

Pittsburgh Diffraction Conference 2013

Hauptman Woodward Institute, Buffalo, NY

September 18-20, 2013

September	18 th
-----------	------------------

from 4:00 pm Hotel Registration

5:30-8:30 pm Opening reception at Bacchus Wine Bar and Restaurant

September 19th

8:00 am Conference Registration opens, light breakfast available

9:00 am – 9:10 am Opening introduction – Vivian Cody

First session: RNA and DNA (Chair Clara Kielkopf)

9:10 am – 9:40 am **Ned Seeman**, New York University

"DNA: Not Merely the Secret of Life"

9:40 am – 10:10 am **Guillermo Calero**, University of Pittsburgh

"Crystal structure of RNA polymerase II in complex with

a complete nucleic acid scaffold"

10:10 am – 10:40 am **Joseph Wedekind**, University of Rochester

"PreQ₁ riboswitches use diverse modes of

pyrrolopyrimidine recognition in gene regulation"

10:40 am – 11:00 am Coffee

Second session: Crystallization (Chair Ed Snell)

11:00 am – 11:30 am **John Hunt**, Columbia University

"Rational engineering of improved protein crystallization"

11:30 am – 12:00 noon **Joseph R. Luft**, Hauptman Woodward Institute

"Crystallization Screening: Technologies and Science"

12:00 noon – 12:30 pm **Hilary Stevenson**, University of Pittsburgh

"Nanocrystal Identification and Crystal Optimization by

Electron Microscopy"

12:30 pm – 1:30 pm	Lunch provided
Third session:	Small Molecule Crystallography (Chair Matt Zeller)
1:30 pm – 2:00 pm	Jesse Rowsell, Oberlin College "A Common Supramolecular Motif in Compounds of "H-Acid", featuring the Incommensurately Modulated Phase of the Commercially Important Sodium Hydrate"
2:00 pm – 2:30 pm	Silvina Pagola, College of William and Mary "Crystal structure analysis of organic mechanochemical reaction products from X-ray powder diffraction"
2:30 pm – 3:00 pm	Yurij Mozharivskyj, McMaster University "Elucidating fine structural features and physical properties in responsive materials via single crystal X-ray diffraction"
3:00 pm – 3:30 pm	Coffee
Fourth session:	Short talks to be selected from submitted abstracts
Fourth session: 3:30 pm - 3:50 pm	Short talks to be selected from submitted abstracts tba
3:30 pm – 3:50 pm	tba
3:30 pm – 3:50 pm 3:50 pm – 4:10 pm	tba tba
3:30 pm – 3:50 pm 3:50 pm – 4:10 pm 4:10 pm – 4:30 pm	tba tba tba
3:30 pm – 3:50 pm 3:50 pm – 4:10 pm 4:10 pm – 4:30 pm 4:30 pm – 4:50 pm	tba tba tba tba tba
3:30 pm – 3:50 pm 3:50 pm – 4:10 pm 4:10 pm – 4:30 pm 4:30 pm – 4:50 pm 4:50 pm – 5:10 pm	tba tba tba tba tba tba
3:30 pm – 3:50 pm 3:50 pm – 4:10 pm 4:10 pm – 4:30 pm 4:30 pm – 4:50 pm 4:50 pm – 5:10 pm	tba tba tba tba tba tba
3:30 pm – 3:50 pm 3:50 pm – 4:10 pm 4:10 pm – 4:30 pm 4:30 pm – 4:50 pm 4:50 pm – 5:10 pm 5:10 pm – 5:30 pm	tba tba tba tba tba tba tba tba tba

September 20th

Fifth session: New Diffraction Technologies (Chair John Rose)

9:00 am – 9:30 am **Aina Cohen**, SLAC National Accelerator Laboratory

"Femtosecond high-resolution diffraction studies at

LCLS"

9:30 am – 10:00 am Flora Meilleur, Oak Ridge National Laboratory

"Locating Hydrogen Atoms in Enzymes Using Neutron

Protein Crystallography"

10:00 am – 10:30 am **Marian Szebenyi**, Cornell University

"Developments and Opportunities for Structural Biology

at MacCHESS"

10:30 am – 11:00 am Coffee

11:00 am – 11:30 am **John Rose**, University of Georgia

"The SER-CAT Virtual Beamline: Lessons learned when

over 95% of all data is collected remotely"

11:30 am – 12:00 noon **Roger Durst**, Bruker AXS

"Design and Characteristics of MetalJet X-Ray Sources"

All member business meeting:

12:00 noon – 1:00 pm

1:00 pm Lunch provided