

*The Pittsburgh Diffraction Society*

*Established 1943*

## ***The 75th Annual Pittsburgh Diffraction Conference***

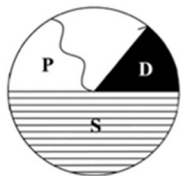
Indiana University of Pennsylvania, October 19-21, 2017

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 18<sup>th</sup>**

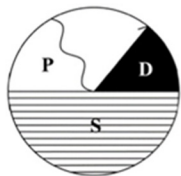
**GSAS-II workshop** (Chairs Robert Von Dreele, Argonne National Laboratory and Brian Toby, Advanced Photon Source, Argonne National Laboratory)

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 19<sup>th</sup>**

**First session:** **Neutron powder diffraction studies of magnetic materials** (Chair Stuart Calder, Spallation Neutron Source, Oak Ridge National Laboratory)

9:00 am – 9:05 am	Opening Remarks
9:05 am – 9:30 am	<b>TBA</b>
9:30 am – 10:00 am	<b>TBA</b>
10:00 am – 10:30 am	Coffee break
10:30 am – 11:00 am	<b>TBA</b>
11:00 am – 11:30 am	<b>TBA</b>
11:30 am – 12:00 noon	<b>TBA</b>
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 20<sup>th</sup>**

**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 Rodriguez**, University of Maryland

11:00 am – 11:30 am

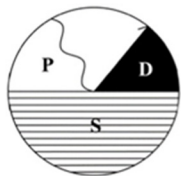
**Thao Tran**, Johns Hopkins University

11:30 am – 12:00 noon

**Leighanne Gallington**, Advanced Photon Source

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 21<sup>st</sup>**

**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

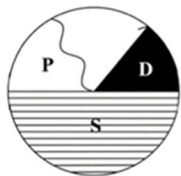
**Geneva Laurita**, University of California, Santa Barbara

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