

PREFACE

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The twenty-first Topical Meeting on the Technology of Fusion Energy (TOFE-2014) was held November 10–13, 2014, as part of the American Nuclear Society (ANS) Winter Meeting at the Disneyland Hotel and Resort in Anaheim, California. The technical program encompassed three and a half days and included a total of 166 presentations. TOFE-2014 was supported by the U.S. Department of Energy (DOE) Office of Fusion Energy Sciences. Plenary oral sessions were held on each morning, November 11–13, with very interesting and informative updates in the first plenary session on the plans and status of the Chinese CFETR, the Korean K-DEMO, and the National Ignition Facility at Lawrence Livermore National Laboratory (LLNL). The second day's plenary focused on the status of ITER and a European analysis of the technological roadmap to DEMO. The plenary session on the final day of TOFE-2014 focused on materials science research needs as well as the DOE Office of Fusion Energy Sciences perspective on materials technology development in addition to an overview of fusion engineering in Japan. TOFE-2014 included two poster sessions, which featured a total of 89 posters and stimulated much discussion.

We would like to express our gratitude to the members of the technical program committee for reviewing the submitted abstracts and developing an outstanding program. In particular, the following technical program committee members were instrumental in the success of TOFE-2014: Rajesh Maingi [Princeton Plasma Physics Laboratory (PPPL)], Vincent Chan [General Atomics (GA)], Arnold Lumsdaine [Oak Ridge National Laboratory (ORNL)], David Hill (LLNL), Laila El-Guebaly (University of Wisconsin), and Chuck Kessel (PPPL). Finally, we would like to express our gratitude to Nermin Uckan (ORNL) and the staff of *Fusion Science and Technology* for their dedicated efforts in ensuring that this publication is of high quality and published in a timely manner.

Finally, we would also like to mention that the plans for the twenty-second Topical Meeting on the Technology of Fusion Energy (TOFE-2016) are now under way. Planned by PPPL, TOFE-2016 will be held at the Philadelphia Sheraton Society Hill August 22–25, 2016, and will be cochaired by Adam Cohen (PPPL), Susana Reyes (LLNL), and Arnie Kellman (GA).