

ASTRONOMICAL IMAGING: Jim Brase (Session Chairman)—Continued

- 1:30** Larry Ng Micro-Satellite Technology for the 21st Century
- 1:45** Vipin Gupta, Sandia Detecting Massed Troops with the French SPOT Satellites

ACOUSTICAL PROCESSING AND IMAGING: Greg Clark (Session Chairman)

- 2:00** Dave McCallen Combined Sensing and Simulation for Enhanced Evaluation of Large Structures
- 2:15** Greg Clark Failure Detection for Mechanical Structures: A State-Space Model-Based Approach
- 2:30** Skip Perkins Parametric Time-Frequency Estimation of Prosthetic Heart Valve Sounds
- 2:45** Dave Chambers Near Field / Far Field Transition Distance for Broad Band Acoustic Pulses
- 3:00** Kent Lewis Optimization of Array Generated Fields for Broad Frequency Band Width
- 3:15** Peter K-Z. Cheng, UC Davis Automated Event Picking for Seismic Oil Exploration

3:30 **AFTERNOON BREAK— (Complimentary)**

MATERIALS DETECTION AND IDENTIFICATION: Jesse Kolman (Session Chairman)

- 3:45** Harry Martz Explosive Detection and Discriminant Research for Civil Aviation Security
- 4:00** Carl Hagelberg, LANL Grain Identification and Analysis of Shock Induced Damage of Sandstone
- 4:15** Jesse Kolman Signal Design for Lithography
- 4:30** Kodumudi Venkateswaran Fluoro Immuno Sensors for Biological Warfare Agents Detection and Identification

4:45 **ADJOURN**

AGENDA
Signal and Imaging Sciences Workshop
Center for Advanced Signal and Imaging Sciences
Lawrence Livermore National Laboratory

November 12-13, 1998

Building 123, Conf. Rm. A & B

POSTER SESSIONS / EXHIBITS

- Chantel Aracne-Ruddle* Direct Observation of Fluid-Clay Interactions with Implications for Mechanical and Electrical Properties
- Patricia Berge* Preliminary Results from an Environmental Geophysics Project for Improving Geophysical Imaging of Fluid Distribution in the Shallow Subsurface
- Jim Berryman* Surface and Borehole Electromagnetic Imaging of Conducting Contaminant Plumes
- Carl Hagelberg, LANL* Grain Identification and Shock Induced Damage of Sandstone
- Jose Hernandez* Micropower Impulse Radar Imaging Applications
- Sarita May* Clinical Access of PEREGRINE Dose Calculations
- Shanavaz Nasarabadi* Rapid Lysis and Real Time Fluorescence Detection of *Bacillus Globigii* Spores Using PCR
- Amy Wang* Ultrasonic Immunoassay for Detection of Breast Cancer Antigens