



**2016 SUMMIT on  
DATA & ANALYTICS FOR MATERIALS RESEARCH**

Northwestern University, Evanston, IL  
October 31 – November 2, 2016

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**Day 1: Monday, October 31**

**Broad view for entire materials community**

- 7:30 AM Shuttle service from Hilton Orrington to Allen Center (meet at front of hotel)
- 8:00 AM - 8:45 AM Registration & breakfast buffet (Allen Center- 1<sup>st</sup> Floor EMP24/25 Lounge)
- 8:45 AM - 8:50 AM Peter Voorhees, Northwestern U, Welcome (Allen Center- McCormick Auditorium)
- 8:50 AM - 9:00 AM James Warren, NIST, Welcome (Allen Center- McCormick Auditorium)
- 9:00 AM - 10:45 AM **Keynote Materials Talks** (Allen Center- McCormick Auditorium)  
**Innovations in Materials Design**, Moderator: Ian Foster, University of Chicago  
Greg Olson, Northwestern University  
Juan de Pablo, University of Chicago
- Data Curation** (Allen Center- McCormick Auditorium),  
Moderator: Chandler Becker, NIST  
John Allison, University of Michigan  
Claudia Draxl, Humboldt University of Berlin
- 10:45 AM- 11:00 AM Coffee Break (Allen Center- 1<sup>st</sup> Floor EMP24/25 Lounge)
- 11:00 AM- 12:45 PM **Keynote Materials Talks**  
(Allen Center- McCormick Auditorium)  
**Materials Analytics**, Moderator: Emine Gulsoy, CHiMaD/Northwestern University  
Elizabeth Holm, Carnegie Mellon University  
Jed Pitera, IBM
- Education, Workforce Development, Diversity, & Industry**,  
(Allen Center- McCormick Auditorium)  
Moderator: Marius Stan, Argonne National Laboratory  
Katsuyo Thornton, University of Michigan  
Alejandro Strachan, Purdue University
- 12:45 PM - 1:00 PM Transition to Lunch
- 1:00 PM - 1:45 PM Lunch (Allen Center- Johnson Wax Dining Room)

- 1:45 PM - 2:00 PM Transition to Norris Hall
- 2:00 PM - 3:00 PM **Keynote Materials Talks** (Norris – Lake Room)  
**Sustainability, Public/Private Partnerships, & Industry**  
Moderator: Ben Blaiszik, University of Chicago  
David Furrer, Pratt & Whitney  
Bryce Meredig, Citrine
- 3:15 PM – 5:00 PM Hands-on Materials Data Demos/Exhibits & Kickoff Reception  
(Norris –Louis Room)  
Exhibitors: ASM, Citrine, MagPie, Materials Data Facility,  
Materials Resource Registry, Materials Data Curator System, National Data  
Services, NanoHub, NanoMine, NIMS MatNavi, NoMaD, OQDB
- 5:00 PM Shuttle service from Norris Hall to Hilton Orrington  
(Meet at the West Exit of Norris Hall)
- 5:00 PM- 7:00 PM CHiMad Student Mixer (Hilton Orrington)

## Day 2: Tuesday, November 1

### Targeted views for Panels & Working Groups

- 8:00 AM Shuttle service from Hilton Orrington to Allen Center (Meet at front of hotel)
- 8:30 AM- 9:30 AM Breakfast buffet (Allen Center- 1<sup>st</sup> Floor EMP24/25 Lounge)
- 9:30 AM - 11:00 AM **Challenges in Data Design for Emerging Reconfigurable Soft Materials**  
(Allen Center- McCormick Auditorium)  
Moderator: Juan de Pablo, University of Chicago  
Marcus Müller, University of Göttingen  
Christopher Spadaccini, Lawrence Livermore National Laboratory  
Alexander Hexemer, Lawrence Berkeley National Laboratory
- 11:00 AM- 11:15 AM Coffee Break (Allen Center- 1<sup>st</sup> Floor EMP24/25 Lounge)
- 11:15 AM – 1:00 PM (*Parallel sessions*)  
**Panel 1: Education, Workforce Development, Diversity & Industry**  
(Allen Center- McCormick Auditorium)  
Moderator: Ricardo Kiyohiro Komai, Northwestern University  
Panelists: Emine Gulsoy, CHiMaD/Northwestern; Elif Ertekin, U of Illinois; Larry Berardinis, ASM for Tom Searles, Materials Data Management/Granta Design  
**WG 1: Overview of Materials Data Curation Tools**  
(Hogan- CHiMaD HQ) Leads: Carelyn Campbell, Ben Blaiszik, Laura Bartolo

- 1:00 PM Shuttle service from [Allen Center](#) to [Hilton Orrington](#)
- 1:30 PM - 2:30 PM Lunch ([Hilton Orrington](#))
- 2:30 PM - 4:30 PM *(Parallel sessions)*  
**Panel 2: Sustainability, Public/Private Partnerships, & Industry**  
[\(Hilton Orrington\)](#) Moderator: Jason Sebastian, Questek  
 Panelists: Ian Foster, U of Chicago; Bryce Meredig, Citrine; Arno Merkle, Zeiss;  
 Charles Ward, AFRL  
**WG 2: International Federation of Materials Resource Registries**  
[\(Hilton Orrington\)](#) Lead: Chandler Becker (NIST)
- 4:30 PM – 5:30 PM Materials Research Posters ([Hilton Orrington](#))
- 5:30 PM – 6:30 PM Summit Reception ([Hilton Orrington](#))
- 6:30 PM - 8:30 PM Dinner ([Hilton Orrington](#))

## Day 3: Wednesday November 2 (Wrap Up/Closing)

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- 7:30 AM Shuttle Service from [Hilton Orrington](#) to [Allen Center](#) ([Meet at front of Hotel](#))
- 8:00AM- 9:00 AM Breakfast buffet ([Allen Center- 1<sup>st</sup> Floor EMP24/25 Lounge](#))
- 9:00AM - 11:00AM *(Parallel sessions)*  
**Panel 3: Introduction to Materials Analytics Introduction & Current Efforts:**  
[\(Allen Center- McCormick Auditorium\)](#)  
 Introduction: Ankit Agrawal, Northwestern University  
 Panelists: Turab Lookman, Los Alamos National Laboratory;  
 Amanda Petford-Long, Argonne National Laboratory
- WG 3: Refine preliminary Materials Data Schemas**  
[\(Hogan- ChiMaD HQ\)](#)  
 Moderators: Carelyn Cambell, Zach Trautt, NIST  
 Atom Probe  
 Mechanical Processing/Thermomechanical Processing (metallic)  
 Phase Diagram  
 Polymer
- 11:00AM - 11:15 AM Break
- 11:15 PM - 12:30PM Report outs by all Panels & WGs/ Summit Closing Session,  
 Peter Voorhees & Carelyn Campbell  
[\(Allen Center- McCormick Auditorium\)](#)
- 12.30PM Adjourn/Lunch & Boxed Lunches To-Go ([Allen Center- 1<sup>st</sup> Floor EMP24/25 Lounge](#))
- 12:45 PM Shuttle Service [Allen Center](#) to [Hilton Orrington](#) ([Meet at the front of Allen Center](#))

Preliminary documents for data curation, materials resource registries, and schemas are available on the Summit home page:

<http://chimad.northwestern.edu/news-events/2016DATA.html>