The 1962 Nuclear Congress will provide professional engineers and management with an up-to-date review of engineering problems in the nuclear field. It will provide state of the art presentations and authoritative reviews by well qualified and active participants in the application of engineering to nuclear problems. Major attention will be focused on the status of civilian power reactors, on the impact on the public nuclear reactor and radiochemical processing plants and to the major issues now facing the nuclear industry.
The site for the 1962 Nuclear Congress—New York City—is the ideal location for conventions. The largest metropolitan complex in the Western Hemisphere, New York can be easily reached by all means of transportation and offers unlimited and varied facilities for accommodations and entertainment.

The headquarters hotel—Statler Hilton—is centrally located in the Pennsylvania Station area—convenient to subways and buses to all parts of the city.

Wives of Congress registrants are particularly welcome and will find a variety of activities to enjoy at a time of year—early June—when the weather is ideal. Although a formal ladies program is not planned, there will be assistance through the New York Convention Bureau at Congress headquarters for planning tours, shopping trips and the performing arts.

Register early for the Congress and send in hotel reservations for the family!

**REGISTRATION**

Fees:
- Registration—(Includes admission to all technical sessions) $15.00
- Registration and set of all available preprints $30.00
- Students—(Does not include preprints) $1.00
- Set of all available preprints $20.00
- Banquet—per plate $12.00

Pre-registration forms are provided at the back of this program. These are to be sent directly to Engineers Joint Council, 345 East 47th Street, New York 17, New York. All pre-registration must be accompanied by full payment. Cancellations will be accepted through May 29, 1962.

Registration will be conducted at the Statler Hilton Hotel in the PENN TOP corridor, 8 a.m. to 4 p.m., June 4–7.

**HEADQUARTERS HOTEL**

Headquarters for the Congress will be the Statler Hilton Hotel located on 7th Avenue at 33rd Street, opposite Penn Station. An early request for accommodations is recommended. Reservations will be made in order of request. You may use the reservation form provided and send directly to the Statler Hilton.

**TECHNICAL SESSIONS**

All technical sessions of the Congress will be held in the Statler Hilton Hotel. Exact time and room numbers will appear in the final program. Approximately 100 papers, covering 13 major areas of interest, will be read and discussed during the 3 days of the Congress.

A list of sessions, papers and authors appears on the following pages.

**AVAILABILITY OF PAPERS**

All papers available for printing prior to the Congress will be sold at the meeting for 50¢ per copy or $20 per set. Following the Congress, preprints will be available on request from Engineers Joint Council, 345 East 47th Street, New York 17, New York.

**BANQUET**

With the cooperation and support of all participating organizations, a general banquet and reception will be held Monday evening, June 4th at the Statler Hilton Hotel. Guest speaker will be Dr. Glenn T. Seaborg, Chairman of the Atomic Energy Commission. Preceded by a complimentary reception, the banquet will be the major social gathering of the Congress. Tickets may be purchased with advance registration or until 2 p.m. Monday, June 4th. Attire for this event will be business suit. Ladies are welcome.

**ACTIVITIES**

Films—A selected number of recently released technical films will be shown in a continuous series on each day of the Congress. Included in the program will be such titles as: “Nuclear Reactors in Space”, “Plutonium Fabrication”, and “Introduction to High Vacuum”. Registration includes admission to this feature. A complete list of films and a time schedule will be available at the Congress.

Panel Discussion—A special event of the Congress will be a panel discussion entitled, “How the United States Should Spend Its Research and Development Dollar”. Dr. James R. Killian, Jr., Chairman, Corporation of M.I.T. will be the moderator. Among the participants will be the Honorable Chet Holifield, Chairman, Joint Committee on Atomic Energy, U.S. Congress; Dr. Warren Weaver, Vice President, Alfred P. Sloan Foundation; and Mr. Dan A. Kimball, President, Aerojet-General Corporation. The discussion will be held on the evening of June 5th at a time and place to be announced at a later date.

Field Trips—Arrangements are underway for the scheduling of field trips to reactor installations and nuclear laboratories on Thursday, June 7th. Information regarding transportation, location and time schedules will be available at the Congress.
### SESSIONS

**Monday - June 4th, all day**

**OPERATING EXPERIENCE WITH POWER REACTORS**

Chairman: R. B. Richards  
Vice-chairman: Don Stewart

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**Tuesday - June 5th, all day**

**PROBLEMS OF ADVANCED REACTORS**

Chairman: B. W. Dunnington  
Vice-chairman: N. F. Sievering, Jr.

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### SESSIONS

**Problems of Advanced Reactors (cont'd)**

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**Tuesday & Wednesday - June 5th & 6th, afternoon**

**PUBLIC ASPECTS OF NUCLEAR USE**

Chairman: James G. Terrill  
Vice-chairman: Jack H. Fooks

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<td>W. J. Uber</td>
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**Control of Hazards Relating to the Public Environment**

Session Chairman: Merrill Eisenbud  
New York University


Environmental Monitoring at Nuclear Facilities | C. R. McCullough Services, Inc. | W. P. Witsig |
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Tuesday - June 5th, all day
THE NUCLEAR FUEL CYCLE

Chairman: W. E. Shoup
Vice-chairman: Robert Hartwell

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Tuesday - June 5th, afternoon

**IMPORTANCE TO MANAGEMENT OF COMPUTER SOLUTIONS OF NUCLEAR PROBLEMS**

**Chairman:** B. H. Mount  
**Vice-chairman:** H. P. Flatt

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<td>A Digital Computer Analysis of Loss-of-Coolant Accident for a Multi-circuit Core Nuclear Power Plant</td>
<td>A. N. Nahavandi W. A. Webb</td>
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**Stress**

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<td>L. M. Cassidy R. J. McGrattan</td>
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*presenting author

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## SESSIONS

Wednesday - June 6th, morning

**NUCLEAR EDUCATION FOR ENGINEERS**

**Chairman:** N. J. Palladino  
**Vice-chairman:** R. C. Anderson

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Tuesday - June 5th, morning

**RADIATION EFFECTS ON PROPERTIES OF METALS FOR PRESSURIZED REACTORS**

**Chairman:** M. A. Cordovi  
**Vice-chairman:** W. S. Pellini

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<td>L. E. Steele</td>
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Tuesday - June 5th, morning

**INSTRUMENTATION AND CONTROL OF NUCLEAR POWER PLANTS**

**Chairman:** J. G. Lundholm, Jr.  
**Vice-chairman:** H. A. Lamonds

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MODERN ANALYSIS AND NONDESTRUCTIVE TESTING METHODS
Chairman: W. J. McGonnagle
Vice-chairman: John Conner

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Wednesday - June 6th, all day
SPECIAL NUCLEAR ENERGY APPLICATIONS
Chairman: E. M. Saunders
Vice-chairman: J. W. Hitch

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Special Nuclear Energy Applications (cont'd)

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Wednesday - June 6th afternoon
HEAT TRANSFER IN NUCLEAR POWER REACTORS
Chairman: Ralph P. Stein
Vice-chairman: Ronald M. Scroggins

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RECOMMENDED ENGINEERING PRACTICES AND STANDARDS IN THE NUCLEAR FIELD
Chairman: C. Rogers McCullough
Vice-chairman: F. L. LaQue

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<td>J. A. Klapper</td>
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<td>Primary Circuit Structural Materials for Nuclear Power Plants</td>
<td>M. A. Cordovi &amp; C. R. Johnson</td>
<td>Int'l, Nickel Co. Babcock &amp; Wilcox</td>
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<tr>
<td>Reliability Requirements for Nuclear Power Stations</td>
<td>George Laurence</td>
<td>Radiation Control Board, Canada</td>
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