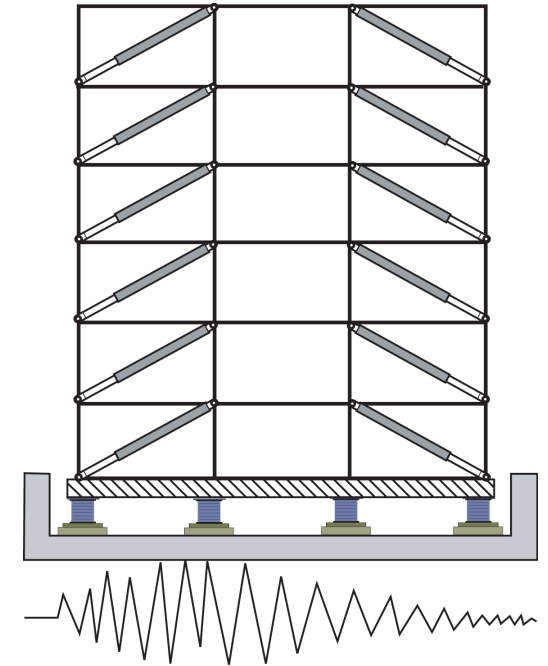


ATC-17-2 SEMINAR ON RESPONSE MODIFICATION TECHNOLOGIES FOR PERFORMANCE-BASED SEISMIC DESIGN



Sponsored by the
Applied Technology Council
and the
**Multidisciplinary Center for
Earthquake Engineering Research**

May 30-31, 2002
Hyatt Regency Los Angeles
Los Angeles, California

*Call for Abstracts and
Seminar Information*

ATC

APPLIED TECHNOLOGY COUNCIL

555 Twin Dolphin Drive, Suite 550
Redwood City, California 94065

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**ATC-17-2 SEMINAR: CALL FOR ABSTRACTS ON RESPONSE MODIFICATION TECHNOLOGIES
FOR PERFORMANCE-BASED SEISMIC DESIGN**



Seminar Location

Hyatt Regency Los Angeles
711 South Hope Street
Los Angeles, California
213/683-1234

Hotel Reservations. A block of sleeping rooms has been reserved at the special negotiated rate of \$135 single or double occupancy until May 8, 2002. After this date, the ATC seminar rate cannot be guaranteed. Reservations for accommodations can be made by contacting the hotel directly at 213/683-1234 and identifying yourself as an attendee at the Applied Technology Council seminar.

Vendor Exhibits. An exhibition space is planned and exhibits are encouraged. Limited space will be made available for exhibits by vendors. Contact Bernadette Mosby (650/595-1542) for fee schedule and instructions.

Seminar Registration. Additional information, including seminar registration forms and registration fees, will soon be available at the ATC web site, www.atccouncil.org.

FIRST ANNOUNCEMENT AND CALL FOR ABSTRACTS:

ATC-17-2 SEMINAR ON RESPONSE MODIFICATION TECHNOLOGIES FOR PERFORMANCE-BASED SEISMIC DESIGN

Los Angeles, California ◆ May 30-31, 2002

The Purpose of the Seminar is to present a comprehensive picture of the state of practice and current research on response modification technologies for performance-based seismic design, including future directions. The seminar will focus on seismic isolation, energy dissipation, active and semi-active control systems, and the use of new materials in structural response modification.

Seminar Program. The two-day seminar program has been developed for design professionals, regulators, researchers, manufacturers and contractors, owners, and facility managers. The program will include papers on planned and completed applications, including new structures as well as rehabilitated existing structures — corporate facilities, hospitals, data centers, emergency operation centers, large bridges, and other structures. Themes and topics to be addressed include:

- case studies of current and future applications summarizing project information and important issues (e.g., function, number, description, and size of devices and systems used; codes and guidelines followed; analysis approach; performance goals; design ground motions; peer review; permitting; economic analysis; and problems encountered),
- summaries of recent research,
- the use of new materials, such as shape memory alloys and magnetic rheological fluids,
- future directions in the development and application of devices and systems, and
- emerging technical and policy issues, including barriers to implementation.

Steering Committee. G. C. Lee (Co-Chair), MCEER; C. Rojahn (Co-Chair), ATC; I. G. Buckle, University of Nevada, Reno; M. Constantinou, University at Buffalo; H. Ghasemi, Federal Highway Administration; H. K. Miyamoto, Marr Shaffer & Miyamoto, Inc.; L. D. Reaveley, University of Utah; A. M. Reinhorn, University at Buffalo; T. T. Soong, University at Buffalo; B. F. Spencer Jr., University of Notre Dame; A. W. Taylor, KPFF Consulting Engineers

Sponsoring Organization

APPLIED TECHNOLOGY COUNCIL
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Fax: 650/593-2320
Web site: www.atccouncil.org



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Red Jacket Quadrangle
Buffalo, New York 14261
Phone: 716/645-3391
Web site: mceer.buffalo.edu



NATIONAL SCIENCE FOUNDATION
4201 Wilson Boulevard
Arlington, Virginia 22230



Abstract Submittal. The Seminar Steering Committee is seeking papers pertaining to the themes and topics listed under the Seminar Program. Verbal presentations are planned, but the Steering Committee is also considering the possible inclusion of poster sessions. Persons wishing to present papers at the seminar are requested to submit one-page, typewritten (single-spaced) abstracts (not more than 250 words in length) of their papers to ATC *on or before January 15, 2002*. Please indicate in the upper right corner of the abstract the format of presentation preferred (verbal or poster). Abstracts should be submitted to: ATC-17-2 Project, Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, California 94065; Fax: 650/593-2320; e-mail: atc@atccouncil.org.

Authors of accepted abstracts will be notified by February 15, 2002. Written versions of papers presented at the seminar, not to exceed 12 pages in length (including all figures and tables) *will be due April 30, 2002*, in order to permit the publishing of the Seminar Proceedings for distribution on the opening day of the seminar.

About the ATC-17 Seminar Series. The initial Applied Technology Council ATC-17 Seminar on Base Isolation and Passive Energy Dissipation, funded by the National Science Foundation (NSF), was held in San Francisco in March 1986. The two-day seminar and subsequent one-day workshop provided a forum for the presentation of informed thinking on the use of base isolation, energy dissipation, and damping in the seismic design of structures and the identification of research needs.

The seminar was attended by approximately 200 practitioners and researchers, including 15 international representatives attending under the auspices of the United Nations Industrial Development Organization (UNIDO). The seminar technical program included more than 40 competitively selected technical papers discussing theoretical principles, applications, case studies and design issues, including ground motion and structural considerations.

The second seminar in the series, the ATC-17-1 Seminar on Seismic Isolation, Passive Energy Dissipation, and Active Control, was held in March 1993, also in San Francisco. The two-day seminar was funded by the National Center for Earthquake Engineering Research (now MCEER) and the National Science Foundation. The purpose of the seminar was to present a complete picture of available research information and current practice relating to the design of seismic isolation, passive energy dissipation, active control, and hybrid control systems.

The seminar technical program consisted of 70 state-of-the-art and state-of-the-practice oral and poster papers. The technical presentations included invited state-of-the-art papers as well as competitively selected papers covering issues of concern, including ground motion, performance criteria, reliability, life-cycle costs, design and code procedures, methods of analysis, peer review, and performance testing.

The seminars served as catalysts for the use of base isolation and energy dissipation in newly designed and seismically rehabilitated buildings and bridges in the United States. The ATC-17 and ATC-17-1 Seminar Proceedings are available from the ATC office.