/FNAL</i>		High Average Power UV Free Electron Lasers Experiments at JLAB <i>David Douglas JLAB</i>				
Lunch Break 12:30 - 14:00						
Room 209		Room 218		Room 221		
CHAIR: Kay Wittenburg DESY Chuang Zhang IHEP Beijing		CHAIR: David Sutter U.Maryland Alex Chao SLAC		Special Session for Industry Alan M.M. Todd AES		
INSTRUMENTATION	Injected Beam Imaging at SPEAR 3 with a Digital Optic Mask, Hao Zhong, UMD		New Results from the EMMA Experiment, Bruno Muratori, STFC/DL/ASTeC		Future Government-funded Accelerator Projects in Asia, Zhen tang Zhao, SINAP	
	Inorganic Scintillators for Particle Beam Profile Diagnostics of Highly Brilliant & Highly Energetic Electron Beams, Gero Kube, DESY		Photocathode R&D at Cornell University, Luca Cultrera, CLASSE		Future Medical Accelerators, University of Tsukuba	
	Development of the Beam Halo Monitor in J-PARC 3-GeV RCS, Masahiro Yoshimoto, JAEA/J-PARC		An Update on a Superconducting Photonic Band Gap Structure Resonator Experiment, Evgenya Simakov, LBNL		Applications of Laser Plasma Accelerators Wim Leemans, LBNL	
CIRC./LIN. COLLIDERS	Construction Progress of the RHIC Electron Lenses, Wolfgang Fischer, BNL		Measurement of the Slice Energy Spread of Electron Beam at SDUV-FEL using the CHG-based Method, Chao Feng, SINAP		Functional Materials Development using Accelerator-based Light Sources: Current Capabilities & Future Prospects, Wendy Ruth Flavell, UMAN	
	Tevatron End-of-Run Beam-beam Experiments, Alexander Valishev, FNAL		Refraction Contrast Imaging via Laser-Compton X-ray Using Optical Storage Cavity, Kazuyuki Sakae, RISE		Future Accelerators for Secondary Beam Production, Jens Stahlimann, GSI	
	Beam Tests of a High Pressure Gas-Filled Cavity for a Muon Collider, Thomas Schwarz, FNAL		Characterization of Undulator Radiation in Phase Space Using the Wigner Distribution Function, Ivan Bazarov, CLASSE		Accelerator R&D: Research to Support Science - Science to Benefit Society Norbert Holtkamp, SLAC	
POSTER SESSIONS HALL C						
Canal St.		Decatur St.		Bourbon St. (ePosters)		
Accelerator Technology & Main Systems		Part. Sources Instr. Controls, Feedback, Ops		Particle Sources & Alternate Accel. Accel.Tech. & Main Sys		
Beam Dynamics		Sync. LS & FELs		Beam Dynamics		
Women in Science and Engineering Reception						

THURSDAY MAY 24					
Room 209		Room 218			
CHAIR: Yu-Juian Chen LLNL		CHAIR: Vladimir Litvinenko BNL			
Background: Producing Medical Isotopes using X-rays <i>Mark Sybe de Jong CLS</i>		Suppression of Head-Tail Instability Using a Broadband Feedback <i>Yong Ho Chin KEK</i>			
Operation and Patient Treatments at CNAO Facility <i>Erminia Bressi CNAO Foundation</i>		Experimental Demonstration of Suppressing Coherent Synchrotron Radiation <i>Vitaly Yakimenko BNL</i>			
Accelerator Systems for Heavy-Ion Inertial Fusion <i>Seven Lidia LBNL</i>		Beam and Spin Dynamics in an All-electric Ring for Proton EDM <i>Richard Michael Talman CLASSE</i>			
Coffee Break 10:30-11:00 (Hall C)					
CHAIR: Akira Noda U. Kyoto		CHAIR: Valeri Lebedev FNAL			
High Field Magnet Development <i>Tatsushi Nakamoto KEK, Ibaraki</i>		Beam-beam Effects in Hadron Colliders: Theory and Experiment <i>Kazuhiro Ohmi KEK</i>			
Ultracompact Accelerator Technology for a Next-Generation X-ray Source <i>Raouk Marsh LNL</i>		Influence of e-beam Parameters on Coherent Electron Cooling <i>Gang Wang BNL</i>			
Critical Technologies and Future Directions in High Intensity ISOL RIB Production <i>Pierre Gerard Bricault TRIUMF</i>		Collective Effects in the LHC and its Injector Complex <i>Elias Métral CERN</i>			
Lunch Break 12:30 - 14:00					
Hall B					
CHAIR: Jeff Corbett SLAC					
Awards Session CHAIR: Stan Schriber, Michigan State University					
IPAC12 Student Poster Prizes presented by Jeff Corbett, SLAC, SPC Chair and Kay Wittenburg, DESY, SPC Member (10 min)					
IEEE/NPSS Particle Accelerator Science Awards (10 min) Hasan Padamsee, Cornell & Vitaly Yakimenko, BNL. Pres. By Ian Ben-Zvi, BNL					
IEEE/NPSS PAST Student Thesis Award Winner Presentation					
Secondary-electron Emission from Hydrogen-terminated Diamond <i>Erdog Wang, BNL</i> (20 min) Presented by Ian Ben-Zvi, BNL (5 min)					
APS/DPB Outstanding Doctoral Thesis Research in Beam Physics Award (20 min) <i>Daniel Ratner, Stanford University</i> Presented by Stan Schriber, Michigan State University (5 min)					
Special Invited Presentation Chair: Victor Suller, CAMD - LSU <b>LIGO, the Laser Interferometer Gravity-wave Observatory</b> (30 min) <i>Rainer Weiss, MIT</i>					
POSTER SESSIONS HALL C					
Canal St.		Decatur St.		Bourbon St. (ePosters)	
Accelerator Technology & Main Systems		Hadron Accelerators		Hadron Accelerators Applications	
Beam Dynamics		Instr. Controls, Feedback, Ops		Accel.Tech. & Main Sys	
Banquet					

FRIDAY MAY 25			
Room 209		Room 218	
CHAIR: Lia Merminga TRIUMF		CHAIR: Andrew Hutton JLab	
Marrying Lasers and Beams <i>Luca Serafini INFN Milano</i>		Symplectic Tracking & Compensation of Dynamic Field Integrals in Complex Undulator Structures <i>Johannes Bährdt HZB</i>	
Recent Developments in Lasers for use in Accelerators <i>Andreas Tünnermann Friedrich Schiller Universität, Jena</i>		Femtosecond Electron Guns for Ultrafast Electron Diffraction <i>Jinfeng Yang Osaka University</i>	
Overview of Recent Progress on High Repetition Rate, High Brightness Electron Guns <i>Fernando Sannibale LBNL</i>		Review of Microwave Schottky Beam Diagnostics <i>Ralph James Pasquinelli FNAL</i>	
Coffee Break 10:30-11:00 (Hall C)			
Hall B			
CHAIR: Jeff Corbett SLAC			
The Future of X-ray FELs <i>Hans-Heinrich Braun PSI</i>			
Accelerators for Intensity Frontier Research <i>Paul Dervent FNAL</i>			
Physics Results at the LHC and Implications for Future HEP Programmes <i>Rolf Heuer CERN</i>			
Closing Remarks Jeff Corbett, SLAC, IPAC'12 SPC Chair, Zhen tang Zhao, SINAP, IPAC'13 OC Chair			

CIRCULAR/LINEAR COLLIDERS

SYNCHROTRON LIGHT SOURCES AND FELS

PARTICLE SOURCES AND ALTERNATIVE ACCELERATION TECHNIQUES

HADRON ACCELERATORS

BEAM DYNAMICS AND ELECTROMAGNETIC FIELDS

INSTRUMENTATION, CONTROLS, FEEDBACK, AND OPERATIONAL ASPECTS

ACCELERATOR TECHNOLOGY AND MAIN SYSTEMS

APPLICATIONS OF ACCELERATORS, TECHNOLOGY TRANSFER, AND INDUSTRY RELATIONS

