

## **65<sup>th</sup> Annual Pittsburgh Diffraction Conference**

**25<sup>th</sup>, 26<sup>th</sup>, and 27<sup>th</sup> October 2007**

**Hauptman-Woodward Institute  
Buffalo, New York**

<http://www.hwi.buffalo.edu>

**Visit <http://pittedifsoc.org>  
or contact Robert Blessing  
[blessing@hwi.buffalo.edu](mailto:blessing@hwi.buffalo.edu)**

### **SCIENTIFIC SESSION TOPICS**

**High Throughput Biomolecular Crystallization and  
Crystal Growth Optimization**

organized by Joseph Luft (HWI, [luft@hwi.buffalo.edu](mailto:luft@hwi.buffalo.edu))

**Technical Advances in Biocrystallography with  
Synchrotron X-Rays and Spallation Neutrons**

organized by Edward Snell (HWI, [esnell@hwi.buffalo.edu](mailto:esnell@hwi.buffalo.edu))

**Biomolecular Dynamics in Crystals**

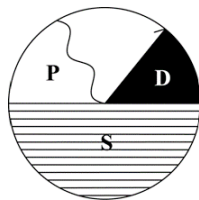
organized by George Phillips (U. Wisc., [phillips@biochem.wisc.edu](mailto:phillips@biochem.wisc.edu))

**Small Angle Scattering Analysis of Biomolecular Structures**

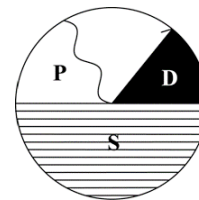
organized by Wayne Schultz (HWI, [schultz@hwi.buffalo.edu](mailto:schultz@hwi.buffalo.edu))

**Crystal Structures by Powder XRD and  
XRD Phasing by Charge Density Flipping**

organized by Robert Von Dreele (APS, IPNS, Argonne Nat. Lab.,  
[vondreele@anl.gov](mailto:vondreele@anl.gov)) and John Spence (Ariz. State U., [spence@asu.edu](mailto:spence@asu.edu))



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Hauptman-Woodward Institute  
700 Ellicott Street, Buffalo, New York, 14203  
<http://hwi.buffalo.edu>

**ACCOMMODATIONS**

DoubleTree Club Hotel  
125 High Street, Buffalo, New York 14203  
Tel. 716-845-0112. <http://doubletree.hilton.com>

A block of rooms at \$85 per night (tax included, \$8 valet parking not included) is being held until 10th October for the "Pittsburgh Diffraction Conference". The hotel is a 5 min walk from HWI, and a 20 min, \$20 taxi ride from the Buffalo-Niagara Airport.  
**Please reserve directly with the hotel.**

**REGISTRATION**

**By Friday, 28th September**, all participants, *including invited speakers*, must register. Please fill in and send the accompanying registration form and a check for the registration fee (and box lunch and banquet tickets) to:  
Charles Lake  
Department of Chemistry, Indiana University of Pennsylvania, Indiana, PA 15705.  
Fax. 724-357-2437. [lake@iup.edu](mailto:lake@iup.edu)

**ABSTRACTS**

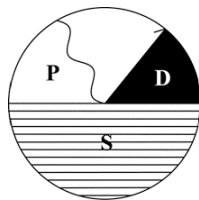
**By Friday, 14<sup>th</sup> September**, abstracts for all, *including invited*, talks and posters must be sent to:  
Robert Blessing  
Hauptman Woodward Institute  
[blessing@hwi.buffalo.edu](mailto:blessing@hwi.buffalo.edu)

**SIDHU AWARD NOMINATIONS**

**By Friday, 28th September**, nominations for the Sidhu Award should be sent to:  
George DeTitta  
Hauptman-Woodward Institute  
[detitta@hwi.buffalo.edu](mailto:detitta@hwi.buffalo.edu)

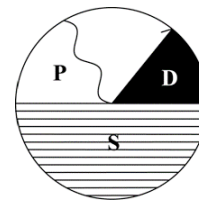
**STUDENT TRAVEL AWARDS**

**By Friday, 14<sup>th</sup> September**, students who wish to apply for travel support should send an abstract and a brief letter stating why they believe that they should receive a travel award to:  
Robert Blessing  
Hauptman Woodward Institute  
[blessing@hwi.buffalo.edu](mailto:blessing@hwi.buffalo.edu)



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### ADDITIONAL CONFERENCE INFORMATION

**Accommodations.** In at least some of the hotel rooms, up to three guests can be accommodated. The hotel rate does not include breakfast, but the hotel does have a breakfast and lunch café. Start-of-the-day coffee, tea, juice, and small pastries or bagels will be provided at HWI before the start of the morning scientific sessions, and morning and afternoon session breaks will provide hot and cold drinks and cookies.

**Box Lunches.** There are only a couple of restaurants very close to HWI for lunch, but there are several within a ten or so minutes walk. For those who choose, and so indicate on their registration forms, a box lunch will be available on site at HWI.

**Conference Banquet.** The Friday evening conference banquet will be held in the Jacobs Center (<http://mgt.buffalo.edu/jacobs/index.shtm>), a SUNY-Buffalo facility housed in a beautiful turn-of-the-century Buffalo mansion designed by Stanford White. The Center is a five to ten minutes walk from either HWI or the DoubleTree Court conference hotel. The \$60 price of the banquet ticket includes cocktails before a wine-accompanied dinner that will include appetizer, main course, and dessert.

For those PDC members whose roots are deep in the Crystallography Lab and Department in Thaw Hall at Pitt, the banquet setting has a special significance. Stanford White (1853-1906, [http://en.wikipedia.org/wiki/Stanford\\_White](http://en.wikipedia.org/wiki/Stanford_White)), designer of the mansion in which our banquet will be held, was a most prominent American *Beaux Arts* architect, and a notorious womanizer. He actively fancied the beautiful Evelyn Nesbit (1884-1967, [http://en.wikipedia.org/wiki/Evelyn\\_Nesbit](http://en.wikipedia.org/wiki/Evelyn_Nesbit)), an artists' model and chorus girl, who was also fancied, and being wooed, by White's fellow chorus-girl aficionado, Harry Thaw (1871-1947, [http://en.wikipedia.org/wiki/Harry\\_K.\\_Thaw](http://en.wikipedia.org/wiki/Harry_K._Thaw)), the privileged, playboy-son of Pittsburgh railroad baron William Thaw. In a murderous, insanely jealous rage, Thaw, in the company of Miss Nesbit, shot White to death at the 1906 premier performance of *Mam'zelle Champagne* in Madison Square Garden. In 1910, perhaps to redeem its murder-tarnished name, the Thaw family contributed Thaw Hall to the University of Pittsburgh (<http://upload.wikimedia.org/wikipedia/en/7/7d/ThawPitt.jpg>).

Those who knew him will remember that "Jeff" (Professor George Alan Jeffrey, 1915-2000, <http://img.cryst.bbk.ac.uk/bca/Obits/GAJ.html>) relished the tale of the building in which his lab and department resided.



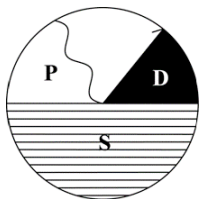
**Sidhu Award.** The Sidhu Award is made to a scientist who is within five years of receiving the Ph.D. and who has made an outstanding contribution to crystallography or diffraction science. The award honors the memory of Professor Surhain Sidhu, who, while Professor of Physics and Director of the X-Ray Laboratory at the University of Pittsburgh, was a founding member of the Pittsburgh Diffraction Society in 1942. Later, Dr. Sidhu moved to Argonne National Laboratory, where he pioneered the use of the null matrix technique in neutron diffraction. The procedure involves choosing isotopes of an element in the proportion that gives a zero net coherent scattering factor. This technique has been widely used for studying biological materials in which the isotopic ratio of H to D is appropriately adjusted.

Nominations for the Sidhu Award should be sent to Dr. George DeTitta at HWI ([detitta@hwi.buffalo.edu](mailto:detitta@hwi.buffalo.edu)) by Friday 28<sup>th</sup> September 2007.

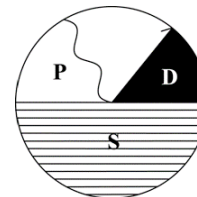
**Chung Soo Yoo Award.** The Chung Soo Yoo Award is given to the graduate student who presents the best poster at the annual Pittsburgh Diffraction Conference. The award was established by the Pittsburgh Diffraction Society to honor the memory of Dr. Chung Soo Yoo, Adjunct Associate Professor in the Department of Medicinal Chemistry and Research Associate in the Department of Crystallography of the University of Pittsburgh, who was killed in the Korean Airlines Flight 007 disaster of August 31, 1983. Dr. Yoo came to the U.S. from Korea in 1965, obtained his M.S. degree in Chemistry at Rice University in 1967, his PhD in Crystallography at the University of Pittsburgh in 1971, and became a U.S. citizen. He was a member of the Biocrystallography Laboratory of the Veterans Administration Medical Center in Pittsburgh. Among students and colleagues in Pittsburgh, Dr. Yoo was one of the most likeable crystallographers, and was always very enthusiastic about the Pittsburgh Diffraction Conference.

Selection of the Chung Soo Yoo awardee will be made at the conference by a jury of poster examiners. Students who wish to enter their posters into the award competition should print the phrase "Chung Soo Yoo Award Candidate" prominently beneath their abstracts.

**Student Travel Awards.** Four travel grants of \$300 will be awarded. The student award winners will make an oral presentation of their work at the meeting. Preference will be given to students whose work best fits into the scientific session topics. Students who wish to apply for travel support should send an abstract and a brief letter stating why they believe that they should receive a travel award to Dr. Robert Blessing at HWI ([blessing@hwi.buffalo.edu](mailto:blessing@hwi.buffalo.edu)).



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**PRELIMINARY SCIENTIFIC PROGRAM**  
(Updates and details will be web-posted as they become available.)

Thursday morning

**High Throughput Biomolecular Crystallization  
and Crystal Growth Optimization**

Joseph Luft (HWI, [luft@hwi.buffalo.edu](mailto:luft@hwi.buffalo.edu)), Chairman Organizer  
George DeTitta (HWI)  
Michael Malkowski (HWI)  
Robert Thorne (Cornell)  
Masoud Vedadi (U. Toronto)

Thursday afternoon

**Technical Advances in Biocrystallography with  
Synchrotron X-rays and Spallation Neutrons**

Edward Snell (HWI, [esnell@hwi.buffalo.edu](mailto:esnell@hwi.buffalo.edu)), Chairman Organizer  
Aina Cohen (SSRL)  
Richard Gillilan (MacCHESS)  
Dean Myles (Oak Ridge)  
Joseph Wedekind (U. Rochester)

Thursday evening

**Poster Session and Social Mixer**

Friday Morning

**Biomolecular Dynamics in Crystals**

George Phillips (U. Wisc., [phillips@biochem.wisc.edu](mailto:phillips@biochem.wisc.edu)), Chairman Organizer  
Mark Gerstein (Yale)  
Ethan Merritt (U. Washington)  
Friedrich Schotte (NIH)  
Vukica Srajer (Argonne)

Friday afternoon

**Small Angle Scattering Analysis of Biomolecular Structures**

Wayne Schultz (HWI, [schultz@hwi.buffalo.edu](mailto:schultz@hwi.buffalo.edu)), Chairman Organizer  
Pachalis Alexandridis (SUNY Buffalo)  
Gregory Hura (Lawrence Berkley)  
Jessica Lamb (Cornell)  
Jill Trehwella (U. Utah)  
Hiro Tsuruta (SSRL)

Friday evening

**Conference Banquet**

Saturday morning

**Crystal Structures by Powder XRD and  
XRD Phasing by Charge Density Flipping**

Robert Von Dreele (Argonne, [vondreele@anl.gov](mailto:vondreele@anl.gov)), Chairman Organizer  
Jennifer Doebbler (Argonne)  
Scott Misture (Alfred U.)  
John Spence (Arizona State U.)  
Angus Wilkinson (Georgia Tech.)

## PDC Buffalo 2007. REGISTRATION FORM

Title and full name (Please print or type):

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Preferred name for your meeting badge:

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Mailing address (Please indicate if HOME  or WORK ):

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Phone numbers:    Work: \_\_\_\_\_

                                 Home: \_\_\_\_\_

eMail: \_\_\_\_\_

Please indicate if you are presenting a Poster  or an Invited Talk .

Registration Fee, Dues, Box Lunch Tickets, and Banquet Ticket (\$US amounts):

- |   |      |
|---|------|
| <input type="checkbox"/> Non-student (waived for invited speakers) .....              | \$75 |
| <input type="checkbox"/> Student .....  | \$25 |
| <input type="checkbox"/> Biennial Membership Dues (waived for invited speakers) ..... | \$10 |
| <input type="checkbox"/> Thursday Box Lunch .....                                     | \$10 |
| <input type="checkbox"/> Friday Box Lunch .....                                       | \$10 |
| <input type="checkbox"/> Banquet Ticket .....   | \$60 |
| <input type="checkbox"/> French Roast Chicken Breast with Herb Sauce                  |      |
| <input type="checkbox"/> Vegetable Ratan over Polenta                                 |      |

TOTAL ..... \$ \_\_\_\_\_

Checks drawn on a US bank should be payable to "The Pittsburgh Diffraction Society" and mailed to:

Charles H. Lake  
Department of Chemistry  
Indiana University of Pennsylvania  
Indiana, PA 15705