

Selected Presentations

Rachel N. Slaybaugh

May 5, 2019

- R.N. Slaybaugh. “Computing in Nuclear Engineering: Moving Beyond Today’s Limitations.” MIT Nuclear Science & Engineering Colloquium. Cambridge, MA. 29 April 2019.
- R.N. Slaybaugh. “Creating the Future of Nuclear Energy.” CITRIS Research Exchange Seminar Series. Berkeley, CA. 28 Nov 2018. (invited)
- R.N. Slaybaugh. Panelist for “Ethics in Nuclear Engineering and Design.” American Nuclear Society. Orlando, FL. 13 Nov 2018. (invited)
- R.N. Slaybaugh. “U.S. Nuclear Innovation System.” Commercialisation of Small Nuclear in the UK. Coventry, UK. 6 Nov 2018. (invited)
- R.N. Slaybaugh. “MEITNER: The Newest ARPA-E Program.” NASA iTech. New York, NY. 14 June 2018. (invited)
- R.N. Slaybaugh. “Deep decarbonization: financing the rapid deployment of innovations after R&D.” 2050 Today Panel. San Francisco, CA. 15 June 2018. (invited)
- R.N. Slaybaugh. “Discussion of Future Technology Development.” Nuclear R&D Summit Panel. Washington, DC. 7 Mar. 2018. (invited)
- R.N. Slaybaugh. “Advanced Solver for Radiation Transport.” University of Illinois Urbana Champaign NPRES Dept. Graduate Colloquium. Champaign, IL. 5 Dec. 2017. (invited)
- 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. “Challenges & Opportunities in Developing an Innovation Culture in Nuclear.” Second Annual Third Way Advanced Nuclear Summit Panel. Washington, DC. 21 Feb. 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. “Exploring the Advanced Nuclear Ecosystem.” SxSW Eco Panel. Austin, TX. 12 Oct. 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. “Exascaling Nuclear Innovation.” **Keynote speaker**, Conference on Data Analysis 2016. Santa Fe, NM. 4 March 2016. (invited)
- R.N. Slaybaugh. “Lets Get Real: When can we expect commercial advanced reactors?.” The Advanced Nuclear Summit and Showcase Panel. Washington, DC. 27 Jan. 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 NSE 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. “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.” CEA-Saclay Colloquium. Saclay, France. 26 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.