# THURSDAY

| | | |
|---|---|---|
| 8:30 | **KEYNOTE ADDRESS**<br>**Mike Dunne, Inertia Enterprises Inc. From NIF ignition to commercial fusion energy** | |
| **TH1** | **Advancements and laser development for fusion I – Chair Leonida Gizzi** | |
| 9:15 | TH1.1 | **Invited – Brendan Reagan, Colorado State University**<br>The Advanced Technology Lasers for Applications and Science (ATLAS) Facility: A new high repetition rate petawatt laser facility at Colorado State University |
| 9:45 | TH1.2 | **Franz Kärtner, Center for Free-Electron Laser Science, DESY**<br>Cryogenic Yb:YLF lasers for next-generation fusion drivers: The IFuEL approach |
| | TH1.3 | **Luke McHugh, Central Laser Facility**<br>Development of a prototype laser driver for inertial fusion energy as part of the UPLiFT project |
| | TH1.4 | **Gilles Chériaux, Focused Energy GmbH**<br>Lighthouse: An Inertial Fusion Power Plant with Diode-Pumped, Solid-State Lasers and Direct-Drive, Central Hotspot Ignition |
| 10:30 | **COFFEE BREAK** | |
| **TH2** | **Advancements and laser development for fusion II – Chair Jake Bromage** | |
| 11:00 | TH2.1 | **Invited – Issa Tamer, Lawrence Livermore National Laboratory**<br>Progress on high power Tm:YLF laser development |
| 11:30 | TH2.2 | **Martin Smrz, HiLASE Centre, Institute of Physics of the Czech Academy of Sciences**<br>Adaptive optics design for high-energy kW-class multi-slab laser amplifiers |
| | TH2.3 | **Loïc Meignien, Laboratoire pour l'Utilisation des Lasers Intenses**<br>Reconfigurable laser coherence on LULI2000: Kilojoule coherent, dual-color, and 100 J broadband incoherent regimes for inertial fusion studies |
| | TH2.4 | **Yannik Zobus, GSI Helmholtzzentrum für Schwerionenforschung**<br>Toward digital twins for efficient fusion laser drivers: The LASE-FUSE Project |
| | TH2.5 | **Catherine Le Blanc, Université Paris-Saclay, Institut d'Optique Graduate School, CNRS**<br>LED-pumped Nd:phosphate Master Oscillator Power Amplifier |
| | TH2.6 | **Erik Brambrink, European XFEL GmbH**<br>HAFEN: an instrument for fusion research at European XFEL |
| 12:45 | **LUNCH** | |
| **TH3** | **Novel laser-based particle and radiation sources II – Chair M. Krishnamurthy** | |
| 13:45 | TH3.1 | **Invited - Chang Hee Nam** Strong field physics pursued with PW femtosecond laser |
| 14:15 | TH3.2 | **Wenpeng Wang, Shanghai Institute of Optics and Fine Mechanics**<br>Experimental demonstration of directional and collimated electron acceleration with hollow LG lasers on SULF |
| | TH3.3 | **Stefan Karsch, Ludwig-Maximilians-Universität München**<br>Towards better electron beams: Hybrid acceleration and towards kHz operation at CALA |
| | TH3.4 | **Johannes Hornung, GSI Helmholtzzentrum für Schwerionenforschung**<br>High-charge electron acceleration in the self-modulated laser wakefield acceleration regime at PHELIX |
| | TH3.5 | **Ivan Kargapolov, Weizmann Institute of Science**<br>Optical control of betatron oscillations in laser wakefield acceleration |
| | TH3.6 | **Benjamin M. Knight, Air Force Institute of Technology**<br>Anisotropic neutron generation from a bulk target via kHz-rate extreme interactions |
| | TH3.7 | **Chris Armstrong, Central Laser Facility**<br>Lens-coupled scintillator imaging systems for energetic radiation sources |
| 15:45 | **COFFEE BREAK** | |
| **TH4** | **New enabling technologies metrology and diagnostics II – Chair Issa Tamer** | |
| 16:15 | TH4.1 | **Invited – Thomas Püschel, Helmholtz-Zentrum Dresden-Rossendorf**<br>High-intensity focus and wavefront measurements for plasma accelerator experiments at Draco PW, PEnELOPE and J-KAREN-P |
| 16:45 – 18:30 | TH4.2 | **Mariastefania De Vido, Central Laser Facility**<br>Development of a 100 TW, 100 Hz laser for laser-driven radiation and particle sources |
| | TH4.3 | **Paul Mason, DiPOLE Systems Limited**<br>Design considerations for a compact 20 J multi-slab DPSSL amplifier operating at 100 Hz |
| | TH4.4 | **Markus Loeser, Helmholtz-Zentrum Dresden-Rossendorf**<br>Efficient Energy extraction at the fully diode pumped High-Power Laser System PEnELOPE |
| | TH4.5 | **Olivier Chalis, THALES LAS France**<br>Joule class 100Hz ultra-short pulses TiSa laser |
| | TH4.6 | **János Bohus, Extreme Light Infrastructure ALPS**<br>Thin disk laser heads for Joule level 100 Hz Ti:Sa amplifiers |
| | TH4.7 | **Jorge Rocca, Colorado State University**<br>Advances in high power laser development at Colorado State University |
| | TH4.8 | **Paul A. Williams. National Institute of Standards and Technology**<br>Metrology support for extreme pulsed lasers |
| 19:30 | **Gala Dinner** | |