

The Pittsburgh Diffraction Society

Established 1943

The 75th Annual Pittsburgh Diffraction Conference

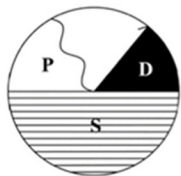
Indiana University of Pennsylvania, October 19-21, 2017

Indiana, Pennsylvania

Scientific Program

The conference will feature six sessions on a wide range of topics from all fields of crystallography, such as **neutron and X-ray powder diffraction, pair distribution functions analysis, materials properties analysis and monitoring, powder diffraction of nanoparticles and metal organic frameworks, magnetic materials, and methods of structural biology**. In addition, a special Symposium will be held in memory of Brian M. Craven and his legacy with the Pittsburgh Diffraction Society.

Preceding the PDS conference, a GSAS-II workshop will be held by **Robert Von Dreele** and **Brian Toby, ANL** on Wednesday, October 18th. This is an excellent opportunity to learn how to use this powerful software directly from the program authors. A special discount is offered for attendees of both workshop and conference.



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Wednesday October 18th

GSAS-II workshop (Chairs Robert Von Dreele, Argonne National Laboratory and Brian Toby, Advanced Photon Source, Argonne National Laboratory)

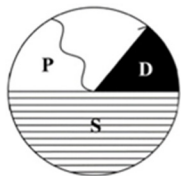
9:00 am – 10:00 pm	GSAS-II workshop
10:00 am – 10:30 am	Coffee break
10:30 am – 12:00 noon	GSAS-II workshop contd.
12:00 noon – 1:30 pm	Lunch
1:30 pm – 3:00 pm	GSAS-II workshop contd.
3:00 pm – 3:30 pm	Coffee break
3:30 am – 5:00 pm	GSAS-II workshop contd.
5:00 pm	Adjournment
7:00 pm – 8:00 pm	Opening Reception

Thursday October 19th

First session:

Neutron powder diffraction studies of magnetic materials (Chair Stuart Calder, HFIR, Oak Ridge National Laboratory)

9:00 am – 9:05 am	Opening Remarks
9:05 am – 9:30 am	William Ratcliff (NCNR, NIST)
9:30 am – 10:00 am	Keith Taddei (High Flux Isotope Reactor, Oak Ridge National Laboratory)
10:00 am – 10:30 am	Coffee break
10:30 am – 11:00 am	John Greedan (McMaster University)
11:00 am – 11:30 am	Simon Kimber (Spallation Neutron Source, Oak Ridge National Laboratory)
11:30 am – 12:00 noon	Martin Mourigal (Georgia Tech)
12:00 noon – 1:30 pm	Lunch



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Second session:

Powder diffraction from nanoparticles

(Chair Cevdet Noyan, Columbia University)

1:30 pm – 1:35 pm

Opening Remarks

1:35 pm – 2:00 pm

Brian Toby, Advanced Photon Source, Argonne National Laboratory

2:00 pm – 2:30 pm

Tim Fawcett, International Center for Diffraction Data

2:30 pm – 3:00 pm

Shangmin Xiong, Columbia University

3:00 pm – 3:30 pm

Coffee

3:30 pm – 4:00 pm

Hande Öztürk, Brookhaven National Laboratory

4:00 pm – 4:30 pm

to be selected from abstract submissions

5:00 pm

Adjournment

7:00 pm – 8:00 pm

Poster session

Friday October 20th

Third session:

Monitoring changes in materials properties through diffraction methods (Chair Cora Lind-Kovacs, University of Toledo)

9:00 am – 9:05 am

Opening Remarks

9:05 am – 9:30 am

Michelle Dolgos, Oregon State University

9:30 am – 10:00 am

Ashfia Huq, Oak Ridge National Laboratory

10:00 am – 10:30 am

Coffee break

10:30 am – 11:00 am

Efrain Rodriguz, University of Maryland

11:00 am – 11:30 am

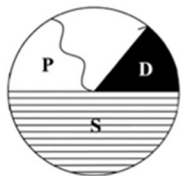
Thao Tran, Johns Hopkins University

11:30 am – 12:00 noon

Leighanne Gallington, Advanced Photon Source, Argonne National Laboratory

12:00 noon – 1:30 pm

Lunch



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Forth session:

The Applications of Emerging Methods of Structural Biology
(Chairs Aina Cohen, SSRL and John Rose, University of Georgia-Athens)

1:30 pm – 1:35 pm

Opening Remarks

1:35 pm – 2:00 pm

Guillermo Calero, University of Pittsburgh

2:00 pm – 2:30 pm

Thomas Grant, University of Buffalo

2:30 pm – 3:00 pm

Jessica Thompson, University of California, San Francisco

3:00 pm – 3:30 pm

Coffee

3:30 pm – 4:00 pm

Aina Cohen, Stanford Synchrotron Radiation Light Source

4:00 pm – 4:30 pm

Leighton Coates, Spallation Neutron Source, Oak Ridge National Laboratory

5:00 pm

Adjournment

5:30 pm – 6:30 pm

Sidhu Award

7:00 pm – 7:30 pm

Social Hour

7:30 pm

Banquet – Poster prizes

Saturday October 21st

Fifth session:

Structural analysis using atomic pair distribution functions
(Chair Pavol Juhas, Brookhaven National Laboratory)

9:00 am – 9:05 am

Opening Remarks

9:05 am – 9:30 am

Simon J. L. Billinge, Columbia University

9:30 am – 10:00 am

Emil S. Bozin, Brookhaven National Laboratory

10:00 am – 10:30 am

Coffee

10:30 am – 11:00 am

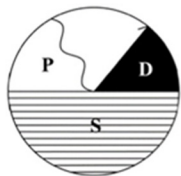
Geneva Laurita, University of California, Santa Barbara

11:00 am – 11:30 am

Daniel P. Shoemaker, University of Illinois

11:30 am – 12:00 noon

Matthew G. Tucker, Spallation Neutron Source, Oak Ridge National Laboratory



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Special seventh session: **Symposium in memory of Bryan M. Craven** (Chair John Rose, University of Georgia-Athens and Aina Cohen, SSRL)

9:00 am – 9:05 am Opening Remarks
9:05 am – 9:30 am **Bi-Cheng Wang**, University of Georgia
9:30 am – 10:00 am **Robert Blessing**, Hauptman Woodward Institute

10:00 am – 10:30 am Coffee

10:30 am – 11:00 am **Nedrain Seman**, New York University
11:00 am – 11:30 am **Helen Berman**, Rutgers University
11:30 am – 12:00 noon **S. Swaminathan**, Brookhaven National Laboratory

12:00 noon – 1:30 pm Lunch

Sixth session: **Powder Diffraction Studies of Metal Organic Frameworks**
(Chair Winnie Wong-Ng, NIST)

1:30 pm – 1:35 pm Opening Remarks
1:35 pm – 2:00 pm **John B. Parise**, Stony Brook University
2:00 pm – 2:30 pm **Andrey A. Yakovenko**, Advanced Photon Source, Argonne National Laboratory
2:30 pm – 3:00 pm **Tomce Runcevski**, University of California at Berkeley

3:00 pm – 3:30 pm Coffee

3:30 pm – 4:00 pm **Craig Brown**, University of Delaware
4:00 pm – 4:30 pm **Andrew J. Allen**, National Institute of Standards

5:00 pm Adjournment