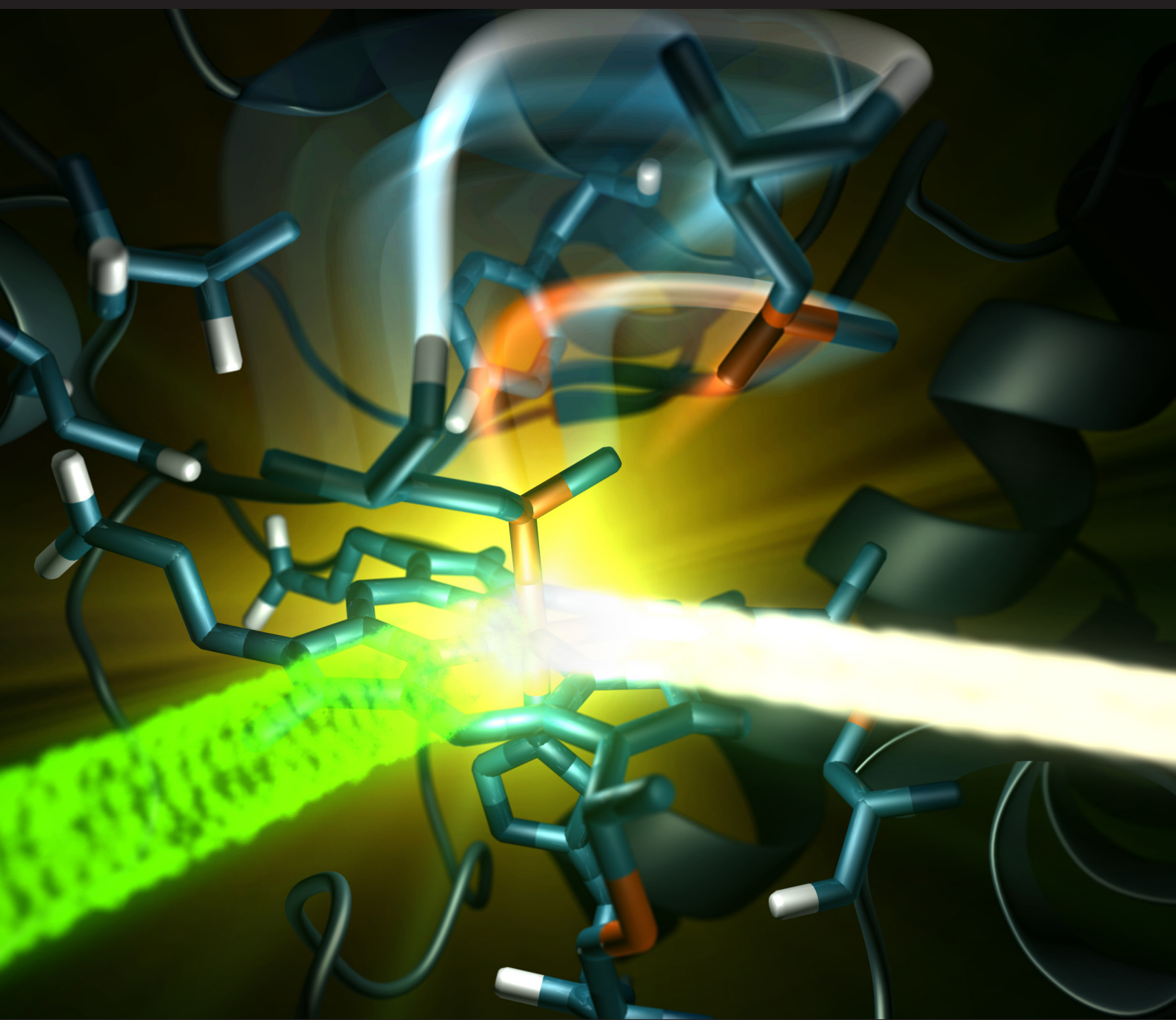


2nd International Conference on

Applied Crystallography

October 16-17, 2017 | Chicago, USA



Conference Series - America

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA P: +1-702-508-5200, F: +1-650-618-1417

Conference Series - UK

Kemp House, 152 City Road, London EC1V 2NX Toll Free: +1-800-216-6499

ZURICH

conference**series**.com 08:50-09:10

Opening Ceremony

Keynote Forum

- 09:10-09:20 Introduction
- 09:20-09:50 Title: Crystal nucleation and growth in undercooled melts of metals and alloys
Dieter Herlach, German Aerospace Centre, Germany
- 09:50-10:20 Title: Synthesis of 2D flatlands beyond graphene
Eui-Hyeok Yang, Stevens Institute of Technology, USA

Panel Discussion

Networking & Refreshment Break 10:20-10:40 @ Athens

- 10:40-11:10 Title: X-ray diffraction reveals the mechanical load tolerance of mammalian nerve, muscle and tendon in traumatically induced injury and the vertebrate identity of fossilized T-REX bone
Joseph Orgel, Illinois Institute of Technology, USA
- 11:10-11:40 Title: Structure, design and function of pyro electric crystals
Meir Lahav, Weizmann Institute of Science, Israel

Session 1:

Advanced Crystallography | Crystallography in Biology | Chemical Crystallography | Crystal Growth

Session Chair: J. Rouquette, Université Montpellier, France

Session Introduction

- 11:40-12:00 Title: Non-destructive studies of microstructure and elemental composition of crystalline materials through energy-resolved neutron imaging
Anton S. Tremsin, University of California at Berkeley, USA
- 12:00-12:20 Title: Crystal structures of polymers: Will PDF paves the way to greater understanding?
Bernd Hinrichsen, BASF SE, Germany
- 12:20-12:40 Title: Observation of π electron in metal hexaboride through X-ray charge density
Eiji Nishibori, University of Tsukuba, Japan
- 12:40-13:00 Title: Atomic view of the histidine environment stabilizing higher-pH conformations of pH-dependent proteins
Franck Artzner, Rennes University, France

Panel Discussion

Group Photo @ Zurich

Lunch Break 13:00-13:50 @ Athens

- 13:50-14:10 Title: On the application of molecular simulation tools in studies of organic molecular crystals. (i.e. Modelling disorder and other crystalline properties)
Eric J Chan, Bristol Myers Squibb, USA
- 14:10-14:30 Visualization of evaporative crystallization dynamics probed by fluorescence colour changes
Fuyuki Ito, Shinshu University, Japan
- 14:30-14:50 Title: Understanding interface and surface structures of Nano-phases in natural Fe-oxyhydroxide and Fe-bearing olivine minerals
Huifang Xu, University of Wisconsin-Madison, USA
- 14:50-15:10 Title: Interplay between H-bonding and charge ordering in $\text{Fe}_3(\text{PO}_4)_2(\text{OH})_2$ barboselite.
J. Rouquette, Université Montpellier, France

- 15:10-15:30** Title: Applications of crystallography data in force-field and density functional theory calculations: JARVIS database.
Kamal Choudhary, NIST, USA
- 15:30-15:50** Title: Structural study of sulfide glassy electrolytes for all-solid-state batteries.
Koji Ohara, JASRI/SPring-8, Japan

Panel Discussion

Networking & Refreshment Break 15:55-16:10 @ Athens

Session 2:

Advanced Crystallography | Crystallography in Biology | Chemical Crystallography | Crystal Growth

Session Chair: Rama S Madhurapantula, Illinois Institute of Technology, USA

Session Introduction

- 16:10-16:30** Title: Designing chiral metal-organic assemblies
Michal Lahav, Weizmann Institute of Science, Israel
- 16:30-16:50** Title: Old forces to create new materials
Milko E. van der Boom, Weizmann Institute of Science, Israel
- 16:50-17:10** Title: Nonlinear crystallography with structured light: Classical and quantum optics effects
Rocio Jauregui, National Autonomous University of Mexico, Mexico
- 17:10-17:30** Title: Fabrication of single crystal silicon nanowires by metal assisted chemical etching with Nano imprinted barrier pattern
Seok-min Kim, Chung-Ang University, Republic of Korea
- 17:30-17:50** Title: 'Crystal genes' in metallic liquids and glasses
Feng Zhang, Ames Laboratory US Department of Energy, USA
- 17:50-18:00** Title: Structural and functional studies of actin interacting protein 5, a novel actin assembly regulator in *Saccharomyces cerevisiae*
Sun Jialin, Nanyang Technological University, Singapore

Panel Discussion

Session Adjournment

Day 2 October 17, 2017

ZURICH

Keynote Forum

- 09:00-09:10** Introduction
- 09:10-09:40** Title: Static and dynamic atomic disorder in nanocrystalline systems
Paolo Scardi, University of Trento, Italy
- 09:40-10:10** Title: Hydrogen diffusion in nickel single- and poly-crystals: The effects of self-stress
Xavier Feaugas, University of La Rochelle, France
- 10:10-10:40** Title: Disentangle phonon modes using ultrafast electron diffraction and timely-resolved electron crystallography
Yimei Zhu, Brookhaven National Laboratory, USA

Panel Discussion

Networking & Refreshment Break 10:40-11:00 @ Athens

Session 1:

Crystallography of Novel Materials | Electron Crystallography | Recent development in the X-ray studies | Crystallography Applications

Session Chair: Stephan Rosenkranz, Argonne National Laboratory, USA

Session Introduction

- 11:00-11:20** Title: The difference in the P- and T-induced dynamics in breathing crystals
Victor Ovcharenko, International Tomography Center, Russia

11:20-11:40	Title: Structure of viruses from experimental data from an x-ray free electron laser DK. Saldin, Department of Physics, University of Wisconsin-Milwaukee, USA
11:40-12:00	Title: Structural changes in Type I collagen from non-enzymatic glycation revealed by isomorphous X-ray diffraction Rama. S Madhurapantula, Illinois Institute of Technology, USA
12:00-12:20	Title: Non-covalent interactions that control the self-assembly of organic molecular crystals M. Sithambaresan, Eastern University, Sri Lanka
12:20-12:40	Title: Three parameter crystal-structure prediction for sp-d valent compounds Thomas Hammerschmidt, Ruhr University Bochum, Germany
12:40-13:00	Title: Novel magnetism and local symmetry breaking in a Mott insulator with strong spin orbit interactions Vesna F Mitrovic, Brown University, USA

Panel Discussion

Lunch Break 13:10-14:00 @ Athens

Session 2:

Crystallography of Novel Materials | Electron Crystallography | Recent development in the X-ray studies | Crystallography Applications

Session Chair: Vijeesh P, The Cochin College, India

Session Introduction

14:00-14:20	Title: Growth and growth rate analysis of potassium succinate –crystal Vijeesh P, The Cochin College, India
14:20-14:40	Title: Structural insights into crenezumab's mechanism of action Weiru Wang, Genentech, USA
14:40-15:00	Title: Light-induced crawling motion of azobenzene crystals on a glass surface Yasuo Norikane, NIAIST, Japan
15:00-15:20	Title: Hydration and ion adsorption at yttria-stabilized zirconia (YSZ) – water interface Changyong Park, Carnegie Institution for Science, USA
15:20-15:40	Title: Recent developments in single crystal diffuse scattering: Imaging nanoscale disorder in reciprocal space Stephan Rosenkranz, Argonne National Laboratory, USA

Panel Discussion

Networking & Refreshment Break 15:40-16:00 @ Athens

16:00-16:20	Title: Structural response to pressure in 1111-type iron-based superconductor $\text{LaFeAsO}_{1-x}\text{H}_x$ Kensuke Kobayashi, High Energy Accelerator Research Organization (KEK), Japan
16:20-16:40	Title: Role of crystal structure stability for energy storage applications Awalendra Kumar Thakur, Indian Institute of Technology Patna, India
16:40-17:00	Title: Landyne, a software suite for electron diffraction simulation and crystallographic analysis Xing-Zhong Li, University of Nebraska, USA
17:00-17:20	Title: Double bragg scattering from highly oriented pyrolytic graphite in small-angle X-ray scattering region Yoshinori Ohmasa, Kansai University, Japan
17:20-17:40	Title: How does crystallography affect material properties? Serife Yalcin, Harran University, Turkey

Panel Discussion

Award Ceremony

Thanks Giving & Closing Ceremony