Sunday, October 14

3:00 pm Check-in

6:00 pm Reception (Lobby)

7:00 pm Dinner

8:00 pm Speed Dating! (Lobby)

9:00 pm Refreshments available at Bob's Pub

NOTE:

Meals are in the **Dining Room**Talks are in the **Seminar Room**Posters are in the **Lobby**



Monday, October 15

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 1: You light up my life Chair: Martin Schnermann
9:00 am	Kimberly E. Beatty, Oregon Health & Science University A new technology for tracking cellular proteins at high resolution
9:20 am	Shinya Tsukiji , Nagoya Institute of Technology SLIPT: A chemical approach for controlling protein localization using self-localizing ligands
9:40 am	Keith Wood , Promega Corporation Interrogating molecular interactions by luminescent energy transfer to intracellular fluorophores
10:00 am	Klaus M. Hahn, University of North Carolina at Chapel Hill School of Medicine Studying the conformational changes of individual molecules in living cells
10:20 am	Break
11:00 am	Session 2: Let it glow Chair: Elizabeth New
11:00 am	Alexander Lippert, Southern Methodist University Chemiluminescent probes for reactive sulfur, oxygen, and nitrogen species
11:20 am	Matthew Bogyo, Stanford University Using chemical probes to identify novel imaging targets for bacterial infections
11:40 am	Sloan Siegrist , University of Massachusetts, Amherst Metabolic labeling of the bacterial cell wall
12:00 pm	Michael S. VanNieuwenhze, Indiana University Probing the dynamics of bacterial cell wall biosynthesis with fluorescent D-amino acids (FDAAs)
12:20 pm	Lunch (service ends at 1:00 pm)



2:00 pm	Session 3: Dyes dyes baby Chair: Luke Lavis
2:00 pm	Jefferson Chan , University of Illinois at Urbana-Champaign Surveillance of cancer stem cell plasticity using an isoform-selective fluorescent probe for aldehyde dehydrogenase 1A1
2:20 pm	Kai Johnsson, Max Planck Institute of Medical Research Semisynthetic sensor proteins
2:40 pm	Mako Kamiya (GABE), University of Tokyo Rational design of reversible fluorescent probes for live-cell imaging and quantification of fast glutathione dynamics
3:00 pm	Jackson Del Bonis-O'Donnell, University of California, Berkeley Fluorescent nanosensors for infrared imaging of dopamine release in brain tissue
3:20 pm	Break
4:00 pm	Session 4: Click it Chair: Kimberly Beatty
4:00 pm	Brian Michel , University of Denver Development of fluorescent probes for the detection of ethylene
4:20 pm	Elizabeth New, University of Sydney Reversible, targeted and ratiometric probes
4:40 pm	Joseph Fox, University of Delaware Temporally controlled methods based on bioorthogonal chemistry
5:00 pm	Poster Blitz (1-minute / 1-slide each)
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Keynote: William Moerner , Stanford University Probes and methods for single-molecule tracking and super-resolution microscopy
9:00 pm	Refreshments available at Bob's Pub



Tuesday, October 16

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 5: Bring the light Chair: Matthew Bogyo
9:00 am	Neal K. Devaraj , University of California, San Diego Bioorthogonal probe development for lipids and RNA
9:20 am	Gonzalo Cosa, McGill University Chemicontrolled activation of BODIPY based fluorescent probes
9:40 am	Marc Vendrell, University of Edinburgh Fluorogenic peptides for enhanced live-cell imaging
10:00 am	Daniel Choquet , University of Bordeaux New probes to study and modify excitatory synapse nanoscale dynamic organization
10:20 am	Break
11:00 am	Session 6: Sweet rhodamine Chair: Hari Shroff
11:00 am	Claire Deo, Janelia Research Campus/HHMI Designing bright synthetic calcium indicators
11:20 am	Marcel Bruchez, Carnegie Mellon University Semisynthetic physiological indicators based on tandem dyes and activating proteins
11:40 am	Laura M. Wysocki, Wabash College Learning from Darkness: Tailoring Fluorescent Dyes
12:00 pm	Yuan Fang, University of Nebraska - Lincoln Phosphinate-based rhodol/fluorescein derivatives and their biological application
12:20 pm	Lunch (service ends at 1:00 pm)
1:15 pm	Building Tour (optional - meet at reception)
2:15 pm	Session 7: Yellow cyanine Chair: Joshua Vaughan
2:15 pm	Doron Shabat , Tel-Aviv University The emergence of aqueous chemiluminescence: New promising class of phenoxy 1,2-dioxetanes



2:35 pm	Martin Schnermann, National Cancer Institute/NIH Harnessing cyanine reactivity to prepare novel fluorophores
2:55 pm	Ellen M. Sletten, UCLA Flavylium polymethine fluorophores for shortwave infrared imaging
3:15 pm	Cliff Stains, University of Nebraska - Lincoln New fluorophore scaffolds for chemical biology
3:35 pm	Break
4:10 pm	Session 8: NIR NIR wine Chair: Alexander Lippert
4:10 pm	Donal O'Shea , Royal College of Surgeons in Ireland Real-time near infrared fluorescence imaging: Research tools with the potential for clinical use
4:30 pm	Kalina Peneva, Friedrich Schiller University Jena Water-soluble NIR-absorbing rylene chromophores for visualization of cellular organelles
4:50 pm	Alison G. Tebo, Ecole Normale Supérieure Circularly permuted fluorogenic proteins for the design of modular biosensors
5:10 pm	Melike Lakadamyali, University of Pennsylvania Visualizing biology at the nanoscale
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 9: Riders on the dSTORM Chair: Catherine Galbraith
8:00 pm	Robert H. Singer, Albert Einstein College of Medicine Probing molecular events in neurons
8:20 pm	Edouard Bertrand , Institut de Génétique Moléculaire de Montpellier (IGMM) <i>Imaging translation of localized mRNA with the SunTag</i>
8:40 pm	Markus Sauer, University of Würzburg Fluorescent probes and single-molecule localization microscopy
9:00 pm	Refreshments available at Bob's Pub



Wednesday, October 17

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 10: All the right moves Chair: Kai Johnsson
9:00 am	Erik M. Jorgensen, HHMI/University of Utah Live multi-color super-resolution microscopy
9:20 am	Thien Vu , University of Utah Spontaneously blinking dyes for live multi-color super-resolution imaging
9:40 am	Catherine Galbraith, OHSU Probing with actin at the leading edge
10:00 am	Hari Shroff , National Institute of Biomedical Imaging and Bioengineering/NIH Estimating 3D molecular orientation with multiview polarized fluorescence microscopy
10:20 am	Break
11:00 am	Session 11: Let me move you Chair: Ellen Sletten
11:00 am	Marco Fritzsche, University of Oxford Nanoscale actin dynamics control T-cell activation
11:20 am	Tom Kirchhausen , Harvard Medical School Imaging subcellular dynamics from molecules to multicellular organisms
11:40 am	Wesley R. Legant, University of North Carolina - Chapel Hill Lattice light sheet microscopy - Innovations, advances, and future directions
12:00 pm	Joshua C. Vaughan, University of Washington Super-resolution microscopy made simple
12:20 pm	Lunch and Departure
1:00 pm 2:00 pm 3:00 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

