

## INTERNATIONAL CONGRESS ON ADVANCED NUCLEAR POWER PLANTS (ICAPP) SPECIAL

### TECHNICAL PAPERS

#### FISSION REACTORS

- 1 Safety System Design Concept and Performance Evaluation for a Long Operating Cycle Simplified Boiling Water Reactor / *Kenji Arai, Seijiro Suzuki, Mikihide Nakamaru, Hideaki Heki*
- 11 Rapid-L Operator-Free Fast Reactor Concept Without Any Control Rods / *Mitsuru Kambe, Hirokazu Tsunoda, Kaichiro Mishima, Takamichi Iwamura*

#### FUEL CYCLE AND MANAGEMENT

- 22 Performance of Thorium-Based Mixed-Oxide Fuels for the Consumption of Plutonium in Current and Advanced Reactors / *Kevan D. Weaver, J. Stephen Herring*

#### THERMAL HYDRAULICS

- 37 Coolant Mixing in a Pressurized Water Reactor: Deboration Transients, Steam-Line Breaks, and Emergency Core Cooling Injection / *Horst-Michael Prasser, Gerhard Grunwald, Thomas Höhne, Sören Kliem, Ulrich Rohde, Frank-Peter Weiss*
- 57 Multidimensional Mixing Behavior of Steam-Water Flow in a Downcomer Annulus During LBLOCA Reflood Phase with a Direct Vessel Injection Mode / *Tae-Soon Kwon, Byong-Jo Yun, Dong-Jin Euh, In-Cheol Chu, Chul-Hwa Song*
- 65 Experimental Study on the Performance of the Passive Safety Injection in an IIST / *Chin-Jang Chang, Chien-Hsiung Lee, Wen-Tang Hong, Lance L. C. Wang*
- 77 Stability of Natural-Circulation-Cooled Boiling Water Reactors During Startup: Experimental Results / *Annalisa Manera, Tim H. J. J. van der Hagen*
- 89 Critical Power Correlation for Axially Uniformly Heated Tight-Lattice Bundles / *Masatoshi Kureta, Hajime Akimoto*