

# PREFACE

## FIRST INTERNATIONAL RELAP5 USER SEMINAR

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Received February 9, 1990

Accepted for Publication February 9, 1990

The First International RELAP5 User Seminar was held January 31–February 2, 1989, at Texas A&M University in College Station, Texas. The Texas A&M Department of Nuclear Engineering hosted the seminar in conjunction with the Idaho National Engineering Laboratory. The seminar provided a forum for the exchange of information among users on the utilization of the RELAP5 computer code for reactor safety and performance analysis. One hundred nineteen attendees from Canada, Federal Republic of Germany, Finland, Italy, Korea, Spain, Sweden, United Kingdom, and the United States participated in the 3-day seminar. Attendees represented U.S. Department of Energy laboratories, universities, and foreign nuclear communities.

An opening plenary session was held the first morning. A general overview of the history and future of the RELAP5 computer code was given by Dr. Romny B. Duffey, Manager of the Energy and Systems Technology Group at EG&G Idaho, Inc., Idaho National Engineering Laboratory. The plenary session also included three keynote speeches. Dr. Brian Sheron, Director, Division of Systems Research, U.S. Nuclear Regulatory Commission (NRC), gave the first keynote address entitled, "RELAP5: NRC Perspective." Dr. E. Linn Draper, Jr., President, Gulf States Utilities, was the second keynote speaker. Dr. Draper's presentation emphasized the need for an international approach to nuclear safety. The third keynote speaker, Dr. Lance J. Agee, Nuclear Power Division, Electric Power Research Institute, addressed the "Capabilities and Limitations of LWR System Analysis Codes."

After the plenary session, the first of five consecutive technical sessions spanning the 3-day seminar began. During the technical sessions, 30 technical papers were presented. The topics addressed included the following:

1. applications to reactor systems
2. applications to experimental facilities
3. other applications
4. software aids
5. use of best-estimate codes in licensing
6. future development plans.

Some contributions to the seminar are included in this special section of *Nuclear Technology*. We hope that this special section will mark the beginning of series of RELAP5 seminars. The meeting coordinators wish to thank the *Nuclear Technology* Editor for giving a wide audience to the papers, and we also wish to thank the American Nuclear Society Publications Department for their outstanding job.