

## Selected Presentations

**Rachel N. Slaybaugh**

January 9, 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. “Advanced Approaches to High-Performance Computing in Nuclear: Applications to Non-Proliferation.” MIIT Delegation Visit to BNRC. Berkeley, CA. 8 Dec. 2014.
- 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.” 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.N. Slaybaugh. “Acceleration Methods for Massively Parallel Deterministic Transport.” KAPL Employment Meeting. Niskayuna, NY. 30 Aug. 2011. (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. “Variance Reduction in MC21 using Forward Adjoint Variance Reduction (FAVRE).” Naval Reactors Shielding Video-conference. Pittsburgh, PA. Aug. 2010.
- R.N. Slaybaugh. “MC21 Jaguar Coupling for Variance Reduction.” KAPL Physics Forum. Niskayuna, NY. July 2009.