

Selected Presentations

Rachel N. Slaybaugh

November 16, 2017

- R.N. Slaybaugh. “Commercialization of Nuclear Fusion Summit” Moderator, Nuclear Fusion: Reacting To Commercialization by VLAB. Palo Alto, CA. 14 Nov. 2017. (invited)
- R.N. Slaybaugh. “Nuclear Energy: What Can Analytics Do for Economics and Safety?” Keynote Speaker, Industrial Machine Learning Workshop 17. San Francisco, CA. 24 Oct. 2017. (invited)
- R.N. Slaybaugh. “Alternative energy, nuclear and CCS: What are the prospects?” Panelist, Low-Emissions Solution Conference at the 5th International Conference on Sustainable Development. New York, NY. 21 Sept. 2017. (invited)
- R.N. Slaybaugh. “The Case for Nuclear: Communications and Analyzing Risks and Benefits” Panelist, Aspen Institute Future of Nuclear Energy Roundtable. Aspen, CO. 12 Sept. 2017. (invited)
- R.N. Slaybaugh. “Advanced Solvers and Innovation for Penetrating Radiation” Keynote Speaker, SPIE Penetrating Radiation Technical Event. San Diego, CA. 8 Aug. 2017. (invited)
- R.N. Slaybaugh. “Advancing Reactors with Advanced Solvers and Innovative Programs.” Electric Power Research Institute. Research Meeting. Palo Alto, CA. 13 Feb 2017. (invited)
- R.N. Slaybaugh. “Nuclear and Innovating the Clean Energy Landscape.” French Nuclear Energy Society Young Generation Workshop. Video Meeting. 28 Sept. 2016. (invited)
- R.N. Slaybaugh. “Nuclear Innovation: Concept to Execution.” PHYSOR 2016. Sun Valley, ID. 2 May 2016. (invited)
- R.N. Slaybaugh. “The Opportunity of Global Nuclear Innovation.” 49th Japan Atomic Industrial Forum (JAIF) Annual Conference. Tokyo, Japan. 12 April 2016. (invited)
- R.N. Slaybaugh. “Exascalping Nuclear Innovation.” Keynote speaker, Conference on Data Analysis 2016. Santa Fe, NM. 4 March 2016. (invited)
- R.N. Slaybaugh. “Hybrid Transport Methods for Shielding Challenges.” Idaho National Laboratory seminar. Idaho Falls, ID. 20 Nov. 2015. (invited)
- K.L. Rowland, R.N. Slaybaugh. “Developments in the GPU-accelerated WARP Monte Carlo Neutron Transport Code.” Workshop sur l’utilisation des accélérateurs (GPUs, MICs) pour les simulations Monte-Carlo. École Polytechnique, Saclay, France. 10 July 2015.
- R.N. Slaybaugh. “Hybrid Methods for Shielding Challenges: Self-Shielding and Strong Anisotropies.” Colorado School of Mines NE Program Graduate Colloquium. Golden, Colorado. 7 Jan. 2015. (invited)
- R.N. Slaybaugh. “PyNE and Nuclear Data: A Next Generation Tool.” Sather Next Generation Nuclear Science Meeting. Lawrence Berkeley National Laboratory. 9 Dec. 2014. (invited)
- R.N. Slaybaugh. “Computational Methods and Software Development in Nuclear Engineering Research.” Tea at Berkeley Institute for Data Science. Berkeley, CA. 4 Dec. 2014. (invited)
- R.N. Slaybaugh. “The PyNE Software Library: A Framework for ENSDF?” Nuclear Data Week Meeting. Brookhaven National Laboratory. 6 Nov. 2014.

- R.N. Slaybaugh. “The Resonance Factor Method: Accelerating Monte Carlo in the Presence of Space and Energy Self-Shielding.” Reactor Physics Methods and Analysis Group Seminar. Areva Headquarters, Paris, France. 27 June 2014.
- R.N. Slaybaugh, T.M. Evans, P.P.H. Wilson, S.C. Wilson. “Radiation Transport: Computational Methods and Real-World Use.” NC State Univ. NE Dept. Graduate Colloquium. Raleigh, NC. 8 Nov. 2012. (invited)
- R. Slaybaugh, M. Arbidze, S. Lamichhane, D. O’Connor. “An Evaluation of European Union Energy Policies.” UW—Madison Center for World Affairs and the Global Economy Seminar. Madison, WI. 11 May 2011.
- R.N. Slaybaugh. “Krylov Methods and JFNK.” UW—Madison Radiation Hydrodynamics Meeting. Madison, WI. 16 Dec. 2010. (invited)
- R.N. Slaybaugh, T.M. Evans, G.G. Davidson. “Parallel Algorithms for Fixed-Source and Eigenvalue Problems.” 2010 SIAM Annual Meeting. Pittsburgh, PA. 12-16 July 2010.
- R.N. Slaybaugh. “MC21—Jaguar Coupling for Variance Reduction.” KAPL Physics Forum. Niskayuna, NY. July 2009.