

NIST/ CHiMaD Workshop Agenda
Data, Databases, & Discovery
Monday, January 25, 2016

All events will be held in the CHiMaD HQ

- 9.15 am **Welcome**
Peter Voorhees, James Warren, & Laura Bartolo
- 9:30 am **National Data Service & Midwest Big Data Hub**
Ed Seidel (NCSA, NDS, & Midwest BD Hub)
- 10:00 am **Materials Data Facility (30 min)**
Ian Foster (Argonne National Laboratory)
- 10.30 am **Working Groups finalize previous discussions & steps; begin preparation of 15-minute joint presentation on workshop template for afternoon sessions**
- 12:00-1:00 **Lunch**
- 1:00- 2:00 **Working Groups finalize previous discussions & steps; prepare 15-minute joint presentation on workshop template for afternoon sessions**
- 2.00 pm **Working Group 1: MDCS, DSpace, MRR & MDF**
Group Presentation & Questions/Comments)
- 2:20 pm **Working Group 2: Experimental Data**
Group Presentation & Questions/Comments
- 2:40 PM **Working Group 3: Schemas for Polymer Nanocomposite Data**
Group Presentation & Questions/Comments
- 3:00 PM **Working Group 4: Natural Language Processing**
Group Presentation & Questions/Comments
- 3:20 PM **Working Group 5: DFT**
Group Presentation & Questions/Comments

3:40 PM **Working Group 6: Building CALPHAD proto-databases**
Group Presentation & Questions/Comments

4:00 pm Discussions lead by Peter Voorhees & James Warren

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At the Workshop, please use the 2.5-hr working sessions for the WGs to prepare one 15-minute joint presentation about issues, challenges, & proposed next steps

Working Group 1: MDCS, DSpace, MRR & MDF

ANL/UofC: Ian Foster (WG Discussion Leader), Ben Blaiszik

CHiMaD: Laura Bartolo

NIST: Alden Dima, Sharif Youssef, Chandler Becker, Zachary Truatt, Casey Hume, Ray Plante

Possible Areas: NIST Materials Resource Registry & CHiMaD MDF MRR; MDCS DSpace and MDF; metadata in MDF and Registries

Working Group 2: Experimental Data

ANL: Fanny Rodolakis

NIST: Lee Richter, Daniel Sunday, Joe Kline

Northwestern University: Peter Voorhees (ANL), Yip-Wah Chung, Mike Bedzyk, David Seidman, David Dunand, James Coakley, Daniel Sauza, Ding Wen (Tony) Chung

University of Chicago: Paul Nealey (ANL) (WG Discussion Leader); Luping Yu;

Possible Areas: : Explore different data curation methods

Working Group 3: Schemas for Polymer Nanocomposite Data

NIST: Fred Phelan

Northwestern University: Cate Brinson (WG Discussion Leader), Wei Chen, Richard Zhao, Xiaolin Li, Alona Furmanchuk, Yichi Zhang

Possible Areas: Schemas for polymer nanocomposites

Working Group 4: Natural Language Processing & Materials Databases

NIST: Kenneth Kroenlein, Alden Dima; Adele Peskin

University of Chicago: Juan de Pablo (WG Discussion Leader); Roselyne Tchoua

Northwestern University: Alok Choudhary, Ankit Agrawal, Amar Krishna

Possible Areas: Discuss & compare individual natural language processing efforts

Working Group 5: DFT

NIST: Francesca Tavazza (WG Discussion Leader), Ben Burton, Yannick Congo
Northwestern University: Chris Wolverton, Logan Ward, Arindam Paul
University of Chicago/ANL - Giulia Galli, graduate student/post doc
Questek: Jeff Doak

*Possible Areas: high-throughput scripts for DFT, electronic transfer calculations;
DFT benchmarking,*

Working Group 6: Building CALPHAD Proto-Databases

NIST: Carelyn Campbell (WG Discussion Co-Leader); Ursula Kattner; Ken Kroenlein,
Guillaume Sousa Amaral
Northwestern University: Greg Olson (WG Discussion Co-Leader), Wei Xiong,
Peisheng Wang, Matthew Peters,
Questek: Jason Sebastian, James Saal

Possible Areas: Status on open protodata; Getting data into developing databases