LAURA H. GREENE

National High Magnetic Field Laboratory and Florida State University
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Nationalmaglab.org/Laura-Greene-lab-leadership *Greene Lab - MagLab*

EXPERTISE:

Research in experimental condensed matter physics investigating quantum materials. Focuses on strongly correlated states utilizing planar tunneling and point contact electron spectroscopies of heavy fermions, topological materials, superconductors, and other quantum materials. Greene's vast experience with science diplomacy includes her work on promoting international scientific ties with a special emphasis on diversity, human rights, science ethics, and science policy.

DEGREES and HIGHER EDUCATIONAL TRAINING:

Post-Doc	1983-84	Physics	Bell Laboratories, Murray Hill, NJ
Ph.D.	1984	Physics	Cornell University
M.S.	1980	Experimental Physics	Cornell University
M.S.	1978	Physics	The Ohio State University
B.S.	1974	Physics, *Cum laude*	The Ohio State University

EMPLOYMENT BACKGROUND:

2020-present	Marie Krafft Professor of Physics, Florida State University
2015-present	Chief Scientist, National High Magnetic Field Laboratory
2015-present	Professor of Physics, University of Florida, Gainesville
2015-2019	Francis Eppes Professor of Physics, Florida State University
2015-2018	Distinguished Visiting Professor, Institute for Basic Sciences Center for Correlated Electron Systems (IBS CCES), Seoul National University, Seoul, South Korea
2015-present	Emerita Swanlund Professor of Physics, University of Illinois
2015-present	Emerita Center for Advanced Study Professor of Physics, University of Illinois
2009-2018	Associate Director of the Center for Emergent Superconductivity (CES) an Energy Frontier Research Center (Brookhaven, Argonne, & University of Illinois).
2009-2015	Principal Investigator for the Illinois Branch of the CES
2010	Visiting Fellow Commoner, Trinity College, Cambridge University, UK
2010	Visiting Professor, University of California at Irvine
2009-2015	Center for Advanced Study Professor of Physics (University wide Chair), University of Illinois
2004	Visiting Professor, CNRS, Orsay, France.
2000-2015	Swanlund Professor of Physics (University wide Endowed Chair), University of Illinois
1992-2015	Professor of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.
1985-1992	Member of Technical Staff, Bellcore, Red Bank, NJ.
1983-1984	Postdoctoral Member of Technical Staff, Bell Labs, Murray Hill, NJ.
1979-1983	Research Assistant, Cornell University.
1978-1979	Teaching Assistant, Cornell University.
1976-1977	Research Assistant, The Ohio State University.
1975-1976	Teaching Assistant, The Ohio State University.
1974-1975	Member of Technical Staff, Physics Division, Hughes Aircraft Co., Torrance, CA.
1973-1974	Teaching Assistant, The Ohio State University (first undergraduate to do this)
1971-1973	Electronics Laboratory Assistant, The Ohio State University.

HONORS and AWARDS:

- The Oersted Medal from the American Association of Physics Teachers (AAPT), 2024.
- American Institute of Physics (AIP) Oral History Interview for the Niels Bohr Library & Archives https://repository.aip.org/greene-laura-h-2020-november-27
- Tallahassee Scientific Society Gold Medal Award for 2019.
- American Physical Society Five Sigma Physicist Award for Advocacy in Science Policy, 2019
- John S. Guggenheim Foundation Fellowship, 2009-10.
- Center for Advanced Study Professor of Physics, University of Illinois, elected 2009.
- Fellow, Institute of Physics, "FInsP" UK, elected 2007.
- Member, National Academy of Science, elected 2006.
- Fellow, Phi-Kappa-Phi honor society, elected 2001.
- E. O. Lawrence Award for Materials Research, Department of Energy, 1999.
- Fellow, American Academy of Arts and Sciences, elected 1997.
- Fellow, The American Association for the Advancement of Science (AAAS), elected 1997.
- Maria Goeppert-Mayer Award of the American Physical Society, 1994.
- Fellow, American Physical Society, elected 1993.
- Award of Excellence, Bellcore, Red Bank, NJ, 1989.
- Hazel S. Brown Scholarship Award, the Ohio State University, 1974

NAMED LECTURESHIPS (selected):

- 2025 *Marie Curie Public Lecture*, University of North Carolina
- 2023 *Sir Nevill Mott Lecture*, University of Loughborough, UK.
- 2023 *Reynolds Lecture*, University of Connecticut
- 2022 *Commencement Speaker*, Florida State University
- 2022 *Pritchett Lecture*, Georgia Tech.
- 2021 *Maria Goeppert Mayer Lecture*, University of Chicago
- 2018 *Yunker Public Lecture*, Oregon State University, Corvallis, OR
- 2018 *Nick and Maggie DeWolf Foundation Public Lecture*, Opera House, Aspen, CO.
- 2017 *Reddy Public Lecturer,* Memorial University
- 2016 *Bragg Lecturer*, University College of London.
- 2016 *ZhongGuanCun Forum Lecture*, Sponsored by IOP, China, Beijing
- 2014 *Carr Lecturer*, University of Maryland.
- 2008 *Chancellor's Center for Advanced Study Public Lecture*, University of Illinois
- 2007 *Kathryn McCarthy Lecturer*, Tufts University.
- 2007 *Condensed Matter Sciences Distinguished Lecturer*, Brookhaven National Laboratory.
- 2005-6 *Phi Beta Kappa Visiting Scholar*, 5 colleges
- 2005 *1st Distinguished Alumnus Lecturer*, The Ohio State University.
- 1999 *Heinz R. Pagels Memorial Public Lecture*, Aspen, CO.
- 1997 *Jennifer Mills Lecturer*, Kalamazoo College, Department of Physics.
- 2001 New Student Convocation Speaker, University of Illinois, Urbana-Champaign.
- 1997 APS Centennial Speaker, (commemorating 1st 100 years of the American Physical Society.

EDITORIAL BOARDS:

- Editorial Board, Cuban Journal of Physics (Revista Cubana de Física) (2018 – pres.) http://www.revistacubanadefisica.org/index.php/rcf
- Co-Editor (with J.A. Sauls) ***Philosophical Transactions A*** (Royal Society, UK)***:*** *Special Issue on Andreev Bound States*, Phil. Trans. A, **376**, issue 2125 (2018) http://rsta.royalsocietypublishing.org/content/376/2125/
- Co-editor (with Joe Thompson and Jörg Schmalian) ***Reports on Progress in Physics*** (IoP Publishing, UK): Special Issue on *Strongly-Correlated Electron Systems,* RoPP **80**, 030401-114501 (2017). http://iopscience.iop.org/journal/0034-4885/page/Special-Issue-on-Strongly-Correlated-Electron-Systems
- Editor-in-Chief, ***Reports on Progress in Physics*** (IoP Publishing, UK) 2005 – 2015; Editorial Board 2007 – 2015. *In that time, the Impact Factor rose from* ***3.2 to 17.062***.
- Editor, ***Current Opinion in Solid State & Materials Science*** (Elsevier)***,*** *Special Issue on Fe-Based Superconductors* COSSMS **17**, 39-88 (2013). https://www.sciencedirect.com/journal/current-opinion-in-solid-state-and-materials-science/vol/17/issue/2
- Co-editor (with George Crabtree and Peter Johnson) ***Reports on Progress in Physics*** (IoP Publishing, UK): *Special Issue on Fe-based superconductors and Related Materials (*RoPP **74,** Issue 12, 2011). https://iopscience.iop.org/journal/0034-4885/page/Celebrating%20100%20years%20of%20superconductivity%20-%20Special%20issue%20on%20the%20Iron-Based%20Superconductors
- Editorial Board, **Superconductivity Review**, (Gordon and Breach Science) (1992-1995).

PROFESSIONAL REGISTRATIONS

- Founding Member, Florida Academy of Science, Engineering, and Medicine (ASEMFL), 2018-pres.
- Fellow, Institute of Physics, UK (FInsP), elected 2007.
- Member, National Academy of Science, elected 2006.
- Member, Phi-Kappa-Phi Honor Society, elected 2001.
- Member, American Academy of Arts and Sciences, elected 1996.
- Fellow, American Association for the Advancement of Science (AAAS), elected 1997.
- Fellow, American Physical Society, elected 1993, Lifetime Member.
- National Society of Black Physicists (NSBP), Lifetime Member.
- American Geophysical Union (AGU), Lifetime Member.
- Sigma Xi.
- American Association of University Professors (AAUP).
- American Chemical Society (ACS).
- American Association of Physics Teachers (AAPT).
- Materials Research Society (MRS).

SCIENTIFIC PRESS RELEASES (selected):

- New York Times, Science Times, September 1, 2020: https://www.nytimes.com/2020/08/31/science/myriam-sarachik-physics.html
- APS News: http://www.aps.org/publications/apsnews/updates/nobel16.cfm?utm_source=APS+Physics+Main+Group&utm_campaign=178f4c807e-2016+Nobel+Prize+Announcement&utm_medium=email&utm_term=0_825303224b-178f4c807e-106561229
- Wall Street Journal: http://www.wsj.com/articles/nobel-prize-in-physics-awarded-to-david-thouless-duncan-haldane-and-michael-kosterlitz-1475574970)
- LA Times: http://www.latimes.com/science/sciencenow/la-sci-sn-nobel-prize-physics-20161004-snap-story.html
- La Nation (Argentina): http://www.lanacion.com.ar/1944201-fisica-un-nobel-por-revelar-secretos-exoticos-de-la-materia
- MagLab News: https://nationalmaglab.org/news-events/feature-stories/tapping-into-topological-promise
- EE Times: http://www.eetimes.com/author.asp?section_id=36&doc_id=1330586
- http://www.intute.ac.uk/hottopics/?s=Laura+Greene
- http://www.eurekalert.org/pub_releases/2005-03/uoia-psd031705.php
- http://www.azom.com/news.asp?newsID=2780

OUTREACH (selected):

- Quantum Jubilee MagLab Table, March 15, 2025, Anaheim, CA.
- "Making a Difference in Magnetism" Interview for the 67th Annual Conference in Magnetism and Magnetic Materials (MMM2022), Oct. 30 – Dec. 4, 2022. (You Tube, in press)
- "Novel Superconductors and the National Quantum Initiative" You Tube interview by Erica Carlson for "Quantum Connections: Conversations with leading scientists, engineers, educators, and decision-makers" for the Purdue Quantum Science and Engineering Institute, Sept. 1, 2022 (Your Tube, in press).
- Some on-line public lectures: https://www.google.com/search?q=Laura+Greene+Physics&biw=1097&bih=1123&tbm=vid&sxsrf=APq-WBuUyXzTEmGECqTDF9aQ_ghUBXtc8A%3A1647966845215&ei=ffo5YoDUDJK0ggf-ipmwCw&ved=0ahUKEwjAhqTzktr2AhUSmuAKHX5FBrYQ4dUDCA0&uact=5&oq=Laura+Greene+Physics&gs_lcp=Cg1nd3Mtd2l6LXZpZGVvEAMyBQgAEIAEOgQIIxAnOgoIABCABBCHAhAUOgYIABAWEB5Q3wVYsxVg5BdoAHAAeACAAYEBiAGNBpIBAzguMZgBAKABAcABAQ&sclient=gws-wiz-video
- Many Public lectures and "hands on" presentations/workshops to K-12 and college students, internationally.
- Plenary Talk plus several workshops and panels at the 2020 Conference for Undergraduate Women in Physics (CUWiP), University of Central Florida, Jacksonville, FL.
- Plenary Talk plus several workshops and panels at the 2019 meeting of the American Association of Physics Teachers, Provo, UT.
- Plenary Talk, plus workshop and panel at the 2019 German Physical Society Meeting (DPG): https://www.youtube.com/watch?reload=9&v=cPyDSV50Fyo. Regensburg, DE.
- Panels for the UNESCO International Day for Women and Girls in Physics, February 11-12, 2019, Tallahassee, FL.

- "Talk Science with Her" public discussion participant for the UNESCO International Day for Girls and Women in Science, February 9, 2017, University of Florida, Gainesville, FL
- MagLab Open house participant, February 2016-2019; 8000 to over 10,000 visitors.
- Science Café: "High-Temperature Superconductors: How Taming Serendipity Could Change our World" Science Café, Backwoods Bistro, Tallahassee, FL.
- Cornell Women in Physics: http://www.news.cornell.edu/stories/2016/10/women-physics-group-holds-40-year-reunion-oct-15
- ICAM Interview GSEE: A Global Partnership for Science Education, Outreach and Engagement: https://www.youtube.com/watch?v=aqog5xGMxCg
- APS-TV interview for the Kavli Lecture, March 6, 2014, Denver, CO https://www.youtube.com/watch?v=WWmtzgv102Y
- Physics World Interview, April 14, 2011, "Life after the Cuprates" http://physicsworld.com/cws/article/multimedia/45686
- National Academy of Sciences Interview, 2009: http://www.nasonline.org/news-and-multimedia/podcasts/interviews/laura-greene.html
- The "Year of Science 2009" interview: http://www.yearofscience2009.org/themes_physics_technology/meet-scientists/
- APS Physics Central Interview 2008: http://www.youtube.com/watch?v=ptswilP4yi0
- Women in Technology International (WITI) profiled in 2001: http://www.witi.com/center/witimuseum/womeninsciencet/2001/060901.shtml
- **Plenary** speaker and participant in the *International Physics Young Ambassador Symposium* Dec. 31, 2005 – Jan. 4, 2006, Taipei, Taiwan. This is in celebration of Einstein's miracle year. A "Physics Talent Search" (http://www.wyp2005.at/glob2-talent.htm) ranged over many countries for several months to identify physics-talented girls and boys (Junior High and High School) and culminated at this meeting.
- **COACh and related Workshops (selected):**
  Member of the COACh team partially supported by the Department of State, assisting in the success and impact of women and young scientists and engineers: http://coach.uoregon.edu/coach/. Several workshops at each (e.g., negotiation, leadership, networking, publishing, communication skills).

  March 5-8, 2013, Casablanca, Morocco
  June 24-27, 2013, Bali, Indonesia
  January 06-08, 2014, Bangkok, Thailand
  June 19-20, 2014, Medan, Sumatra, Indonesia
  September 1-5, 2014, Delhi, India
  September 8-12, 2014, Bangalore, India (https://indiabioscience.org/columns/indian-scenario/notes-from-the-career-building-workshop-for-women-scientists-at-nias
  May 20, 2015, Argonne National Laboratory
  June 22-23, 2015, Oak Ridge National Laboratory
  July 27-28, 2015, Makassar, South Sulawesi, Indonesia
  August 29-31, 2015, Pune, India
  September 2-4, 2015, Guwahati, India
  October 4-5, 2015, Muscat, Oman
  October 7-8, 2015, Nizwa, Oman
  October 11-12, 2015, Sohar, Oman

December 8-9, 2015, Accra, Ghana
April 23, 2016, Fethiye, Turkey
July 14, 2016, MagLab, Tallahassee, FL
November 7-8, 2016, Sao Paolo, Brazil
April 30, 2017, Gammarth, Tunisia
July 17, 2017, Ambon, Indonesia
August 29, 2017, Buzios, Brazil
September 22, 2018, São Paulo, Brazil
December 5, 2017, MagLab, Tallahassee, FL.
January 12, 2018, Jacksonville, FL
March 15, 2019, São Carlos, Brazil
July 19-22, 2019, Provo, UT
December 02-06, 2019, Wollongong, Australia
January 17-19, 2020, Tampa, FL
September 7, 2021, Odessa, Ukraine.
October 2021, Bodrum, Turkey: (Virtual)
March 8,2021, Corvallis, OR.
October 15, 2022, Bodrum, Turkey
September 28, 2023, UTenn, Knoxville

Popular articles and Op-Eds (also listed in Publications)

- Frances Houle, Kate Kirby, Laura Greene, and Michael Marder "The US Physics Community is Not Done Working on Trust" MIT Technology Review, July 31, 2024. https://www.technologyreview.com/2024/07/31/1095425/the-us-physics-community-is-not-done-working-on-trust/
- S. James Gates, Jr., Roxanne Hughes, Laura H. Greene, and Paul Cottle, "Two Points of Light", APS News, **30**, *The Back Page*, July/August 2021.
- Tomasz Durakiewicz and Laura Greene "Enabling a Quantum Leap" Physics Today **71**, 9-10 (2018); https://doi.org/10.1063/PT.3.4008.
- Laura H Greene "Building a Better World through Science Diplomacy" **The Back Page**, APS News, October 2018.
- Laura H Greene and Piers Coleman "David Pines (1924-2018) Physicist two described how electrons interact" Nature **560**, 432 (2018) *doi: 10.1038/d41586-018-05987-0*
- Warren E. Pickett and Laura H Greene, "Hard Line on Sanctions Harms Science Diplomacy" **The Back Page**, APS News, March 8, 2018.
- Popular Article: "*High-Temperature Superconductivity: Taming Serendipity*" Physics World, **24**, 41-43 (2011).
- Popular Article: "*Confronting Fraud in Science*", Book Review of *On Fact and Fraud: Cautionary Tales from the Front Lines of Science* by David Goodstein, Physics World, **23**, 42-43 (2010).
- Participant in the APS March Meeting "*Physics Songs*" symposia. I have also written and published several parodies, which I preform at various scientific meetings – especially festschrifts.

SERVICE: APPOINTMENTS and ELECTED POSITIONS

National and International Service

- Oliver E. Buckley Prize in Condensed Matter Physics 2027, member
- Chair of the Division Evaluation Panel for the Karlsruhe Institute of Technology (KIT), January 31-February 3, 2027.
- NASEM Panel Member of the "On Being a Scientist Panel on Responsible Conduct and Stewardship of the Research Process" for the study "*On Being a Scientist: An Updated and Online Guide to the Responsible and Ethical Conduct of Research*." November 12, 2025 – September 30, 2026. To be published by National Academies Press.
- Prize Committee for the 2026 Kamerlingh Onnes Prize for experimental superconductivity presented at the M2S-HTSC 2026 Conference.
- Nominating Committee, American Association for the Advancement of Science (AAAS) 2026-pres.
- Vice President for Ethics and Collegiality of the International Union of Pure and Applied Physics (IUPAP), 2025-pres.
- Review of the College of Science, March 3-6, 2026, University of Minnesota, Minneapolis, MN.
- National Academy of Sciences (NAS) Nominating Committee to identify candidates for NAS Council and International Secretary, 2025
- Reviewer, Danish Advanced Research Academy (DARA) major proposals competition, 2025-26.
- American Association of Physics teachers (AAPT) Development Committee, appointed 2025.
- Heike Kamerlingh Onnes Prize Committee, 2026, International Materials and Mechanisms of Superconductivity (M2S).
- American Institute of Physics (AIP) Compton and Tate Awards Selection Committee, 2005.
- Member of the President's Council of Advisors for Science and Technology (PCAST), appointed by President Joseph R Biden, September 2021-January 2025. **See PCAST Reports in PUBLICATIONS**.
- Selection committee for the Fritz London Prize for Low Temperature Physics, 2024-25
- Member of the APS-AAPT Task Force for Consilience, 2024-2025
- External Review member of the Physics Department at Iowa State University, 2024-25.
- Midterm Review of the New Frontiers in Research Fund (NFRF) 2020 Transformation Funded Projects for the Canada Research Coordinating Committee (CRCC), Board Member, 2025.
- Co-Chair, (with Alan Tennent and TBD) Workshop and Report on Grand Challenges in Neutron Science, 2024-2025.
- Chair of the CIFAR Review on Quantum Materials, November 5-8, 2024, Toronto, CA
- Chair, 2024-25 NAS Award for Scientific Discovery Committee.
- Advisory Committee, NSF Materials Research Science and Engineering Center "Center for Advance Materials and Manufacturing" (CAMM) at the University of Tennessee, 2024-25.
- Fritz London Memorial Prize Committee, 2023-2025
- Vice President for Outreach and Ethics of the International Union of Pure and Applied Physics (IUPAP), 2021-2025.
- Lee Osheroff Richardson (LOR) Prize Selection Committee, sponsored by Oxford Instruments, awarded annually to outstanding early career experimental scientists working in the Americas in the areas of low temperatures and/or high magnetic fields since 2020; **Chair since 2023**.
- Advisory Board of Q-MEEN-C, The UCSD EFRC on Neuromorphic Computing, 2018-pres.

- Prize Committee for the 2022 Kamerlingh Onnes Prize for experimental superconductivity presented at the M2S-HTSC 2022 Conference.
- Prize Committee for the Conference on Strongly Correlated Electron Systems (SCES 2021) which includes the Nevill F. Mott, Bryan R. Coles, and Bernard Coqblin Prizes.
- E.O. Lawrence Award in Condensed Matter and Materials Science for the Department of Energy Selection Committee, 2020.
- American Association for the Advancement of Science (AAAS) Governance Modernization Committee, 2020-2022.
- Chair of the US Delegation to the 2021 IUPAP General Assembly
- National Academy of Sciences Committee for the NAS Award for Scientific Discovery, 2020.
- American Physical Society (APS) Committee on the International Freedom of Scientists (CIFS), 2020-2022.
- American Physical Society Committee on Ethics, 2019-21.
- National Academy of Sciences, Section 33 Diversity Committee Co-Chair, 2018-pres.
- National Academy of Sciences, Class III Membership Committee (CMC), 2015-18; 2020-21.
- Member of the IUPAP Conference on Women in Physics Working Group for the 2020 meeting July 20-23, 2020, Melbourne, Australia (meeting postponed due to COVID).
- Chair of the Publications Committee for AAAS, 2018-2020.
- Chair of the APS Apker Award Selection Committee, 2019.
- Search Committee for the Editor in Chief of the Science Family of Journals, American Association of the Advancement of Science (AAAS), 2019.
- Founding Member, Florida Academy Science Engineering & Medicine (ASEMFL), 2018-present.
- Israeli Council for Higher Education panel to evaluate all of their programs in physics, 2019.
- American Academy of Arts and Sciences, Chair of Class I, Section 2 (Physics) 2016-2019.
- *Intelligence Science and Technology Experts Group* (ISTEG) of the National Academies of Sciences, Engineering and Medicine, 2015-present.
- Vice President for Council, International Union of Pure and Applied Physics (IUPAP), 2018-21.
- Chair of the US Liaison Committee (USLC) of the International Union of Pure and Applied Physics (IUPAP) Chair-elect 2015-2017; Chair 2018-2021.
- Chair of the Commission on Structure and Dynamics of Condensed Matter (C10) of the International Union of Pure and Applied Physicists (IUPAP) 2018-2021; US delegate since 2011.
- Board of Directors, American Association for the Advancement of Science (AAAS), 2014-2022.
- Chair, Board of Governors, International Institute for Complex and Adaptive Matter (ICAM-I2CAM), elected 2013-present.
- Fellowship Selection Committee, Institute of Physics (IoP – UK), 2007-present.
- Founding Member Board of Trustee, and on the Board of Governors, Institute for Complex and Adaptive Materials (ICAM), University of California, 1998-present.
- Co-Chair of the National Academies Consensus Report: “Frontiers of Materials Research: A Decadal Study” with Matt Terrell and Tom Lubensky, 2016-2019. http://sites.nationalacademies.org/DEPS/materials-decadal/index.htm
- Co-Chair, NSF Workshop on Midscale Instrumentation for Quantum Materials, December 5-7, 2016, and Co-Chair of Report (2018) “National Science Foundation-Sponsored Workshop Report on Midscale Instrumentation to Accelerate Progress in Quantum Materials,” Collin Broholm, David D.

Awschalom, Daniel S. Dessau, and Laura H. Greene, September 2018. http://physics-astronomy.jhu.edu/wp-content/uploads/sites/11/2018/09/MIQM-report-v15_small.pdf

- Kavli Prize Committee in Nanoscience (5 members) for the Norwegian Academy of Science and Letters; for two periods (2015-2018), deciding Kavli Prize Laureates in 2016 and 2018.
- Founding Member, Global Partnership for Promoting Science Education through Engagement (GSEE), sponsored but the Institute for Complex and Adaptive Matter (ICAM), 2012-18.
- American Physical Society Task Force on Increasing International Engagement 2016-2018.
- American Physical Society Physics Policy Committee (2016-2018); Chair in 2018.
- American Physical Society Panel on Public Affairs (POPA), 2015-2018.
- Search Committee for the Division Director of the Materials Science Division at Argonne National Laboratory, 2018.
- Very frequently visit legislature and executive branch to advocate for science; mostly with help from the APS Office of Government Affairs, 2015 – 2018. (Note APS Five Sigma Award, 2019).
- President of the American Physical Society, 2017. (2015 Vice President, 2016 President-Elect, and 2018 Past-President).
- American Academy of Arts and Sciences Rumford Prize Selection Committee 2018.
- Advisory Board, Quantum Africa Steering Committee, which has the responsibility of guiding the Quantum Africa series, 2017-18.
- Science Steering Committee, Institute for Complex and Adaptive Materials (ICAM), University of California, 2008- 2017.
- Chair of the 2017 Physics Medal Committee, American Physical Society.
- Chair of the 2017 Lillienfeld Committee, American Physical Society.
- Chair of the 2017 Valley Award Committee, American Physical Society.
- Chair, Experimental Screening Committee for Section 33 “Applied Physical Sciences” of the National Academy of Sciences (NAS), 2014-2016.
- Search Committee for the new Editor in Chief of Science Magazine, 2015-16.
- Chair, General Fellowship Committee of the American Physical Society (2015-2016).
- Chair of the Division of Materials Physics (DMP) of the American Physical Society, 2015 (2011 Vice-Chair, 2012 Chair-Elect, and 2016 Past Chair.
- AAAS Annual Meeting Site Selection Committee, 2016.
- American Physical Society, Congressional Fellow Screening Committee, Chair, 2015-2016.
- Selection committee for the American Associate for the Advancement of Science (AAAS) Early Career Award for Public Engagement with Science (http://www.aaas.org/page/aaas-early-career-award-public-engagement-science), 2015-17.
- Chair, Buckley Prize Committee, Division of Condensed Matter Physics (DCMP) of the American Physical Society, 2015.
- Richard L. Greene Dissertation Award Selection Committee, APS, 2015; chair 2016.
- Program Committee, 11th International Conference on Materials and Mechanisms of Superconductivity (M2S 2015) August 23 – 28, 2015, Geneva, Switzerland.
- Pre-Search Committee, Editor in Chief for The Physical Review, American Physical Society, 2015.
- Publisher Appointment Team, American Physical Society, 2015.

- E.O. Lawrence Award in Materials Science for the Department of Energy Selection Committee, 2015.
- Co-Chair (with R. L. Greene) of the ICAM International Working Group on New Superconductors, 2010 – 2015.
- Search Committee for the Chief Executive Officer of the American Association for the Advancement of Science (AAAS), 2014.
- Department of Energy, Basic Energy Sciences Advisory Committee (BESAC) working group to update the 2007 BESAC Report "Directing Matter and Energy: Five Challenges for Science and the Imagination" (http://www.besac-grand-challenge2014.com), 2014

- IUPAP General Assembly; US Delegate, November 4-7, 2014, Nanyang Technical University, Singapore.
- Division of Materials Physics (DMP) Program Chair for the 2014 March Meeting and co-chair for the full meeting (~ 10,000 participants).
- Vice Chair of 2014 Buckley Prize Committee of the American Physical Society.
- The Board on Physics and Astronomy of the National Academy of Sciences (BPA-NAS), 2003-2006 and 2008 – 2014.
- Program Committee: International Conference Celebrating the 40th Anniversary of the Discovery of Point Contact Spectroscopy, 8-12, September 2014, Kharkiv, Russia.
- Selection Committee of the Edith and Peter O'Donnell Award for the Texas Academy of Engineering, Medicine, and Science (TAMES).
- Search Committee for the Lead Editor of Physical Review Letters, American Physical Society, 2013.
- Chair line for the Division of Materials Physics (DMP) of the American Physical Society, elected 2011. Terms are through the March Meeting: Vice-Chair 2011; Chair-Elect 2012; Chair 2015; Past Chair 2016.
- Member at Large for the Forum on Outreach and Engaging the Public (FOEP) of the American Physical Society, elected 2012 – 2013.
- Co-founder of the Forum on Outreach and Engaging the Public (FOEP), American Physical Society, 2012.
- Participant of the 2013 Physics Convocation of the American Physical Society, including Congressional Visits, February 20 – 23, 2013, American Center for Physics, College Park, MD, and Washington DC.
- Basic Energy Sciences Advisory Committee (BESAC), appointed by the U. S. Secretary of Energy, 2000 – 2012.
- Department of Energy, Basic Energy Sciences Workshops and Study: **From Quanta to the Continuum: Physics at the Mesoscale** (http://www.meso2012.com/).
- Member of the American Institute of Physics Karl T. Compton Medal Selection Committee, 2012.
- Alexander M. Cruickshank Lectureship Committee, Gordon Research Conferences, 2006 – 2011, Chair 2008-2011.
- Portfolio Evaluation Committee, Gordon Research Conferences, 2008-2011.
- Strategic Planning Committee, Gordon Research Conferences, 2006-2011.
- Board of Trustees, Gordon Research Conferences, elected 2005-2011.

- Program Committee of the International Conference on Strongly Correlated Electron Systems (SCES-2011), 28 August – 3 September 2011, Cambridge, UK.
- Committee on Informing the Public, American Physical Society, 2006 – 2011.
- Argonne Education and Outreach Council for the Division of Educational Programs, Argonne National Laboratory (Argonne-U/Chicago-LLC), appointed 2007 – 2011.
- Program Committee of the 26th International Conference on Low-Temperature Physics (LT26), 10-17 August 2011, Beijing, China.
- Condensed Matter Physics Grant Selection Committee (GSC 28) of the Natural Sciences and Engineering Research Council of Canada (NSERC), 2008 - 2011.
- Executive Board, Division of Materials Physics, American Physical Society, 2007-2010.
- Fellowship Committee, Division of Materials Physics, American Physical Society, 2008-2009; Chair 2012.
- Elector for The Jacksonian Professorship of Natural Philosophy, The Professorship of Physics, and the Chair for Astrophysics of the Department of Physics, Cambridge University, Cambridge, UK, September 2006, July 2007, January 2009.
- Department of Energy, Basic Energy Sciences Study and Report: ***"Science for Energy Technology: Strengthening the Link Between Basic Research and Industry"*** or "**SciTech**" panelist and co-author. (2010)
- Program Committee for the 25th International Conference on Low Temperature Physics (LT-25), Amsterdam, Netherlands, August 6 – 13, 2008.
- Liaison to the National Research Council, National Academy of Sciences Section 33 (Applied Physical Sciences), 2006-2008.
- National Research Council Study: "***Frontiers in Crystalline Matter: From Discovery to Technology"***, National Academy of Sciences, appointed 2007, Co-author and Committee Member.
- Program Committee of "BCS@50" commemorating the 50th anniversary of the discovery of the BCS theory of Superconductivity, October 10-13, 2007, Urbana, IL.
- SuperNet Committee (education and outreach), Institute for Complex and Adaptive Materials (ICAM), Los Alamos and University of California, 2006 – 2009.
- National Academies of Science Committee called by NSF to propose assessment and outlook for NSF's Materials Research Science and Engineering Centers (MRSEC) Program, 2004.
- Department of Energy Office of Basic Energy Sciences Workshop, Study, and Report, "***Basic Research Needs for Superconductivity to Secure our Energy Future"***, Chair, sub-panel on *Thermodynamics and Magnetism*, Workshop May 7-11, 2006, Washington, D.C. http://science.energy.gov/bes/news-and-resources/reports/basic-research-needs/
- Scientist in the American Association for the Advancement of Science (AAAS) "Adopt a scientist" program. Provides e-mail communication between physics students and professionals during the World Year of Physics, 2006.
- US Delegate to the 2nd International Conference on Women in Physics, International Union of Pure and Applied Physicists (IUPAP), Rio de Janeiro, Brazil, May 22-25, 2005.
- US delegate to the Low-Temperature Physics Commission (C5), International Union of Pure and Applied Physicists (IUPAP), elected 1996 and 1999: Each a three-year term.
- U. S. Liaison Committee, International Union of Pure and Applied Physicists (IUPAP), elected 1996 and 1998: Each a three-year term.

- Fellowship Selection Committee for Physics, Sloan Foundation, elected 2001-07.
- Schedule and Selection Committee, Gordon Research Conferences elected 1999-2004; 2006-09.
- Council Member-at-large, Gordon Research Conferences, elected 1999-2004; 2006-09.
- Argonne National Laboratory Distinguished Awards Selection Committee, 2005.
- E.O. Lawrence Award in Materials Science for the Department of Energy Selection Committee, 2001.
- William L. McMillan Award Committee (Chair), Department of Physics Department, University of Illinois at Urbana-Champaign, Urbana, IL, 1995-97.
- American Association for the Advancement of Science (AAAS), Electorate Nominating Committee of Section B (Physics), 2000-02, Chair 2002.
- Nominating Committee, Division of Condensed Matter Physics, American Physical Society, 2005.
- Bouchet Award Selection Committee, American Physical Society 2003-05.
- Executive Board, American Physical Society, elected 1995, 2-year term.
- Nominating Committee, Division of Condensed Matter Physics, American Physical Society, 1998.
- Committee on Committees, American Physical Society, elected 1995-98, Chair 1998.
- Maria Goeppert-Mayer Award Selection Committee, American Physical Society, 1995.
- Congressional Fellow Screening Committee, American Physical Society, 1993-94.
- General Councilor, American Physical Society, elected to a four-year term, 1992-95.
- Search Committee for Editor-in-Chief of The Physical Review, appointed 1996.
- Physics Today Round Table on the future of our Research Universities. This was published in the March 1995 issue of Physics Today.
- Program Committee of the 8th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors (M2S-HTSC-VIII), July 9-14, 2005, Dresden, Germany (http://www.m2s-dresden.de).
- National Science Foundation MAPP Workshop Committee. Neal Lane and other NSF officials assembled this committee in 1995 to answer questions put forth by Senate.

Advisory Committees and Advisory Boards

- RIKEN Cluster for Pioneering Research Advisory Council (CPR AC), August 28-31, 2023.
- External Advisory Board for the Department of Energy Frontier Research Center (EFRC) "Quantum Materials for Energy Efficient Neuromorphic Computing (Q-MEEN-C)" 2018-pres.
- External Advisory Board, Quantum Behavior in the Universe (QBU) an NSF Research Traineeship Program (NRT) at Arizona State University, Prof. Alexandra Navrotsky, PI.
- Science Advisory Committee, Argonne National Laboratory – Advanced Photon Source (SAC, ANL-APS), 2017 – 2024. I also served on, or chaired, Beamline Reviews.
- Science Advisory Committee for the Oak Ridge National Laboratory (ORNL) Spallation Neutron Source (SNS) high-field magnet procured from Helmholtz Zentrum Berlin (HZB).
- Texas Center for Superconductivity Advisory Board, 2018 – pres.
- Science Advisory Committee (SAC) of the Condensed Matter Physics and Materials Science (CMPMS) Division at Brookhaven National Laboratory, 2019-2021 and 2021-2024.
- Dutch Institute for Emergent Phenomena (DIEP) (https://www.d-iep.org/) Scientific Advisory Board, 2018-2020.
- ESPCI (École Supérieure de Physique et de Chemie Industrielles de la Vielle de Paris) Paris Tech International Scientific Advisory Committee (http://www.espci.fr/en/espci-paristech-80/organization/international-scientific-committee), 2014 –2019.
- External Advisory Board, DoE Center for Computational Materials Sciences, Brookhaven National Labs (Gabriel Kotliar, Director) 2016-2020.
- Behind the scenes consultant to Nature, Science, APS, and several other organizations for Ethics in Science, which mainly focuses on how to identify and manage scientific misconduct issues.
- Rice Center for Quantum Materials (RCQM) Advisory Board, 2014-2019.
- COACh International Advisory Board, 2012-15. (http://coach.uoregon.edu/coach/).
- External Advisory Board: Texas Center for Superconductivity (TcSUH), 2012 – present.
- Scientific Advisory Committee: "TTN 2018- Tunneling Trough Nanoscience", 17-20 October 2018, Villa Rufolo, Ravello, Italy. http://ttn18.fisica.unisa.it/
- Vice-Chair, Development Advisory Committee, American Physical Society, 2015; Chair in 2016
- Internal Advisory Board for the Florida State University ADVANCE-Adaptation: Creating empowerment through Recruitment, Networking, and Mentorship, Roxanne Hughes (MagLab), Tamara Bertrand-Jones (College of Education); Charmane Caldwell (College of Engineering); Michelle Douglas (FSU HR); and Ashby Plant (Psychology) co-PIs; 2017.
- International Advisory Board for the 2016 International Conference on Superconductivity and Magnetism-ICSM2016, April 2016, Fethiye, Turkey.
- University of Montana Materials PhD Advisory Board, 2014 – 2016.
- External Advisory Board for the Center for Commercial Design of Functional Layered Materials (CCDM), an Energy Frontier Research Center led by Temple University, 2014-15.
- International Advisory Board for the 2016 International Conference on Strongly Correlated Electron Systems, May 9 – 13, 2016, Hangzhou, China.
- Advisory Committee (and workshop convener) for the US Department of State US-Brazil Young Physicists Forum (YPF).
- External Advisory Panel, Argonne Materials Advisory Board, 2010-2020.

- External Advisory Committee for the Northwestern University Materials Research Science & Engineering Center (NU-MRSEC), 2010 – 2015.
- External Advisory Board, National Dong Hwa University, Shoufeng, Hualien, Taiwan, 2013-15.
- Advisory Committee for the US Department of State US-China Young Physicists Forum (YPF). The next meeting is February 28 – March1, 2015, San Antonio, TX.
- International Advisory Committee and organizer, SuperStripes 2014, July 2014, Erice, IT.
- Advisory Committee for the Superconductivity Section for the International Conference on Low Temperature Physics, LT27, August 6 – 13. 2014, Buenos Aires, Argentina.
- International Advisory Committee of the 4th International Conference on Superconductivity and Magnetism-ICSM2014, 27 April – 2 May 2014, Antalya, Turkey. http://icsm2014.org/general-information/conferenceintroduction/.
- International Advisory Board, 2013 International Conference on Strongly Correlated Electron Systems, July 7-11, 2014, Grenoble, FR.
- BOOST/Grant writing/Indonesia Advisory Board; part of COACh International, for the Kavli Frontiers of Science Indonesia Meeting, Bali, Indonesia.
- International Advisory Committee of the 14th International Workshop on Vortex Matter in Superconductors. May 26 to May 31, 2013, Nanjing, China.
- International Advisory Committee, International Conference on Magnetism – 2012 (ICM2012), July 8-13, 2012, Bussan, Korea.
- Center for Integrated Nanotechnologies (CINT), Los Alamos and Sandia National Laboratories: Member of the Science Advisory Committee (SAC) 2002 – 2010.
- National Advisory Committee of the 2010 International Conference on Strongly Correlated Electron Systems (SCES2010), Santa Fe, NM, June 27- July 2, 2010.
- National Advisory Committee for the 2007 International Conference on Strongly Correlated Electron Systems (SCES2007), May 13- 18, 2007, Houston, TX
- Advisory Board, Kavli-Institute for Theoretical Physics (KITP), University of California at Santa Barbara, Santa Barbara, CA, 2002-2005.
- Science Advisory and Program Committees for the 24th International Conference on Low Temperature Physics (LT24), August 2005, Orlando, FL.
- International Advisory Committee for the 23rd International Conference on Low Temperature Physics (LT-23), August 20 – 27, 2002, Hiroshima, Japan.
- Science Advisory and Program Committees for the International Conference on the Materials and Mechanisms of Superconductivity (M2S-RIO), May 25-31, 2003, Rio de Janeiro, Brazil.

Review Committees and Panels

- Review of the NASEM Board on Physics and Astronomy (NAS-BPA) 2019-20.
- Review of the Rice University Department of Physics, November 2019.
- Review of the University of Pennsylvania Department of Physics, April 4-6, 2018
- Reviewer of National Academies of Science FY2018 Report: *"An Assessment of Four Divisions of the Physical Measurement Laboratory of NIST."*
- External Review Committee: Free Electron Laser for Infrared Experiments – High Magnetic Field Laboratory (FELIX-HMFL), Radboud University, Nijmegen, The Netherlands, March 27 – 29, 2018
- Reviewer of National Academies of Science Consensus Report "*Open Science by Design*" 2018.
- Review Panel & Advisory Council, Cluster for Pioneering Research (CPR) RIKEN 2019, Japan.
- DOE-BES Committee of Visitors to Review EFRCs and Hubs, Nov. 15-17, 2016.
- Review Panel for the Computational Materials Sciences Management Review, Department of Energy, February 2017
- Cambridge University Physics Strategic Research Review Committee, 2015-2017.
- Review Panel, "Design Principles for Materials with Magnetic Functionality" LDRD for Los Alamos National Laboratory, January 27, 2014, Los Alamos, NM.
- Reviewer of the National Research Council (NRC) Report on the National High Magnet Field Laboratory (NHFML), 2013.
- Review Panel for the National Academy of Sciences and National Academy of Engineering of the National Center for Neutron Sciences (NCNS) at the National Institute of Standards and Technology (NIST), 2013.
- Review Panel, Advanced Photon Source (APS) beamlines on high-energy inelastic x-ray scattering (HERIX) and nuclear resonance scattering (NRS), Sectors E-ID and 30-ID, and the instrumentation for synchrotron Mössbauer spectroscopy (SMS) at Argonne National Laboratory; October 3, 2012.
- Review Panel, Chair: Department of Physics and Astronomy, Iowa State University, April 28 – May 1, 2011, Ames, IA.
- Review Panel, Chair: Department of Physics and Astronomy, University of British Columbia, September 25-26, 2008, Vancouver, British Columbia, Canada.
- Review Panel: Department of Physics and Astronomy, University of Cincinnati, November 29-30, 2007, Cincinnati, OH.
- Review Panel: National Science Foundation -- Small Business Initiative Research (NSF-SBIR) proposals, September 7, 2006, NSF, Arlington, VA.
- Review Panel: The National High Magnetic Field Laboratories (NHMFL) Blue Ribbon Advisory Review Panel, for the National Science Foundation to access the future of our National Magnet Labs, 2005. Included a site visit to the National High Magnet Field Laboratory Brain Institute and Nano-Kelvin Facilities, April 22, 2006, Gainesville, FL.
- Review Panel and member of the University of Chicago Division of Educational Programs peer-review committee at Argonne National Laboratory, September 27-28, 2006, Argonne, IL.
- Center for Integrated Nanotechnologies (CINT), Los Alamos and Sandia National Laboratories: Chair of External Review Panel, 2003-2005.
- Review Panel, external reviewer for the Los Alamos National Laboratory Directed Research Development Project (LDRD) "Nanoscale Fluctuations", January 31, 2005, Los Alamos, NM.
- Review Panel, external reviewer for the Los Alamos National Laboratory Directed Research Development (LDRD) project "New States of Matter near T=0 Transitions", April 1-2, 2004, Los Alamos, NM.

- Review Panel: Dept. of Physics & Astronomy, Iowa State Univ., April 28-30, 2003, Ames, IA.
- Review Panel: National Science Foundation – Division of Materials Research (NSF-DMR) proposals, NSF, October 22, 2002, Arlington, VA.
- Review Panel: Canadian Institute for Advanced Research (CIFAR), May 1-4, 2002, Toronto, CA.
- Review panel: Ames Research Laboratory, November 16-17, 1998, Ames, IA.
- Review panel: National Science Foundation -- Small Business Initiative Research (NSF-SBIR) proposals, September 23, 1993, NSF, Arlington, VA.
- Review panel: Department of Energy, Initiative on Superconducting Materials, June 2-4, 1993, Washington, DC.
- Many Review Panels for the Nationals Science Foundation, Department of Energy, and other funding agents domestically and internationally, many years.

UNIVERSITY-WIDE SERVICE:

- VPR's University Faculty Recognition and External Award Workgroup
- Co-Chair Task Force to help Ukrainian Academics, 2022-pres; co-chair 2022-24.
- Committee to develop a new 5-year curriculum: Materials, Art, and Physics, Florida State University, 2016-2019.
- Robert O. Lawton Distinguished Professor Committee, Florida State University, 2017
- University of Illinois Awards and Honors Committee.
- University of Illinois Center for Advanced Study Evaluation and Strategic Planning Committee Report, co-chair with David Ceperley (Appointed by Vice Chancellor for Research) 2013 – 2014.
- University of Illinois Center for Advanced Study Policy Committee, 2001 – 2014.
- University of Illinois Subcommittee to review a new graduate course in the College of Engineering: "Scientific Writing," 2012.
- University of Illinois Advisor to the Chancellor and Provost Diversity and Cultural Understanding Faculty Council (DRIVE) as part of the University Enhancing Diversity, Guiding Excellence (EDGE) initiative to enhance and retain underrepresented groups in our faculty, appointed 2013.
- University of Illinois Committee working with the Washington Advisory Group (WAG) on Energy, 2009-11.
- University of Illinois Master of Ceremonies for the Closing/Award Ceremonies for the 2010 National Science Olympiad held at the University of Illinois at Urbana-Champaign. This involved audiences (middle school and high school) of nearly 5000 in attendance. May 22, 2010.
- University of Illinois Smart Grid / Smart Infrastructure / Transmission Lines Committee, 2009-11.
- University of Illinois University Senate Honorary Degrees Committee appointed 2004-2007.
- Master of Ceremonies for the Closing/Award Ceremonies for the 2005 National Science Olympiad held at the University of Illinois at Urbana-Champaign. This involved audiences (middle school and high school) of nearly 5000 in attendance, May 21, 2005.
- University of Illinois Faculty Banner Carrier, University Commencement (this is the same class I delivered the New Student Convocation lecture to, four years earlier), May 15, 2005.
- Oversight Committee for the Vice Chancellor of Research, University of Illinois at Urbana-Champaign, 2001-02.
- University of Illinois New Student Convocation Speaker (over 6000 Frosh), August 2001.

- Provost's Committee on Sexual Harassment Education, University of Illinois, 1999-01.
- University of Illinois Center for Advanced Study Bardeen Scholar Committee (to select and advise Bardeen student scholars), 2000-01.
- Center for Advanced Study Advisory Committee: Vignettes Book on Creativity and Excellence at the University of Illinois at Urbana-Champaign, 2001-02. The book has been published: *No Boundaries*, Lillian Hoddeson, ed. (University of Illinois Press, 2004).
- Steering Committee: "The Silicon, Carbon and Culture Initiative" University of Illinois campus-wide committee to seek out and support multidisciplinary initiatives, 2001-02.
- College of Liberal Arts and Sciences Mentor and member of the LAS "Teaching Academy" for mentoring young faculty members in LAS, University of Illinois at Urbana-Champaign, 2001-02.

COLLEGE AND DEPARTMENT SERVICE

- Chair, Diversity and Equity Committee, Department of Physics, FSU 2020-21, member 2020-2023.
- Chair, Science Council, National MagLab, 2015-pres.
- *Fields Magazine* Advisory Board, National MagLab Public Affairs Department, 2016-2019.
- Chair, "Student Mega-Award Committee" FSU Department of Physics, 2018 – 2021.
- Chair, "Awards and Recognition Committee" Department of Physics, 2018-pres.
- Wyatt-Green Chair in Physics Search Committee, Florida State University, 2016-2021.
- Chair, Search Committee for Pre-eminence Faculty Chair, National MagLab and Department of Physics, Florida State University, 2016-2020.
- Chair, Science Council, National MagLab, Florida State University, University of Florida, and Los Alamos National Laboratory 2015, - pres.
- Florida State University/NHMFL Search Committee for faculty hire in Condensed Matter Theory (2017-2018).
- MagLab Research Faculty Annual Reviews for the entire DC Facility and the Applied Superconductivity Center, 2015 – present.
- University of Illinois Physics Dept. Faculty Recognition Committee, as the Condensed Matter Experiment liaison member, 2014-15.
- Qualifying exam Committee, Department of Physics, University of Illinois at Urbana-Champaign, about once every two years.
- University of Illinois Colloquium Committee Chair, Fall 2011; co-chair, Spring 2012.
- University of Illinois Awards and Recognition Committee, College of Engineering, 2007-2011.
- University of Illinois Physics Senior Thesis Task Force, 2013-14.
- University of Illinois Faculty Recognition Committee, Physics Department, 2000-05.
- University of Illinois Physics Department Task Force on Diversity, 2007-08.
- University of Illinois Physics Department Course Development for a new Outreach Course (for non-scientists), 2009.
- Committee for the Conference celebrating the 50th Anniversary of the discovery of the Bardeen-Cooper-Schrieffer Theory of Superconductivity (BCS@50), University of Illinois at Urbana, Champaign, October 2007.

- Dean's Advisory Committee on Appointments, College of Engineering, University of Illinois at Urbana-Champaign, 2002-2006.
- University of Illinois College of Engineering Committee, Awards and Endowed Chairs, 2002-06.
- Theoretical biophysics faculty search committee, department of physics, University of Illinois at Urbana-Champaign (UIUC), 2003-2004.
- Condensed Matter Physics Seminar Chair, UIUC, 2004.
- Colloquium Chair, Department of Physics, UIUC, 1993-1994.
- Physics Advisory Committee, University of Illinois, 1999-2001.
- Search Committee, Director of the Science and Technology Center for Superconductivity, 1996.
- Search Committee for Department of Electrical and Computer Engineering Head, University of Illinois, 1994.

CHAIRED and ORGANIZED CONFERENCES (selected)

- Co-Chair, "Convergence Research at High Magnetic Fields" also in conjunction with a Festschrift for MagLab Director Greg Boebinger, with Eric Palm, Neil Sullivan, and Albert Migliori, January 9-10, 2020, Tallahassee, FL.
- Program Committee Chair and Organizer, Quantum Africa 4, May 30-June 5, 2017, Gammarth, Tunisia.
- Co-Chair (with Vladimir Dobrosavljević and Kevin Ingersent) "Materials Genome meets High Magnetic Fields" 5th National MagLab Theory Winter School, January 9-13, 2017, Tallahassee FL.
- Co-Chair of the 2016 Center for Emergent Superconductivity (CES-EFRC) Fall Workshop, November 14-16, 2016, Stony Brook, NY.
- Organizer and chair for the 2013 APS March Meeting "*Physics for Everyone*" DMP symposium, http://meetings.aps.org/Meeting/MAR13/Session/N3, March 20, 2013, Baltimore, MD.
- Co-organizer for the 2013 APS March and April Meetings "*Communicating Physics: Advice from the Experts*" FOEP Symposia, March 19, 2013, Baltimore, MD and April 15, 2013, Denver, CO. (http://meetings.aps.org/Meeting/MAR13/SessionIndex2/?SessionEventID=184461)
- Organizer and Chair for the special symposium of the 2016 March Meeting of the American Physical Society "*Materials Genome Initiative for Strongly Correlated Electron Systems: Design of New High Temperature Superconductors*" March 14-18, 2016, Baltimore, MD.
- Co-Chair for the Topic "Strongly Correlated Electron Systems (including superconductivity and multiferroics)" at the 2015 International Conference on Magnetism (ICM2015), July 5 – 10, 2015, Barcelona, Spain. http://www.icm2015.org/.
- Co-Chair of the 2014 Center for Emergent Superconductivity (CES-EFRC) Fall Workshop, November 9 – 12, 2014, Urbana, IL.
- Chair of SCES@60 / DP@90 Summit Symposia: SCES@60 = Strongly Correlated Electron Systems at 60 years old; DP@90 = David Pines at 90 years old, October 17-18, 2014, Urbana, IL.
- Program Chair for the Division of Materials Physics (DMP), March Meeting of the American Physical Society, March 2-7, 2014, Denver, CO; and co-chair of that 10,000-person meeting.
- Coordinator and Chair of the DMP Prize Winner Symposium, March Meeting of the American Physical Society, March 2-7, 2014, Denver, CO
- Coordinator of the DMP-sponsored focus topic sessions on Fe-based superconductors at the March Meeting of the American Physical Society, March 2-7, 2014, Denver, CO.
- Co-Organizer of "*Superconductivity at 300mK and Beyond*" a celebration of the 75th birthday of Rick Greene, November 23 – 24, 2013, University of Maryland, College Park, MD.

- Co-coordinator of the FOEP-sponsored session, "How to Engage the Public: Advice from the Pros" at the 2013 April Meeting of the American Physical Society, http://meetings.aps.org/Meeting/APR13/sessionindex2/?SessionEventID=194955.
- Coordinator of the DMP sponsored session, "Physics For Everyone" at the 2013 March Meeting of the American Physical Society, Baltimore, MD.
- Co-coordinator of the FOEP-sponsored session, "How to Engage the Public: Advice from the Pros" at the 2013 March Meeting of the American Physical Society, Baltimore, MD. http://meetings.aps.org/Meeting/MAR13/SessionIndex2/?SessionEventID=184461
- Coordinator of three DMP-sponsored focus topic sessions on Fe-based superconductors at the 2013 March Meeting of the American Physical Society, Baltimore, MD.
- Co-Chair (with: George Crabtree, ANL; and Peter Johnson, BNL) of the 10th International Conference on Materials and Mechanisms of Superconductivity (M2S 2012), 29 July – 3 August 2012, Washington, DC. http://www.m2s-2012.org/
- Co-Chair (with David Pines, U C Davis; Julien Bobroff, Orsay; Dudley Herschbach, Harvard; and Elizabeth Simmons, Michigan State), "Becoming Engaged: Initiatives That Can Change Science Education." ICAM/ Aspen Center for Physics July 22-25, 2012, Aspen, CO.
- Chair of the 2011 Center for Emergent Superconductivity (CES-EFRC) Fall Workshop, November 6-9, 2011, Urbana, IL. http://www.bnl.gov/cesworkshop/
- Co-Chair (with Yvan Bruynseraede) Division of Materials Physics Focus Topic" Search for New Superconductors" March Meeting American Physical Society, March 21-26, 2011, Dallas, TX.
- Co-Chair (with J. C. Seamus Davis and Peter Johnson of BNL) of the 2010 CES-EFRC Fall Workshop, November 10- 13, 2011, Stony Brook, NY.
- Co-Chair [with Catherine Pepin, Karyn Le Hur, and Anuradha Jagannathan; all women organizers]. *"I2CAM Workshop on Emergent Quantum Phenomena from the Nano to the Macro World"*, Cargese, FR. http://icamconferences.org/cargese09/, July 6-18, 2009.
- Co-Chair [with Rick Greene], *"ICAM Workshop on the Fe-Pnictide Superconductors"*, University of Maryland, College Park, MD, USA. November 15-16, 2008. This was the 1st International workshop on the Fe-based superconductors to take place in the USA. http://icam-i2cam.org/index.php/events/detail/fe-pnictide_and_related_superconductors/
- Co-Chair [with Setsuko Tajima], "Special Romp Session on the New Fe-Pnictide Superconductors", part of the International Conference on Low Temperature Physics (LT-25), http://physicsworld.com/blog/2008/08/lets_romp.html August 9, 2008.
- Co-Chair [with Charles Simon], "*Tenth Franco-American Workshop on Complex Oxides: Strongly Correlated Fermions, Functional Materials and Their Interplay*", a continuation of the collaboration between UIUC and the CNRS, Caen, FR, July 3-4, 2006.
- Chair, "*Ninth Franco-American Workshop on Complex Oxides: Strongly Correlated Fermions, Functional Materials and Their Interplay*", a continuation of the collaboration between UIUC and the CNRS, Urbana, IL, January 17-18, 2006.
- Co-Chair [with Nicole Bontemps, Ricardo Lobo and Pierre Monod] "*Eighth Franco-American Workshop on Complex Oxides: "Strongly Correlated Fermions, Functional Materials and Their Interplay*", a continuation of the collaboration between UIUC and the CNRS, ESPCI, Paris, FR, December 16-17, 2004.
- Chair, "*Seventh Franco-American Workshop on Complex Oxides: "Strongly Correlated Fermions, Functional Materials and Their Interplay*", a continuation of the collaboration between UIUC, Northwestern University and the CNRS, Urbana, IL, May 22-25, 2003.

- Co-Chair [with Mike Norman (Argonne) and Herb Mook (Oak Ridge)], American Physical Society, Division of Materials Physics Focused Topic Session*: "High-Temperature Superconducting Materials: Relations between Physical and Electronic Structure"*, at the 2002 March Meeting of the American Physical Society, Indianapolis, IN, March 17-22, 2002.
- Co-Chair [with Ralph Nuzzo (UIUC, Chemistry), George Whitesides (Harvard, Chemistry) and David Pines (UIUC and Los Alamos, Physics)], Institute for Complex and Adaptive Materials (ICAM) workshop on *"Designing Emergent Matter"*, Santa Fe, NM, January 8-12, 2001.
- Co-Chair, Gordon Research Conference on *"Correlated Electrons"*, June 26–30, 2000.
- Co-Chair [with Subir Sadchev], Gordon Research Conference, *"Correlated Electrons"*, New Hampshire, July 19-23, 1998.
- Co-Chair [with Tom Lemberger & Nigel Goldenfeld], "*Superconductivity with a Smile: A Symposium in Honor of the Wisdom & Wit of Donald M. Ginsberg"* April 18-19, 1997, Urbana, IL.
- Co-Chair, Gordon Research Conference on *"Correlated Electrons"*, July 21–25, 1996.
- Chair: *"Superconducting Materials Symposium"*, Fall Meeting of the Materials Research Society, Boston, MA, 1992.
- Advisory and/or Program committee for many international conferences.

TEACHING EXPERIENCE (selected):

2026	Physic 2049C: Electricity, Magnetism, and Optics: with Calculus
2024-25	Physics 1102: "Science Literacy: Mis vs. Dis -Information"
2024	14th Summer School on Condensed Matter Physics, Julich, Germany
2015-pres	Guest Lecturer for several courses at FSU.
2015	Spring school on Heavy Fermion and other strongly correlated electron systems, April 13-14, 2015, Zhejiang University, Hangzhou, China.
2013	International Summer School on Superconductivity – Theory, Experiments, and Phenomena (STEP – 2013), August 5 – 17, 2013, Cargèse, Corsica, FR.
2013	Physics 427: Thermodynamics and Statistical Mechanics.
2013	China/US Joint Winter School on Novel Superconductors, January 21- 23, 2013, Hong Kong.
2013	Summer School for Outstanding Students in Basic Sciences, July 15, 2013, Zhejiang University, Hangzhou, China.
2010-12	Physics 496 / 499: Introduction to Physics Research / Senior Thesis.
2009	Summer School on Novel Superconductors, International Center for Materials Research (ICMR), University of California at Santa Barbara and the Graduate School of Excellence in Materials Science, Mainz, Germany, August 2-15, 2009, Santa Barbara, CA
2009	Master Class for graduate students, Physics@FOM, Veldhoven, NL, January 18- 22, 2009.
2008-09	Physics 427: Thermodynamics and Statistical Mechanics.
1992-02	Physics 199B: Experimental Physics for Undergraduates.
2007	Physics 460: Condensed Matter Physics.
2002-10	Physics 140: How Things Work (for non-science majors; grew from ~60 to ~630 students).
2007	I2CAM/ FAPERJ Spring School on Emergent Matter, March 11-17, 2007, Rio de Janeiro, Brazil.
2004	Visiting Lecturer, CNRS, ORSAY, FR.

2001-02	Physics 150: Concepts of Modern Physics.
2000	NSF Summer School for Condensed Matter and Materials Physics, Bolder, CO.
1998-00	Physics 386 and 387: Quantum Mechanics (undergraduate).
1997-98	Physics 361: Thermodynamics and Statistical Mechanics (undergraduate).
1995	Midwest Superconductivity Consortium (MISCON) Summer School on Josephson Junctions for High-Temperature Superconductors, Columbia, MO.
1995-96	Physics 108: Introduction to Waves for physics and engineering majors.
1993-94	Physics 389: Solid State Physics (undergraduate).
1992-95	Physics 108: General physics (waves) for engineering and physics majors.
1989	NATO-Advanced Study Institute on Superconducting Materials *"Tunneling Spectroscopy"*, Bad Nauheim, Germany.
1977-79	Teaching assistant, Cornell University.
1973-76	Lecturer and teaching assistant, The Ohio State University.

RESEARCH ADVISING (Dates since 2015 are FSU, rest University of Illinois, unless otherwise noted)

Post-Doctoral Associates and Visiting Scientists:

2016-2019	Keshav Shrestha (now Asst. Prof. at West Texas University)
2015-2016	Prof. Narendra Jaggi, Illinois Wesleyan
2014	Steve Ziemak*, ICAM Fellow*.
2013-2014	Mauro Tortello, *Fulbright Scholar*, Istituto di Ingegneria e Fisica, Torino,
2012-2014	Jennifer Misuraca, JANIS, Woburn MA
2009-2010	Yize Li, Cal State
2006-2007	Heiko A. Stalzer, Heidelberg, GERMANY
2005-2006	Sivaperumal Uthayakumar, Max Plank, Stuttgart, GERMANY
2005-Su	Sangita Bose, TATA Institute, Mumbai, INDIA
2016-2023	Wan Kyu Park worked in my lab at the National MagLabv.
2002-2015	Wan Kyu Park, UIUC
2000-2001	Elisabeth Dumont, Luxembourg
1999-2001	Xiuling Li, University of Illinois at Urbana-Champaign
1998-2001	Hervé Aubin, CNRS-ESPCI, Paris, FRANCE
1995-1997	Marco Aprili, CNRS, Paris, FRANCE
1992-1994	Nir Haas, Rafael Government Lab, Haifa, ISRAEL
1990-1992	Jerome Lesueur, CNRS and ESPCI, Paris, FRANCE
1989-1990	Monique Giroud, CNRS, Grenoble, FRANCE

Ph.D.'s Granted:

2026	Irfan Mohammad, PhD expected 2026
	Received the FSU 2025 Li Wang Award for Physics Research
	Received the FSU 2024 David L Wilder Award in Physics
2021	Shengzhi Zhang, 2021 (Los Alamos now at FSU MagLab)
	Received the FSU 2020 Li Wang Award for Physics Research
2016	Han Zhao (AI Lab, OCBC Bank, Singapore)
2015	Cassandra Renee Hunt (RationalAI, Berkeley, CA)
2014	Hamood Zafir Arham (Intel, Hillsboro, OR)
2009	Xin Lu (Zhejiang University, Hangzhou, China)
2004	Patrick Hentges (Intel, Hillsboro, OR)
2004	Glenn Westwood (Avantor Performance Materials, Inc., Phillipsburg, NJ)
2001	Elvira Stanescu (nee Paraoanu, Badica), U. VA
2000	Margaret M. Pafford, (Rohm and Hass, Philadelphia, PA)
1999	Igor V. Roshchin, (College Station, TX)
1999	Adam C. Abeyta, (Naval Research Laboratory, San Diego, CA
1999	Troy A. Tanzer, (Advanced Micro Devices, Austin TX)
1997	Mark W. Covington (General Atomics, San Diego, CA)
1996	Jeffrey F. Dorsten (Shell Oil, Houston, TX)

Other Graduate Students

2021-2022	Arijit Gupta (FSU physics grad)
	Best Poster Award APS-SES conference, 2021
2017-2018	Shu Liu
2014-2015	Cesar O. Ascencio (University of Minnesota)
2013-2014	Charles Steiner

2013	Progna Banerjee
1997-2001	Diane E. Pugel (NASA Goddard)
1994-1995	Kristana Bloom

Undergraduate and Exchange Students:

2024-pres	Nolan Scales (FSU Undergrad): Senior Thesis 2026
	Undergrad Poster Award 2026
	REU Student 2026
2023-25	Nam Mashraqi (FSU Undergrad and 2025 REU Student)
	Undergraduate poster awards 2024 and 2025
2021-pres	Robert Huber (FSU Undergrad): Senior Thesis expected 2026
2021-20	Yanni Giannareas (FSU Undergrad)
2020-21	Jason Parness (FSU Undergrad)
2019-21	Ankit Patel (FSU Undergrad)
2018-21	John Wise (FSU Undergrad)
2018-20	Jennifer Sittler (FSU undergrad)
2016-18	Tanvi Haldiya (Tallahassee High-School Intern)
2015-16	Brian Korn (UIUC Independent Study Student)
2015-Su	Emily Herman (REU Student from St. Norbert College, WI)
2014-16	Omar Mehio (Independent Study Student)
	A.C. Anderson Award for Undergraduate Research, 2016.
2014-16	Alex Noddings (Independent Study Student)
2014-16	Prathum Saraf (Independent Study Student)
2014-15	Miller Wesselhoff (Independent Study Student)
2014-15	Zhenyu Dai (Independent Study Student)
2014-16	Julia Zuo (Independent Study Student)
2014-15	Ashley Hemmingway (Independent Study Student)
2014-Su	Amanda Landcastle (REU from The College at Brockport, NY)
2013-16	Konrad Genser (Independent Study Student)
2013-15	Michael Worek (Independent Study Student)
2014-Su	Andrew Boomer (Independent Study from University of Oregon)
2013-14	Cody Jones (Independent Study Student)
2013-15	Margaret McCarter (REU from Illinois Wesleyan, then independent study)
	Goldwater Scholarship, 2014
2013-15	Ryan Tapping (Independent Study Student)
2013-14	Lunan Sun (Independent Study Student)
2012-15	Matthew Dwyer (Independent Study Student)
2012-13	Martin Liu (independent study student)
2012-15	Sanjay Narasiwodeyar (independent study student)
	Robert A. Stein Award, 2013
2012-Su	James Hanson (REU from Missouri State)
2011-14	Rebecca Glaudell (independent study student)

-Laura B. Eisenstein Award, 2014
-Ernest M. Lyman Prize, 2013
-Thomas A. Prickett Engineering Award, 2013
-Commonwealth Edison/Beryl Bristow Endowed Award, 2011-12

2011-12 Jennifer Dijohn (Illinois Scholar Undergraduate Researcher, ISUR)
-Commonwealth Edison/Beryl Bristow Endowed Award, 2012

2011-12 Ikoro Ikoro (independent study student)

2011-12 Cheng Wan (independent study and senior thesis student)

2011-Su Sachiko Graber (REU from Grinnell)

2011-Su Song Zhang (exchange student from Singapore)

2011-13 Kevin Coughlin (independent study and senior thesis student)

2011-13 Yunjo Lee (independent study and Senior Thesis student)

2010-11 Christopher Fu Lamb (independent study student)

2010-11 Manish Shankla (independent study student)

2010 Chase Boren (independent study student)

2010-13 Rob Looby (independent study and senior Thesis Student)

2010-Su Ryan Goetz (REU from Illinois Wesleyan)

2010-Su Anthony O'Donovan-Zavada (REU from Coe College)

2010-Su Jay Sheth (summer intern from Banaras Hindu University, India)

2009-10 Jose Antonio Garmilla Alonso (exchange student from Mexico)

2009-10 Jeremy Tartar (independent study student)

2009&10 Su Anuj Tejpal (summer intern from Banaras Hindu University, India)

2009 Michelle (Brittany) Payne (Independent Study Student)

2009 Su Adam N. Chambers (REU-Student 09)

2009 Su Rasheedat S. Yahaya (REU-Student 09)

2009-10 Adam Saied Ahmed (Senior Thesis Student)

2009-10 Yildiz Kabran (independent Study Student)

2008-09 Alex Albanese (independent Study Student)

2008-09 Loc Phuc Nguyen (Independent Study Student)

2008-09 Anne M. Glaudell (Senior Thesis Student), received:
2009 Laura B. Eisenstein Award for exceptional women physics students

2008-09 Jonathan E. Pautler (Senior Thesis Student)

2008 Sam Johnson (Sophomore Independent Study Student)

2008-09 Richard Jones (Senior thesis student)

2008-09 Akshay Anant Ghalsasi (Independent Study Student, started as Freshman)

2008-09 Zhen Wah Tan (independent study and senior thesis student), received:
The Robert E. Hetrick Outstanding Senior Thesis Award for 2009
Ernst M. Lyman Prize for the outstanding senior in physics, 2009
Bronze Tablet, for sustained academic achievement, 2009
Richard K. Cook Scholarchip, 2008

2008 Su Alison Pawlicki (REU-08 student from Florida State), received:
Lannutti Award for Undergraduate Research at FSU
Lynn Shannon Proctor Award Achievement in Physics
inducted into Sigma Pi Sigma National Physics Honor Society

2007-8	Jason Didier, John Docauer, Jason Jones, Jonathan Naber, Joseph Newcomb, Suzanne Sullivan, and Ryan Trumbo for an **Engineering Open House Project**:,
2008-09	Yi-Hsuan Lin (Independent Study Student)
2007-08	Ryan Murphy (Independent Study Student)
2007 Su	Daisy Hassani (High School Student)
2007 Su	Gregory Rosen (REU-07 Student from Ohio University)
2006-2008	Jiongyi Tan (Independent Study Student and Senior Thesis Student)
2006-2008	Veronica Jacome (Independent Study student)
2006-2008	Julien Ansermet (Independent Study and Senior Thesis Student)
	Shell Foundation Scholar, 2007
2005 Su	Kane Baker (REU-05 Student)
2005 Su	Jeremy McMinis (REU-05 Student)
2005-2006	Andy O'Brien (REU-05 and Senior Thesis Student)
2004-2005	Caitlin Jo Ramsey (Independent study and REU-05 Student)
2004-2005	Jorge Elizondo (Exchange Student from Mexico)
2003-2005	Karen Parkinson (Independent Study, Senior Thesis and REU-04 Student)
2004 Su	Erika Smith (REU-04 Student)
2003-2004	Florian Wilken (Exchange Student from Heidelberg)
2004 Su	Alex Thaler (REU-04 Student)
2003-04	Chris Lesher (REU-04, Student Senior Thesis):
	Senior Thesis Award 2004
2002 Su	Erin De Pree (REU-03 Student)
2000-2006	Justin Elenewski (High School, through Senior Thesis Student)
2000 Su	Ryan Carmichael, (Summer High-School Student)
1999-2000	Hartmut Gimple (Exchange Student from Heidelberg)
1997-1998	Markus Dittrich (Exchange Student from Regensburg)
1997-1998	William Murphy (Visiting Student from Illinois Wesleyan)
1997-1998	Donna M. Maier (Independent Study, Chemistry, UIUC)
1997-1998	Katherine Krajnak (Independent Study)
1996-1997	Bernhard Niedermeyer (Exchange Student from Regensburg)
1995-1996	Gregor Kuchler (Exchange Student from Regensburg)
1994-1995	Roland Scheuerer (Exchange Student from Regensburg)
1994-1995	Kristana Bloom (Independent Study)
1993-1994	Johannes Beer (Exchange Student from Regensburg)

Technical Laboratory Assistants:

2009-10	Richard Telly Jones
1983-03	William L. Feldmann

FUNDED and PENDING PROPOSALS (1992-present):

- "AccelNet Implementation for Quantum Materials" National Science Foundation" PI: Rajiv Singh; coPIs; Johnpierre Paglione, Vidya Madhavan, Laura Greene, and Piers Coleman, University of California-Davis, 07/01/2022 - 06/30/2026, $2,000,000.
- *"National High Magnetic Field Laboratory Renewal 2023-2028"* National Science Foundation, ~$200M as "Key Personnel" (in preparation).
- "Electron tunneling spectroscopy of the novel pairing state in the 1-1-5 heavy fermions and possible topological Kondo insulator YbB_{12}" National Science Foundation, 2020-25, $485,436
- "Convergence Research in High Magnetic Fields" Scientific Workshop, January 10, 2020, National Science Foundation, $10,000.
- "Convergence Research in High Magnetic Fields and Festschrift for Greg Boebinger" January 9-10, 2020, Tallahassee, FL, ICAM-I2CAM $10,000.
- *"Theory Winter School 2019"* January 7-11, 2019, Tallahassee, FL., NSF, $5,000.
- *"National High Magnetic Field Laboratory Renewal 2018-2022"* National Science Foundation $254,461,367, 01/01/2018 – 12/31/2022.
- *"Theory Winter School 2017: Materials Genome Meets High Magnetic Fields",* (January 9-13, 2017, Tallahassee, FL.), DoE*, $5,000.*
- *"Theory Winter School 2017: Materials Genome Meets High Magnetic Fields",* (January 9-13, 2017, Tallahassee, FL.), NSF, $5,000.
- Creativity Extension for *"Quasiparticle Scattering and Tunneling Spectroscopic Studies on Kondo Lattices, Topological Insulators and Superconductors"*, Wan Kyu Park, PI, National Science Foundation, Division of Materials Research, October 2015, two years, $140k/year.
- "*Center for Emergent Superconductivity"* Energy Frontier Research Center: Brookhaven National Laboratory (lead), Argonne National Laboratory, University of Illinois, Florida State University. Basic Energy Sciences, Department of Energy, 08/15/14 – 08/14/18, Associate Director $20M.
- "*Center for Emergent Superconductivity"* Energy Frontier Research Center: Brookhaven National Laboratory (lead), Argonne National Laboratory, University of Illinois. Basic Energy Sciences, Department of Energy, 08/15/12 – 08/14/15, Associate Director and PI for the University of Illinois Branch. $25M.
- *"Quasiparticle Scattering and Tunneling Spectroscopic Studies on Kondo Lattices, Topological Insulators and Superconductors"*, co-PI Wan Kyu Park, National Science Foundation, Division of Materials Research, October 2012-2015, $355,035.
- "*REU Site: Opportunities in Physics Research at Illinois."* Co-PIs Kevin Pitts, Toni Pitts, and Dale Van Harlingen, National Science Foundation 3/2/11 – 3/2/14, $307,599.
- *"Quasiparticle Scattering and Tunneling Spectroscopic Studies on Kondo Lattices, Topological Insulators and Superconductors"*, co-PI Wan Kyu Park, National Science Foundation, Division of Materials Research, October 2012, $355,035 for three years.
- "Advanced Materials: Rapid Materials Discovery," James N. Eckstein (PI), Laura H. Greene (co-PI), Daniel P. Shoemaker (co-PI), Jian-Min Zuo (co-PI), University of Illinois Advanced Research Initiatives (ARI), $50,000, June 1 – December 31, 2014

- *"SCES@60: Where are we now?*" Proposal to the Gordon and Betty Moore Foundation to support a symposium on the 60th anniversary of the identification of strongly correlated electron systems, October 18, 2014, Urbana, IL, $15,000.
- *"Point Contact Spectroscopy in Half-Heusler Compounds," "*co-PI Johnpierre Paglione, University of Maryland, ICAM travel award to support the visit of UMD graduate student Steve Ziemak to my laboratory for the summer of 2014.
- "*Innovative avenues towards developing new families of high temperature superconducting materials, and measurements of their electronic structure*", co-PI Meigan Aronson, Brookhaven National Laboratory and Stony Brook. Institute for Complex and Adaptive Matter (ICAM), 8/14/2012 – 8/15/2014, $22,000 / yr for two years.
- "*Center for Emergent Superconductivity"* Energy Frontier Research Center: Brookhaven National Laboratory (lead), Argonne National Laboratory, and The University of Illinois. Basic Energy Sciences, Department of Energy, for $23M over 5 years with Illinois receiving ~$1.26 M/yr. . I am an Associate Director of the Center and Direct the UIUC branch. 8/14/2009-8/13/2014
- "Becoming Engaged: Initiatives That Can Change Science Education." An ICAM/Aspen Center for Physics 50th Anniversary Workshop, (22-25 July, 2012, Aspen, CO) Co-PIs: David Pines, U C Davis; Julien Bobroff, Orsay; Dudley Herschbachm Harvard; & Elizabeth Simmons, Michigan State), ICAM, $30,000.
- *"The Xth International Conference on the Materials and Mechanisms of Superconductivity (M2S 2012)"*, (July 29 – August 3, 2012, Washington, DC.), co-PIs George Crabtree and Peter Johnson, Air Force Office of Scientific Research (AFOSR), $15,000.
- *"The Xth International Conference on the Materials and Mechanisms of Superconductivity (M2S 2012)",* (July 29 – August 3, 2012, Washington, DC.), co-PIs George Crabtree & Peter Johnson, IUPAP, €15,000.
- *"The Xth International Conference on the Materials and Mechanisms of Superconductivity (M2S 2012)",* (July 29 – August 3, 2012, Washington, DC.), co-PIs George Crabtree and Peter Johnson, Department of Energy – Basic Energy Sciences, $50,000.
- *"The Xth International Conference on the Materials and Mechanisms of Superconductivity (M2S 2012)"*, (July 29 – August 3, 2012, Washington, DC.), co-PIs George Crabtree and Peter Johnson, Institute for Complex and Adaptive Matter (ICAM), $25,000.
- *"Quantum Materials at the Nanoscale: Studies of the Andreev conversion processes between conventional and unconventional Superconductors and normal metals"*, Cluster Proposal (11 members) to the Department of Energy-Basic Energy Sciences (DoE-BES), my part was ~$150,000/year, 7/01/07 - 6/30/10.
- *"Studies of the Andreev conversion process at interfaces between conventional and unconventional superconductors and normal metals"*, National Science Foundation – Division of Materials Research (NSF-DMR), $360.000 over three years. 6/1/2007 – 5/31/2010
- "ICAM Workshop on Fe-Pnictide and Related Superconductors" (November 16-17, 2008), Basic Energy Sciences, Department of Energy, $5,000. 10/01/2008 – 03/31/2009
- "ICAM Workshop on Fe-Pnictide and Related Superconductors" (November 16-17, 2008), National Science Foundation, $5,000. 10/01/2008 – 03/31/2009
- "ICAM Workshop on Fe-Pnictide and Related Superconductors" (November 16-17, 2008), AFSOR, $10,000. 10/01/2008 – 03/31/2009

- "ICAM Workshop on Fe-Pnictide and Related Superconductors" (November 16-17, 2008), International Institute for Complex and Adaptive Materials (I2CAM), $40,000. 10/01/2008 – 03/31/2009
- "ICAM Workshop on Fe-Pnictide and Related Superconductors" (November 15-16, 2008), Department of Energy through the Frederick Seitz Materials Research Laboratory (FSMRL), $1,000. 10/01/2008 – 03/31/2009
- *"Andreev Reflection Spectroscopy of Novel Superconducting Materials"*, University of Illinois Campus Research Board, $12,500. 10/31/2006 – 07/31/2007
- *"Particle Conversion in Unconventional Superconductors: Andreev Reflection at the Heavy-Fermion Superconductor / Normal Metal Interface*", University of Illinois Center for Advanced Study, (no funds: requesting Fa-06 teaching release), granted for 2006-2007
- *"Functional and Nanoscale Materials Systems: Frontier Programs of Science at the Frederick Seitz Materials Research Laboratory",* Department of Energy through the Frederick Seitz Materials Research Laboratory $165,128. 1/01/2006 – 12/31/2006
- *"*β*-NMR Search for Spontaneous Magnetism near the Surface of Unconventional Superconductors"* G.D. Morris, Z. Salman, W.A. MacFarlane, R.F. Kiefl, K.H. Chow, R.H. Heffner, L.H. Greene, G.M. Luke, Y. Maeno and J.H. Brewer, (TRIUMF, Canada).
- *"Strongly Correlated Electron Systems: Studies of Functional Oxides, Complex Superconductors, Novel Magnetic Materials and their interplay",* Laura H. Greene, University of Illinois at Urbana-Champaign and Professor Nicole Bontemps, Laboratoire de Physique du Solide, ESPCI, CNRS, Paris, FR. This supports travel for 5 researchers between UIUC and FR for four years and 4 years of per-diems (University of Illinois International Programs, ~$100,000), 2002-2006
- *"Cantilever Andreev Tunneling (CAT): A New Method for Planar Tunneling and Point Contact Spectroscopy of Unconventional Superconductors"* (Department of Energy, 1 year, $100,000). August 2004-2005
- *"Fragility of the d-wave Order Parameter at Interfaces and Defects in High-Temperature Superconductors",* National Science Foundation, Focused Research Group (FRG) in Collaboration with J. N. Eckstein, M. B. Salamon, D. J. van Harlingen, J. A. Sauls (Northwestern) and A. Yazdani. Awarded for three years ($427,892 to UIUC). 1/1/2000-12/31/2002
- *"Verification of the Broken Time Reversal Symmetry in Superconducting YBCO",* Proposal to the Intense Polarized Neutron Source (IPNS), POSY neutron spectrometer for experiments of Grazing-Incidence Polarized Neutron Scattering at Argonne National Laboratories. 2001
- *"Proposal for Low-Energy Muon Rotation Studies of Broken Time Reversal Symmetry in High-Temperature Superconductors*" to the Paul Scherrer Institute, Vilagen Switzerland. 2001.
- *"Spin Transport across Superconducting Interfaces",* Office of Naval Research Augmentation Award for Science and Engineering Research Training (AASERT) ($184,500 for three years). 1998-2001
- *"Low-temperature Studies of Broken Time-Reversal Symmetry in High-Temperature and Unconventional Superconductors"*, University of Illinois Campus Research Board. ($25,000). 5/2000 – 11/2000
- *"Proximity-Effects, Tunneling, Novel Film Growth and Applications in High-T_c Cuprates",* by the National Science Foundation through the Science and Technology Center for Superconductivity, (~$115,000/year). 1/9/1993 – 1/31/1999
- *"Charge Transport Across Superconductor-Semiconductor and Superconductor-Metal Interfaces",* Department of Energy Basic Energy Sciences New Initiative Grant. Group funded: Greene (physics

experiment), van Harlingen (physics experiment) Goldbart (physics theory), Bohn (Chemistry) and Klem (EE/MatSci - Sandia) ($250,000 for FY96 and $500,000 per year through FY98). 1996-1998

- *"Proximity Effects and Tunneling $YBa_2Cu_3O_7$ films as a function of Crystallographic Orientation",* National Science Foundation, ($70,000 per year for three years). 6/15/1995-6/14/1998
- *"Spin Injection and Detection at a Ferromagnet - High-Temperature Superconductor Interface",* Office of Naval Research, ($25,000/year for three years). 6/15/95-3/14/1998
- *"Charge Transport Across Superconductor-Semiconductor and Superconductor-Metal Interfaces", University* of Illinois – Center for Advanced Study. ($500 and release from one semester of teaching). 1996-1997
- *"Proximity-Effects in Superconductor-Semiconductor Structures"* NSF through the Materials Research Science and Engineering Center, Materials Research Laboratory at the University of Illinois (~$40,000/year). 1/1/1993 - 12/31/1996
- *"Plasma Diagnostic Analysis of the Planar Magnetron Sputter Deposition Process* in collaboration with Joseph A. Johnson, III, Florida A&M University. Inter-institutional Collaborations grant, University of Illinois, ($1,500). 11/16/1994
- *"Plasma Diagnostic Analysis of the Planar Magnetron Sputter Deposition Process"*, in collaboration with R. W. Giannetta of the University of Illinois at Urbana-Champaign and Joseph A. Johnson, III, Florida A&M University, Inter-institutional Collaborations Grant, University of Illinois, ($2,000). 11/17/1993
- *"Proximity-Effects in Superconductor-semiconductor Structures"*, University of Illinois Campus Research Board Beckman Award. ($29,000). 11/4/1993 - 5/31/1993

INVITED TALKS (over 700, in reverse chronological order):

1. July 2026
   "Planar Tunnel Spectroscopy of $CeCoIn_5$: Investigation of local-moment pairing" Materials and Mechanisms of Superconductivity / High-Temperature Superconductivity (M2S-HTSC 2026), July 19-24,2026, Stuttgart, Germany
2. June 2026
   "The Unconventional Superconductor $CeCoIn_5$: Pre-formed Pairs, Pseudogap, and Cooper Pairing *via* Kondo Scattering" Plenary at "Superstripes 2026: Quantum Complex Matter" 15-19 June 2026, Rome, IT.
3. April 29, 2026
   "Unconventional Superconductivity: The Dark Energy of Superconducting Materials" General Physics Colloquium, University of South Florida (USF), Tampa, FL.
4. March 17, 2026
   "Unconventional Superconductivity and Science Diplomacy" for Lunch with the Experts, the APS Global Physics Summit (GPS), March 16-20, 2026, Denver, CO.
5. February, 2026
   "Pushing the Frontiers of Magnetic Imaging and Spectroscopy" Symposium Originator and Panel Chair, 2026 AAAS Annual Meeting, February 12-14, 2026, Phoenix, AZ.
6. February 2, 2026
   "Local Moment Pairing in the Heavy Fermion Superconductor $CeCoIn_5$"
   International Workshop on "Frontiers in Unconventional Superconductivity" February 2-4, 2026, eQMA, Rice University. Houston, Texas (Virtual).
7. November 18, 2025
   "Unconventional Superconductivity: The Dark Energy of Superconducting Materials"
   Colloquium, Department of Physics, Georgetown University, Washington, DC.
8. November 8, 2025
   Amplifying Florida's Voice: Learn What the National Academies and How You Can Get Involved"
   Annual meeting of the Academy of Science, Engineering and Medicine, November 6-8m 2025, Orlando, FL.
9. October 9, 2025
   "Exotic Superconductors: Dark Energy of Quantum Materials"
   Marie Curie Public Lecture, University of North Carolina, Chapel Hill, NC
10. October 6, 2025
    "Local Moment Pairing in the Heavy Fermion Superconductor $CeCoIn_5$"
    International Workshop on "Hidden Orders and Quantum Entanglement" October 6-8, 2025, Rice University. Houston, Texas.
11. October 9, 2025
    "Exotic Superconductivity: The Dark Energy of Quantum Materials" Marie Curie Public Lecture, University of North Carolina, Chappel Hill, NC.
12. September 28, 2025
    "Exotic Superconductivity: The Dark Energy of Quantum Materials" Public Lecture, Michigan State University, virtual. https://www.youtube.com/watch?v=X3Dc6sk3FPU
13. September 9, 2025
    "Planar Tunnel Spectroscopy of CeCoIn5: Investigation of local-moment pairing" 13th

International Conference on Magnetic and Superconducting Materials (MSM25) Yerevan, Armenia.

14. August 7, 2025
"Planar Tunnel Spectroscopy of CeCoIn5: Investigation of local-moment pairing" 30th International Conference on Low Temperature Physics (LT-30), 07-13 Aug 2025 Bilbao, Spain
15. April 7, 2025
"The Dark Energy of Quantum Materials" Colloquium, Department of Physics, University of North Carolina, Chappel Hill, NC.
16. April 4, 2025
"The National MagLab and Unsolved Mysteries in Superconductors" University of North Florida Materials Institute Symposium, Jacksonville, FL
17. March 27, 2025
"Adventures in PCAST and The Dark Energy of Quantum Materials" Colloquium, Department of Physics, University of Georgia, Athens, GA
18. March 18, 2025
"Critical Issues in the Physics Pipeline" Panel Chair with Beth Cunningham (AAPT CEO) Michael Marder (UTeach, UT-Austin), and Gabe Spalding (AAPT President), Global Physics Summit, 16-21 March 2025, Anaheim, CA.
19. March 13, 2025
"Improving Groundwater Security in the United States: Groundwater/Aquifers PCAST Report – Threats and Solutions" Webinar in preparation for DC Climate Week, April 28-May 2, 2025, Washington DC.
20. February 14, 2025
"Supercharging Science: PCAST Report on AI" APS Panel on Public Affairs (POPA) (Virtual).
21. January 25, 2025
"Many Paths: Exploring World of Quantum Materials"
Plenary at the Conference for Undergraduate Women in Physics
22. January 17, 2025
"Planar Tunneling into Kondo Lattices: Insulators and Superconductors (and a little policy)" at the ICAM Week of Science, 13-17 Jan 2025, Wellington, New Zealand
23. October 14, 2024
"Unconventional Superconductivity overview and Planar Tunneling into Kondo Lattices" at the Binational (Germany-Brazil) Wilhelm and Else Heraeus (WHE) Conference on Superconductivity and Superfluidity: From Condensed Matter to Ultracold Quantum Gases, October 14-18, 2024, Natal, Brazil.
24. October 11, 2024
"Women in Science Leadership Roundtable" FSU Discovery Days, Tallahassee, FL
25. October 9, 2024
"Finding your Vision: Strategies for Success" FSU Discovery Days, Tallahassee, FL
https://www.research.fsu.edu/research-offices/ord/events/2024-discovery-days-funding-your-vision/
26. September 1, 2024
"PCAST Report: Supercharging Research: Harnessing Artificial Intelligence (AI) to Meet Global

Challenges" MagX: National MagLab general colloquium.
https://public.magnet.fsu.edu/MagX/MagX_2024_10.mp4

27. September 16, 2024
"Unconventional Superconductivity: Overview and Planar Tunneling into a Kondo Lattice" 14th Autumn School on Correlated Electrons, September 16-20, 2024, Julich, Germany
28. July 30, 2024
"PCAST Report: Supercharging Research: Harnessing Artificial Intelligence (AI) to Meet Global Challenges" NSF MGI (National Science Foundation – Materials Genome Initiative) Meeting, July 30-31, Washington DC
29. July 15, 2024
"PCAST Report: Supercharging Research: Harnessing Artificial Intelligence (AI) to Meet Global Challenges" CST-PCAST meeting on AI (virtual).
30. July 12, 2024
"Introduction to PCASTs work on AI" AAAS Fellows Forum on AI, Washington, DC
31. June 7, 2024
"IUPAP and AI for the next General Assembly?" Meeting of the US Liaison Committee of the International Union of Pure and Applied Physics, Washington, DC.
32. May 15, 2024
"Report on Recommendations for Supercharging Research: Harnessing Artificial Intelligence to Meet Global Challenges" Meeting of the National Science and Technology Council, Subcommittee on Machine Learning and Artificial Intelligence.
33. May 13, 2024
"Report on Recommendations for Supercharging Research: Harnessing Artificial Intelligence to Meet Global Challenges" Meeting for the Committee on Science, Technology and Law (CSTL), National Academy of Sciences, Washington DC
34. May 13, 2024
"Report on Recommendations for Supercharging Research: Harnessing Artificial Intelligence to Meet Global Challenges" **Keynote** at AI for Scientific Discovery: Workshop Proceedings Release, National Academy of Sciences, Washington DC
35. May 9, 2024
"Open Science by Design: Pathological Science vs Fraud" Workshop on Reproducibility in Condensed Matter Physics, May 8-11, 2024, University of Pittsburgh, Pittsburgh, PA
36. April 23, 2024
"Report on Recommendations for Supercharging Research: Harnessing Artificial Intelligence to Meet Global Challenges" with Co-Chair with Terrence Tao. Virtual PCAST Public Meeting. Presentation: Terence Tao and Laura Greene.
37. April 20, 2024
"Novel Electron Pairing in the Unconventional Superconductor CeCuIn5" NanoFlorida Annual Conference, April 19-21, 2024, Florida State University, Tallahassee, FL.
38. April 11, 2024
"The Changing Landscape of Science Diplomacy" Colloquium University of California at San Diego, San Diego, CA

39. April 10, 2024
"Outreach and Reach Out in Quantum Materials" Student Seminar, University of California at San Diego, San Diego, CA
40. March 2, 2024
"Report on PCAST and IUPAP" Divisions of Materials and Condensed Matter Physics Meeting, March Meeting of the American Physical Society, March 2 – 8, 2024
41. January 23, 2024
"Many Paths Lead to Physics: Physics Opens Many Paths" **Keynote** at the Future Physicists of Florida Award Ceremony, Florida State University, Panama City.
42. January 20, 2024 "Outreach and Reach Out in Quantum Materials" **Plenary**, Conference for Undergraduate Women in Physics, January 19-22, University of Michigan, Ann Arbor, MI.
43. January 13, 2024
Comments at Laura Greene Festschrift "Time Reversal Symmetry Breaking" January 12-13, Florida State University, Tallahassee, FL
https://nationalmaglab.org/news-events/events/for-scientists/laura-greene-festschrift/
44. January 7, 2024
"Education Beyond the Classroom: Broadening Physics Participation" **Oersted Medal Plenary Lecture**, American Association of Physics Teachers Annual Meeting, January 6-8, 2024, New Orleans, LA.
45. December 5 2023
"Implications of AI, QI, and Machine Learning for Emergent Physics" Annual ICAM & AccelNet Meeting, December 3-9, 2023, Santa Barbara, CA.
46. October 31, 2023
"From Kondo Physics to Physics Diplomacy: Myriam's Inspiring Leadership" Conference for the Celebration of the life of Myriam Sarachik, City College of New York, New York, NY.
47. September 28, 2023
Negotiation Skills Workshop, Departments of Chemistry and Physics, University of Tennessee, Knoxville, TN.
48. September 28, 2023
Seminar, Department of Chemistry, University of Tennessee, Knoxville
49. Sept 27, 2023
"AI for Predictive Discovery of Functional Materials" to President Biden at a PCAST meeting, San Francisco, CA.
50. September 21, 2023
Colloquium, Department of Physics, Kent State University, Kent, OH.
51. 20 Sep 2023
"The National MagLab for our Energy Future and Novel Methods for Predictive Design of Functional Materials" Energy Breakthrough Workshop, Dallas, TX.
52. May 8, 2023
Nevil Mott Lecture, Loughborough University, UK
53. April 13, 2023
Seminar, Department of Physics, University of Michigan, Ann Arbor, MI. In conjunction with the Dedication of the Homer Neal building on the campus.

54. April 10, 2023
Colloquium, Department of Physics, Temple University, Philadelphia, PA
55. March 25, 2023
56. "Superconductivity: Resistance is Futile" for the Flying Circus of Physics, Florida State University, Tallahassee, FL.
57. March 8, 2023
"Large International Facilities and their Role in Science Diplomacy" in the session "Large-scale Scientific Facilities and Diplomacy" at the 2023 March Meeting of the American Physical Society, March 5-10, 2023, Los Vegas, NV
58. March 7, 2023
"Science Advising and Diplomacy" in the session "IUPAP@100: International Science in Changing Societal and Geopolitical Landscapes" at the 2023 March Meeting of the American Physical Society, March 5-10, 2023, Los Vegas, NV.
59. November 22, 2022
"Science Diplomacy and IUPAP" webinar for APS Forum on International Physics (FIP) "Physics Matters" Panel on IUPAP@100.
60. November 15, 2022
Panel Moderator: *"Researcher Experiences of Wrongful Prosecution in the U.S.: The Impact on Human Rights and the Scientific Enterprise"* National Academy of Sciences, Committee on Human Rights panel with Dr. Gang Chen and Dr. Xiaoxing Xi.
61. November 11, 2022
"Correlated Materials – Many questions, many scopes" **Plenary Speaker**, Women of the World in Physics (WOW Physics), November 9-11, 2022, Goethe University, Frankfurt, Germany, virtual.
62. November 10, 2022
Career Paths Round Table at Women of the World in Physics (WOW Physics), November 9-11, 2022, Goethe University, Frankfurt, Germany, virtual.
63. November 5, 2022
"The National MagLab: A Powerhouse of Innovation" **Plenary Speaker**, Annual Meeting, Florida Academy of Engineering, Engineering and Medicine (ASEMFL), November 4-6, Orlando, FL.
64. November 2, 2022
"Advising on Science Policy and Science Diplomacy" in the session "Making a Difference in Magnetism" at the 67th Annual Conference on Magnetism and Magnetic Materials (MMM 2022) October 31-November 4, 2022, Minneapolis, MN.
65. November 1, 2022
"Women in Magnetism" Panel at the 67th Annual Conference on Magnetism and Magnetic Materials (MMM 2022) October 31-November 4, 2022, Minneapolis, MN
66. October 18, 2022
"Superconducting proximity effect in YB_6/SmB_6 bilayer thin films" International Conference on Quantum Materials and Technologies (ICQMT 2022), October 16-22, 2022, Bodrum, Turkey
67. October 17, 2022
"The Dark Energy of Quantum Materials: A Multidimensional Playground in Superconductivity" **Plenary Speaker**, International Conference on Quantum Materials and Technologies (ICQMT 2022), October 16-22, Bodrum, Turkey.

68. October 16, 2022
"Negotiation in Quantum Science and Dissemination" School preceding the International Conference on Quantum Materials and Technologies (ICQMT 2022), October 16-22, Bodrum, Turkey
69. September 12, 2022
"The National MagLab: A powerhouse of innovation and International Science Diplomacy" **Plenary Speaker**, 2022 IEEE International Conference on Nanomaterials: Applications & Properties (NAP-2022), September 11-16, Krakow, Poland.
70. September 9, 2022
"Correlated Matter & Dark" Conference on Correlated Matter & Light, September 7-9, 2022, Geneva, Switzerland
71. August 31, 2022
"The Changing Landscape of Science Diplomacy" **Plenary Speaker**, 12th International Conference on Magnetic and Superconducting Materials (MSM22), August 28-Sept. 22, Duisburg, Germany.
72. July 13, 2022
Plenary Panel Chair and Speaker "Science Advising Policy" other panel members are: Cathy Foley – Chief Scientist of Australia; Samia Chafi Kaddour – advisor to the Head of Government of Tunisia; and Georgio Parisi 2021 Nobel Laurite, IUPAP Centenary, 11-13 July 2022, Trieste, IT.
73. June 6, 2022
Plenary Speaker, 2022 American Conference of Neutron Scattering (ACNS 2022) June 5-9, 2022, Boulder, CO.
74. April 30, 2022
"Resilience Dividend" **Commencement Speech**, Florida State University, Tallahassee FL. https://www.youtube.com/watch?v=5c2VvqYViEc Time stamp 30.00-38:32.
75. April 11, 2022
Pritchett Lecture, Georgia Tech
76. March 8, 2022
Negotiation Skills Workshop, at the International Women's Day event in the College of Science at Oregon State University, Corvallis, OR.
77. March 8, 2022
"Journeys from Music in Cleveland to Quantum Materials Worldwide " **Keynote Speaker** at the International Women's Day event in the College of Science at Oregon State University, Corvallis, OR.
78. March 7, 2022
Keynote Speaker Future of Science - Thought Leadership Forum, Oregon State University, Corvallis, OR.
79. February 14, 2022
"The Dark Energy of Quantum Materials" Colloquium, Department of Physics, University of Bristol, Bristol, UK. Virtual
80. December 17, 2021
"The Dark Energy of Quantum Matter" Colloquium, Physics Division, Argonne National Laboratory. Virtual
81. October 25, 2021
"The Dark Energy of Quantum Materials and exotic pairing in the Heavy Fermion

Superconductor $CeCoIn_5$" Plenary talk at the 2021 International Conference on Superconductivity and Magnetism (ICSM-2021), Bodrum, Turkey (Hybrid; I presented virtually).

82. October 23, 2021
"The National MagLab and Strange Superconductors" Saturday Morning Physics, Florida State University (Virtual)

83. October 21, 2021
Three COACh workshops given, "Publishing in Peer-Reviewed Journals," "Selling your Science: The Art of Effective Proposal Writing," and "The Art of Persuasive Communication and Negotiation" at the 2021 International Conference on Superconductivity and Magnetism (ICSM-2021) Autumn School and Educational Courses (ASEC-2021), Bodrum, Turkey (Hybrid; I presented virtually).

84. October 8, 2021
"Local Moment Pairing in the Heavy-Fermion Superconductor $CeCoIn_5$" Condensed Matter Physics Seminar, University of Chicago

85. October 7, 2021
"The Dark Energy of Quantum Matter" **Maria Goeppert Mayer Lecture**, University of Chicago.

86. September 8, 2021
Workshop on Negotiation Skills, 2021 IEEE International Conference on Nanomaterials: Applications & Properties (NAP-2021), September 5-10, 2021, Odessa, Ukraine.

87. September 7, 2021
"The Dark Energy of Quantum Matter" **Plenary Speaker** at the 2021 IEEE International Conference on "Nanomaterials: Applications & Properties" (NAP-2021), September 5-10, 2021, Odessa, Ukraine.

88. June 28, 2021
"Dynamic and Convergence Work at the National MagLab" at "Creating a Thriving Workplace: A conversation about the successes and challenges in building a stellar CI workforce in NSF Major Facilities. Virtual.

89. May 6, 2021
"Overview of Superconducting Magnets" with Mark Bird, Lawrence Workshop on Tunable Plasmonic Haloscopes, May 5-7, 2021, Virtual.

90. April 18, 2021
"Local Moment Pairing in the Heavy-Fermion Superconductor $CeCoIn_5$" 2021 Spring meeting of the Materials Research Society, in Symposium NM01, Superconductors as Quantum Materials, April 18-23, 2021, Virtual.

91. March 17, 2021
"The National MagLab and Strange Superconductors" Public Lecture, Raleigh-Durham, NC.

92. February 18, 2021
"The Dark Energy of Quantum Matter" WAPhLS (Women in Astronomy and Physics Lecture Series), University of Minnesota, https://sites.google.com/umn.edu/wipaumn/waphls . Virtual

93. December 4, 2020 (postponed).
General Physics Colloquium "The Dark Energy of Quantum Matter" and maybe other talks about time reversal symmetry breaking in high temperature superconductors, with other presentations. Rowan University, Glassboro, NJ, Virtual.

94. November 10, 2020
"Spectroscopic Evidence for the Direct Involvement of Local Moments in the Pairing Process of the Heavy-Fermion Superconductor $CeCoIn_5$" at the workshop, "20 years of the 115's: past, present, and future" week of November 9-12, 2020, Virtual.

95. November 9, 2020
"Frontiers of Materials Research: A Decadal Study" briefing for The National Academies hosted meeting of the science and technology chiefs of the 17 national security intelligence agencies and associates, convened as the National Intelligence Science and Technology Committee (NISTC).

96. November 3, 2020
Talk and panel "ELEVATE: Interactive Student Career Event" Applied Superconductivity Conference, October 24-November 7, 2020, Virtual.

97. October 29 and November 2, 2020
Talk and panel "Diversity om Science & Engineering Event", Applied Superconductivity Conference, October 24-November 7, 2020, Virtual. https://ascinc.org/conference-program/asc-elevate/

98. October 8, 2020
Talk and Panel Member for "DOE Investments & Capabilities in Quantum Materials R&D" at the Quantum Information Science & Technology Summit, (Quantum XLab Summit) October 7-8, 2020 (https://www.bnl.gov/quantumxlab/index.php). Virtual. Recordings: https://www.bnl.gov/quantumxlab/agenda.php#recordings

99. August 18, 2020
"Frontiers in Materials Research: A Decadal Study" **Plenary** talk at TRIUMF Science Week, August 17-21, University of British Columbia and TRIUMF, Vancouver, BC, Canada, Virtual.

100. July 23, 2020
Participant in the I2CAM (International Institute for Complex and Adaptive Matter) Round Table "Science in the h-index era." My presentation was on two topics and was entitled "Journal Club model *vs*. Impact Factors for Candidates and Pathological Science (Langmuir) *vs*. Psychopathic Science (Greene)" at the I2CAM Global Summit, July 22-24, 2020 by Zoom. We had participants from all over the world, Virtual.

101. April 16, 2020 (postponed)
Talks at Boğaziçi University, for Tu Bilim Akademisi (Turkish Academy of Sciences)

102. April 19, 2020 (postponed)
Three COACh Workshops, International Conference on Superconductivity and Magnetism, Spring School preceding ICSM2020, April 18-19, Bodrum, Turkey.

103. April 21 (postponed)
"Evidence for Exotic Pairing in the Heavy Fermion Superconductor $CeCoIn_5$" International Conference on Superconductivity and Magnetism (ICSM2020), April 20 – 24, Bodrum, Turkey.

104. March 11, 2020
"The Dark Energy of Quantum Materials" **Plenary Talk**, Annual Meeting of the Cuban Physical Society, March 9-13, Havana, Cuba; by video https://youtube/D90oT08eXXI .

105. January 19, 2020
"The Dark Energy of Quantum Materials" **Plenary Talk**, Conference for Undergraduate Women in Physics (CuWiP), January 17-19, 2020 University of South Florida (USF), Tampa, FL.

106. January 18, 2020
"Publishing in Peer Reviews Journals" and "Negotiation Skills" Conference for Undergraduate Women in Physics (CuWiP), January 17-19, 2020 University of South Florida (USF), Tampa, FL.
107. December 5, 2019
Workshop: "Leadership Skills and Networking for Women" Centre for Engineered Quantum Systems Ninth Annual Workshop, December 4-6, 2019, Wollongong, NSW, Australia.
108. December 4, 2019
"The Dark Energy of Quantum Materials" **Plenary Talk**, Centre for Engineered Quantum Systems Ninth Annual Workshop, December 4-6, 2019, Wollongong, NSW, Australia.
109. November 12, 2019
"The Dark Energy of Quantum Materials" Lecture at my receiving the 2019 Tallahassee Scientific Society Gold Medal, Challenger Learning Center, Tallahassee, FL.
110. November 9, 2019
"The National MagLab and Strange Superconductors" (2x) Saturday Morning Physics, Tallahassee, FL.
111. October 28, 2019
"The National MagLab and Exotic Pairing in the Heavy Fermion Superconductor $CeCoIn_5$" Seminar, University of Central Florida, Orlando, FL.
112. October 23, 2019
"The MagLab User Facility" NeuroNex Panel Discussion, University of Chicago, Chicago, IL.
113. October 22, 2019
"The National MagLab and Exotic Pairing in the Heavy Fermion Superconductor $CeCoIn_5$" Seminar, Argonne National Lab, Argonne, IL
114. October 11, 2019
"Exotic Pairing in the Heavy Fermion Superconductor $CeCoIn_5$" New Horizons in Disordered and Interacting Quantum Materials (Abrahams Fest) October 10-12, Rutgers, NJ.
115. September 21, 2019
"Field-Induced Gap-Like Structure in the Heavy Fermion Superconductor $CeCoIn_5$" Zhejiang Workshop on Correlated Matter (ZWCM 2019), Hangzhou, China.
116. September 18, 2019
"Exotic Pairing in the Heavy Fermion Superconductor $CeCoIn_5$" Seminar, Nanjing University, Nanjing, China.
117. September 17, 2019
"The Dark Energy of Quantum Materials" Colloquium, Nanjing University, Nanjing, China.
118. September 16, 2019
"The Dark Energy of Quantum Materials" **Zhongguancun Forum Lecture**, Institute of Physics, Beijing China.
119. August 20, 2019
"Field-Induced Gap-Like Structure in the Heavy Fermion Superconductor $CeCoIn_5$" Int'l Conf. Magnetic & Superconducting Materials (MSM19), 2019, Seoul, Korea
120. July 23, 2019
Panel: "Sexual harassment and what societies are doing" 2019 Summer Meeting of the American Association of Physics Teachers (AAPT), July 21-23, Provo, UT

121. July 22, 2019
Workshop: "Leadership Skills and Networking for Women" 2019 Summer Meeting of the American Association of Physics Teachers (AAPT), July 21-23, Provo, UT.

122. July 22, 2019
"The Dark Energy of Quantum Materials "**Keynote/Plenary**, 2019 Summer Meeting of the American Association of Physics Teachers (AAPT), July 21-23, Provo, UT.

123. July 22, 2019
Workshop: "The Art of Effective Negotiation" 2019 Summer Meeting of the American Association of Physics Teachers (AAPT), July 21-23, Provo, UT.

124. July 19, 2019
Workshop: "Negotiation, Leadership, and Networking for Women" IUPAP US Delegates meeting for the Working Group on Women in Physics, July 19-20, Provo, UT.

125. July 17, 2019
"Field-Induced Gap-Like Structure in the Heavy Fermion Superconductor $CeCoIn_5$"
Spanish Physical Society Meeting, 15-19 July, 2019, Zaragoza, Spain.

126. July 16, 2019
"Correlated Electrons: The Dark Energy of Quantum Materials"
Plenary Talk at the Spanish Physical Society Meeting, 15-19 July, 2019, Zaragoza, Spain.

127. July 16, 2019
Panel: Opportunities in Superconductivity" Spanish Physical Society Meeting, 15-19 July, 2019, Zaragoza, Spain.

128. July 11, 2019
"The Dark Energy of Quantum Materials" Colloquium: Superconducting Materials and Large Scale Nanostructures Department, Institut de Ciencia de Materials de Barcelona (CSIC), Campus UA 08193 Bellaterra, Spain.

129. May 20, 2019
"The National MagLab – Overview and HEP Partnerships"
SLAC Symposium, Stanford, CA.

130. May 7, 2019
Faculty Recruitment Workshop, National MagLab, Tallahassee, FL.

131. May 2, 2019
"Frontiers in Materials Research: A Decadal Survey"
National Materials and Manufacturing Board (NMMB) of the NASEM, Washington, DC.

132. April 26, 2019
"Frontiers in Materials Research: A Decadal Survey"
Board of Physics and Astronomy (BPS) of the NASEM, Washington, DC.

133. March 3, 2019
"Negations in Life and Lab"
German Physical Society meeting n(DPG), 31 March-5 April 2019, Regensburg, DE.

134. March 2, 2019
"Correlated Electrons: The Dark Energy of Quantum Matter"
Plenary talk, German Physical Society meeting n(DPG), 31 March-5 April 2019, Regensburg, DE.

135. March 29, 2019
"DP Beyond Correlations: Pioneering in Science Diplomacy and Public Engagement"
The David Pines Symposium on Superconductivity Today and Tomorrow, Urbana, IL.

136. March 15 2019
"Women in Physics Roundtable" Symposium for Women in Physics, March 14-16, São Carlos, Brazil.

137. March 15 2019
"And, I am a Materials Girl..." **Plenary** lecture, Symposium for Women in Physics, March 14-16, São Carlos, Brazil.

138. Mach 14, 2019
Workshop: "Negotiation Skills" Symposium for Women in Physics, , March 14-16, São Carlos, Brazil.

139. March 14, 2019
Workshop: "Leadership and Networking" Symposium for Women in Physics, March 14-16, São Carlos, Brazil.

140. March 13, 2019
"And, I am a Materials Girl..." Colloquium, Campinas, Brazil.

141. February 28, 2019
Webinar to roll out "Frontiers of Materials Research: A Decadal Survey"
https://www.eventbrite.com/e/frontiers-of-materials-research-decadal-survey-report-release-webinar-tickets-56136724454?utm_campaign=4de4ea80f6-EMAIL_CAMPAIGN_2017_07_27_COPY_01&utm_medium=email&utm_source=NASEM+Materials&utm_term=0_999980be87-4de4ea80f6-437607297 .

142. February 16, 2018
On-stage interview of Fabiola Gionotti, Director General of CERN, Annual AAAS meeting, Washington, DC.

143. February 11-12, 2019
Various Panels and Mentoring for the UNESCO International Day for Women and Girls in Physics, Tallahassee, FL.

144. February 2, 2019
"Superconductivity: Resistance is Futile!"
Public Lecture, FSU Physics Open House.

145. January 28, 2019
"Correlated Electrons: The Dark Energy of Quantum Matter"
Colloquium Department of Physics, UC Berkeley, Berkeley CA.

146. January 14, 2019
"DP Beyond Correlations: Pioneering in Science Diplomacy and Public Engagement"
ICAM Annual Meeting, Hsinchu, Taiwan.

147. November 16, 2018
"The Dark Energy of Quantum Materials"
Plenary Speaker at the XXI Chilean Physical Society Meeting, Antofagasta Chile.

148. November 19, 2018
"Superconducting and Quantum Materials"
Colloquium at the University of Antofagasta.

149. November 20, 2018
"MagLab and User Facilities in the US"
Colloquium at the University of Santiago.

150. Oct 14, 2018
"Introduction to the MagLab and Superconductivity"
Department of Physics, University of Nebraska, Kearney, NE.

151. October 1, 2018
"Publishing in Peer-Reviewed Journals / Negotiation Skills & Career Launch" Workshops given in São Paolo at the "Meet the Editors Workshops" Sept 30 – Oct. 6, São Paolo, Brazil.

152. September 22, 2018
"Introduction to the National MagLab and Superconductivity" Saturday Moring Physics for the **Public**, Florida State University, Tallahassee, FL.

153. September 18, 2018
"Five 'Big Ideas' for Future Science at High Magnetic Fields" User Committee Workshop, National MagLab, Tallahassee, FL.

154. July 2, 2018
"Five 'Big Ideas' for Future Science at High Magnetic Fields" National MagLab External Advisory Committee Meeting, July 1 – 3 2018, Tallahassee, FL.

155. June 27, 2018
"High Magnetic Fields creating Quantum Matter – tuning the dark energy of quantum materials" **Plenary talk**, Research at High Magnetic Fields (RHMF 2018), June 24 – 29, 2018, Santa Fe, NM.

156. June 14 2018
"The Dark Energy of Quantum Materials" **Public Lecture**, double billed with my husband, Ian Hobson "Classical Music Piano Performance" at Royal Holloway University of London, Egham, UK. https://intranet.royalholloway.ac.uk/physics/events/eventsarticles/an-evening-with-physics-and-music.aspx

157. June 13, 2018
"The Topological Kondo Insulator SmB6: Surface States Interacting with Bulk Spin Excitons" Invited talk at "Condensed Matter Physics in the City, June 11 – 22, London UK.

158. May 31, 2018
"Kavli Prize in Nanoscience Announcement of Winners: CRISPR-Cas9" video-cast for the **Public** and World Science Festival, New York, NY. https://www.worldsciencefestival.com/festival/the-kavli-prize/

159. May 24, 2018
"The Topological Kondo Insulator SmB6: Surface States Interacting with Bulk Spin Excitons" Seminar, Department of Physics, University of California at Davis, Davis, CA.

160. May 23, 2018
"The Dark Energy of Quantum Materials" **Public Lecture** sponsored by the University of California at Davis, Sacramento, CA.

161. April 4, 2018
"Recent Advances in IUPAP C-10 The Structure and Dynamics of Condensed Matter Physics; relation to other Commissions" IUPAP Executive Council and Commission Chair (EC&CC) Meeting, Aril 3-4, 2018, Singapore.

162. April 20, 2018
"The Dark Energy of Quantum Materials" **Yunker Public Lecture**, Oregon State University, Corvallis, OR.

163. April 19, 2018
"The Topological Kondo Insulator SmB6: Surface States Interacting with Bulk Spin Excitons" Seminar, Department of Physics, Oregon State University, Corvallis, OR.

164. March 31, 2018
"Tony's Advocacy in Science Diplomacy and Human Rights: Impact and Global Guidance" at the Festchrift for Nobel Prize Laureate Tony Leggett: Challenges in Condensed Matter Physics and Beyond", March 30 – 31, Urbana, IL.

165. March 23, 2018
"Deciphering Electron Matter in Unconventional Superconductors" Seminar, Department of Physics, Colorado State University, Fort Collins, CO.

166. March 22, 2018
"The Dark Energy of Quantum Materials" **Public Lecture**, sponsored by the department of Physics, Colorado State university, Fort Collins, CO/

167. March 8, 2018
"APS and other societies' role in Human Rights" Young physicists lunch, sponsored by the APS Committee on the International Freedom of Scientists (CIFS) at the March Meeting of the American Physical Society, March 4 – 9, 2018, Los Angeles, CA.

168. February 16, 2018
Introduction and Q&A with Ellen Ochoa, Director of he Jonson Space Center.

169. February 16, 2018
Panel: Addressing Harassment Science and Engineering: A Challenge to Disciplinary Societies. AAAS Annual Meeting, Austin, TX.

170. February 15, 2018
Talk and presentations at the 50th Anniversary of the Cuban Physical Society, Havana, Cuba.

171. January 18 2018
"Topological Kondo insulator SmB6: Surface states interacting with bulk spin excitons" Invited talk, 2018 Aspen Center for Physics, Workshop "High-Temperature Superconductivity – Unifying Themes in Diverse Materials, January 14-20, 2018, Aspen, CO.

172. January 17, 2018
"The Dark Energy of Quantum Matter" **Nick and Maggie DeWolf Foundation Public Physics Lecture**, Wheeler Opera House, Aspen, CO.
(https://www.youtube.com/watch?v=0QcGIJFfRxY&feature=youtu.be).

173. January 13, 2018
"The Dark Energy of Quantum Matter" **Plenary** talk at the 2018 Conference for Undergraduate Women in Physics (CuWiP), January 12-14, 2018, Northern Florida University, Jacksonville, FL.

174. January 12, 2018
"The Art of Effective Negotiation" Workshop at the 2018 Conference for Undergraduate Women in Physics (CuWiP), January 12-14, 2018, Northern Florida University, Jacksonville, FL.

175. December 19, 2017
"Human Rights and Science Diplomacy" Invited talk, 118th Statistical Mechanics Conference December 19-20, Rutgers University, New Brunswick, NJ.

176. December 19, 2017
"Topological Kondo insulator SmB6: Surface states interacting with bulk spin excitons" Invited talk, 118th Statistical Mechanics Conference, December 19-20, Rutgers University, New Brunswick, NJ.
177. December 13, 2017
"The Topological Kondo Insulator SmB6: Surface States and Bulk Spin Excitons" And "The Dark Energy of Quantum Materials" Invited talk, Flatiron Institute, New York, NY.
178. December 5, 2017
"The Art of Effective Negotiation" a COACh workshop, National MagLab, Tallahassee, FL.
179. November 16, 2017
"The Dark Energy of Quantum Materials" **Public Lecture**, Department of Physics University of South Carolina, Columbia, SC.
180. November 8, 2018
"Commemoration of Felix Block's and Robert Hofstadter's Nobel Prize-winning work in Physics, APS Historic Sites Presentation, Varian Physics Building, Stanford, CA.
181. October, 31, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" Physics colloquium, Emory University, Atlanta, GA.
182. October, 30, 2017
"Topological Kondo insulator SmB6: Surface states interacting with bulk spin excitons" Physics seminar, Emory University, Atlanta, GA.
183. October 27, 2018
"The Dark Energy of Quantum Matter" **Public Lecture**, Memorial University, St. John's, Newfoundland, CA.
184. October 26, 2017
"Topological Surface States Interacting with Bulk Spin Excitons in the Kondo Insulator SmB_6 as Revealed by Planar Tunneling Spectroscopy" Seminar, Department of Physics, Memorial University, St. John's, Newfoundland, CA.
185. September 30, 2017
"Intro to the MagLab and the Dark Energy of Quantum Materials" Saturday Morning Physics lectures, MagLab/Florida State University.
186. PLANNED September 18, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" **Plenary** talk at the 10th International Conference on Magnetic and Superconducting Materials, September 18-21, Sharif University of Technology, Tehran, Iran. The US Department of the Treasury denied my attendance.
187. PLANNED September 19, 2017
"Topological Surface States Interacting with Bulk Spin Excitons in the Kondo Insulator SmB_6 as Revealed by Planar Tunneling Spectroscopy" Invited talk at the 10th International Conference on Magnetic and Superconducting Materials, September 18-21, Sharif University of Technology, Tehran, Iran. The US Department of the Treasury denied my attendance.
188. August 30, 2017
"APS and Diversity" **Plenary** diversity talk and "Physics, Gender, and Diversity Panel" at the

Brazilian Physical Society (SBF) Meeting in Condensed Matter Physics, August 27-31, Búzios, Brazil.

189. August 29, 2018
Three COACh workshops on Publishing, Negotiation Skills, and Proposal Writing, Brazilian Physical Society (SBF) Meeting in Condensed Matter Physics, August 27-31, Búzios, Brazil.

190. August 29, 2017
"The Topological Kondo Insulator SmB6: Surface States Interacting with Bulk Excitons" Brazilian Physical Society (SBF) Meeting in Condensed Matter Physics, August 27-31, Búzios, Brazil.

191. August 28, 2018
APS-SBF Panel on our International Engagement, Brazilian Physical Society (SBF) Meeting in Condensed Matter Physics, August 27-31, Búzios, Brazil.

192. August 28, 2017
"The Dark Energy of Quantum Materials" **Plenary** talk at the Brazilian Physical Society (SBF) Meeting in Condensed Matter Physics, August 27-31, Búzios, Brazil.

193. August 18, 2017
Plenary talk at the 2017 Canadian-American-Mexican (and Cuban) Graduate Student Physics Conference, August 17-19, Washington, DC.

194. August 14, 2017
"Strong Correlation Effects on the Topological Surface States in SmB_6" at the 2017 Cargese ICAM summer school ``School on Unconventional and Novel Superconductors: Experiment and Theory'' (SUNSET17) at the Institut des Hautes Etudes Scientfique, August 7-19, 2017, Cargese, Corsica, FR.

195. July 5, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" Physics Colloquium, part of a series celebrating 50 years of Fermilab, Fermilab, Batavia, IL.

196. July 17, 2017
Several COACh workshops preceding the 2017 Indonesian-American Kavli Frontiers of Science Symposium, July 19-21, 2017, Ambon, Indonesia.

197. June 10, 2017
"The APS & MagLab Partnership with 'Think like a Scientist; (TLS)" Founding Summit, June 8-12, 2017, Aspen, Co.

198. May 31, 2017
"The American Physical Society and Electrons: Interesting Correlations" **Plenary** Talk at the Canadian Association of Physics, May 28-June 2, Kingston, ONT, CA.

199. May 30, 2017
"Diversity Programs at the APS" presentation in panel on *CEWIP Panel on Diversity* at the 2017 Canadian Association of Physics, May 28-June 2, Kingston, ONT, CA.

200. May 29, 2017
"Science Policy Directions at the APS" presentation in panel on *Science Policy and NSERC* at the 2017 Canadian Association of Physics, May 28-June 2, Kingston, ONT, CA.

201. May 11, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" Physics Colloquium, Tel Aviv University, Tel Aviv, IS.

202. May 8, 2017
"Strong Correlation Effects on the Topological Surface States in SmB_6" Utrecht Institute for Theoretical Physics.
203. May 6, 2017
"High-temperature superconductivity" Utrecht Physics Challenge, April 6, Utrecht, NL.
204. May 4, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" **Plenary** Talk at *Quantum Africa 4*, April 30-May 5, Gammarth, Tunisia.
205. April 30, 2017
Two COACh Workshops "Publishing in Peer Reviewed Journals" and "The Art of Effective Negotiation" the day before Quantum Africa 4, Gammarth, Tunisia.
206. March 29, 2017
"Strong Correlation Effects on the Topological Surface States in SmB_6" Cuban Physical Society Annual meeting, Havana, Cuba.
207. March 16, 2017
"Diversity in the APS" Special APS Presidential Session on Diversity: The Value of Diversity in Physics: Talking Points for Supreme Court Cases & Beyond, APS March Meeting, March 12-17, 2017, New Orleans, LA.
208. March 16, 2017
"Human Rights and the APS" Human Rights Lunch at the APS March Meeting, New Orleans, LA.
209. March 7, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" Women in Quantum Science and Engineering Lecture Series at the Pittsburgh Quantum Institute, Pittsburgh, PA.
210. February 10, 2017
"Topological surface states interacting with bulk spin excitons in the Kondo insulator SmB_6 as revealed by planar tunneling spectroscopy" Seminar, Department of Physics, University of Florida, Gainesville, FL.
211. January 27, 2017
"Science Diplomacy and Human Rights: Global to Domestic" My APS President Inauguration speech to the Unit Convocation of the American Physical Society, Washington, DC.
212. January 21, 2017
"High-Temperature Superconductivity: The Dark Energy of Condensed Matter" Symposium in honor of Frank (Bud) Bridges, "Budfest" University of California, Santa Cruz, Santa Cruz, CA.
213. January 14, 2017
"Correlated Electrons: The Dark Energy of Condensed Matter" APS Conference for Undergraduate Women in Physics at Virginia Tech, Blacksburg, VA.
214. November 11, 2016
"Samarium Hexaboride: A Topological Kondo Insulator" Instituto de Física de São Carlos, São Paolo, Brazil.
215. November 10, 2016
"High Temperature Superconductivity: The Dark Energy of Condensed Matter" Colloquium at the Federal University of São Carlos, São Carlos, Brazil.

216. November 8, 2016
"Negotiation Skills: Making the Most of Your Talents" COACh workshop at the 2016 Meet the Editors Workshop, 07-09 November 2016, Instituto de Física de São Carlos, São Paolo, Brazil.
217. November 9, 2016
"Publishing in Peer-Reviewed Journals" at the 2016 Meet the Editors Workshop, 07-09 November 20167 Instituto de Física de São Carlos, São Paolo, Brazil.
218. November 7, 2017
"Career Launch and Leadership: Skills for Success" COACh workshop preceding the 2016 Meet the Editors Workshop, 07-09 November 2016, Instituto de Física de São Carlos, São Paolo, Brazil.
219. November 2, 2016
"High-Temperature Superconductivity: From History to Mystery" **Annual Bragg Lecture** at the University College of London, London, UK.
220. October 30, 2016
"Strong Correlation Effects on the Topological Surface States in SmB_6" the 2016 Hefei Conference on Novel Phenomena in High Magnetic Fields (2016nphm), 30-31 October 2016, Hefei, China.
221. October 15, 2016
"High-Temperature Superconductivity: From History to Mystery" **Plenary** at the Cornell Women IN Physics Group 40th Reunion Conference, 14-15 October, 2016, Ithaca, NY.
222. September 24, 2016
"Jeremiah Sullivan: Champion of Diversity" Jeremiah Sullivan Celebration of Life, 24 September 2016, Urbana, IL.
223. September 11, 2016
"Unconventional Superconductivity: From History to Mystery" ZhongGuanCun Forum, Institute of Physics, Chinese Academy of Sciences, Beijing, China.
224. September 8, 2916
"And, I am a Materials Girl" Women in Science Luncheon Talk at the Applied Superconductivity Conference, 04-09 September 2016, Denver, CO.
225. September 8, 2016
"High-Temperature Superconductivity: From History to Mystery" **Plenary** talk at the Applied Superconductivity Conference, 04-09 September 2016, Denver, CO.
226. July 25, 2016
Historic Site Dedication, Holifield Radioactive Ion Beam Facility (HRIBF), Oak Ridge National Laboratory, Oak Ridge, TN.
227. July 13, 2016
"What is Temperature?" Aspen Kids Picnic, Aspen, CO.
228. July 12, 2016
"Topological Surface States & Spin Excitons in the Kondo Insulator SmB_6: Planar Tunneling Spectroscopy" at the Aspen Center for Physics Program, High Temperature Superconductors as a Window to Understanding Unconventional Strongly Correlated Physics, 10 July-14 August, 2016, Aspen, CO.
229. July 6, 2016
"PCS on Fe-based SC's for nematicity and heavy fermions for hybridization" International

Workshop on Recent Progress in Superconductivity (IWRS 2016) 06-08 July 2016, PyeongChang, Korea.

230. June 27, 2016
"The Role of Spin Excitons in the Topological Protection of the Surface State in SmB_6" International Conference on SUPERSTRIPES in Unconventional Superconductors, 23-29 July 2016, Ischia, Italy.

231. May 13, 2016
"High-Temperature Superconductivity: From Nobel Prizes to the Marketplace" College Student Forum, Department of Physics, Nanjing University, Nanjing, China.

232. May 12, 2016
"Topological surface states interacting with bulk spin excitons in the Kondo insulator SmB_6 as revealed by planar tunneling spectroscopy" Condensed Matter Seminar, Department of Physics, Nanjing University, Nanjing, China.

233. May 12, 2016
"High Temperature Superconductivity: Taming Serendipity" Zhongshan Forum, Department of Physics, Nanjing University, Nanjing, China

234. May 11, 2016
"High-Temperature Superconductivity: From History to Mystery" At the Frontier Science in High Magnetic Field Symposium, Chinese High Pulsed Magnetic Field Laboratory, Wuhan, China

235. May 9, 2016
"High-Temperature Superconductivity: From History to Mystery" Colloquium at the Chinese High Magnetic Field Laboratory, Hefei, China.

236. May 6, 2016
"Electron Matter and Hybridization in Unconventional Superconductors" Department of Energy/Basic Energy Sciences – Chinese Academy of Sciences, 06-08 May 2016, Shanghai, China.

237. April 24, 2016
"High-Temperature Superconductivity: Taming Serendipity" Plenary Talk, 5th International Conference on Superconductivity and Magnetism (ICSM2016) Fethiye, Turkey.

238. April 23, 2016
Several COACh workshops at the Student Summer School just before the 5th International Conference on Superconductivity and Magnetism (ICSM2016) Fethiye, Turkey.

239. March 15, 2016
"Science Diplomacy" APS March Meeting Lunch with the Experts, Baltimore, MD.

240. March 12, 2016
"Publishing in Peer Reviewed Journals" Workshop given at the US-Brazil Young Physicists Forum, preceding APS March Meeting, March 12-13, 2016, Baltimore, MD.

241. March 10, 2016
"Deciphering Electronic Matter in Unconventional Superconductors, Condensed Matter Physics Seminar, Department of Physics, University of Havana, Havana, Cuba.

242. March 8, 2016
"High-Temperature Superconductivity: Taming Serendipity" **Plenary** talk, VII Iberoamerican Workshop on Physics Teaching, combined with the XXXIII Central American and Caribbean Course of Physics (CURCCAF), March 7 – 11, 2016, Havana, Cuba.

243. January 25, 2016
"High-Temperature Superconductivity: Taming Serendipity" **Plenary** Talk, Taiwan Physical Society Meeting, January 25-27, 2016, National Sun Yat-sen University in Kaohsiung, Taiwan.
244. January 23, 2016
"Deciphering Electron Matter in Unconventional Superconductors" Colloquium, Institute of Physics, National Taiwan University, Taipei, Taiwan.
245. January 22, 2016
"Detection of Electron Matter in Fe pnictides, Fe-chalcogenides, and Heavy Fermions with Point Contact Spectroscopy" International Workshop on Unconventional Superconductors, Academia Sinica, Taipei, Taiwan.
246. January 13, 2016
"High-Temperature Superconductors: How Taming Serendipity Could Change our World" Science Café, Backwoods Bistro, Tallahassee, FL.
247. January 12, 2016
"High-Temperature Superconductivity: Taming Serendipity" Colloquium, Department of Physics, University of Florida, Gainesville, FL.
248. January 11, 2016
"Deciphering Electron Matter with Point Contact Spectroscopy" Condensed Matter Physics Seminar, Department of Physics, University of Florida, Gainesville, FL.
249. January 8, 2016
Banquet Speech, Physical Phenomena in High Magnetic Fields (PPHMF-8), January 6-9, 2016, Florida State University, Tallahassee, FL.
250. December 10, 2015
Series of COACh workshops at the Africa Materials Research Society Meeting, December 6-11, Accra, Ghana.
251. December 10, 2015
"High-Temperature Superconductivity: Taming Serendipity" **Plenary** Talk at the Africa Materials Research Society Meeting, December 6-11, Accra, Ghana.
252. December 2, 2015
"High-Temperature Superconductivity: Taming Serendipity" Advanced Photon Source Colloquium at Argonne National Laboratory, Argonne, IL.
253. November 25, 2015
"High-Temperature Superconductivity: Taming Serendipity" Colloquium, ESPCI, Paris, FR.
254. November 20, 2015
"High-Temperature Superconductivity: Taming Serendipity" Colloquium, Department of Physics, University of Montreal, Montreal, CA.
255. November 19 2015
"Detection of Correlated Electron Matter with Point Contact Spectroscopy" Seminar, Department of Physics, Sherbrooke University, Sherbrooke, Ontario, Canada.
256. October 22, 2015
"Deciphering Electron Matter in Unconventional Superconductors" Annual Meeting of the Korean Physical Society, October 20 – 23, 2014, Gyung Ju, Korea.

257. October 21, 2015
"Deciphering Electron Matter in Unconventional Superconductors" at the KAST (Korean Association of Science and Technology) Prestige Workshop, October 21, 2015, Seoul, Korea.
258. October 2-13, 2015
Series of three COACh Workshops on Proposal Writing in Muscat, Sohar, and Nizwa, Oman.
259. September 26, 2015
"Detection of Electron Matter in Fe pnictides, Fe-chalcogenides, and Heavy Fermions with Point Contact Spectroscopy" at the 3rd US-DoE Basic Energy Sciences / Chinese Academy of Sciences Workshop, September 26-27, 2015, Brookhaven National Laboratory, Upton, NY.
260. September 2-4, 2015
Several COACh Workshops for the US-India Joint Commission, Guwahati, India.
261. August 29-September 1 2015
Several COACh Workshops for the US-India Joint Commission, Pune, India.
262. August 27, 2015
"Materials and Mechanisms – We know the answers, but what are the questions?" After-dinner speech at the 2015 International Conference on the Materials and Mechanism of Superconductivity (M^2S 2015), August 24-28, 2015, Geneva, Switzerland.
263. August 25, 2015
"Hybridization and Coherence Crossover in Heavy Fermions" The 2015 International Conference on the Materials and Mechanism of Superconductivity (M^2S 2015), August 24-28, 2015, Geneva, Switzerland.
264. July 27, 2015
Four COACh Workshops as part of the 5th U.S. and Indonesian Academies of Sciences joint Kavli Frontiers of Science Symposium, Makassar, South Sulawesi, Indonesia.
265. July 13, 2015
"Detection of Electron Matter in Fe-pnictides, Fe-chalcogenides, and Heavy Fermions" International Workshop on Concepts and Discovery in Quantum Matter (CDQM), July 12-15, Cambridge, UK.
266. July 6 2015
"Hybridization and Formation of Coherent Heavy Fermions: Non-Fermi liquid detection with point contact spectroscopy" The 2015 International Conference on Magnetism (ICM2015) July 5 – 10, 2015, Barcelona, Spain.
267. June 29, 2015
"Enhancing Global Engagement and Some US Education & Outreach" Global Science Engagement and Education (GSEE) Summit in Asia "Initiatives That Can Change Science Education" 28 -30 June 2015, National Donghwa University, Hualien, Taiwan.
268. June 23, 2015
Three COACh Workshops, Oak Ridge National Laboratory, Oak Ridge, TN.
269. June 10, 2015
Speech / presentation of plaque signifying Fermilab as an APS Historical Site, Fermilab, Batavia, IL.
270. June 1, 2015
"Hybridization and Formation of Coherent Heavy Fermions: Non-Fermi liquid detection with

point contact spectroscopy" Condensed Matter Physics Seminar, Seoul National University, Seoul, Korea.

271. May 27, 2015
"Discussion Leader on Heavy Fermions" Gordon Research Conference on Superconductivity, Chinese University of Hong Kong, May 24-29, 2015, Hong Kong, China.

272. May 23, 2015
"Deciphering Electron Matter in Unconventional Superconductors" Graduate Research Seminar, preceding the Gordon Research Conference on Superconductivity, Chinese University of Hong Kong, May 24-29, 2015, Hong Kong, China.

273. May 1, 2015
"Detection of Electron Matter in Fe-pnictides, Fe-chalcogenides, and Heavy Fermions" Condensed Matter Physics Seminar, Iowa State University and Ames Laboratory, Ames, IA.

274. April 28, 2015
"High-Temperature Superconductivity: Taming Serendipity" General Physics Colloquium, University of Florida, Tallahassee, FL.

275. April 28, 2015
"Detecting Electron Nematicity in Fe Pnictides and Chalcogenides with Point Contact Spectroscopy: A new way to detect non-Fermi liquid behavior" Condensed Matter Physics Seminar National High Magnet Field Laboratory (NHFML), Tallahassee, FL.

276. April 16, 2015
"Detection of Electron Matter in Fe-pnictides, Fe-chalchognides, and Heavy Fermions" International Workshop/School on Heavy Fermions and Quantum Phase Transitions, April 15 – 17, 2015, Zhejiang University, Hangzhou, China.

277. April 15, 2015
"High-Temperature Superconductivity: Taming Serendipity" **Public Lecture** at Zhejiang University, Hangzhou, China.

278. April 14, 2015
"Point Contact Spectroscopy and Applications to Materials Research" on Heavy Fermion and other strongly correlated electron systems", April 13-14, 2015, Zhejiang University, Hangzhou, China.

279. April 4, 2015
"High-Temperature Superconductivity: Taming Serendipity" Saturday Engineering for Everyone, University of Illinois at Urbana, Champaign, Urbana, IL.

280. April 1, 2015
"Detection of Electron Nematicity in Fe Pnictides and Chalcogenides" Condensed Matter Physics Seminar, University Minnesota, Minneapolis, MN.

281. March 31, 2015
"Deciphering Electron Matter in Novel Superconductors", General Physics Colloquium, University of Minnesota, Minneapolis, MN.

282. March 25, 2015
"Detection of Electron Matter in Fe pnictides, Fe-chalcogenides, and Heavy Fermions" Condensed Matter Physics Seminar, Seoul National University, Seoul, South Korea.

283. March 20, 2015
Three COACh Workshop at Argonne National Laboratory, Argonne, IL (https://blogs.anl.gov/wist/).

284. March 19, 2015
"Detecting electron nematicity in Fe pnictides and chalcogenides with point contact spectroscopy: A new way to detect non-Fermi liquid behavior" Condensed Matter Physics Seminar, University of Illinois at Chicago, Chicago, IL.

285. March 18, 2015
"High-Temperature Superconductivity: Taming Serendipity" General Physics Colloquium, University of Illinois at Chicago, Chicago, IL.

286. March 9, 2015
"High-Temperature Superconductivity: Taming Serendipity" General Physics Colloquium, Oberlin College, Oberlin, OH.

287. March 5, 2015
"Publishing in Peer Reviewed Journals: Journal mechanics and guidance to authors" Special Symposium on Why Peer Review, March Meeting of the American Physical Society, March 1-6, 2014, San Antonio, TX.

288. February 28, 2015
"Publishing in Peer-Reviewed Journals" at the US Department of State US-China Young Physicists Forum (YPF), February 28 – March 1, 2015, San Antonio, TX.

289. December 16, 2014
"Future Prospects of Unconventional Superconductivity" Panel at the Unconventional Superconductivity and Launch Symposium for the Rice Center for Quantum Materials (RCQM), December 15-16, 2014, Rice University, Houston, TX.

290. December 16, 2014
"Detection of Electronic Nematicity in Fe Pnictides and Chalcogenides" at the Unconventional Superconductivity and Launch Symposium for the Rice Center for Quantum Materials (RCQM), December 15-16, 2014, Rice University, Houston, TX.

291. December 11, 2014
"High-Temperature Superconductivity: Taming Serendipity" General Physics Colloquium Iowa State University, Ames, IA.

292. November 9, 2014
"Publishing in Peer-Reviewed Journals" at the Junior Research Symposium, Annual Fall Workshop of the Center for Emergent Superconductivity, November 9 – 11, 2014, University of Illinois at Urbana-Champaign, Urbana, IL.

293. October 29, 2014
"Deciphering Electron Matter in Novel Superconductors", General Physics Colloquium, University of Illinois at Urbana-Champaign, Urbana, IL.

294. October 18, 2014
"The Next 60 Years of SCES" Panel Chair at the "Workshop of Strongly Correlated Electron Systems at 60 Years, SCES@60" October 17-18, 2014, University of Illinois at Urbana-Champaign, Urbana, IL.

295. September 4-12, 2014
Two series of COACh Lectures / Workshops including “Proposal Writing Workshop” and “Publishing in Peer-Reviewed Journals” in New Delhi and Bangalore, India.

296. September 2-5, 2014
Series of COACh Lectures / Workshops including “Proposal Writing Workshop” and “Publishing in Peer-Reviewed Journals” Indian Institute of Public Administration, New Delhi, India.

297. September 8-12
Series of COACh Lectures / Workshops including “Proposal Writing Workshop” and “Publishing in Peer-Reviewed Journals” National Institute of Advanced Studies, IIis Campus, Malleshwaram, Bengaluru, India.

298. August 28, 2014
“High-Temperature Superconductivity: Taming Serendipity” General Physics Colloquium, Purdue University, West Lafayette, IN.

299. August 18, 2014
“Electronic Matter in Unconventional SCs: A Key to Predictive Design?” Representing the Center for Emergent Superconductivity at the AFOSR Superconductivity Program Review, August 18, Arlington, VA.

300. August 12 2014
“Detection of Non-Fermi Liquid Behavior with Point Contact Spectroscopy”, **Half-plenary** at the 27th International Meeting on Low-Temperature Physics (LT27), August 6 – 13, Buenos Aires, Argentina.

301. July 28 2014
“Detection of Electronic Nematicity in Fe Pnictides and Chalcogenides”, SuperStripes, 2014, July 25 – July 30, Ettore Majorana Center, Erice, Sicily, Italy.

302. July 11, 2014
“Detection of Electron Matter in Strongly Correlated Electron Systems with Point Contact Spectroscopy”, The 2014 International Conference on Strongly Electron Correlated Systems (SCES2014), July 7 – 11, 2014, Grenoble, FR.

303. June 24, 2014
“Deciphering Electron Matter in Novel Superconductors” Seminar, Nanoscience & Nanotechnology Institute, National University of Singapore, The Republic of Singapore.

304. June 20, 2014
Series of COACh Lectures / Workshops: “Proposal Writing Workshop” and “Publishing in Peer-Reviewed Journals” at the Indonesian-American Kavli Frontiers in Science Meeting, 19-25 June 2014, Medan, Sumatra, Indonesia.

305. May 13, 2014
“Detection of Electronic Nematicity in Fe Pnictides and Chalcogenides”, International Conference on Mesoscale Science Frontiers, 13 – 16 May, 2014, Santa Fe, NM.

306. April 29, 2014
“Orbital Fluctuations in Iron-based superconductors”. The 4th International Conference on Superconductivity and Magnetism-ICSM2014, 27 April – 2 May 2014, Antalya, Turkey.

307. April 23, 2014
“Deciphering Electron Matter in Novel Superconductors”, The 2014 Spring Meeting of the Materials Research Society, April 22 – 25, 2014, San Francisco, CA.

308. April 15, 2014
"High-temperature Superconductivity: Taming Serendipity", UMD Carr Lecture and General Physics Colloquium, University of Maryland, College Park, MD.

309. April 14, 2014
"Detecting Strong Electron Correlations with Point Contact Spectroscopy: Electron matter in Fe – pnictides, -chalcogenides, and heavy fermions", Condensed Matter Physics Seminar and part of the UMD Carr Lectureship, University of Maryland, College Park, MD.

310. April 3, 2014
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Montana Tech, Butte, MT.

311. March 27, 2014
Discussion leader at Emergence of new exotic states at interfaces with superconductors, Theo Murphy International Scientific meeting, March 27 – 28, 2014, The Royal Society at Chicheley Hall, Buckinghamshire, UK.

312. March 26, 2014
"Deciphering Electron Matter in Novel Superconductors" Royal Holloway, University of London, Engham, Surrey, UK.

313. March 18, 2014
"High-Temperature Superconductivity: Taming Serendipity", STEM Lecture celebrating National Women's Month, Georgia Perimeter College, Decatur, GA.

314. March 5, 2014
"Deciphering Electron Matter in Novel Superconductors", Invited talk at the **Kavli Plenary** Symposium on Many Electron Physics at the March Meeting of the American Physical Society, March 3 – 7, 2014, Denver, CO. https://www.youtube.com/watch?v=yiw2zCfcjlw

315. January 6-9, 2014
Series of COACh Workshops including "Proposal Writing," "Publishing in Peer-Reviewed Journals," and "Science Ethics" January 6 -9, 2015, Bangkok, Thailand.

316. October 21 2013
"ICAM's Global Education, Outreach, and Engagement Initiatives", GSEE/Kyoto Summit, 20 – 23 October 2013, Kyoto, Japan. (GSEE = Global Partnership for Promoting Science Education through Engagement).

317. October 15, 2013
"Hybridization Gap in Heavy Fermions." Sino-German Bilateral Workshop on Kondo and Mott Physics in Correlated Electron Matter, October 15 – 18, Hangzhou, China.

318. August 7 and 9, 2013
Lecturer (2 Lectures) at the International Summer School on Superconductivity – Theory, Experiments, and Phenomena (STEP – 2013), August 5 – 17, 2013, Cargese, Corsica, FR.

319. August 2, 2013
"Panel: Making common cause with scientists in other fields", Division of Particle Physics / CSS2013; http://www.hep.umn.edu/css2013/, 29 July – 6 August 2013, "Snowmass 2013" University of Minnesota, Minneapolis, MN.

320. June 23, 2013
Series of COACh Lectures / Workshops including "Proposal Writing" and "Publishing in Peer-

Reviewed Journals" at the Third Indonesian-American Kavli Frontiers in Science Meeting, 23 – 17 June 2013, Nusa Dua, Bali, Indonesia.

321. June 4, 2013
"Detection of Orbital Fluctuations in Fe pnictides and Chalcogenides with Quasiparticle Scattering Spectroscopy", Physics Seminar, Brookhaven National Laboratory, Upton, NY.

322. May 28, 2013
"Detection of Electron Nematicity in Fe Pnictides and Chalcogenides with Point Contact Spectroscopy", 14th International Workshop on Vortex Matter in Superconductors, May 21 – 27, Nanjing, China (http://www.vortex2013.org/).

323. May 24 , 2013
"Quasiparticle Scattering Spectroscopy in Heavy Fermions: Order Parameter Symmetry, Hybridization Gap, and Fano Resonance", Scientific Seminar, Zhongshan Forum, Nanjing University, Nanjing, China.

324. May 14, 2013
"Detection of the Hybridization Gap and Fano Resonance in Heavy Fermions with Quasiparticle Scattering Spectroscopy," and Speaker and Discussion Leader of the Heavy Fermion Session, Gordon Research Conference on Superconductivity, May 12 – 17, Les Diableries, Switzerland.

325. May 7, 2013
"Metallic and Oxide Superlattices: Towards Understanding and Designing High-Temperature Superconductors", Superlattices, May 6 – 8, 2013, Charlotte, NC.

326. May 4, 2013
"Education for Life and Work: Developing Transferable Knowledge and Skills for the 21st Century", Forum at National Taiwan University, Taipei, Taiwan.

327. May 2, 2013
"Education for Life and Work: Developing Transferable Knowledge and Skills for the 21st Century". Forum at National Dong Hwa University, Shoufeng, Hualien, Taiwan

328. April 20, 2013
"Detecting Strong Electron Correlations with Quasiparticle Scattering Spectroscopy: Electron Matter in Fe-pnictides, Fe-chalcogenides, and Heavy Fermions" ICAM-I^{2}CAM Frontiers in Quantum Matter Workshop, April 20 – 21, Rio de Janeiro, Brazil.

329. March 22, 2013
"Kondo, Fano, … Detecting Electron Matter", Symposium in honor of Myrium Sarachik on her 80th Birthday, City College, New York, NY.

330. March 6 – 9, 2013
A series of Scientific lectures on Superconductors as Energy Materials, and a series of COACh workshops on writing proposals, and networking, March 6 – 9. 2013, Casablanca, Morocco.

331. February 12, 2013
"High-temperature Superconductivity: Taming Serendipity", General Physics Colloquium, University of Pittsburgh, Pittsburgh, PA.

332. February 11, 2013
"Detecting Orbital Ordering and Other States of Electron Matter with Quasiparticle Scattering Spectroscopy", Condensed Matter Physics Seminar, University of Pittsburgh, Pittsburgh, PA.

333. February 4, 2013
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, California State University Long Beach, Long Beach, CA.

334. January 31, 2013
"Detecting Electron Matter Fe-pnictides and chalcogenides with Quasiparticle Scattering Spectroscopy", Condensed Matter Physics Seminar, Department of Physics, University of California at Irvine, Irvine, CA.

335. January 23, 2013
"Detecting Electron Matter Fe-pnictides and chalcogenides with Quasiparticle Scattering Spectroscopy", AFOSR MURI-China Workshop, January 22 – 25, 2013, Hong Kong.

336. January 21, 2013
"Guiding Platforms for the Search for New and Practical High Temperature Superconductors at the Center for Emergent Superconductivity, and How Point Contact Spectroscopy Helps", Winter School for High-Temperature Superconductivity, January 20 – 21, 2013, Hong Kong.

337. January 19, 2013
"Vision Is Vital, But Experiment Is Essential: Andreev Bound States, Broken Time Reversal Symmetry, and Electron Matter", **Plenary** talk at the 5th Annual Meeting on Undergraduate Women in Physics, Midwest Section, January 18 – 21, Urbana, IL.

338. December 20, 2012
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Division of Materials Research, Argonne National Laboratories, Argonne, IL.

339. November 29, 2012
"Detecting Strong Electron Correlations with Quasiparticle Scattering Spectroscopy: Electron Matter in Fe-pnictides, Fe-chalcogenides, and Heavy Fermions", Condensed Matter Physics Seminar, University of Maryland, College Park, MD.

340. November 8, 2012
"Superconductivity As an Energy Carrier", Dasan Conference on Superconductivity, November 7 – 9, 2012, Jeju Island, Korea.

341. October 10, 2012
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Eidgenössische Technische Hochschule (ETH), Zürich, Switzerland.

342. October 11, 2012
"Detecting Electronic Order with Quasiparticle Scattering Spectroscopy: Hybridization Gap and Fano Resonance in a Heavy Fermion and Orbital Ordering in Fe-based Superconductors", Condensed Matter Physics Seminar, Eidgenössische Technische Hochschule (ETH), Zürich, Switzerland.

343. August ~28, 2012
"Detection of the Hybridization Gap and Fano Resonance in the Kondo Lattice URu_2Si_2," International Conference on Quantum Criticality and Novel Phases, August 26 – 29, 1012, Dresden, Germany.

344. July 19, 2012
"Why Electron Matter Matters", Lecture to the Summer REU students at the University of Illinois at Urbana-Champaign, Urbana, IL.

345. July 15, 2012
"Detection of Novel Electron Order in Heavy Fermions and Fe Chalcogenides and Pnictides with Point Contact Spectroscopy", Physics Summer School for Outstanding Students in Basic Sciences, Zhejiang University, Hangzhou, China.

346. July 15, 2012
"Planar Tunneling and Andreev Reflection Spectroscopies: Powerful probes of broken symmetries and the Superconducting order parameter", Physics Summer School for Outstanding Students in Basic Sciences, Zhejiang University, Hangzhou, China.

347. July 15, 2012
"High-Temperature Superconductivity: Taming Serendipity", **Public Lecture** for the Physics Summer School for Outstanding Students in Basic Sciences, Zhejiang University, Hangzhou, China.

348. July 12, 2012
"Detection of Orbital ordering Fluctuations in the Fe-based Superconductors by Quasiparticle Scattering Spectroscopy", International Conference on Magnetism, ICM 2012, July 8 – 13, Bexco, Busan, Korea.

349. June 4, 2012
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, University of California at Davis, Davis, CA.

350. May 15, 2012
"High-Temperature Superconductivity: Taming Serendipity", Brazilian Condensed Matter Physics Annual Meeting, May 14 – 18, 2012, Aguas de Lindoia, Brazil.

351. May 11, 2012
"What Should Be Our Model for Regional GSEE Consortia?" Meeting for The Global Partnership on Science Education though Engagement, May 10 – 12, 2012, University of Chicago, Chicago, IL.

352. April 12, 2012
"Detection of Orbital Fluctuations above the Structural Transition in the Iron Pnictides and Chalcogenides by Quasiparticle Scattering Spectroscopy", Condensed Matter Physics Seminar, Imperial College, London, UK.

353. April 11, 2012
"Detecting Electronic Order with Quasiparticle Scattering Spectroscopy: Hybridization Gap and Fano Resonance in a Heavy Fermion and Orbital Ordering in Fe-based Superconductors", Condensed Matter Physics Seminar, Rice University, Houston, TX.

354. April 10, 2012
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Rice University, Houston TX

355. April 5, 2012
"High-Temperature Superconductivity: Taming Serendipity", Optical Sciences Colloquium, University of Arizona, Tucson, AZ

356. March 20, 2012
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Texas A&M University, College Station, TX.

357. March 19, 2012
"And, I am a Materials Girl, and this is a Materials World" (with apologies to Madonna), ADVANCE – STEM Lecture, Texas A&M University, College Station, TX.

358. March 14, 1012
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, City College of New York, NY, NY.

359. March 14, 2012
"Detection of Orbital Fluctuations above the Structural Transition in the Iron Pnictides and Chalcogenides by Quasiparticle Scattering Spectroscopy", Condensed Matter Physics Seminar, City College of New York, NY, NY.

360. February 28, 2012
"Towards the Design of New High-Temperature Superconductors for Renewable Energy", Division of Materials Physics sponsored Lunch with the Experts, March Meeting of the American Physical Society, February 27 – March 1, 2012, Boston, MA.

361. Feb 13, 2012
"Detection of Orbital Fluctuations above the Structural Transition in the Iron Pnictides and Chalcogenides by Quasiparticle Scattering Spectroscopy", Physics / Electrical Engineering / Chemistry combined seminar, Boston University, Boston, MA.

362. January 15, 2012
"High-Temperature Superconductivity: Taming Serendipity", 5th Annual Midwest Women in Physics Conference, January 14 – 16, 2012, Case Western Reserve University, Cleveland, OH.

363. December 13, 2011
"Superconducting Materials Research at the Center for Emergent Superconductivity", China-US Superconductivity Workshop, December 12 – 15, 2011, Santa Barbara, CA.

364. December 9, 2011
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, University of Connecticut, Stores, CN.

365. November 18, 2011
"Detecting Strong Correlations with Quasiparticle Scattering Spectroscopy", Condensed Matter Physics Seminar, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

366. November 12, 2011
"Transforming Science, Policy, and the Power Grid with High Temperatures Superconductivity", Saturday Physics Honors Program (for high-school students in the area), Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

367. December 5, 2011
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Northeastern University, Boston, MA.

368. November 4, 2011
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Boston University, Boston, MA.

369. October 21, 2011
"New Superconducting Materials Research – International Pursuits with Ivan", Physics at the Nanoscale, Ivan Schuller Festschrift, October 18 – 21, 2011, Madrid, Spain.

370. October 4, 2011
"Point Contact Spectroscopy in Strongly-Correlated Electron Materials", Condensed Matter Physics Seminar, Temple University, Philadelphia, PA.

371. October 3, 2011
"High-Temperature Superconductivity: Taming Serendipity", General Physics Colloquium, Temple University, Philadelphia, PA.

372. September 2, 2011
"Superconductivity as an Energy Carrier", **Plenary** Talk at the International Conference on Strongly Correlated Electron Systems (SCES – 2011), August 29 – September 3, 2011, Cambridge, UK.

373. August 1, 2011
"Direct Measurement of the Fano Resonance and Hybridization Gap in URu_2Si_2 with Quasiparticle Scattering Spectroscopy", 26th International Conference on Low Temperature Physics (LT26), August 10 – 17, 2011, Beijing, China

374. August 16, 2011
"Point Contact Spectroscopy in Fe-Pnictides and Fe-Chalcogenides: Detecting Hidden Order", 26th International Conference on Low Temperature Physics (LT26), August 10 – 17, 2011, Beijing, China (given by student Hamood Arham).

375. July 22, 2011
"Detecting 'Normal-State' Electronic Order with Point Contact Spectroscopy: Heavy-fermions and Underdoped Iron-based Superconductors", Workshop on A New Century of Superconductivity: Iron Pnictides and Beyond, Aspen Center for Physics, Aspen, CO.

376. July 10, 2011
"Advances in Tunneling and Andreev Reflections in Novel Superconductors". **Plenary** Talk at the 7th International Conference on Stripes and High T_c Superconductivity "STRIPES11", July 10 – 16, 2011, Sapienza University of Rome, Rome Italy.

377. June 29, 2011
"Design of New Superconducting Materials, and Point Contact Spectroscopy as a Probe of Strong Electron Correlations", **Plenary** Lecture at the "1st Centennial of Superconductivity: Trends on Nanoscale Superconductivity and Magnetism" (1stCSW2011), International Workshop, June 29 – July 1, 2011, Cali, Colombia.

378. June 15, 2011
"Future Prospects in Superconductivity Materials Research", Lecture to REU and Summer Undergraduate Research Students, University of Illinois at Urbana-Champaign, Urbana, IL 61801.

379. June 2, 2011
"High-Temperature Superconductivity: Building from Serendipity", General Physics Colloquium, University of California at Irvine, Irvine, CA.

380. May 30, 2011
"Research Opportunities in New Superconducting Materials", **Plenary** talk at the annual meeting of The Advanced Materials Network (RQMP), Montréal, Canada.

381. May 16, 2011
"Detection of Orbital Ordering and Nematicity in Fe-based Superconductors by Point Contact Spectroscopy", Institute for Condensed Matter Theory (ICMT) on Disordered Materials, May 15 – 19, 2011, University of Illinois at Urbana-Champaign, Urbana, IL.

382. May 5, 2011
"High-Temperature Superconductivity: From Broken Symmetries to the Power Grid", General Physics Colloquium, University of California at Santa Cruz, Santa Cruz, CA.

383. April 11, 2011
"Observation of the Hybridization Gap and Fano Resonance in the Heavy-fermion Superconductor URu_2Si_2", The 2011 Hangzhou Workshop on Quantum Matter – Unconventional Superconductivity and Electron Correlations, April 10-13, 2011, Zhejiang University, Hangzhou, China.

384. April 8, 2011
"Research Opportunities in New Superconducting Materials", Annual meeting of the Institute for Complex and Adaptive Matter (ICAM) special session celebrating the 100th birthday of superconductivity, Hangzhou, China

385. April 6, 2011
"Measurement of the Hybridization Gap in the Kondo Lattice URu_2Si_2". Workshop for the 100th Anniversary of Superconductivity: Hot Topics and Future Directions, April 4 – 8, 2011, Lorentz center, Leiden, NL.

386. March 23, 2011
"Research Opportunities in New Superconducting Materials", **Plenary Lecture at the Kavli Symposium** for *the Superconductivity Centennial: Future Research Opportunities*, March Meeting of the American Physical Society, March 21-25, Dallas, TX.

387. February 19, 2011
"The Search for New Superconductors", with Zachary Fisk, Annual Meeting of the American Association for the Advancement of Science, February 17-21, Washington, DC.

388. January 31, 2011
"High-Temperature Superconductivity: Emergent Phases, Broken Symmetries, and the Power Grid", General Colloquium, Department of Physics, North Carolina State University, Raleigh, NC,

389. January 16, 2011
"Emergent Behavior in Life and Lab: Building on internal competitions", **Plenary** talk, 4th Annual Midwest Conference for Undergraduate Women in Physics, January 14 – 16, Purdue University, Purdue, IN.

390. November 13, 2010
"CES Outreach: Report interaction with AFOSR s and the Chinese Academy of Sciences; The International ad-hoc group to search for new high-temperature superconductors; The status of the CES-directed International Conference M^{2}S 2012; and The Status of the CES-edited Reports on Progress in Physics – Institute of Physics (RoPP-IoP, UK) Special Issue on Fe-based superconductors" CES-EFRC Fall Workshop, November 11-13, 2010, Stony Brook, NY.

391. November 12, 2010
"Point Contact Spectroscopy on Fe-Based and New Superconductors", CES-EFRC Fall Workshop, November 11-13, 2010, Stony Brook, NY.

392. November 12, 2010
"Innovative Avenues for the Design of New Families of High-Temperature Superconductors / Materials Overview", CES-EFRC Fall Workshop, November 11-13, 2010, Stony Brook, NY.

393. November 4, 2010
"High-Temperature Superconductivity: Emergent Phases and the Power Grid", Colloquium, Department of Physics, University of Chicago, Chicago, IL.

394. October 22, 2010
"Point Contact Spectroscopy of Strongly-Correlated Electron Materials: Andreev Reflection, Multiband Superconductivity, and Magnetism", Solid State Physics Seminar, Department of Physics, California Institute of Technology, Pasadena, CA.

395. October 21, 2010
"High-Temperature Superconductivity: Emergent Phases, Broken Symmetries, and the Power Grid", General Colloquium, Department of Physics, California Institute of Technology, Pasadena, CA.

396. September 28, 2010
"Recent Results in the CES-EFRC: Materials, Mechanisms, and Critical Currents", US/China Workshop on Noel Superconductors, September 27-29, 2010 Beijing China.

397. September 15, 2010
"Point Contact Spectroscopy of Strongly Correlated Electron Materials: Andreev Reflection, Multiband Superconductivity, and Magnetism", T_cSUH Special Seminar, University of Texas at Houston, Houston, TX.

398. September 14, 2010
"High-Temperature Superconductors: From Broken Symmetries to the Power Grid", General Colloquium, Department of Physics and the Texas Center for Superconductivity, University of Texas at Houston, Houston, TX.

399. August 10, 2010
"The Search for Innovative Avenues Towards Developing New Families of Superconducting Materials: Report from US Centers", Trieste Miniworkshop on Strongly Correlated Matter, August 2-13, 2010, ICTP, Trieste, Italy.

400. August 7, 2010
"Status of the CES-EFRC: Materials, Mechanisms, and Critical Currents", AFOSR-MURI Review, Washington, DC.

401. July 7, 2010
"High-Temperature Superconductors: From Broken Symmetries to the Power Grid", Talk to REU and other undergraduate students, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

402. June 3, 2010
"Point Contact Spectroscopy: Detecting Superconducting and Magnetic Phase Correlations", Special Seminar, Department of Physics, Imperial College, London, UK.

403. May 20, 2010
"Point Contact Spectroscopy of Strongly-Correlated Electron Materials: Andreev Reflection, Multiband Superconductivity, and Magnetism", Condensed Matter Physics Seminar, Northwestern University, Evanston, IL.

404. March 20, 2010
"High-Temperatures Superconductivity and Energy Research", General Colloquium, Department of Physics, University of Texas at Arlington, Arlington, TX.

405. March 17, 2010
"Superconductivity and Energy Research", Division of Materials Physics sponsored Lunch with the Experts, March Meeting of the American Physical Society, March 15 – 19, 2010, Portland, OR.

406. March 10, 2010
"Point Contact Spectroscopy of Strongly-Correlated Electron Systems", Physics Colloquium, Trinity College and Cavendish Laboratory, Cambridge University, Cambridge, UK.

407. September 30, 2009
"High-Temperature Superconductors: From Broken Symmetries to the Power Grid", **Public Lecture**, Center for Nano and Molecular Science, The University of Texas at Austin, Austin, TX.

408. September 8, 2009
"High-Temperature Superconductors: From Broken Symmetries to the Power Grid", General Physics Colloquium, University of York, York, UK.

409. August 17, 2009
"Andreev Reflection in the Heavy Fermion Superconductor $CeCoIn_5$", Kavli Institute for Theoretical Physics (KITP), Santa Barbara, CA.

410. August 10 and 12, 2009
Lecturer (Two Lectures: "Tunneling in High-Temperature Superconductors" and "Point Contact Andreev Reflection Spectroscopy in Heavy Fermion Superconductors"), at the "Summer School on Novel Superconductors", sponsored by the International Center for Materials Research (ICMR), University of California at Santa Barbara and the Graduate School of Excellence in Materials Science, Mainz, August 2 -15, 2009, Santa Barbara, CA.

411. July 14, 2009
"Overview of Fe-Pnictide and Related Superconductors", I2CAM Workshop on Emergent Quantum Phenomena from the Nano to the Macro World", July 6-18, 2009, Cargèse, FR.

412. April 14, 2009
"Superconductivity and the Power Grid", Spring Diversity Recruitment Lecture, University of Illinois and Urbana-Champaign.

413. March 11, 2009
"Andreev Reflection in Heavy Fermions", Colloquium, Department of Physics, University of Michigan, Ann Arbor, MI.

414. March 10, 2009
"High-Temperature Superconductivity: From Broken Symmetries to the Power Grid", **Public Lecture**, University of Michigan, Ann Arbor, MI.

415. February 10, 2009
"Andreev Reflection in Heavy Fermion Superconductors: Focus on $CeCoIn_5$", Physics and Applied Physics Departments' Student Hosted Colloquium, Stanford University, Stanford, CA

416. January 22, 2009
"High-Temperature Superconductors: Playgrounds for Broken Symmetries", **Plenary** Talk, Physics@FOM Veldhoven 2009, January 21 -23, 2009, Eindhoven, the Netherlands.

417. January 19, 2009
"Tunneling and Andreev Reflection Unconventional Superconductors", Masterclass at Physics@FOM, Veldhoven, 2009, January 21 -23, 2009, Eindhoven, The Netherlands.

418. January 12, 2009
"New Superconductors: Fe-Pnictide and Related", ICAM/I2CAM Annual Meeting, January 11-13, Cambridge, UK

419. November 8, 2008
"Transforming Science, Policy, and the Power Grid with High Temperature Superconductivity", Saturday Physics Honors Program (for high-school students in the area), Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

420. November 6, 2008
"High-Temperature Superconductors: From Broken Symmetries to the Power Grid", **Chancellor's Center for Advanced Study Public Lecture**, University of Illinois at Urbana-Champaign, Urbana, IL

421. August 19, 2008
"Point Contact Andreev Reflection Tunneling Spectroscopy (PCARTS) of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$", The International Conference on Strongly Correlated Electron Systems, August 17-22, 2008, Búzios, Brazil.

422. August 11, 2008
"Point Contact Andreev Reflection Spectroscopy of the Heavy-Fermion Superconductor $CeCoIn_5$" (given by Wan Kyu Park) The 25th International Conference on Low-Temperature Physics (LT-25), August 6-13, 2008, Amsterdam, NL

423. August 8, 2008
"Point-Contact Spectroscopy of Fe-based Superconductors FeSe and (Ba,K)Fe_2As_2" (given by Wan Kyu Park) at the Special Romp Session on the Fe-Pnictide Superconductors, The 25th International Conference on Low-Temperature Physics, August 6-13, Amsterdam, NL.

424. May 27, 2008
"Point Contact Andreev Reflection Tunneling Spectroscopy (PCARTS) of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$", Quantum Physics Seminar, Cavendish Laboratory, Cambridge University, Cambridge, UK.

425. May 13, 2008
"Transforming Science, Policy, and the Power Grid with High Temperature Superconductivity", **Plenary** Talk, Conference on Complex Systems, May 12 - 15, 2008, University of Illinois at Urbana-Champaign, Urbana, Il, USA.

426. March 13, 2008
"She's a Physicist!?", Forum on International Physics, March Meeting of the American Physical Society, March 9-13, 2008, New Orleans, LA.

427. March 12, 2008
"Transforming Science, Policy, and the Power Grid with High Temperature Superconductivity", Lunch with the Experts, March Meeting of the American Physical Society, March 9-13, 2008, New Orleans, LA.

428. March 3, 2008
"Point Contact Andreev Reflection Tunneling Spectroscopy (PCARTS) of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$", Condensed Matter Physics Seminar, Department of Physics, University of California at Berkeley, Berkeley, CA.

429. February 26, 2008
Panelist, "Do's and Don'ts and Lessons Learned", Workshop on Grant Writing: Steps and

Strategies for Successful Proposals, sponsored by the National Center for Supercomputing Applications (NCSA), Beckmann Institute, University of Illinois at Urbana-Champaign

430. February 18, 2008
"How Nuclear Weapons Work", General Lecture for the Dial Club, a Faculty Club with members from across campus at the University of Illinois at Urbana-Champaign.

431. December 3, 2007
"High-Temperature Superconductors: Playgrounds for Broken Symmetries", Colloquium, Center for Integrated Nanotechnologies, University of Illinois at Urbana-Champaign, Urbana, IL.

432. September 10, 2007
"Andreev Reflection at Novel Superconducting Interfaces", Gordon Conference on Superconductivity, September 9-14, 2007 Les Diablerets, Switzerland.

433. August 4, 2007
"Tunneling and Point Contact Andreev Reflection Spectroscopy of Pure and Cd-doped $CeCoIn_5$", ICAM/I2CAM Workshop: 1-1-5 Materials: The Rosetta Stone for the Kondo Lattice, August 3-5, 2007, Aspen, CO.

434. May 18, 2007
"Planar Quasiparticle Tunneling and Point Contact Andreev Reflection Spectroscopies for Measurement of Broken Symmetries in Unconventional Superconductors", Department of Physics, Peking University, Beijing, China.

435. May 17, 2007
"Andreev Reflection Spectroscopy of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$: Detecting Order Parameter Symmetry and Competing Phases", Physics Seminar, Chinese Academy of Sciences, Beijing, China.

436. May 17, 2007
"High-Temperature Superconductors: Playgrounds for Broken Symmetries", Zhong Guan Cun Forum on Condensed Matter Physics, Chinese Academy of Sciences, Beijing, China.

437. May 14, 2007
"Point Contact Andreev Reflection Spectroscopy of Heavy Fermion Systems", The International Conference on Strongly Correlated Electron Systems (SCES-07). May 13-18, 2007 Houston, TX.

438. May 13, 2007
"High Temperature Superconductors, from Broken Symmetries to Cell Phones", **Public lectures to the Houston media** with Paul Chu and Frank Steglich, just before the International Conference on Strongly Correlated Electron Systems (SCES-07). May 13-18, 2007 Houston, TX.

439. April 7, 2007
"High Temperature Superconductors: Playgrounds for Broken Symmetries", Colloquium, Department of Physics, Tufts University, Medford, MA.

440. April 6, 2007
"High Temperature Superconductors: From Broken Symmetries to Cell Phones", **Kathryn McCarthy Public Lecture**, Tufts University, Medford, MA.

441. March 12-14, 2007
Lecturer (two lectures) at the I2CAM/FAPERJ Spring School on Emergent Matter, "New Phenomena in Highly Correlated Quantum Matter", 11-17 March, 2007, Rio de Janeiro, Brazil.

442. March 5, 2007
"High-T_c¬ at Bellcore", Special session commemorating the 20th anniversary of the discovery of

high-temperature superconductivity and the 20th anniversary of the March Meeting "Woodstock" which occurred in March of 1987, March Meeting of the American Physical Society, March 4-9, 2007, Denver, CO.

443. February 5, 2007
"Unconventional Superconductors: Measuring Broken Symmetries", Colloquium, Department of Physics, North Carolina State University, Raleigh, NC.

444. January 23, 2007
"High Temperature Superconductors: Playgrounds for Broken Symmetries", CMS (condensed matter sciences) Distinguished Lecturer, Brookhaven National Laboratory, Upton NY.

445. November 16, 2006
"High Temperature Superconductors: Playgrounds for Broken Symmetries", Physics Colloquium, Michigan State University, East Lansing, MI.

446. November 15, 2006
"Andreev Reflection Spectroscopy of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$: Detecting Order Parameter Symmetry and Competing Phases", Condensed Matter Physics Seminar, Michigan State University, East Lansing, MI.

447. November 11, 2006
"Asymmetry in Point Contact Conductance Spectra: Au/$CeCoIn_5$", ICAM Annual Meeting, November 9-12, 2006, Santa Fe, NM.

448. November 9, 2006
"Planar Tunneling and Point Contact Spectroscopy of Unconventional Superconductors", Physics Colloquium, Penn State University, State College, PA.

449. September 20, 2006
"Andreev Reflection Spectroscopy of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$: Detecting Order Parameter Symmetry and Competing Phase", Cavendish Laboratory and Trinity College, Cambridge University, Cambridge, UK.

450. August 29, 2006
"Andreev Reflection Spectroscopy of the Pure and Cd-doped Heavy Fermion Superconductor $CeCoIn_5$: Detecting Order Parameter Symmetry and Competing Phases", International Workshop on Mesoscopic Superconductivity and Magnetism, August 28 – September 1, 2006, Chicago, IL.

451. July 3, 2006
"Point Contact Spectroscopy of Pure and Cd-doped $CeCoIn_5$: Andreev Reflection at the Heavy-Fermion Superconductor Interface and Competing Phases", Tenth Franco-American Conference on Complex Oxides, July 3-4, 2006, Caen, FR.

452. June 1-2, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) given as a Phi-Beta-Kappa Visiting Scholar, University of California at Irvine, Irvine, CA.

453. May 30, 2006
"Andreev Reflection at the Unconventional Superconductor / Normal-Metal Interface: Point Contact Spectroscopy of the Heavy Fermion Superconductor $CeCoIn_5$", Seminar, Materials Science Division, Center for Nanoscale Applications, Argonne National Laboratory, Argonne, IL.

454. May 21-22, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) lectures given as a Phi-Beta-Kappa Visiting Scholar, Lawrence University, Appleton, WI.

455. May 18, 2006
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", Colloquium, Department of Physics, Trinity College, University of Dublin, Dublin, Ireland.

456. May 8, 2006
"The Effect of Physical Structure on Electronic Structure in Conventional and Unconventional Superconductors", DoE-BES Workshop on Basic Research Needs for Superconductivity, May 8-11, 2006, Washington, DC. Also was Sub-Panel Chair of "Thermodynamics and Magnetism"

457. April 24, 2006
"Conversion Under the Influence (of Electrons in Superconductors), Dial Club Guest Night **Public Lecture**, University of Illinois at Urbana-Champaign.

458. April 3-4, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) given as a Phi-Beta-Kappa Visiting Scholar, Randolph-Macon University, Lynchburg, VA.

459. March 20-21, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) given as a Phi-Beta-Kappa Visiting Scholar, Florida State University, Tallahassee, FL.

460. March 6-7, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) lectures given as a Phi-Beta-Kappa Visiting Scholar, University of Oklahoma, Norman, OK.

461. February 20-22, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) given as a Phi-Beta-Kappa Visiting Scholar, Wittenberg University, Springfield, OH.

462. February 9-10, 2006
Technical, General and **Public lectures** plus classroom teaching (3-5 presentations) given as a Phi-Beta Kappa Visiting Scholar, Davidson College, Davidson, North Carolina.

463. January 3, 2006
"High-Temperature Superconductors: Playgrounds for Broken Symmetries", General Physics Colloquium, National Taiwan University, Taipei, Taiwan.

464. January 1, 2006
"High-Temperature Superconductivity: From Broken Symmetries to Cell Phones", **Plenary** talk at *the International Physics Young Ambassador Symposium*, December 31, 2005 - January 4, 2006, Taipei, Taiwan. This was in celebration of Einstein's miracle year. A "Physics Talent Search" (http://www.wyp2005.at/glob2-talent.htm) ranged over many countries for several months to identify physics-talented girls and boys (Junior High and High School) and culminated at this meeting.

465. November 22, 2005
"Andreev Reflection at the Normal-Metal / Heavy-Fermion Superconductor Interface: Point Contact Spectroscopy of $CeCoIn_5$", Condensed Matter Physics Seminar as Phi-Beta-Kappa Visiting Scholar, University of Notre Dame, Notre Dame, IN.

466. November 22, 2005
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", **Public Lecture** as a Phi-Beta Kappa Visiting Scholar, University of Notre Dame, Notre Dame, IN.

467. November 21, 2005
"Unconventional Superconductors: Playgrounds for Broken Symmetries", Physics Colloquium as Phi-Beta-Kappa Visiting Scholar, University of Notre Dame, Notre Dame, IN.

468. November 12, 2005
"Andreev Reflection at the Normal-Metal / Heavy-Fermion Superconductor Interface: Point Contact Spectroscopy of $CeCoIn_5$", ICAM Annual Meeting, November 8-13, 2005, Santa Fe, NM.

469. October 20, 2005
"Future Directions in the Physics of Strongly Correlated Electron Systems". Institute of Physics (IoP), London, UK.

470. October 5, 2005
"Unconventional Superconductors: Playgrounds for Broken Symmetries", Department of Physics **1st Distinguished Alumnus Lecture, Public Lecture** given at the Wexner Center for the Performing Arts, The Ohio State University, Columbus, Ohio.

471. August 13, 2005
"Studies of the Zero-Bias Conductance Peak (ZBCP) in Thin-Film Superconducting $YBa_2Cu_3O_7$ Planar Tunnel Junctions: Detection and Modeling of ZBCP Splittings and Non-Splittings", The 24th International Conference on Low Temperature Physics (LT-24), August 10-17, 2005, Orlando, FL.

472. August 2, 2005
"Suppressed Andreev Reflection at the Normal-Metal / Heavy-Fermion Superconductor $CeCoIn_5$ Interface", Conference on Strongly-Correlated Electron Materials: Physics and Nanoengineering, July 31 - August 4, 2005, San Diego, CA (given by W.K. Park).

473. July 2005
"Point Contact Spectroscopy of $CeCoIn_5$: Andreev Reflection Studies of the Normal¬-Metal / Heavy-Fermion Superconductor Interface", International Conference on Strongly Correlated Electron Systems, July 26 – 30, Vienna, Austria.

474. June 10, 2005
"Andreev Reflection at the $CeCoIn_5$ Heavy Fermion Superconductor Interface", Workshop on The Possibility of Room Temperature Superconductivity & Related Topics, June 10-11, University of Notre Dame, Notre Dame, IN.

475. June 8. 2005
"Measuring Broken Symmetries in Unconventional Superconductors with Planar Tunneling and Point Contact Spectroscopies", REU Lunch-time talk for incoming REU students, Department of Physics, University of Illinois at Urbana, Champaign, Urbana, IL.

476. May 25, 2005
"High-Temperature Superconductors: Playgrounds for Broke Symmetries", **Plenary** Talk, Second International IUPAP (International Union of Pure and Applied Physicists) Conference on Women in Physics, May 23 – 25, 2005, Rio de Janeiro, Brazil.

477. April 22, 2005
"Particle Conversion in Unconventional Superconductors: Tunneling to Andreev Reflection", Festschrift for Professor David B. Tanner, April 21-23, 2005, Gainesville, FL.

478. March 11, 2005
"Detecting Broken Symmetries in High-Temperature Superconductors with Planar Tunneling Spectroscopy", Colloquium, Department of Physics, Ohio University, Athens, OH.

479. February 20, 2005
"High-Temperature Superconductors: Playgrounds for Broken Symmetries", **Plenary** Talk in the Session "Frontiers of Physics for the 21st Century", Annual Meeting of the American Association for the Advancement of Science (AAAS), February 17-25, 2005, Washington, DC.

480. December 16, 2004
"Point Contact Spectroscopy of the Heavy-Fermion Superconductor $CeCoIn_5$", "Eighth Franco-American Workshop on Complex Oxides: "Strongly Correlated Fermions, Functional Materials and Their Interplay", December 16-17, 2004, ESPCI, Paris, FR.

481. November 12, 2004
"Point Contact Spectroscopy of the Heavy-Fermion Superconductor $CeCoIn_5$", Annual I2CAM (International Institute for Complex and Adaptive Matter), November 11-13, 2004, Santa Fe, NM.

482. September 22, 2004
"Point Contact Spectroscopy of the Heavy-Fermion Superconductor $CeCoIn_5$", Contributed Poster, and Discussion Leader, Gordon Research Conference on Superconductivity, September 19-23, Oxford, UK.

483. August 7, 2004
"Progress in Unconventional Superconductors: Playgrounds for Broken Symmetries", Frontiers in Condensed Matter (ICAM Symposium), August 5-8, 2004, Snowmass, CO.

484. June 24, 2004
"High-Temperature Superconductivity: From Broken Symmetries to Cell Phone", Seminaire General, Laboratoire PMC École Polytechnique, Palasiseau, FR.

485. June 21, 2004
"Detection and Control of Broken Symmetries with Andreev Bound-State Planar Tunneling Spectroscopy", Seminaire, Laboratoire de Physique des Solides, Université Paris Sud, Orsay, FR

486. June 14, 2004
"High-Temperature Superconductivity: From Broken Symmetries to Cell Phone", Seminaire General, Laboratoire de Physique des Solides, Université Paris Sud, Orsay, FR

487. June 13, 2004
"Detection and Control of Broken Symmetries with Andreev Bound-State Planar Tunneling Spectroscopy: Part I", Seminaire, Laboratoire de Physique des Solides, Université Paris Sud, Orsay, FR

488. June 2, 2004
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", REU presentation, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

489. April 23, 2004
"Detecting Broken Symmetries in High Temperature Superconductors with Planar Tunneling Spectroscopy", Colloquium, Department of Physics, The Ohio State University, Columbus, OH.

490. March 31, 2004
"Point Contact Spectroscopy of the Heavy Fermion Superconductor $CeCoIn_5$, and Effects of the

Tunneling Cone and Atomic Scale Disorder on Planar Tunneling Spectroscopic Measurements of Andreev Bound States in YBCO", T-division, Los Alamos National Laboratory, Los Alamos, NM.

491. March 20, 2004
"The Art of the Impossible: Balancing Physics and Family". Survival Skills Workshop, sponsored by the Committee on the Status of Women in Physics of the American Physical Society, March Meeting of the American Physical Society, March 20-26, 2004, Montreal, CANADA.

492. December 3, 2003
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Detecting Broken Symmetries", Colloquium, Department of Physics, Rice University, Houston, TX.

493. October 2, 2003
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Detecting Broken Symmetries", Colloquium, Department of Physics and Astronomy, University of South Carolina, Columbia, SC.

494. September 17, 2003
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", Physics Society, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

495. July 1, 2003
"Andreev Bound State Planar Tunneling Spectroscopy", Department of Physics ESPCI, Paris, FR.

496. June 14, 2003
"From Phonons and Photons to Electrons and Fermi Surfaces", at Festschrift for Professor Albert J. Sievers, "From DC to Daylight", June 14 – 15, 2003, Ithaca, NY.

497. June 4, 2003
"Characterization, Theory and Modeling across Multiple Length Scales" Center for Integrative Nanotechnologies (ICAM) Executive Board Meeting, Albuquerque, NM.

498. May 22, 2003
"Detection and Control of Broken Symmetries with Andreev Bound State Planar Tunneling Spectroscopy", M^2S -RIO : International Conference on the Materials and Mechanisms of Superconductivity, May 25 – 30, Rio de Janeiro, Brazil (contributed)

499. June 11, 2003
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", REU presentation, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

500. May 6, 2003
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", Dial Club, General Talk for Faculty, Urbana, IL.

501. April 22, 2003
"Detection and Control of Broken Symmetries with Andreev Bound State Planar Tunneling Spectroscopy", Seminar, Department of Physics, Boston College, Boston, MA.

502. April 21, 2003
"Detection and Control of Broken Symmetries with Andreev Bound State Planar Tunneling Spectroscopy", Seminar, Department of Physics, Boston University, Boston, MA.

503. April 7, 2003
"Detection and Control of Broken Symmetries with Andreev Bound State Planar Tunneling Spectroscopy", Seminar, Material Science Division, Argonne National Laboratory, Argonne, IL.

504. January 31, 2003
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Andreev Bound States and Broken Symmetries", Condensed Matter Physics Seminar, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

505. November 21, 2002
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, Department of Physics, Kent State University, Kent, OH.

506. November 12, 2002
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, Department of Physics, "The Ohio State University, Columbus, OH.

507. September 5, 2002
"Andreev Bound State Tunneling Spectroscopy of YBCO Thin Films and BSCCO Single Crystals", Sixth Franco-American Workshop on Functional Oxides, September 5-6, 2002, Caen, FR.

508. July 15, 2002
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Andreev Bound States and Broken Symmetries", Third US-Polish Workshop on Superconductivity and Magnetism of Advanced Materials, Poland July 14 – 19, 2002, Ladek Zdroj.

509. July 1, 2002
"Novel Superconductors and Realistic Theories", Invited Talk and Discussion Leader, Gordon Research Conference on Correlated Electron Systems, June 29 – July 3, Colby College, Waterville, ME.

510. April 22, 2002
"Detection of Broken Symmetries with Andreev Bound State Tunneling Spectroscopy" First International Workshop on the Symmetry in Macroscopic Quantum States- Quantitative Experiments and Theory -April 21-23, 2002 · Augsburg, Germany.

511. April 6, 2002
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Searching for the Mechanism", 2002 Department of Energy Workshop on High-Temperature Superconductors, April 5-8, 2002, San Diego, CA.

512. March 19, 2002
"And I'm a Materials Girl", Maria Goeppert-Mayer Award Winners Panel, March Meeting of the American Physical Society, March 18-22, 2002, Indianapolis, IN.

513. March 11, 2002
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Measuring Broken Symmetries", Seminar, Brockhouse Institute for Materials Research, McMaster University, Hamilton, ONT, Canada.

514. February 12, 2002
"Convergent Learning Through Divergent Teaching", University of Illinois at Urbana-Champaign 2002 Annual Faculty Retreat on Active Learning: "Teaching our Students to think in the Language of our Discipline", University of Illinois at Urbana, Champaign.

515. January 11, 2002
"High-Temperature Superconductivity: From Broken Symmetries to Cell Phones", General Talk, Women's Study Center, University of California at San Diego, San Diego, CA.

516. January 10, 2002
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, Department of Physics, University of California at San Diego, San Diego, CA.
517. November 23, 2001
"Planar Tunneling Spectroscopy of High-Temperature Superconductors: Measuring Broken Symmetries", Seminar, Department of Theoretical Physics -- ETH, Zürich, Switzerland.
518. November 12, 2001
"Passion with Process", **Keynote** Speaker for Phi Kappa Phi Initiation, University of Illinois, Urbana, IL.
519. September 10, 2001
"Spectroscopic Searches for Broken Time-Reversal Symmetry in High-Temperature Superconductors", Gordon Research Conference on Superconductivity, September 9-14, 2001, Queens College, Oxford, England.
520. August 20, 2001
"Platforms for Passion", New Student Convocation Address, University of Illinois at Urbana-Champaign, Urbana, IL.

521. July 19, 2001
"Spectroscopic Studies of Andreev Bound States with Planar Tunneling Spectroscopy and Grazing Incidence Polarized Neutron Scattering", Aspen workshop on Emergent Behavior in Correlated Electron Materials, July 1-30, 2000, Aspen, CO.
522. June 4, 2001
"Measurements of Broken Time-Reversal Symmetry in High-Temperature Superconductors with Andreev Bound State Tunneling and Other Spectroscopies", Seminar, Division of Basic Energy Sciences, Department of Energy, Germantown, MD.
523. May 25, 2001
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, University of Cambridge, Cavendish Laboratory, Cambridge, UK.
524. May 22, 2001
"Observation of Broken Time Reversal Symmetry with Andreev Bound State Tunneling Spectroscopy", Seminar, Blackett Laboratory, Imperial College, London SW7 2BW, UK.
525. April 19, 2001
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, Department of Physics, University of Chicago, Chicago, IL
526. March 20, 2001
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, Department of Physics and Astronomy, University of South Carolina, Columbia, SC.
527. February 27, 2001
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium, Department of Physics, Georgetown University, Georgetown, MD.
528. February 14, 2001
"Detecting Broken Symmetries in High-Temperature Superconductors", Colloquium: APS (Advanced Photon Source), Argonne National Laboratories.

529. January 29, 2001
"Measuring Broken Symmetries in Unconventional Superconductors", Colloquium, Department of Physics, University of California at Davis, Davis, CA.

530. January 10, 2001
"Spontaneously Broken-Time-Reversal Symmetry in Unconventional Superconducting Materials", at ICAM-DEM-01: Workshop on Designing Emergent Materials, sponsored by the Institute for Complex and Adaptive Materials, January 8 – 12, 2001, Santa Fe, NM.

531. November 30, 2000
"Direct Detection of Spontaneously Broken Time-Reversal Symmetry in the Near-Surface Region of Superconducting $YBa_2Cu_3O_{7-\delta}$ Thin Films", Institute for Theoretical Physics (ITP), Santa Barbara, CA.

532. November 19, 2000
"Professor M. V. Klein: Leader, Advisor and Mentor (i.e., Miles, the Maven and Mensch)" at Kleinfest: In honor of the Retirement of Professor Miles V. Klein, November 19-20, 2000, Urbana, IL.

533. September 25, 2000
"Quasiparticle Tunneling Spectroscopy of High-Temperature Superconductors: Effects of Broken Symmetries on Interfaces", **Keynote** Lecture at the Workshop on Interfaces in Grain Boundary in High-Temperature Superconductors, September, 25-26, 2000, Williamsburg, VA.

534. September 19, 2000
"Tunneling into High-Temperature Superconductors: Spectroscopy of Broken Symmetries", Seminar, Argonne National Laboratory, Argonne, IL.

535. August 19, 2000
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", NSF Educational Development Program for High-School Teachers, (audience consists of about 100 high-school teachers chosen from all over the US), Santa Barbara, CA.

536. August 15, 2000
"Planar Tunneling and ESR Measurement of T-Breaking", The Institute for Theoretical Physics (ITP), Workshop on High Temperature Superconductivity, August 14-18, 2000, Santa Barbara, CA.

537. July 17 - 21, 2000
"Tunneling Spectroscopy, Andreev Bound States and Broken Time-Reversal Symmetry", Series of lectures given for the NSF US Summer School on Condensed Matter Physics: "Introduction to Superconductivity: Fundamentals and Applications", July Boulder, CO .

538. June 2, 2000
"Tunneling and EPR Measurements of the Andreev Bound State of High-Temperature Superconductors: Spectroscopies of Unconventional States and Broken Time-Reversal Symmetry", Condensed Matter Physics Seminar, University of California, Irvine, Irvine, CA.

539. June 1, 2000
"Tunneling into High-Temperature Superconductors: Spectroscopy of Broken Symmetries", Colloquium, Department of Physics, University of California, Irvine, Irvine, CA.

540. May 4, 2000
"Tunneling and EPR as Spectroscopic Probes of Unconventional Superconductivity and Broken

Time-Reversal Symmetry", CNRS-STcS Workshop on High-Temperature Superconductivity, May 4-6, Paris, France.

541. April 3, 2000
"Andreev Bound State Tunneling and EPR Spectroscopy of High-Temperature Superconductors: Measurements of Anisotropy, Quasiparticle Scattering and Broken Time-Reversal Symmetry", Conference on Major Trends in Superconductivity for the New Millennium (MTSC-2000), March 31 – April 5, Klosters, Switzerland.

542. March 21, 2000
"Andreev Bound State Tunneling Spectroscopy on YBCO/Pb and YBCO/Cu Junctions", March Meeting of the American Physical Society, March 20-24, 2000, Minneapolis, MN.

543. February 22, 2000
"Tunneling Spectroscopy of the Andreev Bound State of YBCO: Measurements of Broken Time-Reversal Symmetry, Anisotropy and Quasiparticle Scattering". Sixth International Conference on the Materials and Mechanisms of Superconductivity and High-Temperature Superconductivity, M^2S-HTSC-VI, February 20-25, 2000, Houston, TX.

544. January 31, 2000
"Tunneling into High-Temperature Superconductors: Spectroscopy of Broken Symmetries", General Physics Colloquium, Cornell University, Ithaca, NY.

545. October 27, 1999
Observation of Broken Symmetries in High-Temperature Superconductors with Tunneling Spectroscopy", General Physics Colloquium, Boston University, Boston, MA.

546. September 24, 1999
"Tunneling in High-Temperature Superconductors: Spectroscopy of Broken Symmetries", General Physics Colloquium, University of Wisconsin at Madison, Madison, WI.

547. August 9, 1999
"Observation of Broken Time-Reversal Symmetry with Andreev Bound State Tunneling Spectroscopy", Twenty-Second International Conference on Low-Temperature Physics, LT-22, August 4-11, Helsinki, Finland.

548. July 27, 1999
"Tunneling into High-Temperature Superconductors: Exploring Forbidden Paths", CMM Invited Lecture Series, Center for Microanalysis of Materials, Seitz Materials Research Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL.

549. July 14, 1999
"Tunneling into High-Temperature Superconductors: Exploring Forbidden Paths" **Heinz R. Pagels Memorial Public Lecture,** 1999, Aspen Institute, Aspen, CO.

550. July 14, 1999
"Tunneling into High-Temperature Superconductors: Observation of Broken Time Reversal Symmetry", Seminar, Workshop on Unconventional Order in Metals, July 5 – August 1, 1999, Aspen Center for Physics, Aspen, CO.

551. June 23, 1999
"Andreev Bound State Spectroscopy: Detecting Broken Symmetries", Joint Sacs / CNRS Workshop on Materials and Physics of High-Temperature Superconductivity, June 23-24, 1999, Northwestern University, Evanston, IL.

552. June 8, 1999
"Tunneling into Andreev Bound States of YBCO: Spectroscopy of Unconventional States and Broken Time-Reversal Symmetry", Seminar, Department of Physics, University of Maryland, College Park, MD.

553. June 2, 1999
"Tunneling into High-Temperature Superconductors: Detecting Phase and Broken Time-Reversal Symmetry", Sugihara / Harris Symposium, June 1, 1999, Oregon State University, Corvallis, OR.

554. May 17, 1999
"Tunneling into High-Temperature Superconductors: Spectroscopy of Broken Symmetries", Condensed Matter Physics / Electrical Engineering Seminar, Princeton University, Princeton, NJ.

555. April 7, 1999
"Andreev Bound State Tunneling Spectroscopy of High-Temperature Superconductors", Colloquium, Department of Physics, McMaster University, Hamilton Ontario, Canada.

556. April 7, 1999
"Tunneling in High-Temperature Superconductors: Spectroscopy of Broken Symmetries", Colloquium, Department of Physics, McMaster University, Hamilton Ontario, Canada.

557. February 23, 1999
"Tunneling in High-Temperature Superconductors: Spectroscopy of Broken Symmetries", Colloquium, Department of Physics, Stony Brook, Stony Brook, NY.

558. February 8, 1999
"Career Paths of a Female Experimental Physicists: Growing from the Challenge", Panel discussion: Women in Math Science and Engineering (WIMSE), University of Illinois at Urbana-Champaign, Urbana, IL.

559. February 5, 1999
"Tunneling in High-Temperature Superconductors: Spectroscopy of Broken Symmetries", Colloquium, Department of Physics, University of Kentucky, Lexington, KY.

560. February 1, 1999
"Zero-Bias Tunneling Anomalies and Andreev Bound States", ONR Workshop on Interfaces to Superconductors, Jan. 31 – Feb. 2, 1999, Lake Isabella, CA.

561. January 25, 1999
"Tunneling Spectroscopy of High-Temperature Superconductors: Detecting Unconventional States and Broken Time-Reversal Symmetry", Condensed Matter Physics Seminar, Department of Physics, University of Florida at Gainesville, Gainesville, FL.

562. November 27, 1998
"Tunneling in High-Temperature Superconductors: Spectroscopy of Broken Symmetries" , Colloquium, Department of Physics, Simon Fraser University, Vancouver, BC, Canada.

563. November 26, 1998
"Tunneling in High-Temperature Superconductors: Spectroscopy of Broken Symmetries" , Colloquium, Department of Physics, University of British Columbia, Vancouver, BC, Canada.

564. November 26, 1998
"Tunneling into Andreev Bound States of $YBa_2Cu_3O_7$: Observation of Broken Time-Reversal Symmetry", Condensed Matter Physics Seminar, Department of Physics, University of British Columbia, Vancouver, BC, Canada.

565. November 10, 1998
"Tunneling Spectroscopy of High-Temperature Superconductors: Probing Broken Symmetries", Colloquium, University of Illinois Physics Society, Urbana, IL.

566. November 6, 1998
"High-Temperature Superconductivity: From Nobel Prizes to the Market Place", Natural Sciences Colloquium, Illinois Wesleyan University, Bloomington, IL.

567. October 24, 1998
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", Saturday Physics Honors Program Lecture, Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL.

568. October 13, 1998
"High-Temperature Superconductivity: From Broken Symmetries to Cell Phones", Colloquium, Department of Physics, Illinois State University, Normal, IL.

569. September 27, 1998
"Tunneling in $YBa_2Cu_3O_7$: Andreev Bound States and Broken Time Reversal Symmetry", First Euroconference on Anomalous Complex Superconductors ACS-I '98, September 26 - October 3, 1998, Crete, Greece.

570. August 10, 1998
"Materials Science Research: Views of a Materials Physicist", Argonne National Laboratory, Argonne, IL.

571. July 30, 1998
"Broken Time-Reversal Symmetry in High-Temperature Superconductors", Lecture at the Aspen Center for Physics Workshop on High-Temperature Superconductivity, July 6-August 9, 1998, Aspen, CO.

572. April 19, 1998
"High-Temperature Superconductors: From Broken Symmetries to Cell Phones", **Plenary** Talk at the 1998 Joint Meeting of the American Physical Society and the American Association for the Advancement of Physics Teachers (APS/AAPT-APR98), April 18-21, 1997; Columbus, OH.

573. April 15, 1998
"High-Temperature Superconductivity: From Nobel Prizes to the Market Place", Sigma-Pi Sigma Induction Ceremony, Ohio Section, University of Cincinnati, Cincinnati, OH.

574. February 23, 1998
"Tunneling Spectroscopy of High-Temperature Superconductors: Unconventional States and Broken Time-Reversal Symmetry", Physics Colloquium, Harvard University, Cambridge, MA.

575. February 9, 1998
"Tunneling Spectroscopy of High-Temperature Superconductors: Unconventional States and Broken Time-Reversal Symmetry", Physics Colloquium, Bryn Mawr College, Bryn Mawr, PA.

576. January 18, 1998
"High-Temperature Superconductors: Model Quantum Solids", NEDO (New Energy and Industrial Technology Development Organization of Japan) / UIPAP (International Union of Pure and Applied Physicists) Workshop on Quantum Fluids and Solids, January 17-18, 1998, East-West Center, Honolulu, HI.

577. December 11, 1997
"Tunneling Spectroscopy of High-Temperature Superconductors: Viewing Unconventional

States and Broken Time-Reversal Symmetry", Physics Colloquium, Wayne State University, Detroit, MI.

578. November 12, 1997
"Tunneling in High-Temperature Superconductors: Finding Treasures in Forbidden Paths", Lecture at the Center for Advanced Study, University of Illinois at Urbana-Champaign, Urbana, IL.

579. October 13, 1997
"Tunneling into Andreev Bound States of $YBa_2Cu_3O_7$: Observation of Broken Time-Reversal Symmetry", NSF Conference on The Advancing Frontiers of Condensed Matter Science, October 13-14, 1997, University of Pennsylvania, Philadelphia, PA.

580. September 17, 1997
"Tunneling into Andreev Bound States of $YBa_2Cu_3O_7$: Observation of Broken Time-Reversal Symmetry", 1997 Conference on Spectroscopies on Novel Superconductors (SNS'97), September 14-18, 1997, Cape Cod, MA.

581. May 22, 1997
"Tunneling as a Powerful Probe of Unconventional Superconductivity: Observation of Broken Time-Reversal Symmetry, and More!", Science and Technology Center For Superconductivity, Center-Wide Meeting, Argonne National Laboratory, Argonne, IL.

582. May 20, 1997
"Tunneling in High-Temperature Superconductors: Spectroscopy of Unconventional States", (Maria Goeppert-Mayer Award Lecture) , Colloquium, The Ohio State University, Columbus, OH.

583. May 13, 1997
"Tunneling Spectroscopy of High-Temperature Superconductors", (Maria Goeppert-Mayer Award Lecture) Physics and Chemistry Seminar, Kalamazoo College, Kalamazoo, MI.

584. May 12, 1997
"High-Temperature Superconductivity: From Nobel Prizes to the Market Place", (Maria Goeppert-Mayer Award Lecture) Jennifer Mills Lecture, Kalamazoo College, Kalamazoo, MI.

585. April 10, 1997
"Tunneling Spectroscopy of High-Temperature Superconductors: Observation of Surface-Induced Broken Time-Reversal Symmetry", Colloquium, University of Illinois at Urbana-Champaign, Urbana, IL.

586. March 27, 1997
"Tunneling Spectroscopy of Superconducting $Y_{1-x}Pr_xBa_2Cu_3O_7$ Thin Films", (Maria Goeppert-Mayer Award Lecture) , Colloquium, New Mexico Institute of Technology, Socorro, NM.

587. March 19, 1997
"Zero Bias Anomalies in High-Temperature Superconductors: Observation of Surface-Induced Broken Time-Reversal Symmetry in $YBa_2Cu_3O_7$ Tunnel Junctions", March Meeting of the American Physical Society, March 17-21, 1997, Kansas City, MO.

588. February 10, 1997
"High-Temperature Superconductors: Thin Films and Devices", Panel on Thin Films and Devices NSF/ONR Workshop, Feb. 9 - 12, 1997, Monterey, CA.

589. January 30, 1997
"Tunneling in High-Temperature Superconducting Thin Films: Spectroscopy of the $YBa_2Cu_3O_7$

Superconducting Order Parameter", Colloquium, Pennsylvania State University, College Station, PA.

590. January 17, 1997
"Tunneling Spectroscopy of Superconducting $Y_{1-x}Pr_xBa_2Cu_3O_7$ Thin Films", Gordon Conference on Superconductivity, Jan. 16-21, Ventura, CA.

591. January 16, 1997
"Raman Scattering as a Probe of the Superconducting Proximity Effect", Gordon Conference on Superconductivity, Jan. 16-21, Ventura, CA (invited poster & short talk).

592. January 9, 1997
"Tunneling Spectroscopy of High-Temperature Superconductors", (Maria Goeppert-Mayer Award Lecture) Colloquium, California Polytechnic Institute, San Luis Obispo, CA.

593. December 11, 1996
"Revolutions in Superconducting Materials", Talk for the Frontiers of Science Series, University of Florida, Gainesville, FL.

594. August 23, 1996
"Zero-Bias Tunneling Anomalies in High-T_c Cuprates",, Workshop on Tunneling Phenomena in High-Temperature Superconductors, Argonne National Laboratory, August 23-24, 1996, Argonne, IL.

595. August 12, 1996
"Raman Scattering as a Probe of the Superconducting Proximity Effect", The XXI International Conference on Low-Temperature Physics (LT21), August 8-14, 1996, Prague, Czech Republic.

596. July 24, 1996
"Tunneling Spectroscopy of Superconducting $Y_{1-x}Pr_xBa_2Cu_3O_7$ Thin Films",, Gordon Conference on Correlated Electrons, July 21-25, 1996, Plymouth State College, Plymouth, NH, (short talk and poster).

597. July 23, 1996
"Optical Detection of the Superconducting Proximity Effect: Raman Scattering on Nb/InAs", Gordon Conference on Correlated Electrons, July 21-25, 1996, Plymouth State College, Plymouth, NH, (short talk and poster).

598. January 30, 1996
"Optical Detection of the Superconducting Proximity Effect", SPIE International Symposium on Spectroscopic Studies of Superconductors, January 27 - February 2, 1996, San Jose, CA.

599. July 24, 1995
"Interfaces to High-Temperature Superconductors: Future directions", Lecturer at the Science and Technology Center for Superconductivity (STCS) Retreat, July 23-25, Findlay, IL.

600. July 13, 1995
"Josephson Junction Fabrication for High-Temperature Superconductors", Lecture at the Midwest Superconductivity Consortium (MISCON) Summer School on Josephson Junctions for High-Temperature Superconductors, July 13-14, Columbia, MO.

601. May 25, 1995
"Charge Transport Across Superconductor-Semiconductor and Superconductor-Metal Interface", Department of Energy, Germantown, MD.

602. March 2, 1995
"Charge Transport Across Superconductor-Semiconductor and Superconductor-Metal

Interface", Seminar at the Materials Research Laboratory, University of Illinois at Urbana-Champaign.

603. December 1, 1994
"Superconductive Tunneling and Proximity-Effects in $YBa_2Cu_3O_7$ Thin Films", Physics Colloquium, University of Toronto, Toronto, CANADA

604. November 30, 1994
"Superconductive Tunneling and Proximity-Effects in $YBa_2Cu_3O_7$ Thin Films", Physics Colloquium, McMaster University, Hamilton, Ontario, CANADA

605. November 29, 1994
Physics Today Round Table: National Press Building, Washington, DC.

606. November 3-4, 1994
National Academy of Sciences symposium on the Frontiers of Science, Beckman Center, Irvine, CA

607. September 23, 1994
"Superconductive Tunneling and Proximity-Effects: Dependence upon Crystallographic Orientation in $YBa_2Cu_3O_7$ Thin Films", Solid State Physics Seminar, Purdue University, West Lafayette, IN.

608. April 21, 1994
"Superconductive Tunneling and Proximity-Effects: Dependence upon Crystallographic Orientation in $YBa_2Cu_3O_7$ Thin Films", Physics Department Colloquium, Florida State University, Tallahassee, FL.

609. April 5, 1994
"Proximity Effects and Tunneling in $YBa_2Cu_3O_{7-\delta}$ / PrBa2Cu3O7 Layered Structures vs. Crystallographic Orientation", Spring Meeting of the Materials Research Society, April 4-8, San Francisco, CA.

610. March 22, 1994
"Doping, Tunneling and Proximity-Effects in High-Temperature Superconductors", Lecture for receipt of the Maria Goeppert-Mayer Award, March Meeting of the American Physical Society, March 22-25, Pittsburgh, PA.

611. March 11, 1993
"Tunneling, Proximity and Kondo Effects in Crystallographically Oriented $YBa_2Cu_3O_7$ Thin Films", Solid State Physics Seminar, The Ohio State University, Columbus, OH.

612. February 22, 1993
"Tunneling and Proximity effects in Crystallographically-Oriented $YBa_2Cu_3O_7$ Films", Departments of Physics and Chemistry Seminar, University of California at Riverside.

613. January 6, 1993
"Proximity effects in Nb on Compound-Semiconductor Heterostructures", Gordon Conference on Superconductivity, January 4-8, 1993, Oxnard, CA.

614. September 18, 1992
"Tunneling in Novel Materials: High-Temperature Superconductors and More", University of Illinois College of Engineering Advisory Board, Urbana, IL.

615. April 2, 1992
"Tunneling in $YBa_2Cu_3O_7$ Thin Films: Effects of Crystallographic Orientation", Solid State Physics Seminar, Department of physics, University of Cincinnati, Cincinnati, OH.

616. March 23, 1992
"Tunneling and Proximity Effects in Novel Materials", Joint Research Colloquium: Department of Physics / Materials Institute, Princeton University, NJ.

617. March 19, 1992
"Tunneling in $YBa_2Cu_3O_{7-\delta}$ Thin Films: Effects of Crystallographic Orientation", March Meeting of the American Physical Society, March 16-20, 1992, Indianapolis, IN.

618. February 20, 1992
"Superconductive Tunneling in $YBa_2Cu_3O_7$ Thin Films: Effects of Crystallographic Orientation", Solid State Physics Seminar, Department of Physics, University of Colorado, Boulder, CO.

619. February 7, 1992
"New Phenomena from Novel Materials: Importance of Growth Control and Characterization", Colloquium, Department of Materials Science and Engineering, M.I.T., Cambridge, MA.

620. January 23, 1992
"Superconductive Tunneling in $YBa_2Cu_3O_7$ Thin Films: Effects of Crystallographic Orientation", Solid State Physics Seminar, Dept. of Physics, University of North Carolina, Chapel Hill, NC.

621. January 22, 1992
"Tunneling, Josephson and Proximity Effects: Applications to High-Temperature Superconductors", General Physics colloquium, University of North Carolina, Chapel Hill, NC.

622. November 26, 1991
"Tunneling in $YBa_2Cu_3O_7$ Thin Films: Effects of Crystallographic Orientation", Solid State Physics Seminar, University of Illinois, Urbana, IL.

623. September 24, 1991
"Tunneling in $YBa_2Cu_3O_7$ Thin Films: Effects of Crystallographic Orientation", New York State Institute on Superconductivity 5^{th} Annual Convention, Sept. 24-16, Buffalo, NY.

624. September 10, 1991
"Tunneling, Proximity Effects in $YBa_2Cu_3O_7$ Thin Films: Effects of Crystallographic Orientation", Solid State Physics Seminar, Department of Physics, Cornell University, Ithaca, NY.

625. July 1, 1991
"Tunneling in High-T_c Cuprates", General Research Colloquium, Department of Physics, Kent State University, Kent, OH.

626. June 25, 1991
"Effects of Crystallographic Orientation on Superconductive Tunneling in $YBa_2Cu_3O_7$ Thin Films", High-T_c Applications Symposium, Drexel University, Philadelphia, PA.

627. June 12, 1991
"Tunneling vs. Magnetic Field and Crystallographic Orientation in $YBa_2Cu_3O_7$ Films", Gordon Conference, Condensed Matter Physics, Brewster Academy, Wolfeboro, NH, June 10-14.

628. May 23, 1991
"Superconductive Tunneling in High-T_c Thin Films: Dependence Upon Crystallographic Orientation", General Research Colloquium, Department of Physics, New York University, New York, NY.

629. May 9, 1991
"Superconductive Tunneling, Josephson Effects and Proximity Effects in $YBa_2Cu_3O_7$ Thin Films", General Research Colloquium, Department of Physics, University of Cincinnati, Cincinnati, OH.

630. May 8, 1991
"Superconductive Tunneling: Information from Forbidden Paths", University of Cincinnati Departments of Chemistry and Physics Lecture Series: "High-Temperature Superconductivity, Promise for the 1990's", Cincinnati, OH.

631. April 17, 1991
"Superconductive Tunneling in General and Relations to High-T_c Films in Particular", General Research Colloquium, Stockton College, NJ.

632. March 16, 1991
"Tunneling as a Function of Crystallographic Orientation in $YBa_2Cu_3O_7$ Superconducting Films", Workshop on Tunneling and Devices in High-T_c Superconductors, Science and Technology Center for Superconductivity, March 15-17 Argonne National Laboratory, Argonne, IL

633. February 28, 1991
"Tunneling in High-T_c Superconducting Films", Seminar, Departments of Physics and Engineering, Brown University, Providence, RI.

634. January 15, 1991
"Optimizing Tunneling and Josephson Effects via Growth Morphology in $YBa_2Cu_3O_7$ Films", Int'l Superconductor Applications Convention: SC GLOBAL 91, January 14-16, San Diego, CA

635. January 4, 1991
"Superconductive Tunneling in $YBa_2Cu_3O_7$ Thin Films: Dependence on Growth Morphology", University of Miami Workshop on Electronic Structure and Mechanisms for High-Temperature Superconductivity, January 3-9, Miami, FL.

636. August 27, 1990
"Superconductive Proximity-Effects in Nb on InGaAs-based Heterostructures", The 19th International Conference on Low-Temperature Physics (LT-19), Brighton, Sussex, UK

637. June 21, 1990
"Superconductivity: A Tutorial from Hg to High-T_c", Special Seminar/Class to Bellcore Technicians, Bellcore, Red Bank, NJ.

638. June 18, 1990
"Recent Advances in High-Temperature Superconductivity", General Research Colloquium to Laboratory of Operations Technology. Bellcore, Red Bank, NJ.

639. June 14, 1990
"Proximity and Josephson Effects in $YBa_2Cu_3O_7$/Metal Layered Films", Gordon Conference on Condensed Matter Physics, Brewster Academy, Wolfeboro, NH.

640. June 12, 1990
"Proximity-Effects in Nb/InGaAs SIN Junctions: Effects of Thinning the Schottky Barrier", Gordon Conference on Condensed Matter Physics, Brewster Academy, Wolfeboro, NH.

641. May 29, 1990
"Superconductive Tunneling, Proximity & Josephson Effects in High-Temperature Superconductors", Colloquium, Departments of Physics and Chemistry, Drexel University, Philadelphia, PA.

642. April 26, 1990
"Tunneling and Josephson Effects: Conventional Knowledge to High-T_c Superconductors", Seminar: Physics Department, Carnegie-Mellon University, Pittsburgh, PA.

643. April 19, 1990
"Superconductive Tunneling, Proximity- and Josephson-Effects in Novel Thin-Film Structures", Research Colloquium, Department of Physics, Polytechnic University, Brooklyn, NY.

644. April 19, 1990
"Tunneling, Josephson Effects and High T_c, Layered Thin-Film Structures", Solid State Physics Seminar, Department of Physics, Johns Hopkins University, Baltimore, MD.

645. February 16, 1990
"Tunneling and Josephson Effects with Relations to High-Temperature Superconductors", Colloquium, Department of Physics, Dartmouth University, Dartmouth, NH.

646. February 6, 1990
"Tunneling and Josephson Effects with Relations to High-Temperature Superconductors", Solid State Physics Seminar, Dept. of Physics, University of Pennsylvania, Philadelphia, PA.

647. December 1, 1989
"Proximity-Effect and Tunneling in YBCO/Metal layered Structures", Fall meeting of the Materials Research Society, Boston, MA.

648. October 31, 1989
"Sputter Deposition and Tunneling Measurements in High-T_c Films", Joint ETDL/Bellcore Workshop on High Temperature Superconductivity, Fort Monmouth, NJ.

649. August 22, 1989
"Tunneling and Proximity-Effects: Relations to Experiments on HTSC", NATO-Advanced Study Institute on Physics and Materials on High Temperature Superconductivity, Bad Windsheim, FRG.

650. June 26, 1989
"Studies of Proximity-Effect and Tunneling in YBCO/Metal Layered Films", Meeting on the Materials and Mechanisms of Superconductivity-High Temperature Superconductivity (MMS-HTSC), Stanford, CA (contributed).

651. June 28, 1989
"Proximity-Effect and Tunneling Studies of YBCO/Metal Layered Structures", Gordon Research Conference on Condensed Matter Physics – "Phenomenology of High-Temperature Superconductors", Brewster Academy, Wolfeboro, NH.

652. June 20, 1989
"Tunneling Studies of YBCO/Metal Layered Films", NJ Governor's Conference "Fundamental Issues in High-T_c Superconductivity", Princeton, NJ.

653. January 13, 1989
"Physical Properties" Superconducting Supercollider Group Colloquium, Lawrence Berkeley Labs, Berkeley, CA.

654. January 12, 1989
"Recent Magnetic and Structural Studies of the High-T_c Cuprates at Bellcore", SC-GLOBAL-89: International Superconductor Applications Conventions, San Francisco, CA.

655. December 9, 1988
"High-Temperature Superconductivity", Society for Industrial and Applied Mathematics (SIAM): Conference on Random Media and Composites, Leesburg, VA.

656. November 17, 1988
"Structural, Magnetic and Electronic Transport Properties of Substituted High-T_c Cuprates", Brookhaven National Laboratory, Brookhaven, NY.

657. November 1, 1988
"High-Temperature Superconductivity: What's All the Heat About?", AAAS Sponsored Science Seminars for Teachers Program, Boston, MA.

658. October 14, 1988
"Physical Properties of the Pure and Metal-Substituted High-T_c Cuprates", Solid State Physics Seminar, University of Illinois at Champaign-Urbana, Urbana, IL.

659. October 11, 1988
"Thick and Thin Film Processing of High-T_c Oxides at Bellcore", Meeting of the Electrochemical Society, Chicago, IL.

660. October 5, 1988
"Physical Properties of Chemically-Doped High-T_c Cuprates", Solid State Physics Seminar, Department of Physics, The City College of New York, NY.

661. July 11, 1988
"The Role of Bond Lengths in High-T_c Materials", DOE Information Meeting: High Transition Temperature Superconductors, Ames, IA.

662. June 7, 1988
"Physical Properties of Chemically-Doped High-T_c Oxide Superconductors", Seminar on Frontier Technology: Association for the Progress of New Chemistry, Shuzenji, Japan.

663. June 6, 1988
"Physical Properties of the Superconducting Compound Series $Bi_2Sr_2Ca_{n-1}Cu_nO_x$; n=1, 2 and 3", Departments of Physics and Industrial Chemistry, The University of Tokyo, Tokyo, Japan.

664. June 3, 1988
"Thick and Thin Film High-T_c Research at Bellcore", Workshop on Future Electron Devices, Miyagi-Zao, Japan.

665. May 11, 1988
"Recent Developments in High-Temperature Superconductivity", Bell of Pennsylvania; Brown bag University, College of Network, Philadelphia, PA.

666. April 21, 1988
"Oxygen Stoichiometry in Pure and Doped High-Temperature Superconductors", Symposium on High-Temperature Superconductors: Structure and Microstructure, Bad Nauheim, Germany.

667. April 13, 1988
"Physical Properties of Substituted High-Temperature superconductors", Physics Department, Steven's Institute of Technology, Hoboken, NJ.

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"High-Temperature Superconductivity: What's all the Heat About?", American Chemical Society, Monmouth College, West Long Branch, NJ.

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"Achieving Zero Resistance and Bulk Superconductivity above 100K in the BiSrCaCuO System", Panel, Meeting of the American Physical Society, March 21-25, New Orleans, LA.

670. March 21, 1988
"Doping of High-T_c Superconductors on the Cu-Sites", March Meeting of the American Physical Society, March 21-25, New Orleans, LA.

671. March 2, 1988
"Physical Properties of High-T_c Superconductors", Kernforschungszentrum Karlsruhe, Karlsruhe, Germany.

672. March 2, 1988
"Chemical Doping on the Cu-sites in High-T_c Superconductors", International Conference on Materials and Mechanisms of Superconductivity; High-Temperature Superconductivity, February 29-March 4, Interlaken, Switzerland.

673. February 8, 1988
"High-Temperature Superconductivity", Bellcore Division 22630 (ISDN) Seminar, Bellcore, Red Bank, NJ.

674. January 25, 1988
"Physics of High-T_c Superconductors: Status", Joint Bellcore and DuPont Seminar, Bellcore, Red Bank, NJ.

675. January 19, 1988
"Physical Properties of Chemically-Doped High-T_c Oxide Superconductors", Center for Materials Science, Los Alamos National Laboratory, Los Alamos, NM.

676. December 7, 1987
"Physical Properties of the Chemically-Doped High-T_c Superconductors", Joint US-USSR Academies, Conference on Condensed Matter Theory, Institute for Theoretical Physics, University of California at Santa Barbara.

677. December 2, 1987
"High-Temperature Superconductivity: A Scientific Revolution", Sigma-XI Society of Princeton, Princeton, NJ.

678. November 6, 1987
"Chemical Doping of High Temperature Superconductors", Meeting of the American Chemical Society, Southeast Section, Orlando, FL.

679. November 5, 1987
"The Effects of Chemical Doping on the Physical Properties of High T_c Superconductors", University of Florida, Department of Physics, Gainesville, FL.

680. October 30, 1987
"Plasma Oxidation and 3d Doping of High T_c Superconductors", Canadian Conf. on High Temperature Superconductivity, McMaster University, Hamilton, Ont.

681. October 30, 1987
"Chemical Doping of Oxide Superconductors", 35th Annual Meeting of the American Physical Society, Midwest Section, Notre Dame University.

682. October 19, 1987
"Physical Properties of the Chemically Doped High T_c Superconductors", MIT Physics/Industry Forum, MIT Physics Department, Cambridge, MA.

683. October 15, 1987
"Recent Developments in High T_c Superconductors". **Plenary** Lecture, Meeting of the American Physical Society Division of Nuclear Physics, New Brunswick, NJ.

684. September 26, 1987
"Some Experimental Facts to Consider of High T_c Superconductivity", The First RVB (Resonating Valence Bond) Workshop, Princeton University, Princeton, NJ.

685. September 9, 1987
"Physical Properties of the Chemically Doped Oxide Superconductors", Academica Sinica (Chinese Academy of Physics), Beijing, China, PR.

686. September 7, 1987
"Physical Properties of the Chemically Doped High T_c Perovskites", Peking University, Department of Physics, Beijing, China, PR.

687. September 2, 1987
"Order/Disorder Effects of Oxygen and 3d Metal Doping in Oxide Superconductors", Yamada Conference XVIII on Correlated Fermion Systems, Sendai, Japan.

688. August 31, 1987
"Chemical Doping Effects on High T_c Superconductors", Tsukuba University, Department of Physics, Tsukuba Science City, Japan.

689. August 30, 1987
"Chemical Doping of High T_c Materials", University of Tokyo, Department of Industrial Chemistry, Tokyo, Japan.

690. August 28, 1987
"Plasma Oxidation and Chemical-Doping of High T_c Superconductors", NTT: Nippon Telephone and Telegraph Co., Ibaraki, Japan.

691. August 27, 1987
"3d-Metal Doping and Plasma Oxidation of Oxide Superconductors", Hitachi Inc. Ltd., Tokyo, Japan.

692. August 21, 1987
"Oxygen and 3d-Metal Doping of High T_c Perovskites", The 18th International Conference on Low Temperature Physics (LT-18), Kyoto, Japan.

693. August 7, 1987
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"The Physical Properties of the Chemically-Doped High T_c Perovskites", Drexel International Conference on High-Temperature Superconductivity, Philadelphia, PA.

695. July 17, 1987
"High T_c Oxide Superconductors: Work at Bellcore", Harvard University, Department of Physics, Cambridge, MA.

696. June 24, 1987
"The Physical Properties of Chemically-Doped High T_c Copper-Oxide Superconductors", International Workshop on Novel Mechanisms of Superconductivity, Berkeley, CA.

697. June 23, 1987
"Proximity-Effect and Tunneling in Heavy-fermion/Nb Metallic Superlattices", International Workshop on Novel mechanisms of Superconductivity, Berkeley, CA.

698. June 17, 1987
"Physical Properties of Chemically-Doped High T_c Copper-Oxide Superconductors", International Conference on Cryogenic and Magnetic Materials (CMM), Chicago, IL.

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"Challenges in the New High-T_c Superconductors", National Science Council of the National Science Foundation, Washington, DC.

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"High-Temperature Superconductivity in Oxygen-Defect Perovskites", McGill University, Department of Physics, Montreal, Canada.

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"What's Hot in Superconductivity", Bellcore Division, 23400 Seminar, Red Bank, NJ.

702. April 16, 1987
"Superconducting and Magnetic Properties of Dopes-High-T_c Perovskites", New England Regional Conference on High Temperature Superconductivity, Boston University.

703. March 18, 1987
"T_c, Hc2 and Structure of Oxide Superconductors", American Physical Society, March Meeting, New York, NY.

704. February 18, 1987
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2. A. Akrap, D. Bordelon, S. Chatterjee, E. D. Dahlberg, R. P. Devaty, S. M. Frolov, C. Gould, L. H. Greene, S. Guchhait, J. J. Hamlin, B. M. Hunt, M. J. A. Jardine, M. Kayyalha, R. C. Kurchin, V. Kozii, H. F. Legg, I. I. Mazin, V. Mourik, A. B. Ozguler, J. Penuela-Parra, B. Seradjeh, B. Skinner K. F. Quader and J. P. Zwolak "Reproducibility in Condensed Matter Physics" (2025) https://doi.org/10.48550/arXiv.2501.18631 https://journals.aps.org/prb/abstract/10.1103/27h6-yghn

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3. Letter to the President on Future Opportunities for U.S. Science and Technology **Working Group Member**
4. Report on Recommendations for the Value of Social Sciences in Improving American Lives. **Working Group Member**
5. Vibrancy of Basic Research (unpublished)

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6. Report on Recommendations for Improving Groundwater Security in the United States. **Working Group Member**
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15. Report on Recommendations for A Transformational Effort on Patient Safety
16. Letter on Recommendations for Advancing Public Engagement with the Sciences
17. Report on Recommendations for the National Nanotechnology Initiative
18. Report on Recommendations for Supporting the U.S. Public Health Workforce
19. Report on Recommendations for Enhancing Prediction and Protecting Communities Against Extreme Weather Risk
20. Report on Recommendations for Modernizing Wildland Firefighting **Reports in 2022**
21. Report on Recommendations for Strengthening U.S. Biomanufacturing
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