

## PUBLICATIONS

### Sedat Goluoglu

#### 2000

Sedat Goluoglu, *Criticality Calculations of Fresh LEU and MOX Assemblies for Transport and Storage at the Balakovo Nuclear Power Plant*, ORNL/TM-2000/286, UT-Battelle, LLC, Oak Ridge National Laboratory, September 2000.

Sedat Goluoglu and J. Wesley Davis, “Shippingport PWR Fuel Criticality Analyses for Viability Evaluation of Codisposal in a Geologic Repository,” *ANS SPECTRUM 2000, International Conference on Nuclear and Hazardous Waste Management*, September 24–28, 2000, Chattanooga, TN.

#### 2001

Sedat Goluoglu and H. L. Dodds, “A Time-Dependent, Three-Dimensional Neutron Transport Methodology,” *Nucl. Sci. Eng.* **139**, 248–261 (2001).

Sedat Goluoglu and R. T. Primm, III, “Transportation and Storage of MOX and LEU Assemblies at the Balakovo Nuclear Power Plant,” *Trans. Am. Nucl. Soc.* **84**, 287–288 (June 2001).

Sedat Goluoglu and C. M. Hopper (Evaluators), *Evaluation of Critical Experiments With Aqueous Solutions of  $^{233}\text{UO}_2(\text{NO}_3)_2$* , NEA/NSC/DOC/(95)03/V, Volume V, U233-SOL-THERM-006, submitted for publication by Nuclear Energy Agency, Paris, FRANCE.

#### 2002

S. Goluoglu and C. M. Hopper, *DOE NCSP Review of TRUPACT-II/HalfPACT Fissile Limits*, ORNL/TM-2002/58, UT-Battelle, LLC, Oak Ridge National Laboratory, March 2002.

Sedat Goluoglu, L. M. Petrie, C. M. Hopper (ORNL); Y. Karni, D. Regev, and E. Greenspan (Univ. CA, Berkeley), “SMORES – A New SCALE Sequence for the Determination of Bounding Curves and Data,” in *Proc. of American Nuclear Society, 2002 Annual Meeting “The Revival of the Nuclear Energy Option”*, June 9–13, 2002, Hollywood, FL. *Trans. Am. Nucl. Soc.* **86**, 114–116 (June 2002).

Sedat Goluoglu and R. T. Primm III, “Criticality Analysis of MOX and LEU Assemblies for Transport and Storage at the Balakovo Nuclear Power Plant,” *Nucl. Technol.* **139**, 80–88 (July 2002).

S. M. Bowman, D. F. Hollenbach, M. D. DeHart, B. T. Rearden, I. C. Gauld and S. Goluoglu, “An Overview of What's New in SCALE 5,” in *Proc. of American Nuclear Society 2002 Winter Meeting “Building the World Nuclear Community -- Strategies for the Deployment of New Nuclear Technologies,”* November 17–21, 2002, Washington, DC. *Trans. Am. Nucl. Soc.* **87**, 265–268 (2002).

## 2003

Y. Karni, D. Regev, E. Greenspan, S. Goluoglu, L. M. Petrie, and C. M. Hopper, “On the SMORES Capability for Minimum Critical Mass Determination,” in *Proc. of ANS 2003 Annual Meeting “The Nuclear Technology Expansion: Unlimited Opportunities,”* June 1–5, 2003, San Diego, CA. [Summary]. *Trans. Am. Nucl. Soc.* **88**, 82–83 (June 2003).

Sedat Goluoglu, C. M. Hopper, and B. T. Rearden, “Extended Interpretation of Sensitivity Data for Benchmark Areas of Applicability,” *Trans. Am. Nucl. Soc.* **88**, 77–79 (June 2003).

B. T. Rearden, C. M. Hopper, K. R. Elam, S. Goluoglu, and C. V. Parks, “Applications of the TSUNAMI Sensitivity and Uncertainty Analysis Methodology,” pp. 61-66 in *Proc. of The 7<sup>th</sup> International Conference on Nuclear Criticality Safety (ICNC2003)*”, October 20-24, 2003, Tokai-mura, Japan.

S. M. Bowman, D. F. Hollenbach, M. D. DeHart, B. T. Rearden, I. C. Gauld, and S. Goluoglu, “SCALE 5: Powerful New Criticality Safety Analysis Tools,” pp. 447-453 in *Proc. of The 7<sup>th</sup> International Conference on Nuclear Criticality Safety (ICNC2003)*”, October 20-24, 2003, Tokai-mura, Japan.

Sedat Goluoglu, K. R. Elam, B. T. Rearden, B. L. Broadhead, C. M. Hopper, and C.V. Parks, “Validation of the  $^{10}\text{B}$  Capture Reaction in Nuclear Fuel Casks with Sensitivity Analysis,” in *Proc. of ANS: International ANS/ENS 2003 Winter Meeting with cooperation from Nuclear Energy Institute on Nuclear Technology: Achieving Global Economic Growth While Safeguarding the Environment*, November 16–20, 2003, New Orleans, Louisiana. [Summary] *Trans. Am. Nucl. Soc.* **89**, 134–135 (2003).

Sedat Goluoglu and C. M. Hopper, *Assessment of Degree of Applicability of Benchmarks for Gadolinium Using KENO V.a and the 238-Group SCALE Cross-Section Library*, ORNL/TM-2003/106, UT-Battelle, LLC, Oak Ridge National Laboratory, December 2003.