

TECHNICAL DIVISIONS MEET

Following is a digest of activities in progress by SEM's Technical Divisions. Most Divisions held semi-annual meetings at the 1987 Fall Conference in Savannah. The report was prepared by Reginald E. Robinson, LTV Aircraft Products Group, who is the SEM Technical Division Council Chairman. The Divisions will meet next during the VI International Congress on Experimental Mechanics in Portland, OR, June 5-10, 1988.

COMPOSITE MATERIALS

Mark E. Tuttle, Chairman
University of Washington

The outline for the new "Manual on Experimental Methods for Mechanical Testing of Composites" was reviewed at the Division meeting. Manuscripts for the manual are being prepared by several SEM contributors. The goal is to have it published in 1988. Plans to develop and sponsor a "Composites Materials Seminar" based on the new manual were also discussed. Two paper sessions on composites are being organized for the 1988 SEM Fall Conference in Indianapolis.

FRACTURE

Walter H. Peters, Chairman
University of South Carolina

The Subdivision on Dynamic Fracture sponsored three paper sessions plus a tutorial in Savannah. At Indianapolis, the Fracture Division will sponsor two sessions. Two task committees have been formed by the Fracture of Concrete and Rock Subdivision to address specific areas of concern. The Subdivision has also committed to organize four technical sessions for the 1989 SEM Spring Conference in Cambridge, MA. At Keystone, CO in August 1987, the Subdivision on Fragmentation conducted the very successful "Second International Symposium on Rock Fragmentation by Blasting."

MODAL ANALYSIS/DYNAMIC SYSTEMS

William T. Springer, Chairman
University of Arkansas

Several Division members have been active in preparations for the "Sixth International Modal Analysis Conference" to be held February 1-4, 1988 in Orlando, FL. The Division plans to hold its "fall" meeting at the IMAC Conference since an official meeting was not held in Savannah. Discussions continue on possible SEM sponsorship of the "Shock and Vibration Conference." Currently a permanent "home" does not exist for the conference.

TRANSDUCERS

James R. Weidner, Chairman
Measurements Group, Inc.

The Division is sponsoring sessions at both the 1988 Spring and Fall SEM Conferences. For Portland, the session is entitled, "Transducers in Biomechanics." For Indianapolis, a forum on "Material Considerations for Transducers" is planned. The forum next fall will permit open discussion on selection and use of material for transducer construction.

OPTICAL METHODS

Cesar Sciammarella, Chairman
Illinois Institute of Technology

For the "VI International Congress on Experimental Mechanics," June 1988 in Portland, the Subdivision on Applied Photoelasticity will present two forum-type sessions. One session is titled, "Industrial Applications of Photoelasticity - State of the Art & Future Outlook" the second, "Materials & Instrumentation for Photoelasticity." For the Indianapolis meeting, four sessions will be organized on the meeting theme "Experimental Mechanics in Manufacturing and Quality Control." Sessions are also planned for the Cambridge meeting, spring 1989.

STRUCTURAL TESTING

Robert T. Reese, Chairman
Sandia National Laboratories

Progress on the Structural Testing Monograph is excellent with 32 authors, contributors and reviewers participating. A preliminary draft is anticipated for the Portland meeting. For Indianapolis, a forum on Structural Testing is being organized plus a paper session on "Applications in Structural Testing". The early morning format for the semi-annual Division meeting continues to be popular. A continental breakfast is provided.

RESIDUAL STRESS

Michael T. Flaman, Chairman
Ontario Hydro Research

The Division developed and will present a "Residual Stress Seminar" February 3-5, 1988 in Orlando, FL. The seminar will review certain established and recently developed residual stress measurement methods. Six experts in the field will lecture during the seminar.

STRAIN GAGES

Earl Wilson, Chairman
Wearls Corporation

Preparations continue for the two-day special event to be held in conjunction with the Portland meeting next June. The event, celebrating the 50th anniversary of the strain gage, is a joint development between SEM's Technical Committee on Strain Gages and the Western Regional Strain Gage Committee. Many pioneers in the development and application of strain gages will participate. The strain gage forum-type sessions at SEM Conferences continue to attract a large participation. The sessions are an effective means for dialogue between producers and users of strain gages.