

M. J Memmott, A. Manera, J. Boyack, S. Pacheco, M. Wang, B. Petrovic, "The Nuclear Steam Supply System Concept of the Integral, Inherently-Safe Light Water Reactor (I²S-LWR)", *Annals of Nuclear Energy*, *pending*.

M. J Memmott, A. Manera "The Use of Flashing Drums and Microchannel Heat Exchangers to Generate Steam in Large Integral Light Water Reactors", *Nuclear Technology*, Vol. 191, 2015.

E. Welch, A. Manera, M. Memmott, P. Ferroni, M. J. Wang, J. C. Lee, "Preliminary Safety Considerations for the Integral Inherently Safe Light Water Reactor (I²S-LWR)", Proceedings of the American Nuclear Society (ANS) Winter Meeting, 2014, Anaheim, CA, USA, November 2014.

M. J Memmott, A. Manera, "The use of a flashing Drum to Generate Steam in the Integral, Inherently Safe Light Water Reactor", Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2014, Charlotte, NC, USA, April 2014.

M. J Memmott, B. Petrovic, "Integral Inherently Safe LWR (I²S-LWR) Concept; Integral Vessel Layout", Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2014, Charlotte, NC, USA, April 2014.

C. Fiorina, F. Franceschini, M. J Memmott, "Safety Aspects of Thorium Fuel in Sodium-Cooled Fast Reactors", Fast Reactor Conference 2013 (FR13), Paris, France, March 2013.

B. Lu, M. J Memmott, A. W. Harkness, "Small Modular Reactor (SMR) Instrumentation & Control (I&C) Functional and Structural Requirements & Considerations", Proceedings of the 8th International Topical Meeting on Nuclear Plant Instrumentation, Control, and Human Machine Interface Technologies (NPIC & HMIT 2012), San Diego, CA, USA, November 2012.

M. J Memmott, A. W. Harkness, J. Van Wyk, "Westinghouse Small Modular Reactor Nuclear Steam Supply System Design", Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2012, Chicago, IL, USA, July 2012.

M. J Memmott, C. Stansbury, C Taylor, "Westinghouse Small Modular Reactor Balance of Plant and Supporting Systems Design", Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2012, Chicago, IL, USA, July 2012.

J. Cronje, J. Van Wyk, M. J Memmott “Overview of the Westinghouse Small Modular Reactor Building Layout”, Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2012, Chicago, IL, USA, July 2012.

M. Memmott, J. Buongiorno, P. Hejzlar, “An Evaluation of the Annular Fuel and Bottle-shaped Fuel Concepts for Sodium Fast Reactors”, *Nuclear Technology*, Vol. 173, 2011.

M. Memmott, J. Buongiorno, P. Hejzlar, “On the Use of RELAP5-3D as a subchannel analysis code”, *Nuclear Engineering Design*, 240, 807–815, 2010.

M. J Memmott, J. Buongiorno, P. Hejzlar, “On the Use of RELAP5-3D for Subchannel Analysis of Sodium-Cooled Reactor Fuel Assemblies”, N13P 1224, *13th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-13)*, Kanazawa City, Ishikawa Prefecture, Japan, September 27-October 2, 2009.

M. J Memmott, P. Hejzlar, J. Buongiorno, “Thermal-Hydraulic Analysis of Innovative Fuel Configurations for the Sodium Fast Reactor” MIT-ANP-TR-123, August, 2009.

M. Memmott, J. Buongiorno, P. Hejzlar, “Subchannel Analysis of Sodium-Cooled Reactor Fuel Assemblies with Annular Fuel Pins”, Paper 9033, *Proceedings of ICAPP '09*, Tokyo, Japan, May 10-14, 2009.

M. J Memmott, J. Buongiorno, P. Hejzlar, “Development and Validation of a Flexible RELAP5-3D Based Subchannel Analysis Model for Fast Reactor Fuel Assemblies” MIT-ANP-TR-121, December, 2008.

M. J Memmott, J. Buongiorno, P. Hejzlar, “Innovative Fuel Configurations to Improve the Economics of the GNEP Sodium-Cooled Fast Reactor” Progress Report to Idaho National Lab, Battelle Energy Alliance, LLC (BEA), Release No. 00024 under Blanket Master Contract No. 00000063, August, 2008.

M. J Memmott, J. Buongiorno, P. Hejzlar, “An assessment of Annular Fuel for Sodium-Cooled Fast Reactors,” Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2008, Anaheim, CA, USA, June 2008.

H. Zhang, H. Zhao, C. Davis, M. J Memmott, “RELAP5 Analysis of the Hybrid Loop-Pool Design for Sodium Cooled Fast Reactors,” Proceedings of the International Congress on Advances in Nuclear Power Plants (ICAPP), 2008, Anaheim, CA, USA, June 2008.

M. J Memmott, M.J. Driscoll, M.S. Kazimi, and P. Hejzlar, "Hydrogen Production for Steam Electrolysis Using a Supercritical CO₂-Cooled Fast Reactor", MIT Report MIT-NES-TR-007, February 2007.

M. J Memmott, "Hydrogen Production Using a Supercritical CO₂-Cooled GFR and Steam Electrolysis", Thesis for Master of Science Degree, MIT, February, 2007

M. J Memmott, M.J. Driscoll, P. Hejzlar, "Synergistic Configuration of a GFR for Hydrogen Production by Steam Electrolysis", Transactions of the American Nuclear Society Vol 95, Albuquerque, New Mexico, November 2006

Patents

pending - U.S. Serial Number 13/495,069, "Combined Core Makeup Tank and Heat Removal System for a Small Modular Pressurized Water Reactor", filed June 13th, 2012.

pending - U.S. Serial Number 13/495,083, "Small Modular Reactor Safety Systems", filed June 13th, 2012.

Patent # EP2472522, "Optimum Configuration for Fast Reactors", Filed 22nd, November 2011.