

# PREFACE

## SIXTH INTERNATIONAL CONFERENCE ON EMERGING NUCLEAR ENERGY SYSTEMS

CARL HENNING

*Lawrence Livermore National Laboratory, Laser Science and Technology  
P.O. Box 5508, Livermore, California 94550*

We welcome the opportunity to have the American Nuclear Society (ANS) publish the proceedings of the Sixth International Conference on Emerging Nuclear Energy Systems (ICENES). Having a prestigious society such as ANS as a cosponsor and publisher of the proceedings greatly enhances both the stature of the meeting and the archival value of the proceedings.

The Sixth ICENES, Monterey, California, June 16-21, 1991, was the first ICENES held in the United States. From an informal beginning, the conference has grown to be a major forum for innovative ideas in nuclear energy. It covers not only new techniques for fission energy, but also fusion and catalyzed fusion energy. New applications for space power and propulsion, waste transmutation, nuclear desalination, and exotic energy conversion are included.

The Sixth ICENES enjoyed considerable government, industrial, and university support. It attracted nearly 200 attendees, who participated in 3½ days of technical meetings. Two technical tours were arranged, one to the Diablo Canyon Nuclear Power Plant and one to Lawrence Livermore National Laboratory. These tours spanned the range from conventional nuclear power to advanced laser and magnetic fusion energy.

Overall, the Sixth ICENES was the largest and perhaps one of the most successful. It provided encouragement for innovators and scientists to further evolve the world need for advanced energy.