

AGENDA

MONDAY, FEBRUARY 11TH, 2019

- 3:00 PM - ONWARDS** **ARRIVAL AND HOTEL CHECK-IN** [CLICK HERE FOR MAP FROM AIRPORT](#)
HYATT REGENCY MISSION BAY
1441 QUIVIRA RD
SAN DIEGO, CA 92109
- 3:00 PM - 5:00 PM** **CONFERENCE REGISTRATION**
- 8:30 AM - 4:00 PM** **EXTERNAL ADVISORS MEETING**
- 6:00 PM - 7:00 PM** **POSTER SESSION SETUP**

6TH BIOXFEL INTERNATIONAL CONFERENCE

TUESDAY, FEBRUARY 12TH, 2019

- 7:30 AM – 8:30 AM** **LIGHT BREAKFAST**
- 8:35 AM – 8:45 AM** **CONFERENCE WELCOME - MISSION BALLROOM**
Conference Co-Chairs: Brenda Hogue (ASU) and Nadia Zatsepin (ASU)
- 8:45 AM – 11:45 AM** **STRUCTURE FROM SINGLE PARTICLES, FIBRILS, AND NANOCRYSTALS—MISSION BALLROOM**
Session Chairs: TBD
- 8:45 AM – 9:05 AM** Filipe Maia (Uppsala)
High repetition rate single-particle imaging at the European XFEL
- 9:05 AM – 9:15 AM** Discussion
- 9:15 AM – 9:35 AM** David Wojtas (U of Canterbury)
Analysis of XFEL serial diffraction data from individual fibrous assemblies
- 9:35 AM – 9:45 AM** Discussion
- 9:45 AM – 10:05 AM** Brent Nannenga (ASU)
MicroED: cryo-electron diffraction of 3D microcrystals
- 10:05 AM – 10:15 AM** Discussion
- 10:15 AM – 10:45 AM** **COFFEE BREAK**
- 10:45 AM – 11:05 AM** Peter Zwart (LBL)
Recent developments in fluctuation X-ray scattering
- 11:05 AM – 11:15 AM** Discussion
- 11:15 AM – 11:35 AM** Ivan Vartaniants (DESY)
Single-particle imaging without symmetry constraints at an X-ray free-electron laser
- 11:35 AM – 11:45 AM** Discussion

- 11:50 AM – 1:00 PM** **LUNCH GENERAL GROUP**
- 1:00 PM - 2:30 PM** **KEYNOTE SPEAKER: PATRICIA RAUN (VIRGINIA TECH)**
Communicating Science
- 2:30 PM - 3:00 PM** **POSTDOCTORAL AWARD RECIPIENT TALK: BENJAMIN STAUCH (USC)**
- 3:00 PM – 4:50 PM** **NEW VISIONARY METHODS IN SPI AND NANOCRYSTAL IMAGING - MISSION BALLROOM**
Session Chair: TBD
- 3:00 PM – 3:20 PM Ghoncheh Mashayekhi (UWM)
Machine learning delivers more bang for the same data
- 3:20 PM – 3:30 PM Discussion
- 3:30 PM– 3:50 PM Kartik Ayyer (CFEL)
Title TBD
- 3:50 PM – 4:00 PM Discussion
- 4:00 PM – 4:30 PM** **COFFEE BREAK - MISSION TERRACE**
- 4:30 PM – 4:50 PM Saša Bajt (DESY)
Extreme focusing with high numerical aperture X-ray lenses
- 4:50 PM – 5:00 PM Discussion
- 5:00 PM – 5:15 PM** **Speaker TBD**
Title
- 5:15 PM – 5:20 PM** **Discussion**
- 6:00 PM - 9:00 PM** **DINNER AT STONE BREWING [CLICK HERE FOR MAP](#)**
Site is accessible by cab, UBER, or Lyft

WEDNESDAY, FEBRUARY 13TH, 2019

- 8:00 AM – 8:45 AM** **LIGHT BREAKFAST - MISSION TERRACE**
- 8:45 AM – 12:00 PM** **TIME-RESOLVED SERIAL FEMTOSECOND CRYSTALLOGRAPHY - MISSION BALLROOM**
Session Chairs: TBD
- 8:45 AM – 9:05 AM Ilme Schlichting (MPIH)
Ultrafast pump probe experiments: challenges and insights
- 9:05 AM – 9:15 AM Discussion
- 9:15 AM – 9:35 AM Martin Weik (IBS)
Title TBD
- 9:35 AM – 9:45 AM Discussion
- 9:45 AM – 10:00 AM** **Speaker TBD**
Title TBD
- 10:00 AM – 10:05 AM** **Discussion**
- 10:05 AM – 10:30 AM** **COFFEE BREAK - MISSION TERRACE**
- 10:30 AM – 10:50 AM Joerg Standfuss (PSI)
Dynamics of bacteriorhodopsin activation studied using synchrotrons and X-ray lasers
- 10:50 AM – 11:00 AM Discussion
- 11:00 AM – 11:20 AM Emina Stojkovic (NE Illinois U)
Myxobacterial phytochromes as light-regulated enzymes suitable for XFEL studies
- 11:20 AM – 11:30 AM Discussion
- 11:30 AM – 11:50 AM Jose Olmos (Rice)
Enzyme Intermediates Captured by Mix-and-Inject Serial Crystallography with an X-ray
Free Electron Laser
- 11:50 AM – 12:00 PM Discussion
- 12:00 PM – 1:00 PM** **LUNCH GENERAL GROUP**
- 12:00 PM – 1:00 PM** **LUNCH PRESENTATION ON BIOXFEL OPPORTUNITIES FOR UNIVERSITY OF PUERTO RICO
STUDENTS**
- 12:00 PM – 12:45 PM** **LUNCH ASSESSMENT MEETING FOR NEW BIOXFEL GRADUATE STUDENTS (AS OF 2017)**
- 1:00 PM – 4:30 PM** **SERIAL SYNCHOTRON CRYSTALLOGRAPHY AND CRYOEM- MISSION BALLROOM**
Session Chairs: TBD
- 1:00 PM – 1:20 PM Shibom Basu (EMBL)
Serial crystallographic data analysis at the Swiss Light Source
- 1:20 PM – 1:30 PM Discussion

- 1:30 PM – 1:50 PM Jose Martin- Garcia (ASU)
Monochromatic and Poly-chromatic Serial Crystallography at Synchrotron Sources
- 1:50 PM – 2:00 PM Discussion
- 2:00 PM – 2:20 PM Cornelius Gati (Stanford)
Structural Biology of G Protein-coupled Receptors: New Opportunities from XFELs and CryoEM
- 2:20 PM – 2:30 PM Discussion
- 2:30 PM – 3:00 PM COFFEE BREAK - MISSION TERRACE**
- 3:00 PM – 3:20 PM Vignesh Kasinath (Berkeley)
Epigenetic silencing by PRC2: Visualizing Cofactor Mediated Regulation by Cryo-EM
- 3:20 PM – 3:30 PM Discussion
- 3:30 PM – 4:00 PM POSTER BLITZ - MISSION BALLROOM**
Session Chair: TBD
- 4:30 PM – 6:30 PM DINNER ON YOUR OWN**
- 6:30 PM – 7:00 PM MUSICAL PERFORMANCE BY BIOXFEL QUARTET**
- 7:00 PM – 9:00 PM POSTER COMPETITION - REGATTA PAVILION**
7:00 - 8:00 EVEN POSTERS
8:00 - 9:00 ODD POSTERS

THURSDAY, FEBRUARY 14TH, 2019

- 8:00 AM – 8:45 AM LIGHT BREAKFAST - MISSION TERRACE**
- 8:00 AM – 12:00 PM POSTER SESSION CLEAN UP - REGATTA PAVILION**
***If you do not remove your poster you risk it being thrown away.**
- 8:45 AM – 9:55 AM SERIAL CRYSTALLOGRAPHY DATA ANALYSIS DEVELOPMENTS - MISSION BALLROOM**
Session Chair: TBD
- 8:45 AM – 9:05 AM Thomas White (DESY)
Horror stories from serial crystallography data processing, and how CrystFEL can help
- 9:05 AM – 9:15 AM Discussion
- 9:15 AM – 9:35 AM Ti-Yen Lan (Princeton)
Analysis of Sparse Serial Microcrystal Diffraction Data Collected at a Storage-ring Source
- 9:35 AM – 9:45 AM Discussion
- 9:45 AM – 10:00 AM **Speaker TBD**
Title TBD
- 10:00 AM – 10:05 AM **Discussion**

10:05 AM – 12:30 PM SERIAL CRYSTALLOGRAPHY INSTRUMENTAL DEVELOPMENTS - MISSION BALLROOM

Session Chairs: TBD

10:05 AM – 10:25 AM Alke Meents (DESY)

Title TBD

10:25 AM – 10:35 AM Discussion

10:35 AM – 10:55 AM Junko Yano (LBL)

Water oxidation reaction in nature studied by crystallography and X-ray spectroscopy

10:55 AM – 11:05 AM Discussion

11:05 AM – 11:30 AM COFFEE BREAK - MISSION TERRACE

11:30 AM – 11:50 AM Dominik Oberthuer (CFEL)

Improving and re-inventing sample delivery for minimal sample consumption and time-resolved SFX

11:50 AM – 12:00 PM Discussion

12:00 PM – 12:20 PM Juraj Knoska (CFEL)

Novel 3D printed mixers and injectors for time-resolved structural biology

12:20 PM – 12:30 PM Discussion

12:30 AM - 2:00 PM BIOXFEL SAMPLE DELIVERY INTERACTIVE SESSION & LUNCH- LOCATION TBD

Session Chairs: TBD

12:30 PM - 12:45 PM Biology Workshop Discussion

12:45 PM - 1:45 PM Lunch Workshop Session

1:45 PM - 2:30 PM Summary of Sample Delivery Needs for Biology

2:30 PM - 2:45 PM STUDENT SPEAKER AWARD ANNOUNCEMENT

2:45 PM - 3:00 PM GROUP PHOTO

3:00 PM – 5:00 PM BIOXFEL STC MEETING - FOR CENTER MEMBERS ONLY - MISSION BALLROOM

3:00 PM – 5:00 PM 10 min (3 powerpoint) talks on current BioXFEL collaborations.

Speakers in alphabetical order.

John Spence

Review of 2019 BioXFEL Assessment Data

4:00 PM – 4:15 PM COFFEE BREAK - MISSION TERRACE