

Signal and Imaging Sciences WORKSHOP

November 17-18, 2005

at Lawrence Livermore National Laboratory
Building 123 Auditorium
(DOE P-clearance required)

A workshop for LLNL, UC community personnel and others to share accomplishments, ideas and areas of need in the Signal, Imaging and Communications Sciences. We are soliciting 15 minute presentations for the workshop.

Keynote Speaker:
Prof. James Flanagan,
Rutgers University

Call For ABSTRACTS

Contact us about organizing a special session

**Titles and Reviewed and Released Abstracts
must be received by October 7, 2005**

E-mail to: Dora Da Rosa at darosa2@llnl.gov

To attend or make a presentation, fill-out the registration form on the reverse side of this flier.

For technical information: Steve Azevedo, CASIS Director, (925) 422-8538, L-130

For registration and general information: Dora Da Rosa, (925) 422-4797, L-130



Back-lit fast x-ray image (above) and HYDRA computer simulation (below) of a supersonic (70,000 mph) aluminum plasma jet through aerogel 22 ns after a two-beam laser ablation pulse. The experiment was performed by LLNL, LANL and AWE in the National Ignition Facility (NIF).

*Images courtesy of Harry Robey,
ICF Program, LLNL*



Unprocessed (above) and speckle-processed (below) images of Lick observatory from Mt. Diablo, 60 km away through distributed turbulence. Bispectral speckle processing recovers a high-resolution image of Lick from 100 short-exposure frames taken through an 11-inch telescope.

*Images courtesy of Carmen Carrano,
EE/PAT, LLNL*

Sponsored by the LLNL Engineering Directorate and the Center for Advanced Signal and Image Sciences (CASIS)



This work was performed under the auspices of the U.S. Department of Energy, National Nuclear Security Administration by the University of California, Lawrence Livermore National Laboratory under contract No. W-7405-Eng-48.

REGISTRATION FORM

Name: _____		
Affiliation (LLNL, Sandia, UC, Other): _____		
Address (Visitors/Non-LLNL Only): _____ _____		
L-Code (LLNL only): _____ Phone: (_____) _____ E-mail: _____		
Do you have a DOE badge?: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Q <input type="checkbox"/> L <input type="checkbox"/> P		Citizenship: <input type="checkbox"/> U.S. <input type="checkbox"/> Other: _____
If building access is required, please contact Dora Da Rosa.		
To help us in planning, please select the following preferences:		
November 17:	<input type="checkbox"/> Workshop Only	<input type="checkbox"/> Workshop & Lunch
November 18:	<input type="checkbox"/> Workshop Only	<input type="checkbox"/> Workshop & Lunch
		<input type="checkbox"/> Present
		<input type="checkbox"/> Present
Submissions:		
Please send the abstract of up to 400 words, which also need to be reviewed and released, no later than October 7, 2005 . Please send to darosa2@llnl.gov		
Title: _____		
Please select the category that best fits your talk:		
<input type="checkbox"/> Applied Imaging (astronomy, medical, satellite, forensic, intelligence, etc.)	<input type="checkbox"/> Real-time Signal Processing/ Control/Imaging	<input type="checkbox"/> Sensors and Detection Systems
<input type="checkbox"/> Image/Signal/Control Algorithms/ Image Processing Software	<input type="checkbox"/> Synthetic Generation of Scientific Images	<input type="checkbox"/> Communications, Networking
<input type="checkbox"/> Signal/Image Processing Hardware	<input type="checkbox"/> Applied Signal Processing (medical, security, NDE, etc.)	<input type="checkbox"/> Other _____
All submissions must be nonproprietary, nonpatentable, and, for LLNL only, all presentations must include a UCRL release number (http://im.llnl.gov)		

You may also register to attend or give a talk by e-mailing the pertinent information to darosa2@llnl.gov. Schedule and other information will be sent **only** to those who register. Send registration/submission title form to:

Dora Da Rosa
P O Box 808, L-130
Livermore, CA 94551