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## EDUCATION

B.A. 1980 Coe College, Cedar Rapids, Iowa  
M.S. 1982 Michigan State University  
Ph.D. 1985 Michigan State University  
Thesis Title: The Atomic Masses of  $^{57}\text{Cu}$  and  $^{59}\text{Zn}$   
Thesis Advisor: Prof. Walter Benenson

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## APPOINTMENTS

- 2017 – present Scientific Director, FRIB
- 2015 – 2022 Director, National Superconducting Cyclotron Laboratory
- 2014 – 2015 Associate Director for Users, Facility for Rare Isotope Beams and National Superconducting Cyclotron Laboratory
- 2009 – 2014 Chief Scientist Facility for Rare Isotope Beams
- 2007-2009 Associate Director for Research National Superconducting Cyclotron Laboratory
- 2003 – present University Distinguished Professor Department of Physics and Astronomy and National Superconducting Cyclotron Laboratory
- 1999-2003 Associate Director for Nuclear Science of the National Superconducting Cyclotron Laboratory
- 1998-2003 Professor Department of Physics and National Superconducting Cyclotron Laboratory.
- 1995-1998 Associate Professor Department of Physics and National Superconducting Cyclotron Laboratory.

1991-1995 Assistant Professor Department of Physics and National Superconducting Cyclotron Laboratory

1990-1991 Staff Physicist National Superconducting Cyclotron Laboratory

1987 (Nov.) Visiting Scientist, GSI Darmstadt West Germany

1986-1989 Physicist National Superconducting Cyclotron Laboratory

1985-1986 Visiting Scientist, GSI, Darmstadt West Germany

1986 (Feb.) Visiting Scientist, University of Paris, Orsay France

1985 (Jan.-June) Specialist, National Superconducting Cyclotron Lab

1980-1985 Graduate Research Assistant, Michigan State University

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## 177 PUBLICATIONS IN SCIENTIFIC JOURNALS

1. Mass of  $^{59}\text{Zn}$ , Physical Review **C28** (1983) 1712, B. Sherrill, K. Beard, W. Benenson, B.A. Brown, E. Kashy, W.E. Ormand, H. Nann, J.J. Kehayias, A.D. Bacher, T.E. Ward.
2. Mass of  $^{57}\text{Cu}$ , Physical Review **C31** (1985) 875, B. Sherrill, K. Beard, W. Benenson, C. Bloch, B.A. Brown, E. Kashy, J.A. Nolen, A.D. Panagiotou, J. vanderPlicht, J.S. Winfield.
3. Excited State Production and Temperature Measurement in a Heavy Ion Reaction, Phys. Lett. **148B** (1984) 423, D.J. Morrissey, W. Benenson, E. Kashy, B. Sherrill, A.D. Panagiotou, R.A. Blue, R.M. Ronningen, J. vanderPlicht, H. Utsunomiya.
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5. Nuclear Temperatures in the Reaction of  $^{14}\text{N}$  with Ag at 35 MeV/nucleon, Phys. Rev. **C32** (1985) 877, D.J. Morrissey, W. Benenson, E. Kashy, C. Bloch, M. Lowe, B. Sherrill, R.A. Blue, R.M. Ronningen, H. Utsunomiya, I. Kelson.
6. Observation of High Energy Gamma Rays in Intermediate Energy Nucleus-Nucleus Collisions, Phys. Rev. **C32** (1985) 1111, K. Beard, W. Benenson, C. Bloch, E. Kashy, J. Stevenson, D.J. Morrissey, J. vanderPlicht, B. Sherrill, J.S. Winfield.

7. Subthreshold Negative Pions and Energetic Protons Produced at  $\theta = 90$  degrees CM in 246 MeV/nucleon  $^{139}\text{La} + ^{139}\text{La}$  Collisions, Phys. Lett. **171B** (1986) 37, G.F. Krebs, J.F. Gilot, P.N. Kirk, G. Claesson, J. Miller, H.G. Pugh, L.S. Schroeder, G. Roche, J. Vincente, K. Beard, W. Benenson, J. vanderPlicht, B. Sherrill, J.W. Harris.
8. Lifetime Measurements of Neutron-Rich Light isotopes:  $^{14}\text{Be}$  and  $^{17}\text{C}$ , Phys. Rev. Lett. **56** (1986) 34, M.S. Curtin, L.H. Harwood, J.A. Nolen, B. Sherrill, Z.Q. Xie, B.A. Brown.
9. An Ion Source with Storage Capability for Bunched Beam Release and Controlled Chemical Separation, Nucl. Instr. and Meth. **A247** (1986) 265, R. Kirchner, O. Klepper, D. Marx, G.E. Rathke, B. Sherrill.
10. A Method for the Uniform Irradiation of Large Targets, Nucl. Instr. and Methods **B26** (1987) 610, E. Kashy and B. Sherrill.
11. The Beta Decay of  $^{48}\text{Mn}$ : Gamow-Teller Quenching in fp-shell Nuclei, Nucl. Phys. **A467** (1987) 83, T. Sekine, J. Cerny, R. Kirchner, O. Klepper, V.T. Koslowsky, A. Plochocki, E. Roeckl, D. Schardt, B. Sherrill.
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14. Mass of  $^{39}\text{Sc}$ , Physical Review **C38** (1988) 737, M.F.Mohar, E.Adamides, W.Benenson, C.Bloch, B.A.Brown, J.Clayton, E.Kashy, M.Lowe, J.A.Nolen, Jr., W.E.Ormand, J.van der Plicht, B.Sherrill, J.Stevenson, J.S.Winfield.
15. Search for the exotic nucleus  $^{10}\text{He}$ ; Phy. Rev. **C37** (1988), 2220 J.Stevenson, B.A.Brown, Y.Chen, J.Clayton, E.Kashy, D.Mikolas, J.Nolen, M.Samuel, B.Sherrill, J.S.Winfield, Z.Q.Xie, R.E.Julies, W.A.Richter
16. Measurement of the Beta Decay Half-Life of  $^{17}\text{B}$ , M.Samuel, B.A.Brown, D.Mikolas, J.Nolen, B.Sherrill, J.Stevenson, J.S.Winfield, Z.Q.Xie, Phys. Rev. **C37** (1988) 1314.
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44. Momentum Distributions for  $^{12,14}\text{Be}$  Fragmentation, M.Zahar, M.Belbot, J.J.Kolata, K.Lamkin, R.Thompson, N.A.Orr, J.H.Kelley, R.A.Kryger, D.J.Morrissey, B.M.Sherrill, J.A.Winger, J.S.Winfield, A.H.Wuosmaa, Phys. Rev. **C48** (1993) R1484.
45. The Mass of  $^{11}\text{Li}$  from the  $^{14}\text{C}(^{11}\text{B}, ^{11}\text{Li})^{14}\text{O}$  Reaction, B.M. Young, W. Bensnson, M. Fauerbach, J.H. Kelly, R. Pfaff, B.M. Sherrill, M. Steiner and J.S. Winfield, Phys. Rev. Lett. **71** (1993) 4124.
46. Study of the  $\beta$ -delayed neutron decay of  $^{18}\text{N}$ , K.W.Scheller, J.Gorres, J.G.Ross, M.Wiescher, R.Harkewicz, D.J.Morrissey, B.M.Sherrill, M. Steiner, N.A.Orr, J.A.Winger, Phys. Rev. C **49** (1994) 46.
47. Low-lying structure of  $^{10}\text{Li}$  in the reaction  $^{11}\text{B}(^7\text{Li}, ^8\text{B})^{10}\text{Li}$ , B.M.Young, W.Benenson, J.H.Kelley, N.A.Orr, R.Pfaff, B.M.Sherrill, M.Steiner, M.Thoennessen, J.S.Winfield, J.A.Winger, S.J.Yennello, A.Zeller, Phys. Rev. C **49** (1994) 279.
48. Half-life measurements for  $^{61}\text{Ga}$ ,  $^{63}\text{Ge}$ , and  $^{65}\text{As}$  and their importance in the rp-process, J.A.Winger, D.P.Bazin, W.Benenson, G.M.Crawley, D.J.Morrissey, N.A.Orr, R.Pfaff, B.M.Sherrill, M.Steiner, M.Thoennessen, S.J.Yennello, B.M.Young, Phys. Rev. C **48** (1993) 3097.

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53. Study of the  $\beta$ -delayed Neutron Decay of  ${}^{17}\text{C}$  and  ${}^{18}\text{C}$ , K.W. Scheller, J. Goerres, S. Vouzoukas, M. Wiescher, B. Pfeiffer, K.-L. Kratz, D. Morrissey, B.M.Sherrill, M. Steiner, M. Hellstrom, and J.A. Winger, Nucl. Phys. A **582** (1995) 109.
54. Projectile-like fragment momentum distributions from  ${}^{86}\text{Kr}+\text{Al}$  at 70 MeV/nucleon, R. Pfaff, D.J. Morrissey, M. Fauerbach, M. Hellstrom, J.H. Kelley R.A. Kryger, B.M. Sherrill, M. Steiner, J.S. Winfield, S.J. Yennello, and B.M. Young, Phys. Rev. **C51** (1995) 1348.
55. Parallel Momentum Distributions as a Probe of Halo Wave Functions, J.H. Kelley, S.M. Austin, R.A. Kryger, D.J. Morrissey, N.A. Orr, B.M. Sherrill, M. Thoennessen, J.S. Winfield, J.A. Winger, and B.M Young, Phys. Rev. Lett. **74** (1995) 30.
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18. Studies of Exotic Nuclear Beams with the NSCL A1200, D.J. Morrissey and B.M. Sherrill, Nucl. Phys. **A538** (1992) 333c.
19. Nuclear Halos, printed in Physics News in 1992, B.M. Sherrill and G.F. Bertsch., Ed. P.F. Schewe (AIP: New York, 1992) p.66.
20. Studies of nuclei far from stability using radioactive beams at the NSCL, B.M. Sherrill et al., Inst. Phys. Conf. Ser. **Vol. 132** (IOP:Bristol, 1993) p. 891.
21. Nuclear Astrophysics from b-decay Spectroscopy of Exotic Nuclei, B.M. Sherrill, Proceedings of the Int. Conf. on the Future of Nuclear Spectroscopy, Crete, June 1993 (IPN Demokritos,Athens,1994) p 323.
22. Nuclear Structure and Reaction Studies with Radioactive Beams at the NSCL, B.M. Sherrill, **Advances in Nuclear Dynamics** (World Scientific, Singapore, 1994) p. 70.



23. Heavy Ion Coulomb Excitation and Gamma Decay Studies of the One and Two Phonon Giant Dipole Resonances in  $^{208}\text{Pb}$  and  $^{209}\text{Bi}$ , P.E. Mueller et al., Nucl. Phys. A569 (1994) 123c.
24. Nuclear Structure Studies Using Radioactive Beams, B.M. Sherrill, Nucl. Phys. A583 (1995) 725.
25. Production and Study of Heavy rp-process Nuclei with Fragmentation of Heavy Ions, Nucl. Phys. A621, 203c (1997).
26. Recent Radioactive Nuclear Ion Beam Program at the NSCL, Nucl. Phys. A616, 145c (1997).
27. Mass Measurements near  $A=100$ , W. Mittig et al., Nucl. Phys. A616, 329c (1997).
28. New Insights into Halo Nuclei, B.M. Sherrill, Proc. Of Conference on Neutron Rich Nuclei, Santa Bell Island, Nov. 1997 (World Scientific, Singapore).
29. Opportunities with in-flight separated beams, B.M. Sherrill, Proc. Of Radioactive Nuclear Beams V, to be published in Nucl. Phys. A
30. The nature of halo nuclei, B.M. Sherrill, Nucl. Phys. A 685 (2001) 134c
31. Single-neutron knockout reactions: The test case  $^{15}\text{C}$  and the single particle structure of  $^{16,17,19}\text{C}$ ; V. Madelana et al., Nucl. Phys. A (2001) 332c.
32. Excitation of the isovector giant quadrupole resonance in Pb-208 by Coulomb inelastic scattering; Varner RL, Beene JR, Chartier M, Liang JF, Shapira D, Bazin D, Blank B, Sherrill B, Thoennessen M, DeYoung PA, Peaslee GF, NUCLEAR PHYSICS A 687 (1-2): 140C-145C APR 23 2001
33. Scientific opportunities with in-flight separated beams, Sherrill BA; NUCLEAR PHYSICS A 701 (2002) 422C.
34. Scientific opportunities with the NSCL coupled cyclotron facility, Sherrill BM; Prog. Theor. Phys. Supp. 146 (2002) 60-69.
35. Two-proton knockout on neutron-rich nuclei; Bazin D, Brown BA, Campbell CM, Church JA, Dinca DC, Enders J, Gade A, Glasmacher T, Hansen PG, Mueller WF, Olliver H, Perry BC, Sherrill BM, Terry JR, Tostevin JA, Nucl. Phys. A 746: 173c.
36. Chemical evolution of the universe and the role of radioactive nuclear beams, Sherrill BM, Nuclear Physics A 751 (2004) 494c.
37. Designer Atomic Nuclei an Emerging Tool for Science, Sherrill BM, Journal of Physics: Conference Series 302 (2011) 012049.

38. Future Opportunities at the Facility for Rare Isotope Beams, Bradley M Sherrill, International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics (CGS16), Shanghai, China, Edited by Sun, Yang; EPJ Web of Conferences, Volume 178, id.01001 (2016).

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## CONFERENCE PROCEEDING EDITED

1. Proceedings of the International Symposium on Heavy Ion Research with Magnetic Spectrographs, Eds. N. Anantaraman and B.M. Sherrill, NSCL Report MSUCL-685.
2. Proceedings of the S800 Workshop on Focal Plane Detectors, Eds. J.L. Bartlett and B.M. Sherrill, NSCL report MSUCL-877.
3. ENAM98: Proceedings of the International Conference of Exotic Nuclei and Atomic Masses, Eds. B.M. Sherrill, D.J. Morrissey, C.N. Davids, AIP Conference Proceedings 455, 1998.

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## 113 INVITED TALKS

1. The Atomic Masses of  $^{57}\text{Cu}$  and  $^{59}\text{Zn}$ , American Physical Society Fall Nuclear Physics Divisional Meeting, Vancouver B.C., Sept. 1986.
2. Use of Multipole Magnetic Fields for Making Uniform Irradiation, Conf. on Application of Accelerators in Research and Industry, Denton Texas, Nov. 1988.
3. A Radioactive Beam Facility at the NSCL, Symposium on the 10th Anniversary of Fragmentation in the Study of Nuclei Far From Stability, Dourdan France, Dec. 1989.
4. Heavy Ion Fragment Separation, Workshop on Higher Order Effects in Accelerators and Beam Optics, East Lansing, Michigan, Oct. 1990.
5. The A1200 Mass Separator, Conf. on Applications of Accelerators in Research and Industry, Denton Texas, Nov. 1990.
6. Projectile-Fragmentation Based Radioactive Ion Beams, Second International Conference on Radioactive Nuclear Beams, Leuven Belgium, Aug. 1991.
7. The Evolution of Recoil Mass Separators, American Chemical Society Meeting, New York, August 1991.

8. The Design and First Operating Experience of the A1200, 12th International Conference on Electromagnetic Isotope Separators and Their Uses, Sendai Japan, September 1991.
9. Experiments using a  ${}^{11}\text{Li}$  Beam at the NSCL, American Chemical Society Meeting, San Francisco, March 1992.
10. Measurement of Half-Lives of Short-Lived Proton-Rich Nuclei, 180th Meeting of the American Astronomical Society, Columbus, Ohio, June 1992.
11. Studies of Nuclei at the limits of  $\beta$ -stability, 41th Gordon on Nuclear Chemistry, New London, NH, June 1992.
12. Studies of Nuclei-far-from-Stability using Radioactive Beams at Michigan State University, 6th International Conference on Nuclei far from Stability, Bernkastel-Kues, Germany, July 1992.
13. The Nature of Nuclear Halos, 1992 Annual Fall Meeting of the Division of Nuclear Physics, Santa Fe, NM, October 1992.
14. Nuclear Astrophysics from  $\beta$ -decay Studies of Nuclei far from Stability, Int. Conf. on the Future of Nuclear Spectroscopy, Crete, July 1993.
15. Overview of Operating Projectile Fragment Radioactive Beam Facilities, Amer. Chem. Soc., Summer 1993, Chicago.
16. The S800 Spectrometer, Int. Workshop on Radioactive Nuclear Beams Produced by Fragment-Separation Techniques, Varna, Bulgaria, October 1993.
17. Nuclear Structure and Reaction Studies using Radioactive Beams at the NSCL, 10th Winter Workshop on Nuclear Dynamics, Snowbird Utah, Jan. 1994.
18. Ground State Properties of Exotic Heavy Isotopes, Workshop on Nuclear Physics far off Stability, GSI Darmstadt Germany, Feb. 1994.
19. Nuclear Structure Studies Using Radioactive Beams, Int. Conf. on Nucleus-Nucleus Collisions V, Taormina Italy, June 1994.
20. Mapping the Wavefunction of Halo Nuclei, Nuclear Structure Gordon Conference, Colby Sawyer College New Hampshire, June 1995
21. Invited lectures on Particle Detection for Radioactive Beams, Euroschool on Exotic Beams, Leuven, Belgium Sept. 1995.
22. Mass Separators for Radioactive Beam Experiments, Workshop on experimental equipment for SPIRAL, Caen, France, Sept. 1995.

23. Prospects for the Production of Nuclei Far From Stability, Nuclear Structure under Extreme Conditions, Institute for Nuclear Theory, Seattle Oct. 1995.
24. Overview of the NSCL Radioactive Beam Program, Fourth International Conference on Radioactive Nuclear Beams, Omiya, Japan, June 1996.
25. Production and Study of Heavy rp-Process Nuclei with Fragmentation of Heavy Ions, International Conference on Nuclei in the Cosmos IV, South Bend, Indiana, July 1996.
26. Core Fragment Momentum Distributions and the Halo Wavefunction, Gull Lake Conference on Nuclei far from Stability, Gull Lake, Michigan, August 1996.
27. Overview of the Nature of Halo Nuclei, Fall Division of Nuclear Physics Meeting, Cambridge, MA, October 1996.
28. Structure of the Heavy Carbon Isotopes from Core Momentum Distributions, European Theory Workshop on Halo Nuclei, Trento, Italy, October 1996.
29. Radioactive Beam Science with High Energy Radioactive Beams, AAAS 97 General Meeting, Seattle WA, February 1997.
30. First Operation of the S800 Spectrograph, American Chemical Society Spring 97 Meeting, April 1997.
31. Studies of Nuclear Halos with the S800, Nuclear Chemistry Gordon Conference, New London NH, June 1997.
32. Reaction Studies with Radioactive Ion Beams, Workshop on the next generation ISOL facility, Columbus Ohio, July 1997.
33. New Insights into Halo Nuclei, Int. Conf. On Neutron Rich Nuclei, Santa Bell Island, Florida, November 1997.
34. Wavefunction mapping with neutron knockout reactions, Workshop in Physics with GRETA, Berkeley CA, Feb. 1998.
35. Nuclear Wave functions from high-energy knock-out reactions, Workshop on Next Generation Fragmentation Facilities, GSI Darmstadt, Dec. 1998.
36. Spectroscopic Factor Measurements in Nuclei Far From Stability, Nuclear Shell Model, Trento, Italy, June 1999.
37. Inverse Kinematic Knock-out Reaction Studies of Neutron Rich Nuclei, International Conference on Fission and Neutron Rich Nuclei, St. Andrews Scotland, July 1999.

38. Recoil Separators for Nuclear Science, American Chemical Society Meeting, San Francisco, March 2000.
39. Scientific Opportunities with Fast Radioactive Nuclear Beams, Int. Conf. On Radioactive Nuclear Beams V, Divon, France, April 2000.
40. The Status and Science of the NSCL Coupled Cyclotron Project, American Physical Society Meeting, Long Beach CA, May 2000.
41. The Rare Isotope Accelerator Project, Nuclear Chemistry Gordon Conference, Colby-Sawyer College, June 2000.
42. The Nature of Halo Nuclei, Int. Conf. On Nucleus-Nucleus Collisions, Strasburg, France, July 2000.
43. Methods for Producing Radioactive Nuclear Beams, Workshop on Future Directions in Nuclear Physics, Darmstadt, Germany, July 2000.
44. Nuclear Structure Studies with RIA, RIA 2000 Workshop, Durham NC, July 2000.
45. Physics of RIA:  $E > 100$  MeV/u, Division of Nuclear Physics Fall Meeting, Williamsburg VA, October 2000.
46. Radioactive Beams Produced by Projectile Fragmentation, 16th International Conference on the Application of Accelerators in Research and Industry, CAARI, Denton TX, November 2000.
47. The Scientific Case for RIA, Division of Nuclear Physics Town Meeting on Nuclear Structure and Astrophysics, Oakland CA, November 2000.
48. What Are the Major Questions in Radioactive Ion Beam Science? International Conference on Radioactive Ion Beam Science 2000, Hamaya Japan, November 2000.
49. The Scientific Case for RIA, NSAC RIA Costing Subcommittee Meeting, Chicago, January, 2001.
50. Technical Aspects of a RIA Facility, NSAC Long Range Plan Working Group Meeting, Sante Fe NM, March 2001.
51. Experimental Methods for the Study of Exotic Nuclei, XIX Autumn School on Radioactive Beams, Lisbon Portugal, October, 2001.
52. Scientific opportunities with the NSCL coupled cyclotron facility, Yukawa International Seminar 2001 (YKIS01) Physics of Unstable Nuclei, Kyoto Japan, November 2001.

53. The RIA Concept, Int. Conf. On Electromagnetic Isotope Separators (EMIS-14), Vancouver Island, May 2002.
54. The scientific case for RIA and how we get from here to there, Int. Conference on Mapping the Triangle, Jackson Hole, May 2002.
55. The Scientific Case for the Rare Isotope Accelerator, Frontiers of Nuclear Science 2002, Berkeley CA, Aug. 2002.
56. Measurements of Astrophysical Nuclear Reaction Rates using Rare Isotope Beams, American Physical Society Spring Meeting 2003, Philadelphia PA, April 2003.
57. The Rare Isotope Accelerator Project, Particle Accelerator Conference, Portland OR, May 2003.
58. The Science of RIA, RIA R&D Workshop, Bethesda MD, Aug. 2003.
59. The Origin of the Elements, American Physical Society Division of Nuclear Physics Fall Meeting, Tucson AZ, Oct. 2003.
60. Chemical Evolution of the Universe and the Role of Radioactive Nuclear Beams; Plenary Talk at the 2004 International Nuclear Physics Conference, Gotteborg Sweden, June 2004.
61. The Science of RIA, International Conference on Linear Accelerators LINAC04, Lubek, Germany, August 2004
62. The Future of Nuclear Physics; Symposium in Honor of Gregers Hansen, East Lansing, November, 2005
63. The Physics of Nuclei Studies at RIA; National Academy of Science RIA Review Committee Meeting, Irvine, February 2006
64. The International Context of Radioactive Ion Beams; Invited Lectures at the 2006 RIA Summer School; Oak Ridge, TN, August 2006.
65. Studies of Exotic Nuclei at the NSCL; Invited Lectures at the Center For Nuclear Science International Summer School, RIKEN, Tokyo, August 2006
66. RIA and Nuclei far from stability; Invited Lecture at the 27<sup>th</sup> Erice International School of Nuclear Physics, Erice, Italy, September 2006.
67. The status of radioactive ion beam facilities in the USA; Invited Talk at the GENCO Users Meeting, Darmstadt Germany, March 2007.

68. Nuclear Astrophysics in the Laboratory, Invited talk at the D0 Workshop, East Lansing, Michigan, June 2007
69. A Rare Isotope Facility, Invited talk at the Nuclear Astrophysics 1957-2007 Conference, Pasadena CA, July 2007.
70. Promise and Preparations of FRIB for Nuclear Astrophysics, 2009 American Physical Society April Meeting, Denver CO, May 2009.
71. The Role of FRIB in the U.S. Isotopes Program, NSAC Meeting, Washington DC, February 2009.
72. Science with The Facility for Rare Isotope Beams, American Chemical Society Fall Meeting, Washington D.C., August 2009.
73. The Facility for Rare Isotope Beams, XXXIII Nuclear Physics Symposium, Cocoyoc, Mexico, January 2010.
74. Search for the Origins of the Elements and Their Isotopes, American Physical Society April Meeting, Washington D.C., February 2010.
75. Capabilities for Research at the NSCL in the pre-FRIB Era, 2010 Annual NUSTAR Meeting, Darmstadt, Germany, March 2010.
76. The Facility for Rare Isotope Beams: Its Science and its Capabilities; The 6th ANL/MSU/JINA/INT FRIB Theory Workshop, Argonne, IL, March 2010.
77. Overview of the Facility for Rare Isotope Beams: 2010 Symposium on Radiation Measurements and Applications, Ann Arbor, MI May 2010
78. Lapis Philosophorum: Using a modern equivalent to understand the stars: Festkolloquium for Prof H. Geissel, Darmstadt, Germany, June 2010.
79. Nuclear Physics with Radioactive Beam Facilities in North America: IUPAP WG.9 Symposium, Vancouver, Canada, July 2010.
80. Rare Isotope Production and the Facility for Rare Isotope Beams, Pan American Study Institute, Joao Pessoa, Brazil, August 2010.
81. Designer Atomic Nuclei an Emerging Tool for Science, International Symposium "Nanoscience and Quantum Physics 2011" (nanoPHYS'11), Tokyo, Japan, January 2011
82. Prospects for reaching the limits of nuclei with the Facility for Rare Isotope Beams, Waltzing to the Nuclear Limits, Hilton Head, NC, February 2011.

83. Search for the Neutron Drip Line, Spring American Chemical Society Meeting, Anaheim, CA March 2011
84. Designer Isotopes for Science and Society, Spring American Chemical Society Meeting, Anaheim, CA March 2011
85. New Facilities and Future Possibilities for Astrophysics – New Facilities and Future Possibilities for Astrophysics, Nuclear Physics in Astrophysics V, Eilat, Israel, April 2011
86. Accelerators and Beams, 10th Exotic Beam Summer School National Superconducting Cyclotron Laboratory, Michigan State University East Lansing, Michigan, July 25-30, 2011
87. Designer Atomic Nuclei an Emerging Tool for Science, US-Korea Conference on Science, Technology and Entrepreneurship (UKC 2011), Park City, UT August 2011
88. Rare Isotope Production Methods and Facilities, International Summer School on Subatomic Physics, Beijing, August 2011
89. New Avenues with Radioactive Ion Beams, Ecole Internationale Joliot Curie, Nice France, September 2011
90. The Second Century in the Study of Atomic Nuclei, Plenary speaker for the 5<sup>th</sup> Undergraduate Research Conference, Wayne State, November 2011.
91. The Science of the Facility for Rare Isotope Beams, The 1<sup>st</sup> International Symposium on the Science with KoRIA, Sejong City, Korea, December 2011
92. The Facility for Rare Isotope Beams, SPPIRAL2 Week, Caen France, January 2012.
93. Conference Summary and Perspectives, Direct Reactions with Radioactive Beams 2012 DREB 2012, Pisa, Italy, March 2012
94. Status and Capabilities of the Facility for Rare Isotope Beams, International Conference on Nucleus Nucleus Collisions, San Antonio Texas, May 2012.
95. Physics of Exotic Nuclear Beams, Photonuclear Reactions Gordon Conference, Holderness, NH, August 2012.
96. Status and Science of FRIB, Nuclear Structure 2012 Conference, Chicago, IL, August 2012.
97. Prospecting the Nuclear Landscape, Fifth International Conference on Fission and Properties of Neutron-Rich Nuclei, Sanibel Island, FL, November 2012.



98. From Nuclei to the Stars, Plenary Talk to the Australian Institute of Physics Annual Conference, Sydney Australia, December 2012.
99. From Isotopes to Stars, Plenary Talk to the Canadian Association of Physics, Montreal, Canada, May 2013.
100. Status and Science of the Facility for Rare Isotope Beams, X Latin American Symposium on Nuclear Physics, Montevideo, Uruguay, December 2013.
101. Overview of the FRIB Facility, JUSTIPEN/JUSIPEN Workshop of Radioactive Beams, RIKEN, Japan, December 2013.
102. FRIB Overview, Fundamental Symmetry Tests with Rare Isotopes, University of Massachusetts Amherst, Amherst MA, October 2014.
103. Harvesting Opportunities at FRIB, 3<sup>rd</sup> FRIB Harvesting Workshop, St. Louis MO, June 2014
104. Prospects for Exploring the Extremes of the Nuclear Landscape, Zakopane Conference on Nuclear Physics "Extremes of the Nuclear Landscape", Zakopane, Poland, September 2014.
105. Science and Status of FRIB, Conference on Science and Technology of FAIR at Europe, Worms Germany, October 2014.
106. Hadronic Physics and the Structure of Nucleons and Nuclei, Plenary talk at the Twelfth Conference on the Intersections of Particle and Nuclear Physics, CIPANP 2015, Vail Colorado, May 2015
107. Frontiers in Nuclear Physics, Lecture at the 2015 Exotic Beam Summer School, Tallahassee Florida, August 2015
108. Coupling of Experiment and Theory, FRIB Theory Alliance Kickoff Meeting, East Lansing March 2016
109. Future Prospects with the Facility for Rare Isotope Beams, Capture Gamma Ray Spectroscopy 2017, Shanghai, September 2017
110. Science with the Facility for Rare Isotope Beams, International Symposium on RI beam physics in the 21st century: 10th anniversary of RIBF, Tokyo December 2017
111. Chasing the Rarest Isotopes, APS April Meeting, Columbus Ohio, April 2018
112. Recent status of FRIB Project, International Conference on Nucleus Nucleus Collisions, Saitama Japan, December 2018

113. FRIB Rare Isotope Beam Characteristics, FRIB First Experiments: Proposal Preparation Workshop, on-line Zoom meeting; <https://indico.frib.msu.edu/event/20/>

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# NATIONAL/INTERNATIONAL COMMITTEES AND AWARDS

1. Member of Lawrence Livermore National Laboratory Physical and Life Sciences Division External Review Committee, 2021 - present
2. Member of International Committee on the Future of GANIL, 2020 – 2021
3. Member of the Ithemba Labs Scientific Advisory Committee, 2018 – present
4. Awarded US Patent, number 10269464, for Isotope tagging for workpiece authentication
5. Winner of the 2018 American Physical Society Bonner Prize
6. Member of the Nuclear Science Advisory Committee Isotope Long Range Plan Subcommittee, 2014-2015
7. Member of the RIKEN Program Advisory Committee 2013-2014, Chair 2015-2016
8. Winner of the Division of Nuclear Physics Distinguished Service Award 2014
9. Member of the ORNL Physical Science Directorate Scientific Advisory Board, 2012–2016
10. Member of the GANIL Scientific Council, 2012 – 2015
11. Member of the TUNL HIGS Program Advisory Committee 2008 - 2018
12. Advisory Committee for TRIUMF, ACOT, 2011 – 2018
13. Member of the Division of Nuclear Physics Dissertation Award Committee 2014-2015
14. RIKEN Radioactive Beam Laboratory Chief Scientist Review Committee, 2013
15. Member of the IUPAP/IUPAC Joint Commission to Validate the Claims for New Elements, 2011 - 2016
16. Assistant Executive Director for the SUCCESS PIPELINE, an NNSA supported Consortium for Education of students in Nuclear Science, 2011-2015
17. 2011 Named Fellow American Association for the Advancement of Science
18. Member of the Jefferson National Laboratory Program Advisory Committee 2011-2014

19. Chair DNP 2009 Fall Meeting
20. Search Committee for TRIUMF Scientific Director 2009-2010
21. Served on the 2009 NSF Committee of Visitors Panel
22. NISHINA Center International Advisory Committee 2006-2013
23. Member of the HRIBF PAC 2006-2011
24. Chair of the APS Committee on Meetings 2010
25. Member of the APS Committee on Meetings 2008-2010
26. Chair of the APS 2010 Bonner Prize Selection Committee; member 2009 committee
27. Member of the NSAC 2008 Performance Measures Subcommittee
28. Symposium Organizer on “Femtoscience: From Nuclei to Nuclear Medicine” at the 2007 AAAS Meeting in San Francisco
29. Chair of the APS April Meeting Program Committee 2007
30. Member of the APS Task Force on the April Meeting 2005-2006
31. Co-Chair of the APS April Meeting Program Committee 2006
32. Chair of the APS Division of the Nuclear Physics 2005
33. Chair Elect of the APS Division of Nuclear Physics 2004
34. Member of the RIA Users Steering Committee 2004-2008
35. Chair APS Division of Nuclear Physics Program Committee 2004
36. Vice Chair of the APS Division of Nuclear Physics 2003
37. Member of the GSI Scientific Board 2002–2008
38. Chair of the TRIUMF Scientific Advisory Committee, 2004-2006
39. Member of the TRIUMF Scientific Advisory Committee, 2001-2006
40. Member of the NSAC Priority Subcommittee 2005
41. Member of the NSAC Education Subcommittee 2003-2004
42. Member of the Canadian NSERC Subatomic Physics review panel, 2001-2004

43. Member of the Physical Review C Editorial Board 2001-2004
44. Member of the American Physical Society Division of Nuclear Physics Executive Committee 2001 - 2003
45. Member Nuclear Science Advisory Committee 2000-2004
46. Member of the NSAC Next Generation ISOL Task Force, 1998-2000
47. American Physical Society Fellow 1998-present
48. Member of RNB subcommittee of the OECD MEGA Science Forum.
49. Chair Oak Ridge HIRIBF Users Executive Committee 1999; Vice-chair 1998
50. Member of the Argonne National Lab ATLAS Program Advisory Committee 1997-2000
51. Co-organizer of the Second International Conference on Exotic Nuclei and Atomic Masses, ENAM98.
52. Michigan State University College of Natural Science Teacher-Scholar Award 1995
53. Program committee of the Nuclear Physics Division of the American Physical Society, 1993-1995.
54. Member of the North American Steering Committee for the IsoSpin Laboratory 1989-1996.
55. Awarded US Patent, Number 4,736,106, for "Method and Apparatus for Uniform Charged Particle Irradiation of a Surface"
56. 1985 Winner American Physical Society Dissertation Award in Nuclear Physics
57. Received the Haynes award for most outstanding graduating PhD student in 1985 (Michigan State University)
58. Richter Scholar (Coe College)
59. Phi Beta Kappa
60. Phi Beta Phi