



2015 Annual Program Review Agenda

Monday, June 29 – Thursday, July 2
Grand Hyatt Washington, Washington, D.C.

Updated Monday, June 29, 2015

Monday, June 29

- 4:00 – 7:00pm **Registration** — *Tiber Creek Foyer, Declaration Level*
- 5:00 – 6:00pm **Welcome Reception** — *Tiber Creek Foyer*
- 6:30 – 8:30pm **New Attendee Dinner** — *Tiber Creek B*
Robert Voigt — Krell Institute

Tuesday, June 30

- 7:30 – 9:00am **Registration** — *Tiber Creek Foyer, Declaration Level*
Registration will move to Constitution Level (general session space) upon conclusion of breakfast.
- 7:30 – 9:00am **Breakfast** — *Tiber Creek AB*
- 8:00 – 8:50am **Photo Session: Incoming Fellows & Fellow/Alumni Retakes** — *Shaw*
- 9:00 – 9:15am **Krell Institute Welcome** — *Constitution B, Constitution Level*
Robert Voigt — Krell Institute
- 9:15 – 9:30am **DOE NNSA Welcome** — *Constitution B*
William Rhodes — General Engineer, National Nuclear Security Administration, U.S. Department of Energy

Session I — *Constitution B, Constitution Level* **Moderator: Chris Bourdon** — Sandia National Laboratories

- 9:30 – 10:15am **Invited Speaker**
Cris W. Barnes — Program Director/MaRIE Capture Manager, ADEPS, Los Alamos National Laboratory
"The Grand Challenge of Materials at the Mesoscale, and the Matter-Radiation Interactions in Extremes Project"
- 10:15 – 10:45am **Elizabeth Miller** — Northwestern University
"Stability of Ni-Infiltrated Solid Oxide Fuel Cell Anodes for Intermediate Temperature Operation"
- 10:45 – 11:15am **Break**
- 11:15 – 11:45am **Adam Cahill** — Cornell University
"A Study of Exploding Wire Plasmas by X-Ray Absorption"
- 11:45am – 12:15pm **Jennifer Shusterman** — University of California, Berkeley
"Development of Organically Modified Mesoporous Silica Materials for Separations of Trivalent Lanthanides and Actinides"
- 12:30 – 1:30pm **Luncheon** — *Tiber Creek AB, Declaration Level*
Nicole Fields — Health Physicist, United States Nuclear Regulatory Commission; DOE NNSA SSGF Alumna
"From Research to Regulation, or Nicole Goes to Washington"

Tuesday, June 30 (continued)

Session II — *Constitution B, Constitution Level*

Moderator: Brad Wallin — Lawrence Livermore National Laboratory

- 1:45 – 2:15pm **Walter Pettus** — University of Wisconsin-Madison
"Background From Cosmogenic Activation in the DM-Ice Dark Matter Experiment"
- 2:15 – 2:45pm **Alex Main** — Stanford University
"Implicit and Higher Order Discretization Methods for Compressible Multi-phase and Fluid-structure Interaction Problems"
- 2:45 – 3:15pm **Samantha Lawrence** — Purdue University
"Vacancy-enhanced Hydrogen Degradation of Ni-201"
- 3:30 – 4:30pm **Photo Session: Fellows & Alumni Groups**
- 4:30 – 5:00pm **Set Up: Fellows' Poster Session** — *Penn Quarter AB, Declaration Level*
- 5:00 – 6:30pm **Fellows' Poster Session** — *Penn Quarter AB*
Kathleen B. Alexander — Assistant Deputy Administrator for Research, Development, Test, and Evaluation; National Nuclear Security Administration, U.S. Department of Energy

Wednesday, July 1

- 7:30 – 9:00am **Registration** — *Penn Quarter AB Foyer, Declaration Level*
Registration will move to Constitution Level (general session space) upon conclusion of breakfast.
- 7:30 – 9:00am **Breakfast** — *Penn Quarter AB*
- 8:00 – 8:50am **Photo Session: Fellow/Alumni Retakes** — *Shaw*

Session III — *Constitution B, Constitution Level*

Moderator: Brad Beck — Los Alamos National Laboratory

- 9:00 – 9:45am **Invited Speaker**
Paul L. Miller — Associate Division Leader, Design Physics, Lawrence Livermore National Laboratory
"NNSA Activities in Planetary Defense"
- 9:45 – 10:30am **Anna Erickson** — Assistant Professor, Nuclear and Radiological Engineering Program, Georgia Institute of Technology; DOE NNSA SSGF Alumna
"Antineutrino Safeguards Approach for High-burnup Reactors"
- 10:30 – 10:45am **Break**
- 10:45 – 11:30am **Kristen John** — NASA Postdoctoral Research Fellow, NASA Johnson Space Center (Astromaterials Research & Exploration Science); DOE NNSA SSGF Alumna
"Asteroids, Dwarf Planets, and Two Weeks in a Box"
- 11:30am – 12:15pm **Richard Kraus** — Research Scientist, Physics Division, Lawrence Livermore National Laboratory; DOE NNSA SSGF Alumna
"Exploring High-Pressure Melt Curves using X-Ray Diffraction"
- 12:15 – 1:15pm **Luncheon** — *Penn Quarter AB, Declaration Level*
Essay Contest Winner Announcement
Bill Cannon — Science Media Manager, Krell Institute

Wednesday, July 1 (continued)

1:30 – 3:30pm

Writing Workshop — *Constitution B*

The ability to explain your research to the scientific community and the public is an essential career skill. Publishing and funding depend on how well you can weave, in words, your way through the complexities of your research for people both inside and outside your field. In this hands-on workshop, experts in science communications and grant writing will show you ways to quickly improve your writing and present an immediate opportunity to put the day's lesson to practice.

- **Randy Black** — Senior Grant Writer/Facilitator, University of California, Riverside
- **Dennis Meredith** — Science Communicator and Author of "Explaining Research: How to Reach Key Audiences to Advance Your Work"

3:00 – 4:00pm

Set Up: DOE Laboratory Poster Session — *Penn Quarter AB*

3:30 – 4:30pm

Break

4:30 – 6:00pm

DOE Laboratory Poster Session — *Penn Quarter AB*

6:30pm –

All-Attendee Reception — *The Loft at The Hamilton (600 14th Street NW)*

Thursday, July 2

8:00 – 10:00am

Closing Breakfast — *Penn Quarter B, Declaration Level*

To include Birds of a Feather discussion tables.

