

## 1985 SEM FALL CONFERENCE PROCEEDINGS



SEM'S 1985 Fall Conference on Experimental Mechanics in Grenelefe, FL focused on the theme, 'Transducer Technology for Physical Measurements.' The Conference Proceedings features:

New Developments in Strain-Gage Force Transducers, by H.E. Lockery • Nonlinearity in the Column Load Cells, by K. Amlani • Evaluation of Strain-Gage Force Sensors, by A.E. Brendel • Arch Beam Sensor Design, by R. Shoberg • Computerized Data Acquisition from Strain Gages on Composite Materials, by M.A. Hayes and R.F. Gibson • Residual Stresses and Warpage in Circuit-Board Composite Laminates, by I.G. Zewi, I.M. Daniel and J.T. Gotro • Load Cells, Scale Manufacturers' Assessments, by S.A. Snyder • Proacting to Failures with Transducers, by C.R. Nelms • Error in Strain Measurement Obtained Using Strain Gages on Composites, by M.E. Tuttle • The Use of Practical Measurement Techniques in the Assessment of Rock Fragmentation Experiments, by R.L. Parrish • Versatile Electromagnetic Transducer, by O.H. Zinke, H.A. Sreshta and W.T. Springer • Bondable RTD Conditioning Circuits, by J. Dorsey • Wrong with Confidence: Analyzer Problems, by L.D. Mitchell and L.D. Mitchell • Dynamic Speckle Measurement of Convective Fluid Flows, by P.G. Simpkins, T.D. Duderar and R. Meynart

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## SEM News

spectacular view of the city and of the Mississippi River can be seen from the Marriott's two soaring towers—21 and 41 stories high. The hotel provides large elegant rooms for its guests.

### New Orleans—The City

The city of New Orleans is a place filled with excitement and celebration all year round. It is not only the home

## POPOV TO DELIVER MURRAY LECTURE

Egor P. Popov, Professor Emeritus of Civil Engineering at the University of California, will be guest of honor at the annual William M. Murray Luncheon and Lecture on Wednesday, June 11, 1986. The Luncheon and Lecture will be held in conjunction with SEM's annual Spring Conference.

### Structural Seismic Design

Professor Popov will discuss 'Experiment As An Aid To Structural Seismic Design.' Since it is not economically feasible to construct conventional structures to respond elastically during a major earthquake, the complex inelastic cyclic behavior of members and connections must be determined experimentally. Such information is essential for developing mathematical design models.

Professor Popov will discuss the available methods for simulating or estimating seismic effects on building and similar structural models. He will give extreme examples of possible problems that may arise in the field which are illustrated by some damaged modern buildings from the severe September 1985 Mexico City earthquake. He will also offer three viable procedures for the testing of specimens to destruction and illustrate representative examples following each method of testing.

### Outstanding Career

Professor Popov has served 37 years on the faculty at the University of California at Berkeley. He has been Professor Emeritus since July 1983. Professor Popov graduated from the University of California at Berkeley receiving a BS degree in civil engineering. He also holds advanced degrees in civil engineering from the Massachusetts Institute of Technology and Stanford University. With extensive experience



E.P. Popov

as a structural designer, Prof. Popov holds California licenses in civil, mechanical and structural engineering. He is director of the Structural Engineering Laboratory at the University of California at Berkeley. Professor Popov is also a former chairman of the Division of Structural Engineering and Structural Mechanics.

Among his many achievements, Professor Popov has received numerous awards and citations for his outstanding work such as the Berkeley Citation and the Distinguished Teacher award. He is listed in many books of recognitions including 'Who's Who in America', 'Who's Who in the West', 'American Men and Women of Science', 'Men of Achievement', 'Who's Who in Engineering' and 'McGraw-Hill Modern Scientists and Engineers.' Professor Popov has been a member of the Society for Experimental Mechanics since 1954. He is a member of many other organizations including the American Society of Civil Engineers, American Society of Mechanical Engineers, American Institute of Aeronautics and Astronautics (Associate Fellow) and the Earthquake Engineering Research Institute.