

## Guide and Program to IPAC'20 as Virtual Conference

- All pre-recorded talks are released online at start of session mentioned.
- There is only one live session, most of the conference is pre-recorded with live chat possibilities.
- Periods when presenters are live in the chat are indicated. Sorry but for some presentations we do not offer a chat with the presenter.
- Access is limited to registered participants with an SPMS account. Special free registration to the virtual IPAC'20 is available until May 10.

### **Timeline:**

*Availabilities of presenters for live chat: see detailed program and information*

Monday 09:00	<b>Opening Session</b> (pre-recorded plus live chat)
Monday 14:00	<b>MC1 Circular and Linear Colliders</b> and <b>MC2 Photon Sources and Electron Accelerators</b> presentations released
Tuesday 09:00	<b>MC3 Novel Particle Sources and Acceleration Techniques</b> and <b>MC4 Hadron Accelerators</b> presentations released
Wednesday 09:00	<b>MC5 Beam Dynamics and EM Fields</b> and <b>MC6 Beam Instrumentation, Controls, Feedback and Operational Aspects</b> presentations released
Thursday 09:00	<b>MC7 Accelerator Technology</b> and <b>MC8 Applications of Accelerators, Technology Transfer and Industrial Relations</b> presentations released
Thursday 14:00	<b>LIVE Prize Award Session and Closing</b> Virtual IPAC'20 (pre-recorded plus live)
Saturday 23:59	Closing of chat

## MON MAY 11 morning - Opening Session (pre-recorded plus interactive chat)

### 09:00 Opening Session

M. Seidel, R. Assmann, F. Chautard	<b>Welcome to IPAC'20 and Opening Remarks</b>
Navin Alahari, GANIL	<b>Virtual Welcome to Caen</b> <b>New Horizons in Nuclear Science: GANIL and Beyond</b>
Fabiola Gianotti, CERN	<b>Status of the Update of the European Strategy for Particle Physics</b>
Jerry Hastings, SLAC	<b>Accelerator-based photon science and its benefits for society</b> <i>speaker online in chat in following periods: ...</i>
Sarah Cousineau, ORNL	<b>Accelerator R&amp;D as a driver for Science</b> <i>speaker online in chat in following periods: Tue 19:00 – 20:00, Wed 19:00 – 20:00</i>
Ben Shepherd, STFC/DL/ASTEC	<b>Permanent Magnets for Accelerators</b> <i>speaker online in chat in following periods: Mo 09:30-12:00, Tu 09:30-13:30, Th 11:00-13:30</i>
Chang Hee Nam, IBS	<b>Laser-Driven GeV Electron Acceleration and Exploration of Nonlinear Compton Scattering with PW Lasers</b> <i>speaker online in chat in following periods: Mon 13:00 – 15:00, Tue 13:00 – 15:00</i>

## MON MAY 11 afternoon – Sessions MC1 and MC2 (pre-recorded plus interactive chat)

### 14:00 MC1 Circular and Linear Colliders

Anke-Susanne Müller, KIT	<b>The Future Circular Collider Study</b> <i>speaker online in chat in following periods: ...</i>
Ferdinand Willeke, BNL	<b>Designs of Electron Ion Colliders</b> <i>speaker online in chat in following periods: ...</i>
Kyo Shibata, KEK	<b>Highlights from SuperKEKB Beam Commissioning</b> <i>speaker online in chat in following periods: ...</i>
Fanglei Lin, JLAB	<b>Exploration of Positron Beams for New Frontier Research</b> <i>speaker online in chat in following periods: ...</i>
Alexei Fedotov, BNL	<b>First Demonstration of Electron Cooling in a Collider</b> <i>speaker online in chat in following periods: Mon 14:00 – 16:00, Tue 15:00 – 17:00</i>

### 14:00 MC2 Photon Sources and Electron Accelerators

Lin Liu, LNLS	<b>Sirius Commissioning Results</b> <i>speaker online in chat in following periods: Mon 19:00 – 21:00, Tue 15:00 – 17:00</i>
Siqi Li, SLAC	<b>Review of Attosecond Free Electron Lasers</b> <i>speaker online in chat in following periods: ...</i>
Chuanxiang Tang, TUB	<b>The First Experimental Demonstration of the Steady-State Microbunching Mechanism</b> <i>speaker online in chat in following periods: Mon 14:00 – 17:00, Tue 14:00 – 16:00</i>
Shan Liu, DESY	<b>First results of the Hard X-Ray Self-Seeding Commissioning at the European XFEL</b> <i>speaker online in chat in following periods: Mon 15:00 – 16:00, Tue 10:00 – 11:00</i>
Luca Giannessi, Elettra	<b>Experiments with Coherent Pulses at FERMI</b> <i>speaker online in chat in following periods: ...</i>
Simon Leemann, LBNL	<b>Applying Machine Learning to Stabilize the Source Size in the ALS Storage Ring</b> <i>speaker online in chat in following periods: Mon 16:00-19:00, Tue 16:00-19:00, Wed 17:00-18:00, and Thu 17:00-19:00</i>
Karsten Holldack, HZB	<b>Alternating the Helicity of X-Ray Photons from an Undulator at Unprecedented Speed</b> <i>speaker online in chat in following periods: Mon 14:00 – 19:00</i>
Porntip Sudmuang, SLRI	<b>Present Status of Siam Photon Source</b> <i>speaker online in chat in following periods: ...</i>

**TUE MAY 12 – Sessions MC3 and MC4 (pre-recorded plus interactive chat)**

**09:00 MC3 Novel Particle Sources and Acceleration Techniques**

- Kirsten Deitrick, CLASSE      **CBETA Beam Results: The First Multi-Turn SRF ERL**  
*speaker online in chat in following periods: Tue 15:00 – 17:00, Wed 15:00 – 17:00, Thu 15:00 – 16:00*
- Xueqing Yan, Peking U.      **Overview of Low Energy Spread Laser Proton Accelerators**  
*speaker online in chat in following periods: ...*
- Sebastien Corde, LOA      **Progress in Plasma-Based Accelerators Driven by Particle Beams**  
*speaker online in chat in following periods: Wed 10:00 – 12:00, Thu 14:00 – 16:00*
- Daisuke Satoh, AIST      **Toward High Power Efficiency and High Gradient Dielectric Assist Accelerating Structure**  
*speaker online in chat in following periods: Web 11:00 – 12:00, Thu 11:00 – 12:00*
- Richard D'Arcy, DESY      **Energy Spread Control in Plasma Wakefield Accelerators**  
*speaker online in chat in following periods: Tue 13:00 – 15:00, 16:00 – 18:00*
- Alessandro Variola, INFN      **Review of Required Proof-Of-Principle-Experiments Towards a Muon Collider**  
*speaker online in chat in following periods: ...*
- Morgan Hibberd, Manchester U.      **Terahertz-Driven Acceleration of a Relativistic Electron Beam**  
*speaker online in chat in following periods: Tue 14:00 – 18:00, Wed 10:00 – 14:00*
- Alexander Zholents, ANL      **A Compact High Repetition Rate Free-Electron Laser Based on the Advanced Wakefield Accelerator Technology**  
*speaker online in chat in following periods: Wed 18:00 – 19:00*
- Arnd Specka, CNRS      **Outcome of the Horizon 2020 Design Study EuPRAXIA for a European Plasma Accelerator Facility**  
*speaker online in chat in following periods: Tue 12:00 - 13:00, Wed 11:00 - 12:00*

**09:00 MC4 Hadron Accelerators**

- Mohammad Eshraqi, ESS      **Status of the Construction and Commissioning of ESS**  
*speaker online in chat in following periods: ...*
- Francesco Grespan, LNL      **IFMIF/EVEDA RFQ Beam Commissioning at Nominal 125 mA Deuteron Beam in Pulsed Mode**  
*speaker online in chat in following periods: Tue 15:00 – 17:00*
- Patrick Dolegieviev, GANIL      **Spiral2 Project Status**  
*speaker online in chat in following periods: Tue 10:00 – 12:00, Wed 10:00 – 12:00*
- Liangting Sun, IMP-CAS      **Status Report on a Low Energy High Intensity High Charge State Heavy Ion Accelerator Facility at Imp**  
*speaker online in chat in following periods: Tue 9:00 – 12:00, 15:00 – 17:00*
- Janet Schmidt, GSI      **The SIS100 RF Systems - Updates and Recent Progress**  
*speaker online in chat in following periods: Tue 10:00 – 12:00, Wed 14:00 – 15:00*
- Masahito Tomizawa, KEK      **Long-Term Beam Position and Angle Stabilities for the J-Parc Main Ring Slow Extraction**  
*speaker online in chat in following periods: ...*
- Charles Peters, ORNL      **Demonstration of Superconducting RF Linac Flexibility for High Power Linacs**  
*speaker online in chat in following periods: ...*
- Myeun Kwon, IBS      **Status of the Raon Heavy Ion Accelerator Project**  
*speaker online in chat in following periods: ...*

**WED MAY 13 – Sessions MC5 and MC6 (pre-recorded plus interactive chat)**

**09:00 MC5 Beam Dynamics and EM Fields**

- Andreas Streun, PSI **Use of Reverse Bending Magnets in MBA Lattices**  
*speaker online in chat in following periods: ...*
- Simona Bettoni, PSI **Effect of Long Response Time Photocathode Materials on Microbunching Instability in Free Electron Laser Facilities**  
*speaker online in chat in following periods: ...*
- Rachel Margraf, Stanford U. **Microbunch Rotation as an Outcoupling Mechanism for Cavity-based X-Ray Free Electron Lasers**  
*speaker online in chat in following periods: Wed 22:30 – 23:00, Thu 4:30 – 5:00, 16:30 – 17:00*
- Gang Xu, IHEP **Longitudinal Injection Using Multi-Frequency RF System**  
*speaker online in chat in following periods: ...*
- Francis Cullinan, MAX IV **Longitudinal Stability with Landau Cavities at MAX IV**  
*speaker online in chat in following periods: Wed 9:00 – 12:00, 14:00 – 17:00, Thu 9:00 – 12:00*
- Aliaksei Halavanau, SLAC **Hollow Electron Beams in a Photoinjector**  
*speaker online in chat in following periods: Wed 14:00 – 16:00*
- Simone Di Mitri, Elettra **Mitigation of Microbunching Instability for Improved FEL Spectral Brightness**  
*speaker online in chat in following periods: Wed 17:30 – 19:30, Thu 8:00 – 9:00, 11:00 – 13:00*

**09:00 MC6 Beam Instrumentation, Controls, Feedback and Operational Aspects**

- Lingrong Zhao, LLP Shanghai **Terahertz Oscilloscope for Ultrashort Electron Beams Diagnostics**  
*speaker online in chat in following periods: Wed 9:00 – 10:30, Thu 16:00 – 17:00*
- Nazanin Samadi, PSI **Review of Source Size Measurement Techniques for Low-Emittance Synchrotron Sources**  
*speaker online in chat in following periods: ...*
- Alexander Scheinker, LANL **Adaptive Feedback Control and Machine Learning for Particle Accelerators**  
*speaker online in chat in following periods: ...*
- Pascal Anger, GANIL **Safety Classified Systems for the Respect of Nuclear Requirements of SPIRAL2 Facility**  
*speaker online in chat in following periods: Wed 10:30 – 12:30, Thu 10:30 – 12:30*
- Elena Fol, CERN **Machine Learning Techniques for Optics Measurements and Corrections**  
*speaker online in chat in following periods: Wed 11:00 – 13:00, Thu 17:00 – 19:00*
- Yaoyao Du, IHEP **Development of Digital Beam Position Monitor for HEPS**  
*speaker online in chat in following periods: ...*
- Serge Bielawski, PhLAM/CERCLA **A New Scheme for Recording Electron Bunch Shapes With High Resolution and Record Recording Length: Principle and Tests at European XFEL**  
*speaker online in chat in following periods: Wed 10:00 – 12:00, 14:00 – 15:00, Thu 18:00 – 19:00*
- Barbara Marchetti, DESY **The PolariX TDS: Experimental Verification of a Next-Generation of Transverse Deflection Structure Working in the X-Band Frequency Regime**  
*speaker online in chat in following periods: Wed 13:00 – 15:00, Thu 9:00 – 11:00*
- Xi Yang, BNL **A Novel Nondestructive Diagnostic Method for Mega-Electron-Volt Ultrafast Electron Diffraction**  
*speaker online in chat in following periods: ...*

**THU MAY 14 Morning – Sessions MC7 and MC8 (pre-recorded plus interactive chat)**

**09:00 MC7 Accelerator Technology**

- Charlotte Barbier, ORNL **A 2MW Mercury Target for Neutron Production**  
*speaker online in chat in following periods: Thu 14:00-16:00*
- Pedro Costa Pinto, CERN **In-Situ Amorphous Carbon Coating of the Beam Screens of LHC's Standalone Magnets**  
*speaker online in chat in following periods: ...*
- Deepa Angal-Kalinin, STFC **Full Energy Beam Exploitation Beam Line on CLARA for Novel Applications**  
*speaker online in chat in following periods: ...*
- Pei Zhang, IHEP **Global Production of SRF Systems**  
*speaker online in chat in following periods: Thu 10:00 – 12:00, 14:00 – 16:00*
- Anna Szwangruber, GSI **SIS100 Dipoles from Design to Testing of Series Magnets**  
*speaker online in chat in following periods: ...*
- Gianluigi Ciovati, JLAB **RF Test Results of a Superconducting Cavity Cooled by a Cryocooler**  
*speaker online in chat in following periods: Thu 14:00 – 15:30, Fri 19:30 – 21:00*
- Bianca Giaccone, FNAL **Plasma Processing to Reduce Field Emission in LCLS-II 1.3 GHz SRF Cavities**  
*speaker online in chat in following periods: Thu 17:00 – 18:00, Fri 17:00 – 18:00*
- Haesoo Jeong, RFHIC **High Efficient GaN/SiC Solid-State Technology for 1.3GHz Superconducting Cavity RF Power Source**  
*speaker online in chat in following periods: ...*
- Gaël Le Bec, ESRF **Magnetic Measurements and Fiducialisation of the ESRF-EBS Magnets**  
*speaker online in chat in following periods: Th10:00 - 11:30, Th 14:00 - 16:30, Fr 10:30 - 11:30*
- Mamdouh Nasr, SLAC **Cryogenic-Copper Accelerating Structures: New Frontier for Beam Brightness, Efficiency and Cost-Capability**  
*speaker online in chat in following periods: ...*
- Taekyun Ha, PAL **Introduction to 3D Printing Techniques for Accelerator Vacuum Systems**  
*speaker online in chat in following periods: Thu 9:00 – 11:00*

**09:00 MC8 Applications of Accelerators, Technology Transfer and Industrial Relations**

- Annalisa Patriarca, Institute Curie **FLASH Radiation Therapy: Accelerator Aspects**  
*speaker online in chat in following periods: Thu 14:00 – 16:00, Fri 14:00 – 16:00*
- Charlotte Duchemin, CERN **CERN-MEDICIS: A Unique Facility for the Production of Non-Conventional Radionuclides for the Medical Research**  
*speaker online in chat in following periods: Thu 9:00 – 11:00*
- Toms Torims, Riga Techn. U. **Development of Hybrid Electron Accelerator System for the Treatment of Marine Diesel Exhaust Gases**  
*speaker online in chat in following periods: Fri 10:00 – 11:30*
- Adrian Fabich, SCK-CEN **Accelerators for Applications in Energy and Nuclear Waste Transmutation**  
*speaker online in chat in following periods: Fri 9:00 – 11:00, Fri 16:00 – 17:00*

**THU MAY 14 Afternoon – Prize Award Session and Closing Virtual IPAC'20 (pre-recorded plus live)**

*NOTE: Chats will be kept open until SAT MAY 16*

14:00	G. Arduini (CERN)	<b>Introduction to Accelerator Prize Session</b>
14:05	tba	<b>EPS-AG/IPAC'20 Bruno Touschek Prize awarded to .....</b> Short presentation by the winner <i>winner online in chat in following periods: ...</i>
14:25	J. Steinmann (ANL)	<b>EPS-AG/IPAC'20 Frank Sacherer Prize awarded to Johannes Steinmann (ANL)</b> Short presentation <i>winner online in chat in following periods: ...</i>
14:45	H. Hotchi (J-PARC)	<b>EPS-AG/IPAC'20 Gersh Budker Prize awarded to Hideaki Hotchi (J-PARC)</b> Short presentation <i>winner online in chat in following periods: ...</i>
15:05	L. Rossi (CERN)	<b>EPS-AG/IPAC'20 Rolf Wideröe Prize awarded to Lucio Rossi (CERN)</b> Short presentation <i>winner online in chat in following periods: ...</i>
15:35	R. Assmann (DESY)	<b>Final Remarks by Chair of SPC</b>
15:45	F. Chautard (GANIL)	<b>Final Remarks by Chair of LOC</b>
15:55	M. Seidel (PSI)	<b>Final Remarks by Chair of OC and Closing</b>
16:05	L. Lin (LNLS)	<b>IPAC'21 in Brazil</b>
16:15	Adjourn	

*NOTE: Chats will be kept open until SAT MAY 16*