



## 2023 Annual Program Review Agenda

**Monday, June 26 – Thursday, June 29**  
**InterContinental Mark Hopkins Hotel, San Francisco, CA**

Updated June 28, 2023

### Monday, June 26

- 3:30 – 7:00pm **Registration** — *Lobby Terrace Registration Desk*
- 4:00 – 5:00pm **New Fellow Orientation** — *Taylor Room*
- 5:00 – 7:00pm **Fellows' Welcome Reception** — *California/Powell*  
*A pre-meeting gathering of incoming and first- through fourth-year fellows.*

### Tuesday, June 27

- 6:00 – 7:00am **Breakfast** — *California/Powell*
- 7:00am **Bus Departs for Lawrence Livermore National Laboratory Tour (fellows only)**
- 5:00 – 7:00pm **Off-Site Reception (fellows only)**
- 5:00 – 7:00pm **Registration** — *Lobby Terrace Registration Desk*
- 8:00pm **Bus Returns from Tour**

### Wednesday, June 28

- 7:30 – 9:00am **Registration** — *Lobby Terrace Registration Desk*
- 7:30 – 8:30am **Breakfast** — *Room of the Dons*
- 7:30 – 8:15am **2023 Fellows' Portrait Session & Group Photos** — *Florentine Room*
- 8:30 – 8:45am **Krell Welcome & Essay Slam Award Announcement** — *Peacock Court Ballroom*  
**Shelly Olsan** — President, Krell Institute
- 8:45 – 9:00am **DOE NNSA Welcome**  
**Stephanie Miller** — NNSA Graduate Fellow, Office of Strategic Partnership Programs, Pacific Northwest National Laboratory; DOE NNSA LRGF Alumna
- 9:00 – 9:30am **Keynote**  
**Ellen Cerreta** — Associate Director for Physical Sciences, Los Alamos National Laboratory  
*"An Exciting Time for a Career at an NNSA Lab"*

### Session I — Peacock Court Ballroom

**Moderator: J. Bradley Beck — Workforce Program Director, Los Alamos National Laboratory**

- 9:30 – 9:55am **Sylvia Hanna** — Northwestern University  
*"Identifying Energy-Structure-Property Relationships in Uranium Metal-Organic Frameworks Through Their Dynamic Crystalline Structural Transformations"*
- 9:55 – 10:20am **Patrick Adrian** — Massachusetts Institute of Technology  
*"Studying Particle Transport using Nuclear and X-ray Diagnostics for Discovery Science and Inertial Confinement Fusion at OMEGA and the NIF"*
- 10:20 – 10:30am **Break** — *Peacock Court Ballroom*
- 10:30 – 10:55am **David Chin** — University of Rochester  
*"Electron Structure of Fe<sub>2</sub>O<sub>3</sub> above 700 GPa"*
- 10:55 – 11:20am **Sandra Stangebye** — Georgia Institute of Technology  
*"Characterizing Plastic Deformation Mechanisms in Metal Thin Films Using In Situ TEM Nanomechanics"*
- 11:20 – 11:45am **Justin Cheng** — University of Minnesota  
*"Extreme Mechanical Stability at the Nanoscale Through 3D Interfaces"*
- 11:45am– 1:00pm **Lunch** — *Room of the Dons*

- 1:00 – 4:00pm      **Managing Moments That Matter** — *Peacock Court Ballroom*  
*A Lawrence Livermore National Laboratory-led professional development session focused on honing cultural behaviors that improve a team or organization's communication and overall effectiveness.*
- **Tim Allison** — Senior Organization Development Consultant
  - **John Edwards** — Senior Advisor
  - **Sonia Letant** — Principal Deputy Associate Director, Physical & Life Sciences Directorate
  - **Dennis McNabb** — Deputy for Strategy and Programs
  - **Jenn Sweeney** — Senior Organization Development Consultant
- 4:00 – 4:30pm      **Set Up: DOE Laboratories' Showcase and Fellows' Poster Session** — *Room of the Dons*
- 4:30 – 5:00pm      **DOE Laboratories' Showcase** — *Room of the Dons*
- 5:00 – 6:30pm      **DOE NNSA SSGF and LRGF Fellows' Poster Session** — *Room of the Dons*

**Thursday, June 29**

- 7:30 – 9:00am      **Registration** — *Lobby Terrace Registration Desk*
- 7:30am – 8:30am      **Breakfast** — *Room of the Dons*
- 8:00 – 8:30am      **Outgoing Fellows' Portraits & Fellow/Alumni Retakes** — *Florentine Room*
- 8:45 – 9:00am      **Announcements** — *Peacock Court Ballroom*  
**Ralph Schneider** — Consultant, Krell Institute
- 9:00 – 9:30am      **Keynote**  
**Gabriel Shipley** — 2022 Truman Fellow in National Security Science and Engineering, Sandia National Laboratories, New Mexico; DOE NNSA SSGF Alumnus  
*"Innovation and Advancement of the MagLIF Concept on Z"*
- 9:30 – 10:00am      **Keynote**  
**Travis Voorhees** — Mechanical Engineer, Mechanics of Materials Group, Sandia National Laboratories, California; DOE NNSA LRGF Alumnus  
*"Molybdenum Dynamic Yield Strength Measured via the Tamped RMI Method"*

**Session II — Peacock Court Ballroom**  
**Moderator: Ralph Schneider — Consultant, Krell Institute**

- 10:00 – 10:25am      **Raspberry Simpson** — Postdoctoral Researcher, Lawrence Livermore National Laboratory; DOE NNSA LRGF Alumna (*Outgoing Fellow Talk*)  
*"Towards Tunable Laser-Driven Particle Sources: New Scaling Relationships, Analysis Tools, and Technology in Laser-Driven Particle Acceleration"*
- 10:25 – 10:50am      **Ashley Roach** — University of California, Santa Barbara  
*"Strengthening Trends of Nanovoid Irradiation Defects with Meso-Scale PFDD Modelling"*
- 10:50 – 11:00am      **Break** — *Peacock Court Ballroom*
- 11:00 – 11:25am      **Ryan Childers** — University of Nevada, Reno  
*"Nonthermal Effects on X-ray Radiative Signatures of High-Energy-Density Plasmas Produced in Laboratory Z-pinch"*
- 11:25 – 11:50am      **John Peterson** — Stanford University  
*"Magnetic Field and Radiation Production in Laser-Driven Electron Beams"*
- 11:50am – 12:15pm      **Lauren Fey** — University of California, Santa Barbara  
*"Phase-Field Dislocation Dynamics Modeling of Multi-Component Alloys"*
- 12:15 – 1:30pm      **Luncheon** — *Room of the Dons*

