

Schedule-At-A-Glance

Sunday March 9th

3:00 pm Check-in
6:00 pm Reception
7:00 pm Dinner
8:00 pm Poster Session and Reception

Monday March 10th

7:30 am Breakfast
8:50 am Session I
10:30 am Break and Group Picture
11:00 am Session II
12:30 pm Lunch
1:00 pm Tour
2:00 pm Session III
3:30 pm Break
4:00 pm Session IV
6:00 pm Reception
7:00 pm Dinner
8:00 pm Poster Session and Reception

Tuesday March 11th

7:30 am Breakfast
9:00 am Session V
10:30 am Break
11:00 am Session VI
12:00 pm Closing Remarks
12:30 pm Lunch (*Take out boxes from Servedy & shuttles to Dulles available*)
12:30 pm First shuttle to Dulles
1:15 pm Second shuttle to Dulles
2:00 pm Last shuttle to Dulles

NOTE:

All meals are in the **Dining Room**
All talks are in the **Seminar Room**
Posters are located in the **Synapse Room**

Full Schedule

Sunday March 9th

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|---------|------------------------------|
| 3:00 pm | Check-in |
| 6:00 pm | Reception |
| 7:00 pm | Dinner |
| 8:00 pm | Poster Session and Reception |

Monday March 10th

7:30 am Breakfast

8:50 am Session I

8:50 am **Eric Betzig**, Janelia Farm Research Campus/HHMI
Welcome and overview

9:20 am **Marcos Dantus**, Michigan State University
Advantages realized by imaging with shaped 10 fs pulses

9:50 am **Na Ji**, Janelia Farm Research Campus/HHMI
High-speed, low-photodamage nonlinear imaging using passive pulse splitters

10:10 am **Alipasha Vaziri**, Janelia Farm Research Campus/HHMI
Three-dimensional PALM and quantum entanglement microscopy

10:30 am Break and Group Picture

11:00 am Session II

11:00 am **David R. Williams**, University of Rochester
Imaging retinal mosaics with adaptive optics

11:30 am **Tony Wilson**, University of Oxford
Making light work in microscopy

12:00 pm **Jerome Mertz**, Boston University
Fluorescence sectioning with dynamic speckle illumination microscopy

12:30 pm Lunch

1:00 pm Tour (optional)

2:00 pm Session III

2:00 pm **Winfried Denk**, Max-Planck-Institute for Medical Research
Automated analysis techniques for EM circuit reconstruction

2:30 pm **Jeff Lichtman**, Harvard University
Automatic tape-collecting lathe ultramicrotome

3:00 pm **Steve Smith**, Stanford University School of Medicine
Synaptomics of the cerebral cortex: Array tomography

Spring 2008 Janelia Conference: Novel Approaches to Bio-Imaging

- 3:30 pm Break
- 4:00 pm Session IV**
- 4:00 pm **Stefan Hell**, Max-Planck-Institute for Biophysical Chemistry
Breaking Abbe's barrier: fluorescence microscopy with diffraction-unlimited resolution
- 4:30 pm **Mats G. L. Gustafsson**, University of California, San Francisco
Structured illumination microscopy for high-resolution biological imaging
- 5:00 pm **Rainer Heintzmann**, Kings College London
Fluorescence microscopy with the help of computational spectacles
- 5:30 pm **Hari Shroff**, Janelia Farm Research Campus/HHMI
Technical and biological applications of photoactivation localization microscopy (PALM)
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Poster Session and Reception

Tuesday March 11th

7:30 am Breakfast

9:00 am Session V

9:00 am **Daniel Choquet**, University of Bordeaux
New smaller and brighter probes: Towards single molecule tracking in vivo?

9:30 am **Paul Selvin**, University of Illinois
3-D FIONA and optical trap measurements on kinesins

10:00 am **Harald Hess**, Janelia Farm Research Campus/HHMI
Single photon fluorescence interferometry and 3D microscopy

10:30 am Break

11:00 am Session VI

11:00 am **Ernst H. Stelzer**, EMBL Heidelberg
Light-sheet based fluorescence microscopy (LSFM, SPIM, DSLM) supports a modern approach to a three-dimensional cell biology

11:30 am **Joseph Zyss**, Ecole Normale Supérieure de Cachan
Phase and polarization sensitive schemes in nonlinear confocal imaging: applications to molecular and bio systems

12:00 pm Closing Remarks

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