

NAPAC'22 Synoptic table including invited speakers and abstract #'s (as of July 26)

Talk titles abbreviated for brevity

Sunday, Aug 7		Monday, Aug 8		Tuesday, Aug 9		Wednesday, Aug 10		Thursday, Aug 11		Friday, Aug 12	
7:30		Student breakfast MOODE — Chair: S. Biedron		Student breakfast		Student breakfast		Student breakfast		Student breakfast	
7:55		Conference Opening @ 7:55 am Thom Mason, Director of Los Alamos National Laboratory		TUXD — Chair: R. Geometrante TUXE — Moderator: C. Sweeney		WEXD — Chair: J. Byrd WEXE/WEXF		THXD — Chair: J. Dooling THXE/THXF		FRXD — Chair: J. Cruz FRXE — Chair: A. Scheinker	
8:00	Project Management and Accelerator Development, M. Georgsson, S. Biedron, SUXF1	Applications of Particle Accelerators Mitsuru Uesaka (Japan Atomic Energy Commission) MOODE1		Radiation Concerns and Mitigation Schemes for Accelerator Facility Components, F. Pellegrino (FNAL) TUXD1		Advances in Beam Dynamics at Nuclear Physics Accelerator Facilities, A. Sy (JLab) WEXD1		Machine Learning for Improved Accelerator Health and Reliability, Y. A. Yucean (ORNL) THXD1		Demonstration of Optical Stochastic Cooling in an Electron Storage Ring, J. Jarvis (FNAL) FRXD1	
8:30		Expanding the Boundaries of X-ray Lasers: LCLS Upgrades and Future Greg Hays (SLAC) MOODE2		An E-Beam Irradiation Beamline at Jefferson Lab for PFAS Remediation in Wastewater, X. Li (ODU) TUXD2		Storage Ring Tracking Using Generalized Gradient Representations of Full Magnetic Field Maps, R. R. Lindberg (ANL) WEXD2		6D Phase Space Diagnostics Based on the Latent Space of Encoder-Decoder CNNs, A. Scheinker (LANL) THXD2		Experimental Demonstration of Multi-Function Longitudinal Beam Phase-Space Manipulation via Double Emittance-Exchange, J. Seok (ANL) FRXD2	
9:00		Building a Global, Collaborative Accelerator Economy: Summary of the IPAC 2022 Industrial Session Raffaella Geometrante (Kyma) MOODE3		Production Pathways for Medically Interesting Isotopes, L. Del Rio (JoPPR) TUXD3		The Importance of Data, High-Performance Computing, and Artificial Intelligence/Machine Learning, C. Sweeney (LANL), D. Martin (ANL), A. Edelen (SLAC) TUXE1		Improved Multi-Dimensional Bunch Shape Monitor, A. Araujo (RadiaBeam) THXD3		Measurements of the Five-Dimensional Phase Space Distribution of a High-Intensity Ion Beam, A. Hoover (ORNL) FRXD3	
9:30		PW-Class Lasers for Accelerators - Overview and an Industry Perspective Olivier Chalus (Thales) MOODE4		Laser-Plasma-Accelerator-Driven Electron Radiography on the OMEGA EP Laser, G. Bruhaug (LE) TUXD4		Map Tracking in Rings With Stochastic Radiation Emission Effects, A. Seryi (JLAB) WEXE1		Accelerators for Quantum Technologies, A. Romanenko (FNAL), K. Brown (BNL), S. Sosa (UNM) THXE1		Bayesian algorithms for practical accelerator control and adaptive machine learning for time varying systems, R. Roussel (SLAC), A. Scheinker (LANL) FRXE1	
10:00		Coffee Break (30 min) refreshments provided		Development of Achromatic Imaging Capabilities for pRad at LANSCE, M. Schanz (LANL) TUXD5		OPAL for Self-Consistent Start-to-End Simulation of Undulator-Based Facilities, A. Adelman (PSI) WEXD4		ML-Based Tuning of Control Parameters for LLRF System of Superconducting Cavities, J. Cruz (UNM) THXD5		Nonlinearly Shaped Pulses at LCLS-II, N. Neveu (SLAC) FRXD5	
10:30		Coffee Break (30 min) refreshments provided		Dual RF Monochromatization for High Resolution Electron Energy Loss Spectroscopy, A. Kulkarni (UCLA) TUXD6		Simulation for AWA Drive Linac and EEX Beamline Using OPAL, GPT, and Impact-T, S. Kim (ANL) WEXD5		A Quasi-Optical Beam Position Monitor, S. Kuzikov (Euclid) THXD6		Bunch Length Measurements at the CEBAF Injector at 130 kV, S. Pokharel (ODU) FRXD6	
10:30	Alvarado G	MOYD — Chair: F. Pilat MOYE — Chair: J. Merrick		TUYY — Chair: Y. Sun TUYE — Chair: J. Cary		WEYD — Chair: M. Turner WEYE — Chair: D. Li		THYD — Chair: N. Moody THYE — Chair: N. Vafaei-Najafabadi		FRCDE — Chair: S. Milton	
11:00		Progress on the Electron-Ion Collider, F. J. Willeke (BNL) MOYD1		High Voltage DC Gun for High Intensity Polarized Electron Source, O. H. Rahman (BNL) TUYD1		Ultrahigh Energy Electrons from Laser Wakefield Accelerators, B. M. Hegelich (UT Austin) WEYD1		XFEL as a Low-Emittance Injector for a 4th-Generation Synchrotron Radiation Source, T. Hara (RIKEN) THYD1		Accelerator Searches for Axions and Dark Matter, Richard G Van de Water (LANL) FRCDE1	
11:30		Options for Future Colliders at Fermilab, P. C. Bhat (FNAL) MOYD2		Progress Towards Long-Lifetime, High-Current Polarized-Electron Sources, J. Biswas (SBU) TUYD2		First Lasing of a Free-Electron Laser With a Compact Beam-Driven Plasma Accelerator, S. Romeo (LNF-INFN) WEYD2		The Challenging Physics Regimes of High Current Electron Beams, J. E. Coleman (LANL) THYD2		Accelerator Production of Medical Radionuclides, Cathy Cutler (BNL) FRCDE2	
12:00		EIC Transverse Emittance Growth due to Crab Cavity RF Noise: Estimates and Mitigation, T. Mastoridis (CalPoly) MOYD3		The Quest for the Perfect Cathode, J. Smedley (SLAC) TUYD3		Efficiency and Beam Quality for Positron Acceleration in Loaded Plasma Wakefields, J. Cao (UoO) WEYD3		Update on the Status of the C-Band Engineering Research Facility at LANL, E. Simakov (LANL) THYD3		Radiation Effects in Microelectronics - Why We Need Particle Accelerators, Jonny Pellish (NASA) FRCDE3	
12:30		Model Parameters Determination in EIC Strong-Strong Simulation, D. Xu (BNL) MOYD4		Towards High Brightness from Plasmon-Enhanced Photoemitters, C. Pierce (Cornell) TUYD4		Design and Fabrication of a Metamaterial Wakefield Accelerating Structure, D. Menerich (NIU) WEYD4		Progress on the APS-U Injector Upgrade, J. Calvey (ANL) THYD4		Conference Closing	
13:00		Tolerances of Crab Dispersion at the Interaction Point in the Hadron Storage Ring of EIC, Y. Luo (BNL) MOYD5		Epitaxial Alkali-Antimonide Photocathodes on Lattice-matched Substrates, P. Saha (ASU) TUYD5		Highly Spin-Polarized Electron Beams Generated From Plasma Photocathodes, Z. Nie (UCLA) WEYD5		Emittance Measurements of Nanoblade-Enhanced High Field Cathode, G. Lawler (UCLA) THYD5			
13:30		Chromatic Correction of the EIC Electron Ring Lattice, Y. Cai (SLAC) MOYD6		Commissioning of the ASU Cryocooled 200 kV DC Electron Gun, G. Gevorkyan (ASU) TUYD6		Studies of a PIP-II Mu2e Experiment, M. Cummings (Muons) WEYD6		Arrival Time and Energy Jitter Effects on the Performance of X-ray FERRO, G. Tiwari (BNL) THYD6			
14:00		Lunch Break (90 min) food not provided		Lunch Break (90 min) food not provided		Lunch Break (90 min) food not provided		Lunch Break (90 min) food not provided			
14:30		MOZD — Chair: K. Harkay MOZE — Chair: N. Majernik		TUZD — Chair: M. Palmer TUZE — Chair: M. Borland		WEZD — Chair: M. Curtin WEZE — Chair: H. Andrews		THZD — Chair: W. Fischer THZE — Chair: N. Neveu			
14:30	Introduction to Systems Engineering Concepts, M. Georgsson, S. Biedron, SUZF1	Commissioning of LCLS-II, Y. Ding (SLAC) MOZD1		The Electron/Positron Future Circular Collider, F. Zimmermann (CERN) TUZD1		ARDAP's Perspective on Accelerator Technology Research and Development in the US, B. Carlsten (DOE) WEZD1		Instant Phase Setting in a Large Superconducting Linac, A. Piastun (FRIB) THZD1		Machine Learning-Based Longitudinal Phase Space Prediction of Particle Accelerators, C. Emma (SLAC) THZE1	
15:00		Single Pass High Efficiency THz FEL, A. C. Fisher (UCLA) MOZD2		The International Effort Towards a Muon Collider, D. Stratakis (FNAL) TUZD2		Solid State Active Resonance Induction Technology to Accelerate kA Electron Beam, J. Ellsworth (LLNL) WEZD2		Advances in the ATLAS Accelerator, M. Kelly (ANL) THZD2		Developing Control System Specifications and Requirements for Electron Ion Collider, A. Blednykh (BNL) THZE2	
15:30		Development of Two-Color Sub-Femtosecond Pump/Probe Techniques With X-Ray FELs, Z. Guo (Stanford) MOZD3		Ultimate Limits of Future Colliders, M. Bai (SLAC) TUZD3		Magneton R&D Progress for High Efficiency CW RF Sources of Industrial Accelerators, H. Wang (JLab) WEZD3		Design of 3-GeV High-Gradient Booster for Upgraded Proton Radiography at LANSCE, Yu. Batygin (LANL) THZD3		An Electrodeless Diamond Beam Monitor, S. Kuzikov (Euclid) THZE3	
16:00		Uncertainty Quantification of Beam Parameters in an LIA Inferred from Bayesian Analysis, M. Jaworski (LANL) MOZD4		Plans for Future Energy Frontier Accelerators to Drive Particle Physics Discovery, M. Turner (BNL) TUZD4		Using off Axis Undulator Radiation as a Longitudinal Electron Beam Diagnostic, Q. Marksteiner (LANL) WEZD4		Accelerating Structures for High-Gradient Proton Radiography Booster at LANSCE, S. Kurenov (LANL) THZD4		Gas Sheet Ionization Diagnostic for Transverse Profile Measurement, N. Burger (RadiaBeam) THZE4	
16:30		An ERL-Based Compact X-Ray FEL, F. Lin (ORNL) MOZD5		Experience and Challenges With Electron Cooling of Colliding Ion Beams in RHIC, A. Fedotov (BNL) TUZD5		Micro-Electromechanical Systems Based Multi-Beam Ion Accelerators, Q. Ji (BNL) WEZD5		Modelling H- Injection and Painting in Vertical and Horizontal FFAs Using OPAL, A. Adelman (PSI) THZD5		Recent Developments of the soft X-ray Beam Position Monitor Project, B. Podobedov (BNL) THZE5	
17:00		Accelerator Physics Lessons From CBETA, the First Multi-Turn SRF ERL, K. Deltrick (JLab) MOZD6		DarkSRF: Using Accelerator Technology To Search for a Dark Photon, A. Romanenko (FNAL) TUZD6		Manufacturing the Harmonic Kicker Cavity Prototype for the Electron-Ion Collider, S. Overstreet (JLab) WEZD6		An 8 GeV Linac for the Fermilab 2.5 MW Upgrade, D. Neuffer (FNAL) THZD6		A Time-Resolved Beam Halo Monitor Using Diamond Detectors and High Speed Digitizers, B. Rotter (Nalu) THZE6	
17:30	Alvarado G	Coffee Break (30 min) MOPA		Coffee Break (30 min) TUPA		Coffee Break (30 min) WEPA		Coffee Break (30 min)		BREAK TO CHANGE ATTIRE FOR AWARDS SESSION AND CONFERENCE DINNER	
18:00		Posters (90 min)		Posters (90 min)		Posters (90 min)		Posters (90 min)		Louis Costrell Awards Session Moderator: S. Milton	
18:30		LEGEND Opening / Closing / Awards MC1 Colliders MC2 Photon Sources and Electron Accelerators MC3 Advanced Acceleration MC4 Hadron Accelerators MC5 Beam Dynamics MC6 Beam Instrumentation and Controls MC7 Accelerator Technology MC8 Accelerator Applications MC9 Computing and Data Science for Acc Sys Social Posters Tutorials / Short Courses		Entertainment and Historical Talk: Los Alamos National Laboratory: Beyond Manhattan, Alan B. Carr (LANL) Alvarado DE Moderator: L. Peterson (LANL)		Celebration of Diversity, Equity, and Inclusion in the Accelerator Community, Celebration Speaker: Katherine Saunders Haight, Office of Diversity and Strategic Staffing, LANL (30 minutes) Participative interactive celebration to follow!!!!!! Alvarado DE Moderator: E. Simakov (LANL)		Conference Banquet, Alvarado DE Dress code -Suggested business attire up to black tie if you wish! Cocktails 6 PM Greeting from John Sarrao Deputy Director for Science, Technology, and Engineering, LANL Dinner 6:30 PM Special Performance 7:30 PM Dancing 8:00 PM - Until Dawn Moderator: S. Biedron		LEGEND Opening / Closing / Awards MC1 Colliders MC2 Photon Sources and Electron Accelerators MC3 Advanced Acceleration MC4 Hadron Accelerators MC5 Beam Dynamics MC6 Beam Instrumentation and Controls MC7 Accelerator Technology MC8 Accelerator Applications MC9 Computing and Data Science for Acc Sys Social Posters Tutorials / Short Courses	
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