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## Make Plans Now for Bruker/MIT Symposium 2015

## **By Dr. Peter Müller**, Massachusetts Institute of Technology, Cambridge, MA, USA

The annual Bruker/MIT Symposium is a small but high-quality event hosted by MIT's Department of Chemistry and funded by Bruker AXS. The circumstance that this symposium has been compared to a Gordon Conference more than once attests to the high level of excellence of the scientific presentations and the great overall atmosphere. This year's Symposium will be the 19th of its kind and it is going to take place on **Saturday**, **February 21<sup>st</sup>, 2015**. As always, there will be cutting-edge talks, this year about "Polymorphism and Crystal Engineering". Among others, the following speakers have agreed to present:

Allan S. Myerson is Professor of Chemical Engineering in the Department of Chemical Engineering at the Massachusetts Institute of Technology. Professor Myerson was educated at Columbia University (BS) and the University of Virginia (MS and PhD). Professor Myerson's research focuses on separations processes in the chemical and pharmaceutical industry with an emphasis on crystallization from solution. He has published 5 books, including the "Handbook of Industrial Crystallization", 200 papers and is the inventor on 37 US patents. Professor Myerson has consulted for approximately 100 companies worldwide and was honored in 2008 with the American Chemical Society's Award in Separations Science and Technology.

Sarah (Sally) Price trained as a theoretical chemist at the University of Cambridge, specializing in deriving models of the forces between molecules from their wave functions. She worked at the Universities of Chicago and Cambridge before becoming a lecturer at University College London, where she is now a Professor. Professor Price works on developing the computational modelling of the organic solid state, spurred on by collaboration with experimental groups and dreams of there being a computational method of polymorph prediction. For her work on the computational modelling of polymorphism, she was awarded the 2005 Royal Society of Chemistry's Industrially-Sponsored award in Statistical Mechanics and Simulation, and is currently the Chair of the Royal Society of Chemistry Special Interest group in Theoretical Chemistry. She has an H-index of 50 from about 175 papers.



Workshop 2014

**Susan Reutzel-Edens** is a Senior Research Advisor in Small Molecule Design & Development at Eli Lilly and Company. She obtained her B.S. degree in chemistry from Winona State University (1987), then earned her Ph.D. in organic chemistry at the University of Minnesota (1991) under the direction of the late Professor Margaret C. Etter. Dr. Reutzel-Edens brought her experience in hydrogen-bond directed cocrystallization and interest in crystal polymorphism to Eli Lilly, where she developed and continues to lead the Solid-State Form Design program that is charged with finding commercially viable crystalline forms with which to consistently deliver Lilly drugs in a safe and efficacious manner.

Joel Bernstein (Ben-Gurion University, Israel; NYU Abu Dhabi; NYU Shanghai) is one of the world's most eminent experts on polymorphism. After obtaining a B.A. degree at Cornell University, he earned a Ph.D. degree in physical chemistry at Yale University for research on the solid-state spectroscopy of organic compounds. Following twoyear postdoctoral stints in X-ray crystallography with Ken Trueblood at UCLA and in organic solidstate chemistry with Gerhardt Schmidt at the Weizmann Institute of Science in Rehovoth, Israel, he joined the faculty of the newly established Ben-Gurion University of the Negev, where until January, 2010 he was the incumbent of the Carol and Barry Kaye Professorship of Applied Science in the Department of Chemistry, and is now Professor Emeritus. Since September 2010 Dr. Bernstein has been affiliated with New York University, currently as Global Distinguished Professor of Chemistry, first in Abu Dhabi, and currently in Shanghai. His research interests center on the organic solid state, with particular emphasis on understanding and utilizing polymorphism, structure-property relationships, hydrogen-bonding patterns and graph sets and organic conducting materials. He has published over 190 research and review articles and book chapters on these subjects and is the sole author of a book titled "Polymorphism in Molecular Crystals", published by Oxford University Press and translated into Russian. In 1999 he was elected a Fellow of the American Association for the

Advancement of Science and has served as a consultant to many multinational pharmaceutical companies and as a testifying witness in patent litigations on the solid-state chemistry of drugs. His career has been punctuated by visiting professorships at the University of Illinois, Cornell University, the University of Minnesota, the University of Barcelona, the University of Bologna and as a visiting scientist at the Cambridge (UK) Crystallographic Data Centre, and two years (2010-2011) as Professor-at-Large at the University of Western Australia, Perth.



Speakers 2014

As always, participation is free of charge, however the lecture hall has limited capacity and participants for both the Symposium and the workshop will be accepted on a first-come-first-served basis. Therefore it is advisable to register as early as you can, as I expect a large number of registrations. Once we book the lecture hall, we will have a set maximum number of possible participants and I may not be able to accept late registrations!

As in the last years, there will be a poster prize, generously sponsored by Bruker AXS.

**More information** about the Symposium can be found here:

http://web.mit.edu/x-ray/bmit15.html http://web.mit.edu/x-ray/bmit-schedule.html If you plan to visit us from farther away, I have negotiated a deal with Le Meridien Hotel (the former Hotel @ MIT) and you may **make room reservations** for \$159 USD per night (plus applicable taxes) at this web page:

https://www.starwoodmeeting.com/StarGroupsWe b/booking/reservation?id=1412096728&key=26CE7 0B2 The room reservation deadline is January 19, 2015. This is a hard deadline that will not be extended.

**To register** for the 2015 Bruker/MIT Symposium follow the links or click here: http://web.mit.edu/x-ray/bmit-rsvp.html