

# PREFACE

## FIFTEENTH INTERNATIONAL CONFERENCE ON EMERGING NUCLEAR ENERGY SYSTEMS

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The 15th International Conference on Emerging Nuclear Energy Systems (ICENES) was held in San Francisco the week of May 15–19. The meeting was hosted by the Northern California Section of the American Nuclear Society (ANS) and two ANS Technical Divisions—Fusion Energy Division and Operations & Power Division. Nearly 180 scientists and engineers representing the magnetic fusion energy, inertial fusion energy, and advanced fission communities participated. The technical program is available on the conference Web site, [www.icenes2011.org](http://www.icenes2011.org), with abstracts and presentations posted at [www.icenes2011docs.org](http://www.icenes2011docs.org). Of the ~160 presentations, more than half were from foreign contributors, primarily from the European Union and Asia (Japan, China, and Republic of Korea). Student participation in the meeting was strong with over 20 students competing in a special student poster session. The winner was Dain Holdener, a University of California San Diego student. About 80 papers were submitted and are published in this *Transactions of Fusion Science and Technology*.

The meeting was strongly supported by Lawrence Livermore National Laboratory, both technically and through the efforts of the local organizing committee; Susana Reyes served as Publications Chair, Lucile Dauffy as Student Chair, and Dustin Riggs as Finance Chair, while Ed Moses and Tomas Diaz de la Rubia were Honorary Conference Chairs. I would especially like to thank Trina Voelker, Local Organizing Committee Chair, and her capable support staff for seeing to the many details of the meeting.

I also want to thank Jose-Maria Martínez-Val (Instituto de Fusion Nuclear), the ICENES Conference Series Chair, for his overall guidance and support in conducting this meeting. Thanks are also due the many members of the Technical Program Committee ([www.icenes2011.org/committees](http://www.icenes2011.org/committees)) for their work in putting together a very interesting and diverse program.

Finally, on behalf of the Organizing Committee, I would like to thank Dr. Nermin Uckan, Editor of *Fusion Science and Technology*, and the ANS for their assistance in publishing these proceedings.