

Announcing the 14th Annual **Signal and Imaging Sciences Workshop**

November 15 – 16, 2007

at Lawrence Livermore National Laboratory, B482 Auditorium

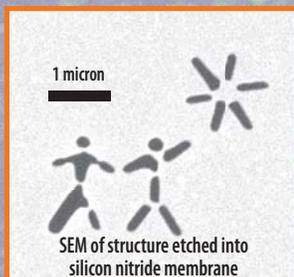
*OPEN to all
LLNL Employees and Guests*

Keynote Speaker

Prof. Jitendra Malik

University of California, Berkeley

For information and to register go to CASIS website: (<http://casis.llnl.gov/>) for more info
and to download an electronic copy of the registration form.



Above right is the fastest diffraction-limited image ever reconstructed.
(The diffraction pattern that generated this result is the background image.)
Using coherent x-rays (32 nm λ) from the 30-fs FLASH free-electron laser in Hamburg, the sample structure (etched into a silicon nitride membrane; SEM image at left) was completely destroyed by the imaging pulse at 30 trillion W/cm 2 . The program goal is to observe fs-scale processes down to the resolution of individual molecules.

Image Credit: Henry Chapman, LLNL; et al, Nature Physics (Dec 2006) and Nature (Aug 2007).

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