

### SAFETY OF NEXT GENERATION POWER REACTORS

#### TECHNICAL PAPERS

- 139** Reactivity Feedback Components of a Homogeneous U10Zr-Fueled 900-MW(thermal) Liquid-Metal Reactor / *David Meneghetti, Dwight A. Kucera*
- 146** Failed Fuel Surveillance During In-Vessel Fuel Storage in Fast Breeder Reactors / *Siegfried Jacobi*
- 154** Technology and Safety Aspects of the German High-Temperature Gas-Cooled Reactor / *Wolfgang Kröger, Rudolf Schulten*
- 165** Analyses of Unscrammed Events Postulated for the PRISM Design / *Gregory J. Van Tuyle, Gregory C. Slovik, Robert J. Kennett, Bing C. Chan, Arnold L. Aronson*
- 185** Examining the Inherent Safety of PRISM, SAFR, and the MHTGR / *Gregory J. Van Tuyle, Peter Kroeger, Gregory C. Slovik, Bing C. Chan, Robert J. Kennett, Arnold L. Aronson*
- 203** Safety and Licensing of SAFR—An Advanced Liquid-Metal Reactor / *Robert T. Lancet, Robert Z. Litwin, Ravnesh C. Amar, Robert D. Rogers, Alan V. von Arx*
- 215** Probabilistic Evaluation of Successful Inherent Shutdown in Unprotected Accidents in Innovative Liquid-Metal Reactors / *Charles J. Mueller, David C. Wade*
- 226** Risk Characterization of Safety Research Areas for Integral Fast Reactor Program Planning / *Charles J. Mueller, James E. Cahalan, David J. Hill, John M. Kramer, John F. Marchaterre, Dean R. Pedersen, Roger W. Tilbrook, T. Y. C. Wei, Arthur E. Wright*
- 235** Passive Safety Characteristics of Fuel for a Modular High-Temperature Reactor and Fuel Performance Modeling Under Accident Conditions / *Karl Verfondern, Werner Schenk, Heinz Nabielek*
- 247** Modular High-Temperature Gas-Cooled Reactor Short-Term Thermal Response to Flow and Reactivity Transients / *John Cleveland*
- 259** Liquid-Metal Reactor Applications of the CONTAIN Code / *Daniel E. Carroll, Kenneth D. Bergeron, Werner Scholtyssek, Greg D. Valdez, Richard Gido*

#### DEPARTMENT

- 133** Authors

#### ON THIS COVER

This month's cover, which is taken from the paper by S. Jacobi, shows the SNR-2 core cross section with internal storage.