

2014 ACerS-NSF Ceramic Materials Principal Investigator Workshop

Hyatt House Falls Church, Fairfax, Virginia

Day 1 – Tuesday, June 17

Morning Moderator: Sandrine Ricote, Colorado School of Mines

- 8:00-9:00 Registration and Set-up Posters Group A
- 9:00-9:10 **Welcome from ACerS**
- 9:10-9:20 **Welcome from NSF** – Lynnette Madsen
- 9:20-10:10 3-minute introductions for Group A (15 PI's)
- 10:10-10:50 Break & Poster Session for Group A
- 10:50-11:10 **NIST Overview** – Lynnette Madsen
- 11:10-12:10 3-minute introductions for Group B (15 PI's)
- 12:10-12:40 Set-up Group B Posters and Lunch
- 12:40-1:20 Poster Session for Group B

Afternoon Moderator: Yiquan Wu, Alfred University

- 1:30-2:30 **Writing a Competitive Proposal for Your Next Project Idea** – Lynnette Madsen
- 2:30-2:50 Break & Set-up Posters Group C
- 2:50-3:00 **Update from ACerS**
- 3:00-3:10 Q&A - What is the best thing (for you or others) that you have done with a professional society?
- 3:10-4:00 3-minute introductions for Group C (15 PI's)
- 4:00-4:40 Break & Poster Session for Group C
- 4:40-5:40 **Panel of Mentors for New Faculty** - Greg Rohrer (Carnegie Mellon), Steve Martin (Iowa State), Martha Mecartney (UC Irvine), and Roya Maboudian (UC Berkeley)
- 5:40-7:40 Dinner break

Day 2 – Wednesday, June 18

Morning Moderator: Fanglin Chen, University of South Carolina

- 9:00-11:00 **Mentoring Session:** Jagdish Narayan, North Carolina State University
 - 9:00-9:25 Holistic Approach to Mentoring (Teaching & Research) Next-Generation Materials Scientists
 - **9:25-9:50 Q&A (Mentoring session and from Panel from Day 1)**
 - 9:50 -10:10 Table Discussion/Exercise

Five sessions:

- Complementary Nature of Research and Teaching: Two Faces of the same Coin (Mentoring)
- Implementation of Octahedral Approach (keeping the base strong but responsive to industry needs)
- Undergraduate Curriculum
- Graduate Curriculum
- Role of REUs
- 10:10-10:30 Break & Continue Exercise at Tables

- 10:30-11:00 Report Out from Tables
- 11:00-11:40 **Update on NSF and Ceramics Program** – Lynnette Madsen
- 11:40-11:50 Q&A for NSF Ceramics Program
- 11:50-1:00 Lunch Break

Afternoon Moderator: Shen Dillon, University of Illinois at Urbana Champaign

- 1:00-1:30 **Overview of NSF support for collaborations** (international, industry, other) – Lynnette Madsen
- 1:30-3:10 **National Lab Collaboration Session:** Martha Mecartney, Univ. of California, Irvine
 - 1:30-1:35 Introductions
 - 1:35-2:05 Edgar Lara-Curzio, Director of HTML at ORNL
 - 2:05-2:35 Haimei Zheng, Staff Scientist of NCEM at LBNL
 - 3:00-3:10 What is needed to facilitate collaborations?
 - 2:10-3:30 Report out from Tables
- 3:30-4:40 **How to Effectively Mentor Undergraduates and High School Students in the Lab:** Isabel K. Lloyd, Department of Materials Science and Engineering, University of Maryland
- 4:40-5:00 **Closing Remarks from NSF** – Lynnette Madsen