

# NATIONAL RESEARCH COUNCIL

COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES

2101 Constitution Avenue Washington, D.C. 20418

U.S. NATIONAL COMMITTEE  
FOR ROCK MECHANICS

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April 21, 1983

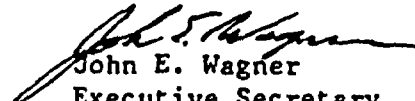
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Mr. Trucman L. Seamans  
U.S. Nuclear Regulatory Commission  
Mail Stop 623-SS  
Washington, DC 20555

Dear Mr. Seamans:

The U.S. National Committee for Rock Mechanics is pleased to submit the attached Quarterly Activities Report for the period January 1, 1983 - March 31, 1983 as required under Articles II and III of U.S. Bureau of Mines Contract No. JO 199030.

Sincerely,

  
John E. Wagner  
Executive Secretary

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# U.S. NATIONAL COMMITTEE FOR ROCK MECHANICS

## ACTIVITIES REPORT

January 1, 1983 - March 31, 1983

This report covers continuing activities of the U.S. National Committee for Rock Mechanics from January 1 to March 31, 1983, under U.S. Bureau of Mines Contract JO 199030. It is submitted pursuant to the provisions of Articles II and III of the contract.

### International Society for Rock Mechanics

**ISRM COUNCIL MEETING.** The delegation of the Annual ISRM Council Meeting to be held in Melbourne, Australia, April 9-15, 1983, was selected and approval obtained from the National Research Council for their participation. The delegation will consist of Dr. Kate H. Hadley (chairman, USNC/RM), voting delegate, and Mr. Thomas C. Atchison, ISRM vice president for North America. As a result of delayed funds, full support is being provided only to the ISRM vice president for North America and partial support for the chairman of the USNC/RM, voting delegate.

**5th ISRM CONGRESS.** The USNC/RM executive committee authorized partial funding support for the travel of Dr. Richard E. Goodman nominated by the committee and selected to be Technical Session General Reporter at the 5th ISRM Congress.

**MEMBERSHIP ACTIVITIES.** Reduced journal rates for ISRM members were established with the publishers, Springer-Verlag and Pergamon Press, and ISRM membership dues schedules were established. ISRM dues notices for 1983 were issued by the Secretariat to individuals who had been U.S. members in 1979, 1980, 1981, and 1982. Application forms were issued by the Secretariat to individuals seeking to become members of the ISRM. In the future, these notices will be issued each November for the following year's dues. At the close of 1982, there was a total of 272 U.S. members of the ISRM. The directory of U.S. members for 1982 is under preparation and will be distributed during the next reporting period.

**FIRST BINATIONAL SYMPOSIUM.** Dr. James H. Coulson, USNC/RM vice chairman, and Dr. George A. Kiersch, GSA member of USNC/RM, participated as USNC/RM representatives at the Symposium on Rock Fragmentation and Comminution in Relation to the Geometric-Mechanical Properties of Rock Masses held in Mexico City, February 24-26, 1983. The symposium was co-sponsored by the ISRM National Groups of Mexico and the United States. Approximately ten percent of the participants were from the United States.

### Technical Society Participation

**FINANCIAL CONTRIBUTIONS.** The Secretariat submitted invoices to all participating technical societies and organizations for 1983 contributions. In the future, invoices will be submitted in December each year for the following year's contribution.

**INTERSOCIETY ROCK MECHANICS NEWS.** The first distribution of inter-society rock mechanics information was made to all U.S. members of ISRM and to all technical societies. Similar distributions will be quarterly.

**SPONSORSHIP OF U.S. ROCK MECHANICS SYMPOSIA.** Two technical societies and organizations, currently participating in the USNC/RM, have agreed to participate with the Northwestern University for the 25th U.S. Symposium on Rock Mechanics.

**SOCIETY OF EXPLOSIVE ENGINEERS.** The Board of Directors of the SEE has voted to seek membership and representation in the USNC/RM. Their application for membership will be considered at the Annual Meeting in June 1983.

### Meetings

The executive secretary presented a briefing on committee activities at the annual meeting of TRB's A2L02 Committee on Soil and Rock Properties, January 17, 1983.

On January 25, 1983, the vice chairman and executive secretary briefed representatives of the Federal Emergency Management Agency and a representative of the Office of Naval Research on the activities of the USNC/RM.

On February 4, 1983, the executive committee of USNC/RM met to review committee activities and plans for future activities.

Planning and approval was completed for the Panel on Domestic and International Activities to hold its Annual Research Awards Meeting in Dallas, Texas, on April 22, 1983.

Planning has been initiated for the Annual Meeting of USNC/RM to be held June 18-19, 1983, in College Station, Texas.

### Annual Review of U.S. Progress in Rock Mechanics

The first annual assessment of progress and needs in rock mechanics, completed in 1982, has been printed and distributed to the funding agencies, technical societies, universities, and U.S. members of ISRM.

### Workshop on Hydraulic Fracturing Stress Measurements

All camera-ready copy has now been received from USGS for the workshop proceedings. Publishing and distribution of the report will be completed in the next reporting period.