Selected Presentations

Rachel N. Slaybaugh

September 16, 2020

- Guest Lecture "Nuclear Energy: Why?" for Energy 790-1 Emerging Energy Technologies Class at Duke University. Online. 15 Sept. 2020. (invited)
- Emcee for "Good Energy Collective Meet and Great." Online. 11 Aug. 2020.
- Spoke in various sessions at 2020 Nuclear Innovation Bootcamp. Online. 6-7 Aug. 2020.
- Panelist for "Flexible Nuclear for Future Energy Systems Webinar." Lucid Catalyst and ClearPath. 5 Aug. 2020. (invited)
- Panelist for "Beyond Now: Microreactors and Near Term Demonstrations Perspectives from the Department of Defense and Department of Energy." Panelist. U. S. WIN Virtual Conference. 28 July 2020. (invited)
- Panelist for "Advanced Nuclear Tech in a Decarbonized Energy Future: Feasible or Fantastical?" Duke Energy Initiative lecture series. Online. 14 July 2020. (invited)
- "How Can Nuclear Be Part of a Clean Energy Future?." Breakthrough Generation Bootcamp. Online. 18 June 2020. (invited)
- Panelist for "Challenges and Opportunities in Thermal Hydraulics of High Temperature Gas Cooled Reactors." American Nuclear Society Annual Meeting. Online. 8 June 2020. (invited)
- Panelist for "Building Your Leadership Competency." American Nuclear Society Annual Meeting. Online. 8 June 2020. (invited)
- "How Can Nuclear Be Part of a Clean Energy Future?" G20 Workshop on Circular Carbon Economy. Riyadh, KSA. 5 March 2020. (invited)
- "Special Update: ARPA-E Nuclear Program Update." Advanced Reactors Summit VII. Knoxville, TN. 11 Feb 2020. (invited)
- "How Can Nuclear Energy Be Part of a Clean Energy Future?" Climate Tech Convening 2020. San Francisco, CA. 30 Jan 2020. (invited)
- Panelist for "Time to be Inclusive and Pragmatic Before Its Too Late: Advanced nuclear technologies must be a significant part of the solution set." Cleantech Forum. San Francisco, CA. 28 Jan 2020. (invited)
- "The Opportunity of Next-Gen Nuclear Energy." Citizen's Climate Lobby, Fairfax Meeting. Annandale, VA. 11 Feb 2020. (invited)
- "What is ARPA-E Doing in Nuclear Energy?" Argonne National Laboratory Colloquium. Lemont, IL. 20 November 2019. (invited)
- Panelist for "The role of innovation in the civilian and military nuclear energy sectors." The civilian-military nexus and the role of innovation in nuclear energy, Atlantic Council. Washington, DC. 15 Oct 2019. (invited)
- "Next Generation Nuclear." Ecomodernism 2019. Middleburg, VA. 23 September 2019. (invited)
- "Nuclear and ARPA-E: Activities and Opportunities." NUC Workshop: Innovations in Advanced Reactor Design, Analysis, and Licensing. Raleigh, NC (given remotely). 18 September 2019. (invited)

- "Nuclear Energy Programs and Research at Advanced Research Projects Agency-Energy (ARPA-E)." GABI nuclear energy roundtable. Washington, DC. 12 September 2019. (invited)
- "What if Nuclear Plants Were 10x Cheaper to Operate?" ARPA-E Energy Summit. Denver, CO. 10 July 2019.
- Panelist for "Future Scientists and Engineers for Nuclear Energy." Third Symposium on US-Japan Nuclear Energy Research Cooperation. Washington, DC. 26 June 2019. (invited)
- Panelist for "Lessons from Solar PV." Breakthrough Dialogue 2019 Whole Earth Discipline. Sausalito, CA. 21 June 2019. (invited)
- "Computing in Nuclear Engineering: Moving Beyond Today's Limitations." MIT Nuclear Science & Engineering Colloquium. Cambridge, MA. 29 April 2019.
- "Creating the Future of Nuclear Energy." CITRIS Research Exchange Seminar Series. Berkeley, CA. 28 Nov. 2018. (invited)
- Panelist for "Ethics in Nuclear Engineering and Design." American Nuclear Society. Ornaldo, FL. 13 Nov. 2018. (invited)
- "U.S. Nuclear Innovation System." Commercialisation of Small Nuclear in the UK. Coventry, UK. 6 Nov. 2018. (invited)
- "MEITNER: The Newest ARPA-E Program." NASA iTech. New York, NY. 14 June 2018. (invited)
- "Deep decarbonization: financing the rapid deployment of innovations after R&D." 2050 Today Panel. San Fancisco, CA. 15 June 2018. (invited)
- "Discussion of Future Technology Development." Nuclear R&D Summit Panel. Washington, DC. 7 Mar. 2018. (invited)
- "Advanced Solver for Radiation Transport." University of Illinois Urbana Champaign NPRE Dept. Graduate Colloquium. Champaign, IL. 5 Dec. 2017. (invited)
- Moderator for "Commercialization of Nuclear Fusion Summit" Moderator, Nuclear Fusion: Reacting To Commercialization by VLAB. Palo Alto, CA. 14 Nov. 2017. (invited)
- "Nuclear Energy: What Can Analytics Do for Economics and Safety?" **Keynote Speaker**, Industrial Machine Learning Workshop 17. San Francisco, CA. 24 Oct. 2017. (invited)
- Panelist for "Alternative energy, nuclear and CCS: What are the prospects?" Low-Emissions Solution Conference at the 5th International Conference on Sustainable Development. New York, NY. 21 Sept. 2017. (invited)
- Panelist for "The Case for Nuclear: Communications and Analyzing Risks and Benefits" Aspen Institute Future of Nuclear Energy Roundtable. Aspen, CO. 12 Sept. 2017. (invited)
- "Advanced Solvers and Innovation for Penetrating Radiation" **Keynote Speaker**, SPIE Penetrating Radiation Technical Event. San Diego, CA. 8 Aug. 2017. (invited)
- "Challenges & Opportunities in Developing an Innovation Culture in Nuclear." Second Annual Third Way Advanced Nuclear Summit Panel. Washington, DC. 21 Feb. 2017. (invited)
- "Advancing Reactors with Advanced Solvers and Innovative Programs." Electric Power Research Institute. Research Meeting. Palo Alto, CA. 13 Feb. 2017. (invited)
- "Exploring the Advanced Nuclear Ecosystem." SxSW Eco Panel. Austin, TX. 12 Oct. 2016. (invited)
- "Nuclear Innovation: Concept to Execution." PHYSOR 2016. Sun Valley, ID. 2 May 2016. (invited)

- "The Opportunity of Global Nuclear Innovation." 49th Japan Atomic Industrial Forum (JAIF) Annual Conference. Tokyo, Japan. 12 April 2016. (invited)
- "Exascaling Nuclear Innovation." **Keynote speaker**, Conference on Data Analysis 2016. Santa Fe, NM. 4 Mar. 2016. (invited)
- "Lets Get Real: When can we expect commercial advanced reactors?." The Advanced Nuclear Summit and Showcase Panel. Washington, DC. 27 Jan. 2016. (invited)
- "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.
- "Hybrid Methods for Shielding Challenges: Self-Shielding and Strong Anisotropies." Colorado School of Mines NSE Program Graduate Colloquium. Golden, Colorado. 7 Jan. 2015. (invited)
- "Computational Science in the 'Real World'." Computer Science I and II, Baldwin Upper School. Bryn Mawr, PA. 10 and 11 Dec. 2014. (invited)
- "PyNE and Nuclear Data: A Next Generation Tool." Sather Next Generation Nuclear Science Meeting.

 Lawrence Berkeley National Laboratory. 9 Dec. 2014. (invited)
- "The PyNE Software Library: A Framework for ENSDF?" Nuclear Data Week Meeting. Brookhaven National Laboratory. 6 Nov. 2014.
- "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, T.M. Evans, G.G. Davidson. "Parallel Algorithms for Fixed-Source and Eigenvalue Problems." 2010 SIAM Annual Meeting. Pittsburgh, PA. 12-16 July 2010.