



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

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

**= Location

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- 1st 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- 1st 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 – 5:00PM Hands-on Materials Data Demos/Exhibits & Kickoff Reception
(Norris – Northwestern 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)

Day 2: Tuesday, November 1

Targeted views for Panels & Working Groups

- 8:45 AM Shuttle service from Hilton Orrington to Allen Center (Meet at front of hotel)
- 9:15 AM- 10:00 AM Breakfast buffet (Allen Center- 1st Floor EMP24/25 Lounge)
- 10:00 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 – 12:45 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; 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
- 12:45 PM- 1:00 PM Transition to Lunch
- 1:00 PM - 2:00 PM Lunch (Allen Center- Johnson Wax Dining Room)
- 1:45 PM- 2:00 PM Transition to Norris Hall

2:00 PM - 4:00 PM *(Parallel sessions)*

Panel 2: Sustainability, Public/Private Partnerships, & Industry

(Norris- Lake Room) 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

(Norris- Rock Room) Lead: Chandler Becker (NIST)

4:00 PM – 5:00 PM Materials Research Posters *(Norris – Northwestern Room)*

5:00PM – 7:00PM Summit Reception *(Allen Center- 1st Floor EMP24/25 Lounge)*

7:00 Pm Shuttle servie from Allen Center to Hilton Orrington
(Meet at the front of Allen Center)

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

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- 1st Floor EMP24/25 Lounge)*

9:00AM - 11:00AM *(Parallel sessions)*

Panel 3: Introduction to Materials Analytics Introduction & Current Efforts:

(Allen Center- McCormick Auditorium)

Moderator: Logan Ward, Northwestern University

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- 1st 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>