JACOPO BUONGIORNO

Battelle Energy Alliance Professor, Nuclear Science and Engineering Department Director, Center for Advanced Nuclear Energy Systems (CANES) Director, Science and Technology, Nuclear Reactor Laboratory (NRL) Member, U.S. National Academy of Engineering

Email: jacopo@mit.edu *Phone*: 617-253-7316 *Fax*: 617-258-8863

MIT Department of Nuclear Science and Engineering 77 Massachusetts Avenue, 24-206 Cambridge, MA 02139-4307 USA

Contents

Papers in Refereed Journals Proceedings of Peer-reviewed Conferences	2
	8
Other Publications	20
Invited Lectures	23

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Invited Lectures

- [1] "New nuclear: what and why", Yale University, online lecture, Nov 26, 2024.
- [2] "New Solutions for Nuclear Fission Reactors", Festival of Italian Creativity, Italian Consulate, Boston, Nov 22, 2024.
- [3] "Nuclear Energy: Technologies, Costs, Markets", Canaccord Genuity LLC, Nov 19, 2024.
- [4] Invited remarks on nuclear reactor technologies at public hearing with House Select Committee on Nuclear Energy, Parliament of Australia, Nov 18, 2024.
- [5] "The Value of Versatile Nuclear Microreactors", Talk to General Electric, MIT, Nov 7, 2014

- [6] "Nuclear Energy: Technologies, Costs, Markets" Trillium Investment Boston, Oct 31, 2024.
- [7] "Nuclear Energy: have we entered a new era?", presentation to Ricerca Sistema Energetico (RSE) delegation, MIT, October 22, 2024.
- [8] "Nuclear batteries for off-grid applications", 2024 MIT Energy Initiative Nuclear Fission Forum, Sep 24, 2024.
- [9] "Nuclear Energy: have we entered a new era?", Lincoln Labs, Lexington MA, Sep 3, 2024.
- [10] "Nuclear Energy: What and Why", CATF-CFEE workshop on Achieving 100% Clean, Affordable, and Reliable Electricity in California, San Francisco, June 11, 2024.
- [11] "Nuclear Energy: Does it make sense for Taiwan?", Workshop of the consortium on Taiwan's Innovative Green Economy Roadmap (TIGER), Taipei, May 16, 2024.
- [12] "Nuclear Innovation", Workshop on Learning by doing and Excellence in Nuclear Engineering, UNSW, Sydney, May 14, 2024.
- [13] "Nuclear Energy in the 21st Century: Value proposition and challenges", Workshop on Navigating Nuclear, Sydney, May 13, 2024.
- [14] "Reactor Costs and Decarbonization Efforts", webinar/panel at Center on Global Energy Policy, Columbia University, March 4, 2024.
- [15] "Nuclear Power The Cost Challenge", University of New South Wales, Sydney, Jan 31, 2024
- [16] "Introduction to Nuclear Reactors", Univ of Queensland, Brisbane, Jan 30, 2024
- [17] "Nuclear Energy: have we entered a new era?", Univ. of Melbourne, Australia, Jan 29, 2024.
- [18] "Nuclear Batteries, a New Way in Energy", Univ. Pisa webinar, Dec 15, 2023.
- [19] "Nucleare: un nuovo inizio?", Webinar Associazione Italiana Nucleare Young Generation, Dec 7, 2023.
- [20] "Nuclear Batteries, a New Way in Energy", Webinar to Antofagasta Minerals S.A., Nov 21, 2023.
- [21] "Nuclear Energy: have we entered a new era?", Presentation to Total S.A., MIT, Nov 7, 2023.
- [22] "New Nuclear Designs, New Deployment Paradigms", TIGER webinar, Nov 6, 2023
- [23] "New nuclear: what and why", Yale University, online lecture, Nov 2, 2023.
- [24] "Nuclear Energy", MA Legislature group, Leverett Saltonstall Building, Boston, Oct 17, 2023
- [25] "Advanced Nuclear Technologies", Seminar for Epoch Foundation, MIT, Oct 16, 2023.
- [26] "Nuclear energy", Congressional Staff Seminar, MIT Oct 10, 2023.
- [27] "Advanced Nuclear Technologies: What and Why", TIGER workshop, MIT, Sep 12, 2023.
- [28] "The Transformative Power of Nuclear batteries and Advanced Industrial Production", Tata Sons Limited workshop, MIT, August 28, 2023.
- [29] "The Future of Nuclear, Why Smaller Reactors", Nuclear Bootcamp, Jamaica, July 25, 2023.
- [30] "The Future of Nuclear Energy: have we entered a new era?", Nuclear Navy Lab, May 3, 2023.
- [31] "Nuclear Microreactors For College Campus Decarbonization", Earth Month Webinar Series, UMass-Amherst, March 14, 2023.
- [32] "The Future of Nuclear Energy: have we entered a new era?", Novo Nordisk Foundation, MIT, March 16, 2023.
- [33] "Nuclear Batteries, a New Way in Energy", International Conference on Clean Energy for Carbon Neutrality (ICCECN-2023), Hong Kong, March 7, 2023.
- [34] "Nuclear Batteries, a New Way in Energy", MIT-KAIST Small Modular Reactor Symposium, December 5, 2022.

- [35] "Nuclear Batteries: Clean Energy On-Demand Everywhere", Total Energies at MIT, Nov 17, 2022.
- [36] "The Future of Nuclear Energy: have we entered a new era?", Brown Univ, Providence, Nov 17, 2022.
- [37] "Nuclear: a Versatile and Clean Energy Source for the 21st Century", Schlumberger, Cambridge, Nov 9, 2022.
- [38] "The Transformative Power of Nuclear batteries and Advanced Industrial Production", City Science Summit, MIT, October 27, 2022.
- [39] "The Future of Nuclear Energy: have we entered a new era?", Talk to MIT Club of Northern California, Oct 13, 2022.
- [40] "The Transformative Power of Nuclear batteries and Advanced Industrial Production", MIT Technology Review Climate Tech, October 13, 2022.
- [41] "Nuclear Batteries: clean energy on demand everywhere", Forum on Carbon Neutrality and Sustainable Environment, City University of Hong Kong, October 7, 2022.
- [42] "Next Generation Nuclear Reactors. Is Small Beautiful?", Talk to MPs and industry at Finnish Parliament, Helsinki, Sep 13, 2022.
- [43] "Nuclear Batteries, a New Way in Energy", Frederic Joliot Otto Hanh Summer School on Nuclear Reactors, Cadarache, France, August 29, 2022.
- [44] "Next Generation Nuclear Reactors. Is Small Beautiful?", Seminar on International Nuclear Cooperation, Seoul Korea, June 27, 2022.
- [45] "Nuclear Batteries, a New Way in Energy", Norman Foster Foundation Workshop Madrid, April 25-26, 2022.
- [46] "Nuclear Batteries, a New Way in Energy", NTNU Nuclear Power Workshop, Berlin, Mar 30, 2022.
- [47] "An Assessment of the Diablo Canyon Nuclear Plant for Zero-Carbon Electricity, Desalination, and Hydrogen Production", The North CA MIT Alumni Club, Mar 16, 2022.
- [48] "Nuclear Batteries, a New Way in Energy", SLAC Seminar Series, Stanford, Feb 28, 2022.
- [49] "Nuclear Batteries, a New Way in Energy", Gray Society, MIT alumni, Feb 23, 2022.
- [50] "Nuclear Batteries, a New Way in Energy", Lincoln Labs, MIT, Jan 31
- [51] "Nuclear Batteries, a New Way in Energy", The Wilson Forum on Science & Technology, Dec 10, 2021.
- [52] "Nuclear: a Versatile and Clean Energy Source for the 21st Century", Presentation at Nuclear Futures Institute, Bangor University, Wales, Dec 9, 2021.
- [53] "Next Generation Nuclear Reactors. Small is Beautiful?", Exxon-Mobil, Dec 3, 2021.
- [54] "An Assessment of the Diablo Canyon Nuclear Plant for Zero-Carbon Electricity, Desalination, and Hydrogen Production", Precourt Institute for Energy, Stanford University, Nov 8, 2021.
- [55] "Nuclear: a Versatile and Clean Energy Source for the 21st Century", Presentation to Australian Minister Gillespie, Canberra, Oct 7, 2021.
- [56] "Small (and Modular) is Beautiful: The Future of Nuclear?", CEEPR, Oct 6, 2021.
- [57] "Nuclear Batteries, a New Way in Energy", ENGYF European Nuclear Young Generation Forum (ENYGF21), Sep 29, 2021.
- [58] "Next Generation Nuclear Reactors. Small is Beautiful?", MIT Cape Cod Alumni Association, Sep 23, 2021.
- [59] "The Economic Potential of Nuclear Batteries", LANL, August 19, 2021.
- [60] "The Economic Potential of Nuclear Batteries", MIT Energy A+B Conference, August 13, 2021.
- [61] "Nuclear: a Versatile and Clean Energy Source for the 21st Century", presentation to AusIMM International Uranium Conference, Aug 4, 2021.

- [62] "Nuclear Energy: the Need for Radical Innovation", MIT-NSE Alumni Association, June 8, 2021.
- [63] "Nuclear Energy: the Opportunities for Radical Innovation", Roundtable, Global America Business Institute (GABI), May 25, 2021.
- [64] "How to Facilitate Commercialization of New Nuclear Technologies", 2021 Multilateral Nuclear Energy Dialogue, Global America Business Institute (GABI), May 19, 2021.
- [65] Panelist on the Role of Nuclear Energy in a Clean Energy Future, UIUC, May 6, 2021.
- [66] Panelist at the webinar on *Climate Crisis: Alternatives to a Carbon-Based Economy*, U-Mass, Amherst Apr 22, 2021.
- [67] "Nuclear: a Versatile and Clean Energy Source for the 21st Century", presentation to Dutch Members of Parliament, e-Lise Foundation and Liberal Friends, Mar 15, 2021.
- [68] "Nuclear Energy in a Low-Carbon World: Essential Tool or Relic of the Past?", workshop at NTHU, Taiwan, Mar 10, 2021.
- [69] "Nuclear Energy: the need for radical innovation", panel on Roundtable on Nuclear Frontier Issues: At the Interface between Technology and Societies, Belfer Center, Harvard University, March 5, 2021.
- [70] "Nuclear: the need for radical innovation", University of Illinois at Urbana-Champaign, online lecture, Feb 9, 2021.
- [71] "Nuclear: the need for radical innovation", Sustainable Nuclear Energy Technology Platform (SNETP) webinar, Feb 3, 2021.
- [72] "Can Nuclear Batteries be economically competitive in large markets", Fission Battery Workshop Series, INL, Jan 27, 2021.
- [73] "Nuclear energy: a new beginning?", NNL-KAPL, Jan 5, 2021.
- [74] "New Nuclear: much more than just electricity", Spanish Nuclear Society Annual Meeting, online presentation, Nov 17, 2020.
- [75] "Nuclear: the need for radical innovation", Yale University, online lecture, Nov 12, 2020
- [76] "Nuclear: the need for radical innovation", UC-Berkeley, online lecture, October 10, 2020
- [77] "Nuclear: a Versatile and Clean Energy Source for the 21st Century", online presentation to the Dubai Nuclear Energy Committee, July 21, 2020.
- [78] "Nuclear Energy: why Europe should strongly support it", online presentation to EU Members of Parliament, June 28, 2020.
- [79] "Nuclear energy: a new beginning?", webinar at Stanford University, April 7, 2020.
- [80] "New Nuclear: small, robust, cheap and versatile", webinar for the Electric Power Systems Center, MIT, February 28, 2020.
- [81] "Nuclear energy a new beginning? And what role it might play in Australia", University of Melbourne, Melbourne, Jan 29, 2020.
- [82] "Nuclear energy a new beginning? And what role it might play in Australia", Australian Nuclear Association, Sydney, Jan 28, 2020.
- [83] "Nuclear energy a new beginning? And what role it might play in Australia", ANSTO, Sydney, Jan 28, 2020.
- [84] Nuclear Batteries: why they could actually make a difference, Westinghouse Electric Company, Cranberry Township, PA, Dec 6, 2019.
- [85] Decarbonizing the Electricity Sector Advances in Fission and Fusion, Panel at MIT Climate Action Symposium, MIT, Dec 4, 2019
- [86] "Nuclear energy a new beginning?", Presentation to delegation of Total S.A., MIT, Nov 18, 2019.
- [87] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a Recent MIT study", Yale University, online lecture, Nov 14, 2019.
- [88] "Nuclear energy a new beginning?", NEI Advisory Board, Boston, Nov 13, 2019.

- [89] "The Future of Nuclear Power", Science on Tap, Manchester, New Hampshire, Nov 5, 2019.
- [90] "New nuclear or same old approach?", Workshop on Advanced Nuclear Technologies Worldwide: Challenges and Opportunities, Madrid, Oct 17, 2019.
- [91] "Nuclear: Slow Decline or Beginning of a New Era?", ARPA-E Program Directors Committee, DC, Oct 8, 2019.
- [92] "Nuclear energy a new beginning?", NEI Executive Committee, DC, Sep 19, 2019.
- [93] "New Nuclear Needs a DD&D Paradigm and Market Inversion", NCSU, Raleigh, Sep 17, 2019.
- [94] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", Nuclear Safety Course, MIT, June 17, 2019.
- [95] "Nuclear energy a new beginning? Findings from a Recent MIT Study", Plant Modernization Workshop, EPRI, Charlotte, June 12, 2019.
- [96] "Nuclear energy a new beginning?", Applied Energy Conf. (MIT A+B), MIT May 22, 2019
- [97] "Advanced Nuclear technologies in the U.S.", Keynote at ICAPP 2019, Juan les Pins, France, May 12-15, 2019.
- [98] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", Keynote at ICAPP 2019, Juan les Pins, France, May 12-15, 2019.
- [99] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", PPPL, Princeton, NJ, May 8, 2019
- [100] "Nuclear energy a new beginning", Senior Congressional Staff Seminar on Energy Options and Economic Opportunities for Decarbonization, MIT, April 24, 2019.
- [101] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", Conservation Law Foundation, Boston, April, 2019.
- [102] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", webinar of the European Nuclear Society, March 29, 2019.
- [103] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", Colorado School of Mines, Denver, March 6, 2019.
- [104] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", Swiss Nuclear Society, Zurich, February 12, 2019.
- [105] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", Poland Ministry of Energy, Warsaw, 22 January, 2019.
- [106] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a new MIT study", AGH Univ Science Cracow, 21 January, 2019.
- [107] "What are the key challenges for nuclear and how to address them Findings from a new MIT study", 2019 Energiforsk Nuclear Annual Conference on Flexible Nuclear Power and Ancillary Services, Stockholm, 23-24 January, 2019.
- [108] "The Future of Nuclear Energy in a Carbon-Constrained World", Beijing, China, January 15, 2019.
- [109] "What role for nuclear energy in a carbon-constrained world?", MIT-Seoul National University Symposium on the Future of Nuclear Energy in a Carbon Constrained World, Korean Press Center, Seoul, January 14, 2019.
- [110] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", Foro Nuclear, Madrid, November 20, 2018.
- [111] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", First strategic seminar of the Board of Directors, ORANO, Paris, November 19, 2018.
- [112] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", Lincoln Labs, MIT, November 13, 2018.

- [113] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", 1st Generation-IV and Small Modular Reactors Conference (G4SR-1), Ottawa, November 8, 2018.
- [114] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", Presentation to delegation of Total S.A., MIT, November 7, 2018.
- [115] "Protect the Present to Prepare the Future", INPO Annual CEO conference, November 6, 2018.
- [116] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", Presentation to delegation of Masui, ILP, MIT, November 5, 2018.
- [117] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", NEI International Uranium Fuel Seminar, Boston, October 29, 2018.
- [118] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", MIT Energy Initiative Advisory Board meeting, MIT, October 23, 2018.
- [119] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", The MIT-Tokyo Tech Symposium on Future Nuclear Development and Deployment, Tokyo, October 9, 2018.
- [120] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", American Academy Advancement of Sciences, Washington DC, September 25, 2018.
- [121] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", FORATOM, Brussels, September 6, 2018.
- [122] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", Academie des Sciences, Paris, September 4, 2018.
- [123] "The Future of Nuclear Energy in a Carbon-Constrained World Findings from a New MIT study", Nuclear Industry Association, London, September 3, 2018.
- [124] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", University of Edinburgh, UK, August 29, 2018.
- [125] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Duke Energy, Charlotte, August 14, 2018.
- [126] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Nuclear Safety Course, MIT, June 14, 2018.
- [127] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", MIT Alumni Association of New Hampshire, Bedford, NH, June 11, 2018.
- [128] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", 49th Annual Meeting on Nuclear Technology (AMNT 2018), Berlin, Germany, May 29, 2018.
- [129] "The Future of Nuclear Energy in a Carbon-Constrained World: A New MIT study", Nuclear Science and Engineering Dept., MIT, May 15, 2018.
- [130] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Managing the Atom nuclear policy group, Harvard, May 3, 2018.
- [131] "Is there a Future for Nuclear in a Carbon-Constrained World? Findings from a new MIT study", ICAPP 2018, Charlotte, April 9, 2018.
- [132] "Nuclear Energy at the Carbon Crossroads: Thrive or Decline?", Yale University, March 29, 2018.
- [133] "Nuclear, why bother?", Workshop on Realizing the Value of Nuclear, MIT, March 26, 2018.
- [134] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Forum of Indian nuclear industry, Kirloskar Brothers Limited's (KBL) Corporate Office, Mumbai, January 19, 2018.
- [135] "Is Nuclear an Attractive Clean-Energy Option for Singapore?", National University of Singapore (NUS), January 16, 2018.

- [136] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Harvard School of Business, Harvard University, November 13, 2017.
- [137] "Reducing the Cost of New Nuclear: Innovations that Could Make a Difference", Royal Academy of Engineering, London, November 8, 2017
- [138] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Advanced Nuclear Technology's Engineering, Procurement, and Construction (EPC) Workshop, EPRI, Charlotte, November 7, 2017
- [139] "The Future of Nuclear Energy in a Carbon-Constrained World: An MIT study", MIT Energy Initiative Advisory Board meeting, MIT, October 26, 2017.
- [140] "Nuclear Energy in a Carbon-Constrained World: Thrive or Decline? Findings from a new MIT study", Commissariat a l'Energie Atomique (CEA), Saclay, France, October 13, 2017.
- [141] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Texas A&M, October 6, 2017.
- [142] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", University of Houston, October 5, 2017.
- [143] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Zhejiang University, Hangzhou, September 3, 2017.
- [144] "Can Nuclear Energy Thrive in a Carbon-Constrained World? Findings from a new MIT study", Imperial College, London, June 20, 2017.
- [145] "Uncovering the Secrets of Boiling Heat Transfer with Advanced Diagnostics and Nanoengineered Surfaces", Ljubljana University, Slovenia, June 19, 2017.
- [146] "The Future of Nuclear Energy in a Carbon Constrained World An MIT Study", Nuclear Energy Insider SMR Summit, Atlanta, March 30, 2107.
- [147] "What Role for Nuclear Energy in a Low-Carbon World?", International Energy & Environment Summit, Dubai, UAE, March 18-20, 2017,
- [148] "What Will Make or Break Nuclear Energy in a Low-Carbon World and the Potential Role of Australia", Curtin University, Perth, Australia, January 19, 2017.
- [149] "What Will Make or Break Nuclear Energy in a Low-Carbon World and the Potential Role of Australia", RMIT, Melbourne, Australia, January 22, 2017.
- [150] "The Offshore Nuclear Plant (ONP) A New Paradigm for Construction, Siting and Operations of Nuclear Plants", Nuclear Innovation Bootcamp, University of California, Berkeley, August 4, 2016.
- [151] "What Will Make or Break Nuclear Energy in a Low-Carbon World", EPRI Summer Seminar, Los Angeles, August 1-2, 2016.
- [152] "What Will Make or Break Nuclear Energy in a Low-Carbon World", Oak Ridge National Laboratory, June 30, 2016
- [153] "Towards a New, Generally-Applicable, Validated Model for the Formation of the Microlayer Underneath a Growing Bubble", International Workshop on New Understanding in Nanoscale/Microscale Phase Change, June 12-16, 2016, Trondheim, Norway.
- [154] "Nuclear Energy: Growth Opportunities/Challenges from Fuel Cycles and Small Modular Reactors", 2016 Energy Day: Sustainable and Affordable Energy Challenge for the World, Columbia University, New York City, May 8, 2016
- [155] "Offshore nuclear: A New Paradigm for Construction, Siting and Operations of Nuclear Plants", Oregon State University, Corvallis, Oregon, April 22, 2016
- [156] "How to Enable a Massive Expansion in the Use of Nuclear Energy to Combat Global Warming", University of Michigan, Ann Arbor, MI, January 28, 2016
- [157] "How to Enable a Massive Expansion in the Use of Nuclear Energy to Combat Global Warming", North Carolina State University (NCSU), Raleigh, NC, January 28, 2016
- [158] "How to Enable a Massive Expansion in the Use of Nuclear Energy to Combat Global Warming", Federal Authority for Nuclear Regulation (FANR), Abu Dhabi, January 19, 2016

- [159] "Uncovering the Secrets of Boiling Heat Transfer with Advanced Diagnostics and Nanoengineered Surfaces", Khalifa University, Abu Dhabi, January 18, 2016.
- [160] "Uncovering the Secrets of Boiling Heat Transfer with Advanced Diagnostics and Nanoengineered Surfaces", Shanghai Jiao Tong University (SJTU), Shanghai, January 16, 2016.
- [161] "How to Enable a Massive Expansion in the Use of Nuclear Energy to Combat Global Warming", Korea Advanced Institute of Science and Technology (KAIST), Daejeon, January 14, 2016
- [162] "How to Enable a Massive Expansion in the Use of Nuclear Energy to Combat Global Warming", Hanyang University and Seoul National University, January 13, 2016
- [163] "Offshore nuclear: A New Paradigm for Construction, Siting and Operations of Nuclear Plants", University of Wisconsin at Madison, November 16, 2015
- [164] "Near-term, innovative reactor concepts: how to enable a massive expansion in the use of nuclear energy to combat global warming", MIT-China Low Carbon Energy Leaders Program, MIT, May 11, 2015.
- [165] "Can Corrosion and CRUD Deposition actually Improve Safety Margins in Light Water Reactors?", Federal Authority for Nuclear Regulation (FANR), Abu Dhabi, January 21, 2015.
- [166] "Near-term, innovative reactor concepts: how to enable a massive expansion in the use of nuclear energy to combat global warming", Kuwait Institute for Scientific Research (KISR), Kuwait City, Kuwait, January 18, 2015.
- [167] "Uncovering the Secrets of Boiling Heat Transfer with Advanced Diagnostics and Nanoengineered Surfaces", Johns Hopkins Univ. Dec 5, 2014.
- [168] "Near-term, innovative reactor concepts: how to enable a massive expansion in the use of nuclear energy to combat global warming", Presentation to delegation of Total S.A., MIT, November 14, 2014.
- [169] "Nuclear Reactors on Offshore Floating Platforms: Scalable and Economic Nuclear Energy to Combat Climate Change", MIT Energy Initiative Fall Research Conference, MIT, Nov. 7, 2014.
- [170] "Uncovering the Secrets of Boiling Heat Transfer with Advanced Diagnostics and Nanoengineered Surfaces", Georgia Institute of Technology, Atlanta, Georgia, October 24, 2014.
- [171] "Advanced Diagnostics and Surface Engineering for Boiling Heat Transfer and Quenching Phenomena", Presentation at the kick-off meeting of the *Virtual International Research Institute of Two---Phase Flow and Heat Transfer*, EPFL, Lausanne, Switzerland, March 17, 2014.
- [172] "Can Small Modular Reactors Help to Expand the Use of Nuclear Energy Worldwide?", Presentation to delegation of Total S.A., MIT, November 5, 2013.
- [173] "Can Small Modular Reactors Help to Expand the Use of Nuclear Energy Worldwide?", MIT-China Low Carbon Energy Leaders Program, MIT, October 28, 2013
- [174] "Future Prospects for Nuclear Power", MIT-China Low Carbon Energy Leaders Program, MIT, September 16, 2013.
- [175] "Enhancement of LWR Thermal Performance through the Use of Nanofluids and Nanoengineered Surfaces", Korean Atomic Energy Research Institute (KAERI), Daejon, Korea, May 24, 2013.
- [176] "Nanofluids and Nano-engineered Surfaces for Enhanced Thermal Performance of Nuclear Reactors", State Nuclear Power Technology R&D Centre, Beijing, China, May 23, 2013.
- [177] Pandora's promise screening at MIT, Panel, 24 April 2013.
- [178] "Thoughts about Advanced Diagnostics for Boiling Heat Transfer", International Workshop on Micro and Nano Structures for Phase Change Heat Transfer, MIT Endicott House, April 23, 2013.
- [179] "Future Prospects for Nuclear Power after Fukushima", Boston University, February 5, 2013.

- [180] "Future Prospects for Nuclear Power after Fukushima", Presentation to delegation of Total S.A., MIT, November 6, 2012.
- [181] "Future Prospects for Nuclear Power after Fukushima", MIT-China Low Carbon Energy Leaders Program, MIT, September 17 and October 25, 2012.
- [182] "ANS Perspective on Fukushima and the US Response to the Event", The 9th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-9), Kaohsiung, Taiwan, September 12, 2012.
- [183] "The Fukushima-Daiichi Accident: What Happened + Lessons Learned", MIT-China Low Carbon Energy Leaders Program, MIT, August 30, 2012.
- [184] "Study of Boiling Phenomena through Direct Numerical Simulations and Advanced Experimental Techniques", Universite Pierre et Marie Curie (Paris 6), Paris, June 28, 2012.
- [185] "Small is Beautiful? A Review of the Small Modular Reactor (SMR) Designs", American Nuclear Society (ANS) Northeastern Section Meeting, Wellesley MA, June 21, 2012.
- [186] "Synchronized High-Speed Video, Infrared Thermometry and PIV Data for Validation of Interface-Tracking Simulations of Nucleate Boiling Phenomena", (keynote) ECI 8th International Conference on Boiling and Condensation Heat Transfer Lausanne, Switzerland, June 3 2012.
- [187] "Study of Boiling Phenomena through Direct Numerical Simulations and Synchronized High-Speed Video, Infra-red Thermometry and PIV", City College of New York, May 10, 2012.
- [188] "Advanced Diagnostics and Simulations for the Study of Boiling Heat Transfer Phenomena", University of Houston, April 26, 2012.
- [189] "Future Prospects for Nuclear Power after Fukushima", Laboratory for Nuclear Science, MIT, February 13, 2012.
- [190] "Nuclear Energy Beyond Fukushima", Presentation to delegation of Total S.A., MIT, November 7, 2011.
- [191] "Impact of Fukushima on Nuclear Industry and NSE", MIT Energy Initiative External Advisory Board, October 26-28, 2011.
- [192] "After Fukushima, Nuclear Energy 2.0: Environmental Benefits and Risks", the MIT Energy Club, October 7, 2011.
- [193] "Nuclear Power after Fukushima: Lessons Learned and Future Prospects", Laboratory for Nuclear Science, MIT, October 5, 2011.
- [194] "Advanced Experimental Methods for Boiling Heat Transfer", at course on Multiphase Flow and Boiling Heat Transfer, Modern Approach and Recent Advances, Troy, NY, September 19-23, 2011.
- [195] "Enhanced LWR Thermal Performance with Nanofluids", at course on Multiphase Flow and Boiling Heat Transfer, Modern Approach and Recent Advances, Troy, NY, September 19-23, 2011.
- [196] "Critical Evaluation of Heat Transfer Evaluation in Nanofluids", Tufts University, April 7, 2011.
- [197] "Critical Evaluation of Heat Transfer Evaluation in Nanofluids", Newcastle University, Newcastle, New South Wales, Australia, January 17, 2011.
- [198] "Advanced Computational Methods and Diagnostics for Two-phase Flow and Heat Transfer", Third International Forum on 'Multidisciplinary Education and Research Center for Energy Science', Global COE, Ishigaki-jima Island, Okinawa, December 9-14, 2010.
- [199] "An Update on Nuclear Power", 2010 IEEE Conference on Innovative Technologies for an Efficient and Reliable Electricity Supply, Waltham, MA, September 29, 2010.
- [200] "Nanofluids... when Glitzy Nanoscience meets Prosaic Engineering", Brown University, Providence, RI, April 19, 2010.

- [201] "A Critical Investigation of Heat Transfer Enhancement in Nanofluids", Argonne National Laboratory, Argonne, IL, March 8, 2010.
- [202] "Advanced computational methods and diagnostics for two-phase flow and heat transfer", Oak Ridge National Laboratory, Oak Ridge, TN, January 15, 2010
- [203] "Advanced Light Water Reactors for the US Nuclear Industry", Lincoln Labs MIT, Lexington MA, January 11, 2010.
- [204] "Nanofluid Heat Transfer Enhancement for Nuclear Reactor Applications", Keynote lecture at Micro/Nanoscale Heat Transfer International Conference (MNHT2009), Shanghai, China, December 18-21, 2009.
- [205] "Nanofluids for Enhanced Thermal Performance of Nuclear Reactors", UNIST, Ulsan, South Korea, December 17, 2009.
- [206] "The 'Renaissance' of Nuclear Fission Energy: New Technologies ...and some Old Challenges", Keynote lecture (in Italian) at Conferenza Nazionale di Radioprotezione, Frascati, Italy, October 28, 2009
- [207] "Advanced computational methods and diagnostics for two-phase flow and heat transfer", MIT-Brazil Workshop on Innovations in Nuclear Technology, Sao Paulo, Brazil, October 6-7, 2009.
- [208] "Innovative Safety Aspects of Advanced LWRs", MIT-Brazil Workshop on Innovations in Nuclear Technology, Sao Paulo, Brazil, October 6-7, 2009.
- [209] "Nanofluids... at the Intersection of Glitzy Nanotechnology and Prosaic Engineering", Worcester Polytechnic Institute (WPI), September 23, 2009.
- [210] "Near-Term Advanced Reactors for the U.S. Nuclear Industry", Princeton University, Princeton, New Jersey, February 26, 2009
- [211] "The Nuclear Renaissance in the U.S. Fact or Fiction? ", Princeton Plasma Physics Laboratory (PPPL), Princeton, New Jersey, February 25, 2009
- [212] "Two-phase heat transfer diagnostic capabilities to meet R7 validation requirements", presentation at the workshop on "Verification and Validation, Sensitivity Analysis, and Uncertainty Quantification of a Next Generation System Safety Analysis Code", Idaho Falls, January 12, 2009.
- [213] "Present and (Near) Future of Nuclear Energy in the U.S.", presentation at the "Rocca Day", Polytechnic of Milan, September 29, 2008. (in Italian)
- [214] "The Nuclear Renaissance in the U.S.", Fermilab, Batavia, Illinois, July 30, 2008.
- [215] "Heat Transfer Enhancement in Nanofluids", Caltech, Pasadena, California, April 22, 2008.
- [216] "Nanofluids and Nuclear Power", University of California at Berkeley, April 21, 2008.
- [217] "Heat Transfer Enhancement in Nanofluids and Their Applications to Nuclear Power", Rensselaer Polytechnic Institute (RPI), Troy (NY), April 16, 2008.
- [218] "Heat Transfer Enhancement in Nanofluids: The MIT Research Program", University of Leeds, United Kingdom, March 28, 2008.
- [219] "Nanofluids for Enhanced Economics and Safety of Nuclear Reactors", University of Wisconsin at Madison, March 25, 2008.
- [220] "New Safer Nuclear Reactors", Rencontres de Physique de la Vallee d'Aoste, La Thuile, Italy, February 27, 2008.
- [221] "Enhancement of Transport Phenomena in Nanofluids", King Abdulaziz City of Science and Technology (KACST), Riyadh, Kingdom of Saudi Arabia, January 22, 2008.
- [222] "Nanofluids for Enhanced Economics and Safety of Nuclear Reactors", GCEP-MIT Workshop on Nuclear Fission, Opportunities for Fundamental Research and Breakthrough in Fission University Park Hotel at MIT, Cambridge, Massachusetts, November 29, 2007.
- [223] "Nucleate Boiling and CHF Characteristics of Nanofluids", Engineering Conferences International (ECI) - Nanofluids: Fundamentals and Applications, Copper Mountain, Colorado, September 18, 2007.

- [224] "Towards an Explanation of the Mechanism of Boiling Critical Heat Flux Enhancement in Nanofluids", Keynote lecture at 5th International Conference on Nanochannels, Microchannels and Minichannels (ASME-ICNMM2007), June 18-20, 2007, Puebla, Mexico.
- [225] "Nuclear Power Prospects in the U.S. The MIT View", Polytechnic of Milan, May 23, 2007. (in Italian)
- [226] "Use of Nanofluids for Enhanced Economics and Safety of Nuclear Reactors", Paul Scherrer Institut (PSI), Zurich, May 21, 2007.
- [227] "The Potential of Nanofluids as Next-Generation Coolants", Cairo 10th International Conference on Energy and Environment, Luxor, Egypt, March 11-15, 2007.
- [228] "An Innovative Assembly Concept for High Power Density BWRs", Toshiba, Power and Industrial Systems Research and Development Center, Yokohama, November 29, 2006.
- [229] "Use of Nanofluids for Enhanced Economics and Safety of Nuclear Reactors", 2nd International Symposium on Innovative Nuclear Energy Systems (INES-2), organized by the Tokyo Institute of Technology, Yokohama, Japan, November 26-30, 2006.
- [230] "Research on Innovative Nuclear Power Technology at MIT", Royal Institute of Technology, Stockholm, October 9, 2006.
- [231] "The Nuclear Renaissance in the U.S.", in the roundtable on nuclear power ("Un nuovo nucleare: un'ipotesi concreta?") at the 2006 Festa Nazionale della Margherita, Caorle, September 10, 2006. (in Italian)
- [232] "Boiling Critical Heat Flux Enhancement in Nanofluids for Nuclear Applications", Idaho National Laboratory, Idaho Falls, Idaho, July 10, 2006.
- [233] "Heat transfer enhancement in nanofluids", Energy Nanotechnology International Conference (ENIC '06), Cambridge, June 26, 2006.
- [234] "Near-Term Advanced Nuclear Reactors and Related MIT Research", Energy Short Course, MIT, June 16, 2006.
- [235] "The SuperCritical Water Reactor (SCWR): Introduction and Core Design Review", KAPL SCWR Review Meeting, Albany, March 7, 2006.
- [236] "Nanofluid Coolants for Advanced Nuclear Power Plants", Idaho National Laboratory, Idaho Falls, Idaho, June 28, 2005.
- [237] "Nanofluid Coolants for Nuclear Applications", Texas A&M, College Station, Texas, December 8, 2004.
- [238] "The Supercritical Water Cooled Reactor (SCWR) and its Safety Characteristics", U.S. Nuclear Regulatory Commission, Rockville, October 8, 2003.
- [239] "The Development of the Supercritical Light-Water-Cooled Reactor (SCWR) in the U.S.", Seminars held at:
- [240] Ministry of Energy Technology of Japan (METI), Tokyo, July 16, 2003
- [241] Conference of Japan Nuclear Utilities and Vendors, Tokyo, July 17, 2003
- [242] Inland Northwest Research Alliance (INRA), Idaho Falls, October 27, 2003
- [243] Atomic Energy of Canada Limited (AECL), Chalk River, November 13, 2003
- [244] "Innovative Core Designs for the Supercritical Water Cooled Reactor", Department of Nuclear Engineering of MIT, Cambridge, May 16, 2003.
- [245] "Thermal-Hydraulic and Safety Needs for the SCWR System", Generation-IV Workshop on the Thermal-hydraulics of Generation-IV reactors, Idaho Falls, March 18-19, 2003.
- [246] "The Supercritical Light-Water-Cooled Reactor and its Potential for Improved Economics". Seminars held at:American Nuclear Society 2002 Winter Meeting, November 18, 2002General Electric (GE) Nuclear, San Jose, December 5, 2002
- [249] Department of Nuclear Engineering of MIT, Cambridge, December 12, 2002
- [250] Department of Engineering Physics of the University of Wisconsin at Madison, January 9, 2002
- [251] Idaho Office of the U.S. Department of Energy (DoE), Idaho Falls, January 22, 2002
- [252] Idaho State University, January 31, 2003

- [253] Westinghouse Electric Company, Pittsburgh, February 7, 2003
- [254] Argonne National Laboratory West, Idaho Falls, March 11, 2003
- [255] Department of Nuclear Engineering of Texas A&M, College Station, April 14, 2003
- [256] Department of Nuclear Engineering of the University of California at Berkeley, November 24, 2003
- [257] "Evaluation of Polonium Extraction Technology for Lead-Bismuth Cooled Fast Reactors". *Russia-Japan LBE Workshop*, Tokyo Institute of Technology, Tokyo, February 2001.
- [258] "Conceptual Design of a Lead-Bismuth Cooled Fast Reactor with In-Vessel Direct-Contact Steam Generation", Department of Engineering Physics of the University of Wisconsin at Madison. February 2001.
- [259] "Lead-Bismuth-Cooled Reactors for Actinide Burning and Power Production", Department of Engineering Physics of the University of Wisconsin at Madison. May 2000.