Scientific Basis for Nuclear Waste Management

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PREFACE

Symposium AA, "Scientific Basis for Nuclear Waste Management XXXIV," held April 5–9 at the 2010 MRS Spring Meeting in San Francisco, California, was a convivial and fruitful symposium in which researchers reported on a range of materials-related topics associated with nuclear waste management. Highlighted topics of interest ranged from the lessons learned from the recent decision on the Yucca Mountain repository to future repository design within the U.S. and worldwide. The role of new waste forms and how to process problematic waste were also discussed in both this symposium and in joint sessions with "Actinides V—Basic Science, Applications, and Technology" and "Materials for Nuclear Applications and Extreme Environments" (symposia Z and BB, respectively). Some of the excellent presentations from the Symposium are captured in this volume.

The co-organizers/editors of the 34th Scientific Basis for Nuclear Waste Management wish to acknowledge the help of Dr. Jonathan Icenhower (VSI Houston, Texas), who helped draft the original focus of the meeting, Katherine Davis (Embassy of Australia, Washington, D.C.), and the MRS Meeting staff, who provided expert administrative support.

The co-organizers/editors also gratefully acknowledge the generous support provided by the symposium sponsors: ANSTO (Australian Nuclear Science and Technology Organisation, Australia), the Los Alamos National Laboratory (U.S.), the CEA Nuclear Energy Division (France), and MRS.

Finally, we look forward to the 35th symposium in this series, which will be held in Buenos Aires, Argentina in 2011.

Kath Smith
Karl Whittle
Scott Kroeker
Blas Uberuaga

September 2010
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