Michael C.F. Wiescher

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Educational Record

Abitur:	Gymnasium Münchberg, Bayern,	1969
Vordiplom in Physics	Universität Münster, Physikalisches Institut,	1972
Diplom in Solid State Physics	Universität Münster, Physikalisches Institut,	1975
Ph.D. in Nuclear Physics (summa cum laude)	Universität Münster, Institut für Kernphysik,	1980

Present Positions

- Freimann Chair Professor of Physics
  University of Notre Dame
- Director of the Nuclear Science Laboratory, NSL
  University of Notre Dame, USA
- Adjunct Professor, Michigan State University, USA
- Concurrent Professor, University of Surrey, UK
- Heraeus Visiting Professor, Universität Frankfurt, Germany

Honors

Fellow of the American Physical Society,	1998
American Physical Society, Hans Bethe Prize of the DNP & DAP	2003
Presidential Award, University of Notre Dame,	2004
Fellow of the Center of Social Concerns, University of Notre Dame,	2005-2008
Fellow of the Reilly Center of Science, Technology, and Values, University of Notre Dame,	2006-
Edmond P. Joyce Award for Excellence in Undergraduate Teaching, University of Notre Dame,	2007
Humboldt-Forschungspreis (Humboldt Research Award), Alexander von Humboldt Stiftung, Bonn, Germany	2007

Faculty Fellow, John A. Kaneb Center for Teaching and Learning	2009-2010
Fellow of the American Association for the Advancement of Science AAAS	2010
Research Achievement Award, University of Notre Dame	2011
Heraeus Visiting Professor Award, University of Frankfurt	2017
Elected Scientific Member, Academiae Europaeae	2017
Laboratory Astrophysics Prize 2018, LAD Division of the AAS	2018

Professional Activities

Schools

o Invited Lectures at the International Summer School on Nuclear Astrophysics, Tianjin, P.R. China	August 1991
o Invited Lectures at the Lake Louise Winter School on Subatomic Physics, Lake Louise, Canada	February 1997
o Invited Lectures at the Mexican Summer School on Nuclear Astrophysics, Guanajato, Mexico	July 1997
o Invited Lecture at International School on Structure of Particles and Nuclei and their Interactions, Tashkent, Uzbekistan	October 1997
o Invited Lectures at Université Catholique de Louvain la Neuve, Louvain la Neuve, Belgium	June 1999
o Invited Lectures at UK Astrophysics School, University of Surrey and University of York	April 2001
o Invited Lecture at the XIX Autumn School on "New Perspectives with Nuclear Radioactivity," Lisbon, Portugal	October 2001
o Invited Lectures at the XI Jorge André Swieca Summer School "Nuclear Physics," São Paulo, Brazil	February 2003
o Invited Lectures at the Marie Curie Training Program for Nuclear Physics at the European Centre for Theoretical Studies in Nuclear Physics and Related Areas (ECT), Trento, Italy	September 2003
o Invited Lectures at the 16th Jyväskylä Summer School in Physics, Jyväskylä, Finland	July 2006
o Invited Lecture at the 4th Santa Tecla Summer School in Nuclear Astrophysics, Santa Tecla, Sicily, Italy	September 2007
o Invited Lectures at Workshop cum School on Nuclear Astrophysics, Kolkata, India	February 2008
o Invited Lecture at the National Nuclear Physics Summer School Michigan State University, East Lansing MI, USA	July 2009
o Invited Lectures at the WE-Heraeus Summer School on Nuclear Astrophysics in the Cosmos	July 2010
o Invited Lectures at the Scottish Summer School for Nuclear Physics St. Andrews University, St. Andrews, UK	August 2011
o Invited Lectures at the Romanian Summer School for Nuclear Physics, Siniai, Romania	August 2014
o Invited Lectures at the GSSI Institute, L'Aquila, Italy	October 2015
o Invited Lectures at the Shanghai Winterschool for Nuclear Astrophysics	December 2016
o Invited Lectures at the Russbach School for Nuclear Astrophysics	March 2018

- Invited Lectures at the Russbach School for Nuclear Astrophysics March 2019

National & International Research and Steering Committees

- National Steering Committee for a Radioactive Ion Beam Facility, 1990 – 2008
- National Steering Committee for a Nuclear Astrophysics Data Center, 1995 – present
- NuPECC Working Group on Nuclear and Particle Astrophysics, 1996 – 1998
- National Steering Committee on Opportunities in Nuclear Astrophysics, 1999 – present
- NSAC Long Range Plan Working Committee, 2001
- Site Selection Committee for a U.S. Underground National Facility, 2001
- National Steering Committee for the Radioactive Ion Accelerator RIA, 2001 – 2004
- RIA Theory Working Group, 2002 – 2004
- Topical Theory Working Group "Nuclear Astrophysics" (chair), 2003 – 2004
- Particle and Nuclear Astrophysics and Gravitation International Committee (PaNAGIC) of the International Union of Pure and Applied Physics (IUPAP), 2004 – 2007
- National Academy; Rare Isotope Science Assessment Committee, RISAC, 2005 - 2006
- National Research Council, Canada; Advisory Committee for TRIUMF, ACOT, 2005 – 2011
- NSAC Nuclear Physics Long Range Plan Writing Committee, 2007
- Planning Committee for a NASA Small Explorer SMEX Mission of an Advanced Compton Telescope, UC Berkeley, 2007 – 2008
- Wissenschaftlicher Rat (Academic Council) der Gesellschaft für Schwerionenforschung GSI, GmbH, Darmstadt, Germany, 2008 –2013
- Board of Physics and Astronomy, National Academies, 2009 –2011
- Co-Chair of Steering committee on Basic Research Directions on User Science at the National Ignition Facility 2010
- National Science Advisory Committee (NSAC) to DOE and NSF 2014-2016
- NSAC Nuclear Physics Long Range Plan Writing Committee, 2014-2015
- Scientific Advisory Committee for the construction of JingPing underground laboratory JUNA, China (chair) 2015-
- International Science Advisory Committee for Romanian Light Source ELI, Romania 2015-
- Scientific Advisory Committee for the NNSA SSAA Center of Excellence at Texas A&M University, 2018
- In-Depth Evaluation Panel for the Institute of Basic Science in Korea, 2019

National Research Steering Activities

- Presentation of the RIA Science case at DOE to Dr. R. Orbach, January 2003
- Presentation and Review of Nuclear Astrophysics with RIA for DOE site visit (Dr. R. Orbach) at ANL
- Presentation on the Science Case of RIA at OSTP to the Presidential Science Advisor Dr. Marburger, Nov. 2003
- Presentation on the relevance of RIA for Astronomy at OMB and OSTP, February 2004

- Presentation to the National Science Foundation (NSF) on the Science Case for an Accelerator Facility in the Deep Underground Laboratory, DUSEL, November 2006
- Presentation to the National Science Foundation (NSF) on the Science Case for the Deep Underground Accelerator Facility DIANA, February 2013

National & International Program and Facility Review Committees

- Long Range Planning Committee, TRIUMF Laboratory Vancouver, 1996 – 1997
- Director's Advisory Committee, Berkeley National Laboratory, 1996 – 1997
- NSAC Review Committee for DOE & NSF Low Energy Facilities, 2001 – 2002
- Member of Study Group for the "International Accelerator Facility for Beams of Ions and Antiprotons" of the German Wissenschaftsrat, 2001 – 2003
- NSAC Sub-Committee of Visitors to DOE, 2003
- NSAC Sub-Committee on Comparing the Rare Isotope Accelerator and the Gesellschaft for Schwerionenforschung (GSI) Facility, 2003 – 2004
- Review Panel of the Program of the Helmholtz Society (Germany) on "Physics of Hadrons and Nuclei," 2003 – 2004
- NSAC Sub-Subcommittee on Nuclear Science in the US 2012
- Nuclear Science Advisory Committee to DOE and NSF (NSAC), 2014 -2017

American Physical Society Committees

- DNP Executive Committee, 1999 – 2001
- DNP Webpage Committee (chair), 1999 – 2003
- Bethe Prize Committee, 2003
- Bonner Prize Committee, 2003 – 2005
- DNP Program Committee, 2006 – 2008
- AIP Committee on the Physics and Astronomy Classification Scheme, 2006

User Executive and Program Advisory Committees

- User Executive Committee, NSCL, Michigan State University, 1993 – 1996
- Program Advisory Committee, Atlas, Argonne National Laboratory, 1994 – 1996
- Experiment Evaluation Committee, TRIUMF Laboratory Vancouver, 1997 – 2001
- User Executive Committee, HRIBF, Oak Ridge National Laboratory, 1997 – 2000
- User Executive Committee, Atlas, Argonne National Laboratory, 1997 – 2001
- Working Group Astrophysics GSI, Darmstadt, 1997 – 1999
- Oak Ridge National Laboratory, Physics Division Advisory Committee, 1998 – 2001
- Program Advisory Committee, Oak Ridge HRIBF facility, 2000 – 2004
- Terascale Supernova Center, External Advisory Panel, 2001 – 2006
- Science Advisory Committee of the Department of Energy SciDAC Supernova Science Center of the University of California Santa Cruz, the University of Arizona, Lawrence Livermore National Laboratory, and the Los Alamos National Laboratory, 2002 – 2006

- Institute for Nuclear Theory (INT), Program Advisory Committee, 2003 – 2006
- Director's Advisory Committee, DOE Triangle University Nuclear Laboratory (TUNL), Duke University, 2004 - 2010
- Program Advisory Committee for Nuclear Structure and Nuclear Astrophysics for the International Facility for Antiproton and Ion Research (FAIR) at GSI, Darmstadt, Germany, 2004 - present
- Team Leader in the n-ToF collaboration at CERN, Geneva, Switzerland, 2004-2007
- User Executive Committee, RIA, 2005 –2009
- International Advisory Committee, HUSEP, 2006 – 2007
- Program Advisory Committee, RIKEN Tokyo, Japan, 2007
- NIF User Executive Committee 2011-2013
- Science Advisory Committee Sonderforschungsbereich SFB 634 Superconducting Darmstadt Linear Accelerator S-Dalinac, Darmstadt, Germany 2012-2014

Editorial and Scientific Review Activities

- Editorial board of
  - Physical Review C, 1997 – 2000
  - Dictionary of Physics, Stockton Press, 1997 – 2001
  - Nuclear Physics A, Elsevier Publishing House, 1998 – present
- Associate Editor Nuclear Physics A, 2000 – present
- Book Editions
  - Nuclei in the Cosmos, North-Holland, Amsterdam 1997
  - Nuclear Astrophysics, Elsevier, Amsterdam, 2006
- Reviewer for
  - European Journal of Physics
  - Nuclear Physics A
  - Physical Review C
  - Physical Review Letters
  - Astrophysical Journal
  - Zeitschrift für Physik
  - Journal of Physics G
  - Reviews of Modern Physics

Conference Program Advisory and Organizing Committees

- International Advisory Committee: 2nd Conference on Radioactive Beams, Louvain la Neuve, Belgium,1991
- International Advisory Committee: Gull Lake Conference, Gull Lake, MI, 1996

- Program Committee: 9th International Conference on Capture Gamma-Rays, 1996
- Chair of Organizing Committee: 4th Symposium on Nuclei in the Cosmos, Notre Dame, IN, USA,1996
- Coordinator Astrophysics Session: 6th Conference on the Intersections of Particle and Nuclear Physics, 1997
- Coordinator Astrophysics Session: International Conference on Nuclear Data for Science and Technology, Triest, Italy, 1997
- International Advisory Committee: 2nd Conference on Nuclear Physics in the Universe, Oak Ridge, TN, 1997
- Scientific Advisory Committee: 5th Conference on Nuclei in the Cosmos,Volos, Greece, 1998
- Organizing Committee: Applications of High Precision γ Spectroscopy, Notre Dame, IN, 1998
- Organizing Committee: NSF Town Meeting on Future of Nuclear Astrophysics, Notre Dame, IN, 1999
- International Advisory Committee: Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Taxco, Mexico, 1999 - 2003
- International Advisory Committee: 10th Conference on Capture Gamma Rays, Santa Fe, NM, 1999
- Scientific Advisory Committee: 6th Conference on Nuclei in the Cosmos, Arhus, Denmark, 2000
- Organizing Committee: 3rd Workshop on Frontiers in Nuclear Astrophysics, 2000
- Convener: Astrophysics Working Group at the RIH2000 Town Meeting, 2000
- Organizing Committee: DNP/DOE Town Meeting on the Future of Nuclear Structure and Nuclear Astrophysics, Oakland, CA, 2000
- Advisory Committee: XVII and XVIII International Nuclear Physics Divisional Conference "Nuclear Physics and Astrophysics," 2001, 2004
- Scientific Advisory Committee: 7th International Conference on "Nuclei in the Cosmos," Tokyo, Japan, 2002
- International Advisory Committee: 11th Conference on Capture Gamma Rays, Prague, Czech Republic, 2002
- Organizing Committee: Workshop on TRIUMF-TRAP, Vancouver, Canada, 2002
- Organizing Committee: Topical Workshop on "Nuclear Astrophysics at the Limits of Stability," DNP/APS fall meeting, East Lansing, MI, 2002
- International Advisory Committee: 3rd International Conference on "Fission and Properties of Neutron-Rich Nuclei," Sanibel Island, Florida, 2002
- Convener: Working Group on Solar Neutrinos and Stellar Nuclear Reactions International Workshop on "Neutrinos and Subterranean Science" NeSS2002, Washington, D.C., 2002
- Convener: Astrophysics Session at the LOWq-03 Workshop on Electromagnetic Nuclear Reactions at Low Momentum Transfer, Halifax, Nova Scotia, July, 2003
- Organizing Committee: Workshop on Underground Accelerators for Nuclear Astrophysics, Tucson, AZ, October, 2003
- Organizing Committee: Workshop on Nuclear Astrophysics, ECT Trento, Italy, May 24-28, 2004
- International Advisory Committee: 7th International Conference on "Nuclei in the Cosmos," TRIUMF, Vancouver, Canada, July 19-23, 2004

- International Advisory Committee: 4th International Conference on Exotic Nuclei and Atomic Masses (ENAM2004), Callaway Gardens in Pine Mountain, Georgia USA, September 12-16, 2004
- Organizer: R-Matrix School at Notre Dame, University of Notre Dame, USA, October 4-15, 2004
- International Advisory Committee: XXVIII Symposium on Nuclear Physics, Cocoyoc, Morelos, Mexico, January 4-7, 2005
- International Advisory Committee: International Conference on the Interface between Nuclear Structure, Astrophysics and Reactions (NUSTAR05), University of Surrey, Guildford, UK, January 5-8, 2005
- Organizing Committee: JINA r-Process Discussions, University of Notre Dame, USA, January 28-29, 2005
- Organizing Committee: Cosmology: Physics and Philosophical Perspectives, Center of Continuing Education, Notre Dame, USA, April 20, 2005
- Organizing Committee: The Workshop on Classical Novae and Type 1a Supernovae, Santa Barbara, CA, USA, May 20-21, 2005
- Organizing Committee: The Physics of the s-Process, Center for Physics, Aspen, Colorado, USA, May 29-June 12, 2005
- Organizer: The School on Tools and Toys in Nuclear Astrophysics, University of Notre Dame, IN, USA, June 20-July 1, 2005
- International Advisory Committee: ICNRP'05 – 5th International Conference on Nuclear and Radiation Physics, Almaty, Republic of Kazakhstan, September 26-29, 2005
- Local Organizing Committee: 12th Conference on Capture Gamma Rays, Notre Dame, IN, October, 2005
- Organizer: Lecture Series on "Perspectives on Nuclear Weapons and Warfare," Notre Dame, IN, August-December 2005
- International Advisory Committee: OMEG05, Origin of Matter and Evolution of Galaxies, University of Tokyo, Tokyo, Japan, November 8-11, 2005
- International Advisory Committee: XXIX Symposium on Nuclear Physics, Cocoyoc, Morelos, Mexico, January 4-7, 2006
- Organizing Committee: Workshop on Massive Stellar Progenitors "The Final Days of Burning", Santa Barbara, USA, March 9 - 10, 2006
- Organizing Committee: NSCL workshop on low energy nuclear astrophysics accelerator, East Lansing, MI, May 23-25, 2006
- Organizing Committee: A NIC-IX Satellite Workshop on "Compiled Data Requirements for Modeling in Nuclear Astrophysics," Basel, Switzerland, June 23-2, 2006
- International Advisory Committee: NIC IX – International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos," CERN, Geneva, Switzerland, June 25-30, 2006
- Organizing Committee: JINA Workshop on " The Status of $^{12}C(\alpha,\gamma)^{16}O$, the 'Holy Grail' of Nuclear Astrophysics," Caltech, Pasadena, December 15, 2006
- International Advisory Committee: XXX Symposium on Nuclear Physics, Cocoyoc, Morelos, Mexico, January, 2007
- International Advisory Committee on the 21st International Nuclear Physics Divisional Conference of the European Physical Society: Nuclear Physics in Astrophysics III, Dresden, Germany, March 26-31. 2007

- Advisory Board: Workshop on experimental opportunities for nuclear astrophysics at the Frankfurt neutron source of the Stern-Gerlach-Zentrum - The FRANZ Neutron Source -, Frankfurt, Germany, May 21 – 23, 2007
- Organizing Committee: CARINA - JINA meeting on "Nuclear Physics Data Compilation for Nucleosynthesis Modeling" Trento, Italy, May 29 – June 1, 2007
- International Advisory Committee: INPC2007, International Nuclear Physics Conference, Tokyo International Forum, Japan, June 3-8, 2007
- International Advisory Committee: "Nuclear Astrophysics Beyond the First 50 Years," Caltech, Pasadena, July 24-27, 2007
- Organizing Committee: 2nd JINA Conference Frontier 2007, Notre Dame, IN August 19-21, 2007
- International Advisory Committee: Carpathian Summer School " Exotic nuclei & Nuclear/Particle Astrophysics," Sinaia, Romania, August 20-31, 2007
- Organizing Committee: Workshop on "Nuclear Astrophysics at the National Ignition Facility," Livermore, CA, August 27-30, 2007
- International Advisory Committee: 4th Intl Conference on Fission and Properties of Neutron Rich Nuclei, Sanibel Island, FL, November 11-17, 2007
- International Advisory Committee: XXXI Symposium on Nuclear Physics, Cocoyoc, Morelos, Mexico, January, 2008
- Organizing Committee: Workshop on "R-Matrix and Nuclear Reactions in Stellar Hydrogen and Helium Burning," Santa Fe, New Mexico, USA, April 21 - 23, 2008
- International Advisory Committee: 10th Symposium on Nuclei in the Cosmos, Mackinac Island, MI, July 27 - August 1, 2008
- International Advisory Committee: 13th Conference on Capture Gamma Rays, Köln, Germany, 2008
- Organizing Committee: Workshop on Solar Fusion Cross Sections for the pp Chain and CNO Cycle; INT, Seattle, WA, USA, January 21 – 23, 2009
- Organizing Committee: Challenge for Laboratory Nuclear-Astrophysics in Underground and Surface CLAUS 2009; Anacapri, Italy, April 27 – 29, 2009
- International Advisory Committee: Radioactive Nuclear Beams Conference, RNB8; Grand Rapids, MI, USA, May 26 – 30, 2009
- International Advisory Committee: The 10th International Conference on Nucleus-Nucleus Collisions, Beijing, China, August 16 – 21, 2009
- International Advisory Committee: Santa Tecla School on Nuclear Astrophysics, Catania, Sicily, Italy, September 2009
- International Advisory Committee: Third joint meeting of the Division of Nuclear Physics of the American Physical Society and the Physical Society of Japan; Waikalola Village, Hawaii, USA, October 13-17, 2009
- International Advisory Committee: VIII Latin American Symposium on Nuclear Physics and Applications; Santiago de Chile, Chile, December 15-19, 2009
- International Advisory Committee : International Symposium on Origin of Matter and Evolution of the Galaxies (OMEG10), Osaka, Japan March 8-10, 2010
- International Advisory Committee: Carpathian Summer School of Physics 2010, Sinaia, Romania, June 20-July 3, 2010
- Session Convenor: INPC2010, International Nuclear Physics Conference, TRIUMF, Vancouver Canada, July 4-9, 2010

- International Advisory Committee: NIC XI – International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos," Heidelberg, Germany, July 19-23, 2010
- Organizing Committee: Nuclear Physics in High Density Environments, London, UK March 13-15, 2011
- International Advisory Committee: Nuclear Physics in Astrophysics 5 (NPA5) Conference in Eilat, Israel, April 3-8, 2011
- Organizing Committee: Workshop on Basic Research Directions on User Science at the National Ignition Facility (NIF), Washington, DC, May 9-12, 2011
- Organizing Committee: Nuclear Physics of the Astrophysical p-Process, Istanbul, Turkey, May 25-27, 2011
- International Advisory Committee: IX Latin American Symposium on Nuclear Physics and Applications; Quito, Ecuador, July 15-19, 2011
- International Advisory Committee: 14th Conference on Capture Gamma Rays, Guelph, Canada, August 2011
- International Advisory Committee: Santa Tecla School on Nuclear Astrophysics, Catania, Sicily, Italy, September 2011
- International Advisory Committee: 11th International Symposium on Origin of Matter and Evolution of Galaxies OMEG11, RIKEN, Hirosawa 2-1, Wako, Saitama, Japan, November 2011
- International Advisory Committee: XXXV Symposium on Nuclear Physics, Cocoyoc, Mexico, January 2012
- International Advisory Committee: Nucleus-Nucleus Collision Conference NN2012, San Antonio, Texas May 27-June 1, 2012
- International Advisory Committee: NIC XI – International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos," Melbourne, Australia, August 5-10, 2012
- Organizing Committee: Nuclear Astrophysics Town Meeting on Nuclear Astrophysics, Detroit, MI, October 2012
- Organizing Committee: EMMI-JINA Workshop "Nuclear Physics Processes in Dynamic High Energy Density Plasmas", ND London Centre, London UK, October 13-17, 2012
- International Advisory Committee to the 4th international conference on "Collective Motion in Nuclei under Extreme Conditions"(COMEX4), Kanagawa, Japan October 22 to October 26, 2012
- International Advisory Committee: XXXV Symposium on Nuclear Physics, Cocoyoc, Mexico, January 2013
- Organizing Committee: ECT Workshop on Carbon Nucleosynthesis, Trento, October 2013
- International Advisory Committee: XXXVI Symposium on Nuclear Physics, Cocoyoc, Mexico, January 2014
- International Advisory Committee: 15th Conference on Capture Gamma Rays, Dresden, Germany, August 2014
- International Advisory Committee: NIC XII – International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos," Debrecen Hungary, 2014
- International Advisory Committee: Nucleus-Nucleus Collision Conference NN2015, Catania, Sicily, Italy, June 21-June 26, 2015
- Organizing Committee: Notre Dame –Europe Symposium on Nuclear Science, London, UK, November 26-November 30, 2014

- International Advisory Committee: Workshop on p-process nucleosynthesis, Limassol, Cyprus, June 1—June 13, 2015
- International Advisory Committee: 34th Mazurian Lakes Conference on Physics, Piaski, Poland, Sept. 6 – Sept. 13, 2015
- International Advisory Committee: XXXVII Symposium on Nuclear Physics, Cocoyoc, Mexico, January 2016
- International Advisory Committee; International Conference on Nuclear Physics. Adelaide, Australia, Sept. 11- Sept. 16, 2016
- International Advisory Committee: 16th Conference on Capture Gamma Rays, Shanghai, Peoples Republic of China, August 2017
- International Advisory Committee: 35th Mazurian Lakes Conference on Physics, Piaski, Poland, Sept. 6 – Sept. 13, 2017
- International Advisory Committee: NIC IX – International Symposium on Nuclear Astrophysics "Nuclei in the Cosmos," Gran Sasso, Italy, 2018
- International Advisory Committee: XXXIX Symposium on Nuclear Physics, Cocoyoc, Mexico, January 2018
- International Advisory Committee: 36th Mazurian Lakes Conference on Physics, Piaski, Poland, Sept. 6 – Sept. 13, 2019
- International Advisory Committee on Nuclear Physics in Astrophysics, Karlsruhe, September 2019
- International Advisory Committee: 6th Workshop on p-process nucleosynthesis, Boscaretol, Italy, September 2019
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Scientific Reports

1. Report of the North American Steering Committee for the IsoSpin Laboratory; 1991, "The IsoSpin Laboratory, Research Opportunities with Radioactive Nuclear Beams" http://www.nscl.msu.edu/future/ria/process/whitepapers/isospin1-15.pdf

2. Report of the North American Steering Committee for the IsoSpin Laboratory, 1995, "Overview of research opportunities with radioactive nuclear beams" http://www.nscl.msu.edu/future/ria/process/whitepapers/isl95.pdf

3. Report of the Working Group on Nuclear and Particle Astrophysics to the Nuclear Physics European Collaboration Committee (NuPECC), Basel 1997, "Nuclear and Particle Astrophysics" http://quasar.physik.unibas.ch/nupecc/ and http://www.nupecc.org/report97/report97_pre/report97_pre.html

4. "Report on Scientific Opportunities with fast radioactive beams from RIA" http://www.nscl.msu.edu/future/ria/process/whitepapers/opportunitiesffbeam.pdf

5. Report on the Town Meeting in Nuclear Astrophysics at Notre Dame, IN, 1999, "Opportunities in Nuclear Astrophysics" http://www.nd.edu/%7Ensl/Research_Facilities/KN_site/KN_files/whitep.pdf

6. Report on the Town Meeting in Physics with RIA at Duke University, NC, 2000, "RIA Physics White Paper" http://www.phy.anl.gov/div/rib/ria-whitepaper-2000.pdf

7. Report on the DNP Town Meeting of the NSAC Subcommittee in Oakland, CA, 2000, "Nuclear Structure and Astrophysics" http://www.star.bnl.gov/STAR/nsac/papers/nuclear-structure.pdf

8. Report on RIA to the National Academy, 2000, "The Rare Isotope Accelerator RIA" http://www7.nationalacademies.org/bpa/1RIA.pdf

9. The DOE/NSF Nuclear Science Advisory Committee Report, 2002, "Opportunities in Nuclear Science: A Long Range Plan for the Next Decade" http://www.sc.doe.gov/production/henp/np/nsac/LRP_5547_FINAL.pdf

10. Report of the National Underground Laboratory Committee; Berkeley, CA, 2001, "The Bahcall Report" http://int.phys.washington.edu/NUSL/underground.html

11. Report on Underground Science; 2001, "Underground Science" http://www.sns.ias.edu/~jnb/Laboratory/science.pdf

12. Report of the NSAC Subcommittee Low Energy Nuclear Physics, 2001 http://www.sc.doe.gov/production/henp/np/nsac/LEreport.pdf

13. Report on the Status of the CERN, neutron spallation facility n-ToF, Geneva, 2001, "The n-ToF Collaboration" http://www.ba.infn.it/~ntof/reports/StatusReport.pdf

14. Report of the Working Group on Solar Neutrinos and Stellar Processes at the NSF workshop NESS2002 on Subterranean Science, Washington, 2002, "Solar Neutrinos and Stellar Processes" http://mocha.phys.washington.edu/~int_talk/WorkShops/Neutrino02/Plenary/People/SolarStellar/SolarStellar_Exec_Summary.pdf

15. A White Paper on "The Intellectual Challenges of RIA," RIA Steering Committee, Washington, DC 2003: http://www.orau.org/ria/intell.pdf

16. Report to the NSAC Subcommittee for the Implementation of the 2002 Long Range Plan, 2005, "Goals and Status of Nuclear Astrophysics"

17. National Academies Report on "Scientific Opportunities with a Rare Isotope Facility in the United States," Washington, DC, 2006, http://www7.nationalacademies.org/bpa/RISAC.html

18. Technical Report on the "Underground Accelerator Laboratory for Nuclear Astrophysics" at DUSEL, 2007, http://www.dusel.org/TechnicalDocuments/Final/ualna_final.pdf

19. NSAC Long Range Plan for Nuclear Physics and Nuclear Astrophysics, 2007

20. White paper on "Nuclei in the Cosmos" for the NRC Decadal Review of Astronomy and Astrophysics, February 2009

21. Report on "Opportunities for a Nuclear Science Program at the National Ignition Facility NIF" April 2009

22. Office of Science, Department of Energy Brochure on "Nuclear Physics Highlights", September 2009

23. White paper on: Basic Research Directions for User Science at the National Ignition Facility, Department of Energy, October 2011

24. Long Range Plan for Nuclear Science, NSAC Report, Department of Energy November 2015

Positions

Director of the Joint Institute for Nuclear Astrophysics, JINA, University of Notre Dame, Michigan State University, University of Chicago	2002 to 2014
Freimann Professor of Physics Department of Physics University of Notre Dame	September 1998 – present
Visiting Professor Department of Physics University of Surrey	January 2001 – June 2001
Full Professor Department of Physics University of Notre Dame	September 1993 – 1998
Visiting Professor Department de Physique Nucleaire Universite de Louvain la Neuve	April 1993 – Aug. 1993 June – July 1994
Visiting Scientist Institut für Kernphysik III Kernforschungszentrum Karlsruhe	June 1992 – March 1993
Associate Professor Department of Physics University of Notre Dame	September 1990 – Sept. 1993
Visiting Scientist Institut für Kernphysik III Kernforschungszentrum Karlsruhe	June 1988 – August 1988 June 1990 – August 1990
Assistant Professor Department of Physics University of Notre Dame	May 1986 – August 1990
Senior Research Associate Institut für Kernchemie Universität Mainz	Oct. 1983 – May 1986
Visiting Associate Kellogg Rad. Laboratory California Institute of Technology	July 1984 – Nov. 1984 Mar.1985 – May 1985
Research Associate IIPh Van de Graaff Laboratory	Oct. 1982 – Sept. 1983

Ohio State University

Postdoctoral Fellow — Sept. 1980 – Sept. 1982
Van de Graaff Laboratory
Ohio State University

Postdoctoral Research Assistant — June 1980 – Sept. 1980
Institut für Kernphysik
Universität Münster

Graduate Teaching and Research Associate — April 1977 – May 1980
Institut für Kernphysik
Universität Münster

Department of Environmental Protection — May 1975 – April 1976
County Wuppertal, Germany

Teaching and Research Associate — April 1973 – April 1975
Physikalisches Institut
Universität Münster

Societies and Membership

Member of the Deutsche Physikalische Gesellschaft (DPG)
Member of the American Astronomical Society (AAS)
Fellow of the American Physical Society (APS)
Fellow of the American Association for the Advancement of Science (AAAS)
Fellow of Sigma Xi

Publications in Refereed Journals

Reviews and Topical Reports

1. "Explosive Hydrogen Burning," A. Champagne, M. Wiescher, Ann. Rev. Nucl. Part. Sci. 42, 39 (1992).

2. "Nuclei in the Cosmos: Present Status and the Future of Nuclear Astrophysics," M. Wiescher and H. Oberhummer, Nuclear Physics News 7, 11 (1997).

3. "Current Quests in Nuclear Astrophysics at Experimental Approaches," F. Käppeler, F.K. Thielemann, M. Wiescher, Ann. Rev. Part. Nucl. Science 48, 175 (1998).

4. "Reactions with radioactive beams and explosive nucleosynthesis," M. Wiescher, H. Schatz, and A.E. Champagne, Phil. Trans. R. Soc. London A365, 2105-2136 (1998).

5. "Break-Out Reactions from the CNO Cycles," M. Wiescher, J. Görres, H. Schatz, J. of Physics G25, R133-R161 (1999).

6. "Nuclear structure near the particle drip lines and explosive nucleosynthesis processes," K.-L. Kratz, J. Görres, B. Pfeiffer, M. Wiescher, Journal of Radioanalytical and Nuclear Chemistry, 243 133-140 (2000).

7. "Nuclear reactions and stellar processes," K. Langanke and M. Wiescher, Reports on Progress in Physics 64, 1657-1701 (2001).

8. "Element Synthesis in Stars," F.-K. Thielemann, F. Brachwitz, D. Freiburghaus, E. Kolbe, G. Martinez-Pinedo, T. Rauscher, F. Rembges, W.R. Hix, M. Liebendörfer, A. Mezzacappa, K.-L. Kratz, B. Pfeiffer, K. Langanke, K. Nomoto, S. Rosswog, H. Schatz, and M. Wiescher, Prog. in Part. and Nucl. Phys. 46, 5-22 (2001).

9. "Nuclear astrophysics: a new era," M. Wiescher, P. Regan, and A. Aprahamian, Physics World, February 2002, pp. 33-38.

10. "Nuclear Astrophysics and Nuclei Far from Stability," K. Langanke, F.-K. Thielemann and M. Wiescher, Lect. Notes Phys. 651, (Springer-Verlag, Berlin, Heidelberg) 383-467 (2004).

11. "Nuclear structure aspects in nuclear astrophysics," A. Aprahamian, K. Langanke, and M. Wiescher, Progress in Particle and Nuclear Physics 54, 535-613 (2005).

12. "US looks to new rare-isotope science facility," K. Kemper, B. Sherrill, M. Wiescher, CERN Courier 47, (2007)

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87. "Astrophysics at n_ToF facility", G. Tagliente, U. Abbondanno ,G. Aerts, M. Wiescher et al., Conference Information: 8th Latin American Symposium on Nuclear Physics and Applications, Dec 15-19, 2009 Univ Chile, Santiago, Chile, AIP Conference Proceedings 1265, 160 (2010)

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90. "Study of Photon Strength Function of Actinides: the Case of (235)U, (238)Np and (241)Pu", C. Guerrero, F. Alvarez-Velarde, D.M. Cano-Ott, Wiescher; and n_ToF Collaboration J. Korean Phys. Soc. 59, 1510 (2011)

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Invited Addresses

Seminars and Colloquia

1. Capture reactions in the r- and rp-process, Seminar, Institute Laue Langevin, Grenoble, France, April 1984

2. Thermonuclear reactions in the jets of SS433, Colloquium, Astron. Institute, Muenster, Germany, May 1984

3. Proton capture reactions in the rp-process, Seminar, Kellogg Rad. Lab., Caltech, USA, September 1984

4. Stellar neutron capture rates in the nβ-process, Seminar, Kellogg Rad. Lab., Caltech, USA, October 1984

5. rp-Process reactions in nova burning, Seminar, Lawrence Livermore National Lab., Livermore, USA, October 1984

6. Nuclear Structure Effects in Nuclear Burning, Colloquium, University of Notre Dame, USA, March 1985

7. Nuclear Processes in Novae, Seminar, Institut fuer Strahlenphysik, University Stuttgart, November 1985

8. Decay Properties of r-process Nuclei, Seminar, University of Notre Dame, Notre Dame, IN, November 1986

9. Nuclear Reactions as Stellar Neutron Sources, Seminar, Michigan State University, East Lansing, MI, January 1987

10. Nuclear Reactions as Stellar Neutron Sources, Seminar, Ohio State University, Columbus, OH, March 1987

11. Nucleosynthesis in Stellar Helium Burning, Seminar, Institute Laue-Langevin, Grenoble, France, April 1987

12. Nuclear Reactions & Reaction Sequences in Explosive Hydrogen Burning, Seminar, Kernforschungszentrum Karlsruhe, Germany, November 1988

13. Low Energy Accelerators and Big Bang Nucleosynthesis, Seminar, Hope College, November 1988

14. Nucleosynthesis in a Nonstandard Big Bang, Seminar, Universitaet Mainz, July 1989

15. Nucleosynthesis in a Nonstandard Big Bang, Seminar, Kernforschungszentrum Karlsruhe, July 1989

16. Nucleosynthesis in a Nonstandard Big Bang, Seminar, University of Pittsburgh, November 1989

17. Nucleosynthesis in Nonstandard Big Bang Models, Seminar, Duke University, January 1990

18. Explosive Hydrogen Burning in Accretion Processes on Compact Objects, Colloquium, Department of Astronomy, University of Illinois, October 1990

19. The role of ^{14}C in a Nonstandard Big Bang, Seminar, Ohio State University, February 1991

20. The role of ^{14}C in a Nonstandard Big Bang, Seminar, Argonne National Lab., February 1991

21. Nuclear Structure Effects on Reaction Rates & Reaction Flow in the rp-Process, Seminar, Universite de Louvain, Louvain la Neuve, Belgium, April 1991

22. Capture Reactions on ^{14}C at Big Bang Conditions, Colloquium, Oak Ridge National Laboratory, May 1991

23. Nuclear Structure Effects on Reaction Rates & Reaction Flow in the rp-Process, Seminar, Oak Ridge National Laboratory, May 1991

24. Various Experimental Approaches in the Measurement of Capture Reactions in Explosive Hydrogen Burning, Colloquium, China Institute of Atomic Energy, Beijing, P.R. Chinam June 1991

25. Experimental Techniques in Nuclear Astrophysics, Seminar, China Institute of Nuclear Physics, Shanghai, P.R. China, July 1991

26. Reaction Branchings and Impedance Effects in the rp-Process, Seminar, Queens University, Kingston, Ontario, Canada, October 1991

27. Reaction Sequences in Explosive Hydrogen Burning, Seminar, Michigan State University, East Lansing, March 1992

28. Reaction rates and reaction flux in the rp-process, Seminar, Orsay, France, October 1992

29. Reaktionsflüsse im explosiven Wasserstoffbrennen, Seminar, Institut fuer Kernchemie, Universitate Mainz, Germany, November 1992

30. Reaktions Raten and Reaktions Flüsse in explosiven Wasserstoffbrennen, Seminar, Institut fuer Strahlenphysik, Universitate Stuttgart, Germany, December 1992

31. Nukleosynthese in explosiven Wasserstoffbrennen, Seminar, TU Wien, Vienna, Austria, December 1992

32. Nucleosynthesis in explosive hydrogen burning, Seminar, Budapest, Hungary, December 1992

33. Reaktionflüsse im explosiven Wasserstoffbrennen, Seminar, Kernforschungszentrum, Karlsruhe, Karlsruhe, Germany, April 1993

34. Nukleosynthese im explosiven Wasserstoffbrennen, joint colloquium, TU München and University of München, München, Germany, July 1993

35. Stellar neutron sources and the s-process in massive stars, Seminar, Ohio State University, Columbus, OH, November 1993

36. The ^{18}F(p,α) (p,γ) reactions in the hot CNO-cycles, Seminar, Louvain la Neuve, Belgium, June 1994

37. Nucleosynthesis in Explosive Stellar Scenarios, Seminar, Rutgers University, Piscataway, NJ, October 1994

38. Nucleosynthesis in Explosive Stellar Scenarios, Seminar, Rochester University, Rochester, NY, October 1994

39. Neutron Production in Stellar He-Burning and the Nucleosynthesis of Heavy Elements, Colloquium, Arizona State University, Tempe, AZ, November 1994

40. Nuclear Structure Effects in Explosive Hydrogen Burning, Seminar, University of Stony Brook, Stony Brook, NY, April 1995

41. Nucleosynthesis in Accreting Binary Stars, Seminar, Indiana University, Bloomington, IN, November 1995

42. Radioactive Beam Experiments in Nuclear Astrophysics, Seminar, Institut für Isotopenforschung und Kernphysik, Universität Wien, Wien, Austria, December 1995

43. Nucleosynthesis in Explosive Hydrogen Burning, Colloquium, Ball State University, Muncie, IN, April 1996

44. Radioactive Beam Experiments in Nuclear Astrophysics, Seminar, Ohio University, Athens, OH, May 1996

45. Radioactive Beam Experiments in Nuclear Astrophysics, Colloquium, Florida State University, Tallahassee, FL, April 1996

46. The rp Process and Nucleosynthesis in the Mass A=80-100 Region, Colloquium, University of Köln, Germany, October 1996

47. The rp Process and Nucleosynthesis in the Mass A=80-100 Region, Colloquium, GSI, Darmstadt, Germany, October 1996

48. Origin of ^{22}Na and ^{26}Al in Novae, Seminar, Institute Polytechnico, Barcelona, Spain, May 1997

49. Kernphysikalische Indizien Stellarer Prozesse, Colloquium, Universität Karlsruhe, Karlsruhe, Germany, June 1997

50. Signatures of Explosive Nucleosynthesis, Colloquium, University of North Carolina, Chapel Hill, NC, September 1997

51. Characteristics of the rp-Process in X-ray Bursts, Colloquium, Cyclotron Laboratory, Texas A&M University, April 1998

52. Signatures of Explosive Hydrogen, Colloquium, Triumf, Vancouver, Canada, December 1997

53. Der Ausbruch aus den heissen CNO Zyklen, Colloquium, Universität Köln, Köln, Germany, October 1998

54. Break-out from the hot CNO cycles, Seminar, Ohio State University, Columbus, OH, November 1998

55. Die Zünding von X-ray Burstern, Seminar, Institut fur Kernchemie, Universität Mainz, Germany, February 1999

56. Break-out from the hot CNO cycles, Seminar, Michigan State University, East Lansing, MI, February 1999

57. Aspects of Nuclear Astrophysics, Invited Lecture, Université de Louvain la Neuve, Belgium, November 1999

58. The trigger of the rp-process, Seminar, Department of Physics, University of Surrey, Guildford, United Kingdom, November 1999

59. Break-Out Processes in Explosive Hydrogen Burning, Seminar, University of Ohio, Athens, Ohio, October 2000

60. Future Concepts and Perspectives in Nuclear Astrophysics, Colloquium, ETH Zürich, Zürich, Switzerland, May 2001

61. The fate of matter on accreting neutron stars, Colloquium, Argonne National Laboratory, Argonne, Illinois, February 2002

62. The Origin of Fluorine, Seminar, Ohio University Physics Department, Athens, Ohio, February 2002

63. The Fate of Matter on Accreting Neutron Stars, Seminar, University of Illinois Physics Department, Urbana, Illinois, March 2002

64. The Fate of Matter on Accreting Neutron Stars, Colloquium, Institute of Nuclear Research of the Hungarian Academy of Science, Debrecen, Hungary, September 2002

65. The Fate of Matter on the Surface of Accreting Neutron Stars, Colloquium, Gesellschaft fuer Schwerionenforschung GSI, Darmstadt, Germany, October 2002

66. The Fate of Matter on Accreting Neutron Stars, Colloquium, Queens University, Kingston, Canada, March 2003

67. From Thermonuclear to Pycnonuclear Processes on Accreting Neutron Stars, Colloqium, Bartol Institute, University of Deleware, October 2003

68. Outreach Research Opportunities in the Nuclear Laboratory, Seminar, QUARKNET, Notre Dame, IN, May 2004

69. Nuclear Astrophysics at Notre Dame, Seminar, Institut fur Kernchemie, Universität Mainz, Germany, March 2005

70. Nuclear Astrophysics at Notre Dame, Seminar, NSCL, Michigan State University, Ann Arbor, MI, March 2005

71. Low Energy Nuclear Reactions in Stellar Burning, Seminar, Lawrence Berkeley National Laboratory, Berkeley, CA, April 2006

72. Break-Out from the Hot CNO cycles – revisited, Seminar, Kellogg Radiation Laboratory, Caltech, Pasadena, CA, April 2006

73. Concepts and Sites for the Astrophysical p-Process, Seminar, Institut für Isotopenforschung und Kernphysik, Universität Wien, Wien, Austria, July 2006

74. Deep Science with Small Accelerators, Seminar, National Science Foundation, Washington, DC, November 2006

75. The Nuclear Trigger for Stellar Thermonuclear Explosions, Seminar, Pelletron Laboratory, Australian National University, Canberra, Australia, December 2006

76. Nucleosynthesis in Thermonuclear and Pycnonuclear Burning Environments, Seminar, Department of Physics, University of Illinois, Urbana Champaign, IL, April 2007

77. Nuclear Physics in Stars, Seminar, PIXE-PAN Program, University of Notre Dame, Notre Dame, IN, June 2007

78. Status and Goals in Nuclear Physics at Notre Dame , Report, National Science Foundation, Washington, DC, June 2007

79. Seventy Years of Nuclear Physics at Notre Dame, Colloqium, University of Notre Dame, IN, September 2007

80. Nucleosynthesis in Stellar Helium and Carbon Burning, Seminar, University Federico II, Naples, Italy, September 2007

81. Nuclear Processes in Violent Stellar Events, Colloqium, Kernforschungszentrum Rossendorf, Dresden, Germany, October 2007

82. Nuclear Physics in the Emerging Universe; Colloquium, Florida State University, Tallahassee, FL, March 2008

83. Nuclear Physics at Notre Dame; Seminar, Florida State University, Tallahassee, FL, March 2008

84. Nuclear Processes in Exploding Stars; Colloquium, University of Köln, Germany, June 2008

85. Nucleosynthesis in Stellar Carbon Burning; Seminar, Technical University Darmstadt, June 2008

86. Nuclear Physics in the Emerging Universe, the Origin of the Elements: Colloquium, Department of Energy, Washington, DC, December 2008

87. Neutron Activation Analysis in Art and Archaeology: Archaeometry Seminar, University of Notre Dame, Notre Dame, IN, February 2009

88. Nuclear Fusion Processes in Thermonuclear Supernovae and Superbursts: Colloquium, University of Rochester, Rochester, NY, February 2009

89. Nuclear Weapons & Warfare: Colloquium, Indiana University, Bloomington, IN, April 2009

90. Nuclear Processes in the Crust of Neutron Stars: Seminar, Indiana University, Bloomington IN, April 2009

91. Nuclear Processes in the Crust of Neutron Stars, Technical University Munich, Garching Germany, May 2009

92. Nuclear Fusion Processes in thermonuclear Burning in Supernovae and Superbursts, Technical University Dresden, Dresden, Germany, June 2009

93. Nuclear Physics in Stars, PIXE PAN outreach event, University of Notre Dame, Notre Dame, IN, July 2009

94. Nuclear Astrophysics Underground, Seminar, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing, MI, January 2010

95. Nuclear Astrophysics Underground, Seminar, University of Edinburgh, Edinburgh, UK, August 2011

96. Nuclear Astrophysics Underground, Seminar, University of Surrey, Guildford, UK, August 2011

97. Nuclear Astrophysics Underground, Colloquium, Argonne National Laboratory, Argonne, IL, September 2011

98. Nuclear Physics Applications in Technology, Medicine and Art; Colloquium, Texas A&M Commerce, TX, December 2011

99. Nuclear Astrophysics in Quiescent and Explosive Stellar Burning; Seminar, Texas A&M Commerce, TX, December 2011

100. Nuclear Astrophysics Underground, Colloquium, Fermi National Laboratory, Batavia, IL, January 2012

101. Nuclear Weapons Today, Science Café Presentation and Discussion, South Bend, IN, January 2012

102. Nuclear Astrophysics Underground, Colloquium, Virginia Tech University, Blacksburg, VA, April 2012

103. Technical Requirements and Needs for the DIANA Project, Seminar, Sanford Underground Research Laboratory (SURF), Lead, SD, February 2013

104. DIANA, Dual Ion Beam Accelerator for Nuclear Astrophysics: Presentation, National Science Foundation, Washington, DC February 2013

105. Nuclear Physics and Art Analysis, Seminar, School of Architecture, University of Notre Dame, September 2013

106. The History of the Physics Department at Notre Dame, Public Lecture, Indiana Center for History, South Bend, IN, September 2014

107. Stellar Environment and Nuclear Reactions, Seminar, National Ignition Facility, Lawrence Livermore National Laboratory, October 2014

108. From Marbles to Mummies, Public Lecture, Indiana Historical Society, May 2015

109. Experimental Techniques in Nuclear Astrophysics, 2 Lectures, GSSI, Gran Sasso Institute, Italy, October 2015

110. Questions and Opportunities in Nuclear Astrophysics, Colloquium, Texas A&M University, February 2016

111. From Marbles to Mummies; Lecture series "Our Universe Revealed", University of Notre Dame, February 2016

112. Neutrons Underground, Seminar, University of Kentucky, March 2016

113. Measurements of Light Ion Nuclear Reactions, Seminar, Lawrence Livermore National Laboratory, July 2016

114. Neutrons Underground; Seminar, VERA Institute, University of Vienna,, August 2016

115. Arthur Haas, his Life, Colloquium, University of Notre Dame, September 2016

116. New Opportunities in Nuclear Astrophysics: Colloquium. NASA Ames Research Center, Moffett Field, CA, February 22, 2017.

117. Nuclear Science for the HD environment: Colloquium, NIF LLNL, Livermore California, August 2017

118. Neutron Sources in Stars and HD Environments: Colloquium, LANSCE, LANL, Los Alamos, New Mexico, October 2017

119. Neutron Sources in Stellar and High Density Plasmas: Colloquium, Ohio University, Athens, Ohio, November 2017

120. Nucleosynthesis in First Stars, the On-Set of Chemical Evolution, Colloquium, University of Frankfurt, February 2018

121. Plücker in Bonn, Colloquium, University Bonn, Germany, June 8, 2018

122. Neutron Sources in Stars, NIF, and Underground, Colloquium, GSI Darmstadt, June 19, 2018

123. Nucleosynthesis of Primordial Stars, Colloquium, Technical University of Darmstadt, Feb. 7, 2019

124. Questions and Opportunities in Nuclear Astrophysics, Colloquium, Alikanyan National Laboratory, Yerevan, Armenia March 21, 2019

125. Siedlungs- und Entwicklungsgeschichte der Barmer Südhöhen am Beispiel Gustav Eickers, public talk, Evangelische Kirche Lichtenplatz, March, 28, 2019

Workshops and Conferences

1. Nuclear Structure data and problems in hot stellar nucleosynthesis, Workshop 'On-line in 1985 and beyond', Zinal, Suisse, June 1984

2. Reaction Rates in the rp-Process and Nucleosynthesis in Novae, Fifth Moriond Astrophysics meeting, Les Arcs, France, March 1985

3. Explosive Hydrogen burning in novae and proton captures on short lived unstable nuclei, Accelerated Radioactive Beams Workshop, Parksville, Canada, September 1985

4. Alpha Capture Reactions in the rp-Process, Spring Meeting, German Physical Society, Heidelberg, March 1986

5. Helium Burning Reactions Important for s-Process Neutrons, Workshop on 'Nuclear Astrophysics,' Paris, France, June 1986

6. New Experimental Results on Nuclear Reactions in Hot Hydrogen Burning, Workshop on Nuclear Astrophysics, Ringberg, Germany, April 1987

7. New Experimental Results on Nuclear Reactions in Explosive Hydrogen Burning, Workshop on 'The Origin and Distribution of the Elements,' ACS Meeting, New Orleans, LA, September 1987

8. Bottlenecks and Waiting Points in the rp-Process, Workshop on 'Quests in Nuclear Astrophysics,' Crete, Greece, June 1988

9. rp-Process Information from Light and Heavy Ion Transfer Reactions, International Symposium on Heavy Ion Physics with Magnetic Spectrographs, East Lansing, MI, January 1989

10. Reaction Rates in the rp-Process beyond ^{13}N(p,γ) ^{14}O, First International Conference on Radioactive Beams, Berkeley, CA, October 1989

11. Nucleosynthesis in Nonstandard Big Bang Models, 13th Symposium on Nuclear Physics, Oaxtepec, Mexico, January 1990

12. The Role of ^{14}C in Nonstandard Big Bang Nucleosynthesis, Symposium on Nuclear Astrophysics, Boston, MA, April 1990

13. Capture Reactions on ^{14}C in Nonstandard Big Bang Nucleosynthesis, 7th Intl. Symposium on Capture Gamma Ray Spectroscopy, Asilomar, CA, October 1990

14. Experimental approaches for rp-process studies, Ohio State University, AAS-Workshop on Nuclear Astrophysics, May 1992

15. Alpha capture reactions on ^{18}O and ^{22}Ne, 2nd International Conference on Nuclei in the Cosmos, Karlsruhe, Germany, June 1992

16. Reaction sequences in the rp-process, AMCO-meeting, Berncastel, Germany, July 1992

17. Laboratory techniques in nuclear astrophysics, Nuclei in the Universe, Oak Ridge, TN, September 1992

18. Reaction flow in explosive hydrogen burning, Workshop on Nuclear Astrophysics, Ringburg, Germany, March 1993

19. Indirect methods in Nuclear Astrophysics, Workshop on Nuclear Astrophysics, Crete, Greece, June 1993

20. Nuclear reactions and nucleosynthesis in explosive hydrogen burning, ACS meeting, Technical and scientific issues of radioactive beams, Chicago, IL, August 1993

21. Capture reactions in explosive hydrogen burning scenarios, 9th International Conference on Capture γ-rays and related topics, Fribourg, Switzerland, September 1993

22. Nucleosynthesis in explosive hydrogen burning, TRIUMF Users Annual Meeting, Vancouver, BC, Canada, December 1993

23. Neutron sources in stellar helium burning and s-process nucleosynthesis in massive stars, 17th Symposium on Nuclear Physics, Oaxtepec, Mexico, January 1994

24. Nuclear physics aspects of the rp-process, Workshop on Nuclear Astrophysics, Budapest, Hungary, March 1994

25. Direct and indirect methods in searching for low energy resonance, Workshop on Nuclear Physics Underground Research, Gran Sasso, Italy, July 1994

26. The rp-process, direct and indirect experimental methods, 3rd International Conference on Nuclei in the Cosmos, Gran Sasso, Italy, July 1994

27. Origin of Galactic Long-Lived γ-Emitters and its Simulation in Radioactive Beam Experiments, Workshop on Radioactive Beam Physics, Argonne National Laboratory, January 1995

28. The ^{19}Ne(p,γ)^{20}Na Reaction and its Influence in Explosive H-Burning, Workshop on Physics with Recoil Separators, New Delhi, India, February 1995

29. Origin and Decay of ^{44}Ti, Workshop on Galactic Radioactivity, Clemson University, Clemson, SC, March 1996

30. Trigger Reactions and Endpoints of the rp-Process, APS/DNP Spring meeting, Indianapolis, IN, May 1996

31. The rp Process and Nucleosynthesis in the Mass A=80-100 Region, Workshop at the dedication of the HRIBF facility, Oak Ridge, TN, December 1996

32. New Results in Radioactive Beam Experiments, ACS spring meeting, San Francisco, CA, April 1997

33. Radioactive Beam Experiments and the Study of the rp-Process, Workshop on Radioactive Beam Experiments, Edinburgh, Scotland, May 1997

34. Nuclear Data Needs in Nuclear Astrophysics, Plenary talk, International Conference on Nuclear Data, Trieste, Italy, May 1997

35. Nuclear Physics Data for Explosive Hydrogen Burning, Workshop on the Science for an advanced ISOL facility, Columbus, OH, July 1997

36. Experimental Needs in Nuclear Astrophysics Workshop on Radioactive Beams, APS/DNP fall meeting, Whistler, Canada, October 1997

37. Characteristics of the rp-Process in X-ray Bursts, Workshop on Nuclear Astrophysics, Hirschegg, Austria, January 1998

38. The rp-Process in X-Ray Bursts, ENAM 1998 Conference, Bellaire, MI, June 1998

39. Summary Talk, 5th International Conference on Nuclei in the Cosmos, Volos, Greece, July 1998

40. The rp-Process in X-Ray Bursts, International Conference on Nuclear Structure NS98, Gatlinburg, TN, August 1998

41. Frontiers in Nuclear Astrophysics, Plenary Talk, DNP meeting, Santa Fe, NM, October 1998

42. Nuclear structure in the rp-process, Conference on Physics in the year 2000, Capetown, South Africa, January 1999

43. Frontiers in Nuclear Astrophysics, ACS Symposium on Astrophysics, Anaheim, CA, March 1999

44. Low Energy Accelerators in Nuclear Astrophysics, NSF Town Meeting on Future of Nuclear Astrophysics, Notre Dame, IN, June 1999

45. The experimental future for the rp process, Conference on high T and low τ, Sedona, AZ, August 1999

46. The ignition and cooling of x-ray bursts, Invited Lecture, Nishinomiya-Yukawa Symposium in honor of the 50th anniversary of the Nobel Prize for H. Yukawa, Nishinomiya, Japan, November 1999

47. Aspects of Stellar He-Burning, Symposium on 'Current Topics in Nuclear Physics' Kyoto, Japan, November 1999

48. Trigger and Endpoint of the rp-Process, 9th Riken Workshop on Radioactive Beam Physics, RIKEN, Tokyo, Japan, November 1999

49. Trigger and Cooling of X-Ray Bursts, 23rd Symposium on Nuclear Physics, Oaxtepec, Mexico, January 2000

50. The Endpoint of the rp-Process, Meeting of the American Chemical Society, San Francisco, CA, March 2000

51. The rp-process at X-ray burst conditions, Conference on the Intersection of Nuclear & Particle Physics, Quebec, Canada, May 2000

52. Nuclear Physics Aspects in the rp-process, Workshop on Thermonuclear Astrophysical Explosions, Chicago, IL, June 2000

53. Advances in Experimental Techniques and Facilities, 6th International Conference on Nuclei in the Cosmos, Aarhus, Denmark, June 2000

54. Stars on Earth: Recent Results and Perspectives with RIB Facilities, Conference on Nucleus Collisions, Strasbourg, France, July 2000

55. The $^{12}Ca(\alpha, \gamma)\ ^{13}C(\alpha,n)$ Reactions in Stellar He-Burning, Nucleosynthesis 2000 Workshop, ACS Conference, Washington, DC, August 2000

56. Opportunities in Nuclear Astrophysics with RIA, NSAC Long Range Planning Meeting, Santa Fe, New Mexico, March 2001

57. Waiting- and End-Points of the rp-Process, North-West European Conference on Nuclear Physics, Bergen, Norway, April 2001

58. Reaction Rates in Explosive Hydrogen Burning, Workshop on Nuclear Astrophysics, York, United Kingdom, May 2001

59. Nuclear Reaction Rates in the Thermonuclear Runaway Phase of Accreting Binary Star Systems, ENAM 2001 Conference, Hameenlinna, Finland, July 2001

60. Nuclear Masses in Nuclear Astrophysics, Conference on Atom Traps at TRIUMF, Vancouver, BC, Canada, April 2002

61. JINA: Opportunities in Nuclear Astrophysics, NSCL User Meeting, Michigan State University, East Lansing, MI, October 2002

62. Opportunities in Nuclear Astrophysics with RIA, Presentation to the DOE Office of Science, Washington, DC, October 2002

63. Nuclear Structure in 'Nuclear Astrophysics' International Symposium on "The Nuclear Many-Body System: Exploring the Limits," Gent, Belgium, October 2002

64. Nuclear Astrophysics of Neutron Rich Nuclei, 3rd International Conference on Fission and Properties of Neutron-Rich Nuclei," Sanibel Island, Florida, November 2002

65. The Fate of Matter on Accreting Neutron Stars, Oaxtepec Meeting, Taxco, Mexico, January 2003

66. Nuclear Physics Phenomena in Cataclysmic Stellar Binary Systems, APS Spring Meeting, Philadelphia, PA, April 2003

67. The Ignition of the r-Process, Gordon Conference, Nuclear Physics, Colby College, MA, August 2003

68. Cosmic Signatures for Nuclear Decay, Workshop on Decay Spectroscopy, Oak Ridge, TN, August 2003

69. Nuclear Astrophysics – Underground, Workshop Underground Accelerators for Nuclear Astrophysics, Tucson, AZ, October 2003

70. The rp-process, DNP workshop on Nuclear Astrophysics, Tucson, AZ, October 2003

71. Nuclear Science of the Cosmos, Chemical History of the Universe, plenary talk DNP Fall meeting, Tucson, AZ, November 2003

72. Far of Stability Processes in Nuclear Astrophysics, RIA Theory Meeting, Westward Look Resort, Tucson, AZ, November 2003

73. Neutron Capture on light Halo Nuclei – is there a light r-Process? Workshop on: New Opportunities and Challenges with DANCE, Santa Fe, NM, February 2004

74. Pycnonuclear Reactions in the Crust of Accreting Neutron Stars, Invited Talk, Workshop on "Physics of Accreting Neutron Stars," Santa Barbara, CA, April 2004

75. Experimental Challenges in Nuclear Astrophysics, Invited Talk, INCP 2004 Conference, Goeteborg, Sweden, July 2004

76. Nuclear Reaction Rates – What About a Nuclear Astrophysics Data Archive? SciDAC Workshop on Supernova Model Simulations, Lawrence Livermore National Laboratory, Livermore, CA, December 2004

77. Neutron capture in light halo nuclei – trigger of a light r-process? n-ToF Workshop on Neutron Induced Reactions, CERN, Geneva, Switzerland, March 2005

78. Goals and Status of Experimental Nuclear Astrophysics, NSAC Sub-Committee Meeting, Bethesda, MA, April 2005

79. Stellar Neutron Sources for the s-Process, Aspen Workshop on "The Physics of the s-Process," Center for Physics, Aspen, Colorado, May 29 – June 12, 2005

80. JINA, Achievements and Accomplishments, NSF PFC directors' meeting, Washington, DC, July 6, 2005

81. Nucleosynthesis – The Origin of the Elements, Gordon Conference for Nuclear Physics, Maine, July 12, 2005

82. Nucleosynthesis on the Extremes of Temperature and Density – from thermonuclear to pycnonuclear reactions, Invited Plenary Talk at the "VI Latin American Symposium on Nuclear Physics and Application" in Iguaz, Argentina, October 3-7, 2005

83. Charge Particle Reaction Rates from Stellar He to C Burning, VIII Torino Workshop on Nucleosynthesis in AGB Stars "Constraints on AGB Nucleosynthesis from Observations," Granada, Spain, February 6-10, 2006

84. Nuclear Reactions in Stellar Burning, Workshop on Massive Stellar Progenitors "The Final Days of Burning," Santa Barbara, CA, March 9-10, 2006

85. Neutron Sources in Stellar Helium and Carbon Burning, 2006 Mitchell Symposium on Astronomy, Cosmology, & Fundamental Physics, Texas A&M University, College Station, TX, April 10-14, 2006

86. Break-Out from the Hot CNO Cycles; a Case for Radioactive Beam Experiments, 2006 Gordon Conference for Nuclear Chemistry, Colby-Sawyer-College, New London, NH, June 6-9, 2006

87. Testatio Academica, Claus Rolfs, Achievements in Nuclear Astrophysics, Federico Secondo Universite de Napoli, Naples, Italy, June 15, 2006

88. Reaction Rate of $^{15}O(\alpha,\gamma)^{19}Ne$ via indirect Measurements, IX International Symposium on Nuclei in the Cosmos, CERN, Geneva, Switzerland, June 25-29, 2006

89. Astrophysical Nuclear Reactions - Break-Out from the Hot CNO Cycles, 28th International School of Nuclear Physics, Erice, Sicily, Italy, September 16 - 24, 2006

90. Trigger of the rp- and the αp-Process, Workshop on "Exotic nuclei: from the Laboratory to the Cosmos," DNP fall meeting, Nashville, TN, October 25-29, 2006

91. Nucleosynthesis – The Origin of the Elements, Australian Institute of Physics Congress AIPC2006, Brisbane, Australia, December 3-8, 2006

92. Stellar Nuclear Astrophysics, DNP Town-Meeting on Nuclear Structure and Nuclear Astrophysics; Chicago, Il, January 19, 2007

93. Nucleosynthesis in Thermonuclear and Pycnonuclear Burning Environments, NUSTAR collaboration meeting, GSI, Darmstadt, Germany, March 19-23, 2007

94. Nucleosynthesis, The Origin of Elements, International Symposium on Nuclear Data for Industry and Applications, ND2700, Nice, France, April 2007

95. The Role and Impact of University Laboratories on Nuclear Physics, NSAC Long Range Planning Meeting, Galveston, TX, April 2007

96. The Role of Franz Käppeler for the Field of Nuclear Astrophysics, Workshop on experimental opportunities for nuclear astrophysics at the Frankfurt neutron source of the Stern-Gerlach-Zentrum - The FRANZ Neutron Source -, Frankfurt, Germany, May 21 – 23, 2007

97. Diversity in JINA, PFC Directors Meeting, National Science Foundation, Washington, DC, June 28, 2007

98. The Social Network of a Physics Frontier Center -JINA , PFC Directors Meeting, National Science Foundation, Washington, DC, June 28, 2007

99. News and Challenges on Reaction Rates for Charged Particles Z>8, Nuclear Astrophysics: Beyond the First 50 Years, Pasadena, CA July 25, 2007

100. The Influence of Cluster States in Astrophyical Reactions, International Symposium Clusters '07, Stratford upon Avon, UK, September 3-7, 2007

101. Nucleosynthesis at the Extremes of Temperature and Density, from Thermonuclear to Pycnonuclear Burning, St Tecla Summerschool, St. Tecla, Catania, Sicily, Italy September 27, 2007

102. Nuclear Processes in Stellar Explosions, Fourth International Conference on Fission and Properties of Neutron-Rich Nuclei, Sanibel Island, Florida, November 11 - 17, 2007

103. Nuclear Physics in the Emerging Universe; the Origin of the Elements, Invited Plenary Session from "Quarks to the Cosmos," APS Spring Meeting, New Orleans, Louisiana, March 10 - 14, 2008

104. R-Matrix and Nuclear reactions in Stellar Hydrogen and Helium Burning, Opening talk at the workshop on R-matrix applications, Santa Fe, NM, April 21-23, 2008

105. Accelerator Laboratory for Underground Nuclear Astrophysics Experiments at DUSEL, Homestake Laboratory Workshop, Lead, SD, April 26, 2008

106. Nuclear Processes in the Crust of Neutron Stars – from thermonuclear to pycnonuclear burning, EMMI meeting, GSI Darmstadt, Germany July 2008

107. Future Perspectives in Nuclear Astrophysics, Summary presentation, International Symposium on Nuclei in the Cosmos, Mackinaw Island, USA July 2008

108. Low Energy Capture Reactions in the CNO Cycles, 13th International Conference on Capture Gamma Rays and Related Topics, CGS13, Köln, Germany August 2008

109. Fusion Processes in Stars – from Thermonuclear to Pycnonuclear Reactions: International Conference on New Aspects of Heavy Ion Collisions near the Coulomb Barrier Fusion 2008, Chicago, IL September 2008

110. CNO Reaction Studies and the Question of Primordial Solar Metallicity: 32nd Symposium on Nuclear Physics, Cocoyoc, Mexico January 2009

111. Future Facilities for the Study of Fusion Cross Sections for the pp-Chain and CNO Cycles: INT Workshop on Solar Fusion Cross Sections for the pp chain and CNO cycle, Seattle, WA January 2009

112. History and Impact of the $^{12}C+^{12}C$ Reaction: CLAUS 2009 - The Role of Low Energy Fusion Reactions in Nuclear Astrophysics, Anacapri, Naples, Italy, May 2009

113. Methods and Techniques in Nuclear Astrophysics; DPG Heraeus Symposium on Nuclear Astrophysics, Bad Honnef, Germany, June 2009

114. Experimental Methods and Techniques in Nuclear Astrophysics: National Nuclear Physics Summer School, Michigan State University, East Lansing MI, July 2009

115. DIANA, Dakota Ion Accelerator for DUSEL: Fall Workshop on DUSEL SCIENCE and Development of the MREFC; Lead, South Dakota, USA, October 2009

116. Future Facilities for Nuclear Astrophysics: Plenary Talk, International Symposium on Nuclei in the Cosmos NIC2010, Heidelberg, Germany, July 2010

117. Opportunities in Nuclear Astrophysics with Radioactive Beams: NSCL Users Meeting, Michigan State University, East Lansing, MI, August 2010

118. DIANA, Dakota Ion Accelerator for DUSEL: Meeting of the NP2010 Committee of the National Science Academy, Irvine CA, September 2010

119. The Origin of Elements, the Engine of Stars: DNP Fall meeting, invited talk, Santa Fe, NM, October 2010

120. The Joint Institute for Nuclear Astrophysics: Canadian Workshop on the Nuclear and Astrophysics of Stars; TRIUMF, Vancouver BC, Canada December 2010

121. Perspectives on Nuclear Astrophysics and DUSEL: National Science Academy, Washington DC, December 2010

122. Karl-Ludwig Kratz – A Life for the r-Process: The 8th Russbach Workshop on Nuclear Astrophysics & 70th birthday of K.-L. Kratz, Rußbach am Pass, Austria, March 2011

123. Heavy ion fusion reactions from late stellar burning to neutron star crust: Encontro de Fisica 2011, Foz do Iguaçu, Brazil, May 2011

124. Neutron Sources and Neutron Poison in late Stellar Evolution: Encontro de Fisica 2011, Foz do Iguaçu, Brazil, May 2011

125. DIANA, Development of an Underground Accelerator Laboratory: National Science Foundation, Washington, DC July 2011

126. Nuclear Astrophysics Underground: IX Latin American Symposium on Nuclear Physics and Applications, Quito, Ecuador, July 2011

127. Topics in Nuclear Astrophysics: 3 lectures, Scottish Summer School for Nuclear Physics, St. Andrews University, St. Andrews, UK, August 2011

128. The Physics of the ^{22}Ne(α,n) Neutron Source: EMMI-JINA workshop on the Light-Element Production Process LEPP, GSI Darmstadt, October 2011

129. Challenges and Limits of Experiments with Small Accelerators: WE-Heraeus Seminar on "Astrophysics with modern small-scale accelerators", Bad Honnef, Germany, February 2012

130. Nuclear Science Opportunities at the National Ignition Facility: Presentation to the Nuclear Science Advisory Committee of the Department of Energy and the National Science Foundation, Bethesda, MD, March 2012

131. The Physics of Reaction Rates in Stellar Environments: 9th International Conference on High Energy Density Laboratory Astrophysics HEDLA2012; Florida State University, Tallahassee, April 2012

132. Nuclear Reactions in Stellar Burning: 11th International Conference on Nucleus-Nucleus Collisions, San Antonio, Texas, May 2012

133. Der Bethe Weizsäcker Zyklus: „Physik, Philosophie und Friedensforschung“ Leopoldina-Symposium anlässlich des 100. Geburtstages Carl-Friedrich von Weizsäckers, Leopoldina, Halle, Germany, June 2012

134. Nuclear Science Opportiunities at the National Ignition Facility NIF: NSAC Meeting, Washington, DC, July 2012

135. New Opportunities in Nuclear Astrophysics: Nuclei in the Cosmos XII, NICXII, Invited Opening Address, Cairns, Australia, August 2012

136. Nuclear Astrophysics Experiments with Stable Beams: Nuclear Structure 2012, Argonne National Laboratory, August 2012

137. Stable Beam Accelerator for Nuclear Astrophysics, St. ANA at Notre Dame: The Low Energy Community Meeting, Argonne National Laboratory, August 2012

138. Concepts and Facilities of the Nuclear Astrophysics Program in the United States: NSAC-Subcommittee to the Department of Energy, Washington, DC, September 2012

139. The Role of Centers in Nuclear Astrophysics: Nuclear Astrophysics Town Meeting; Detroit, MI, October 2012

140. Nuclear Astrophysics with Stable Beam Accelerators: An Overview: Nuclear Astrophysics Town Meeting; Detroit, MI, October 2012

141. Critical reactions in Early Stellar Evolution Phases: Nuclear Astrophysics Town Meeting; Detroit, MI, October 2012

142. Nuclear Astrophysics at the National Ignition Facility: Welcome Talk: EMMI-JINA Workshop on NIF for Nuclear Astrophysics; Notre Dame London Centre, London, UK, October 2012

143. Nuclear Astrophysics; Challenges at Threshold Energies: Fifth International Conference on Fission and Properties of Neutron-Rich Nuclei, Sanibel Island, Florida, November 5 - 10, 2012

144. The DIANA Project: Technical Review Workshop, Berkeley, CA, January 2013

145. Technical Requirements and Needs for the DIANA Project, Technical Review Workshop University of North Carolina, Chapel Hill, NC, February 2013

146. The Nuclear Science Laboratory; Nuclear Physics Community Meeting, Michigan State University, August 2013

147. Nuclear Reactions in Stellar Burning; XXXIII MAZURIAN LAKES CONFERENCE ON PHYSICS, "Frontiers in Nuclear Physics", Piaski, Poland, September 2013

148. Hydrogen and Helium Burning in Stars; Workshop on Nuclear Physics with Recoil Separators, Caserta, Italy, October 2013

149. Carbon from Red Giants to White Dwarfs; Wigner 111 - Colourful and Deep, in Honor of Eugene Wigner's 111. Birthday, Budapest, Hungary, November 2013

150. Nuclear Astrophysics Challenges at Threshold Energies: Workshop on Nuclear Astrophysics, Sao Paulo, Brazil, April 2014

151. Nuclear Astrophysics at Notre Dame: ARUNA town meeting, University of Notre Dame, June 2014

152. Nuclear Astrophysics between hydrogen and carbon burning: European Summerschool in Nuclear Astrophysics, Siniai Romania, July 2014

153. Internationalization of Science: Workshop on 60 years Anniversary of CERN, Siniai, Romania, July 2014

154. The Physics of Underground Accelerators: Hawaii 2014, 4th Joint meeting of the Nuclear Physics Divisions of the APS and JPS, October 2014

155. The Long Range Plan for Nuclear Astrophysics: NSAC Resolution Meeting, Kitty Hawk, NC, April 2015

156. Underground Laboratories for Nuclear Astrophysics: XXXIV Mazurian Lake Conference on Frontiers in Nuclear Physics, Piaski, Poland, September 2015

157. From Nuclear Astrophysics to Material Analysis: 2nd Notre Dame Conference on Applied Nuclear Science, Notre Dame Gateway Center, Rome, Italy, November 2015

158. Introduction to experimental nuclear astrophysics: SPES Workshop on Nuclear Astrophysics, Caserta, Italy, November 2015

159. Climate Physics in the Classroom: AAPT summer meeting, Sacramento, CA, July 2016

160. Neutrons Underground: Neutron Nuclear Data Directions Into the Next Half Century (N2D2), Los Alamos, NM, August 2016

161. The Notre Dame Nuclear Science Laboratory: Low Energy Nuclear Community meeting, ARUNA session, Notre Dame, IN, August 2016

162. Arthur Haas, his life and his last years at Notre Dame; 2nd International Conference on the History of Physics, Pöllau, Austria, September 5 - 7, 2016

163. The Caspar Facility for Underground Nuclear Astrophysics: Silver Moon: The first and the next 25 years of Nuclear Astrophysics at Gran Sasso, Gran Sasso, Italy, December 1-2, 2016

164. Astrophysics with Underground Accelerators: JINA Frontier Meeting, Michigan State University, February 7-9, 2017

165. The αp-Process in X-Ray Bursts: Farewell Symposium Prof. Thielemann, Universität Basel, Switzerland, March 3, 2017

166. Age and Provenance – Physics Methods in Cultural Heritage Studies: March Meeting 2017 of the American Physical Society, March 13-17 in New Orleans, Louisiana.

167. The CNO Cycles – The Importance of an Historical Idea: Plenary Talk at the Spring Meeting of the Deutsche Physikalische Gesellschaft (DPG) in Münster, Germany, March 27 – 31, 2017.

168. The Physics of Nuclear Reaction Rates: Forging Connections, Michigan State University, June 26-29, 2017

169. Nucleosynthesis in First Stars: 50th Anniversary Symposium, Texas A&M University, November, 2017

170. Nucleosynthesis in Early Stars and the On-Set of Biological Evolution: Symposium in Honor of Filippo Terrasi, University of Naples II, Caserta, December 2017

171. Nuclear Structure in Early Stars; 15th Russbach School in Nuclear Astrophysics, Russbach, Austria, March 18-23, 2018

172. 80 years of Notre Dame History. 80 year Anniversity of the Nuclear Science Laboratory, Notre Dame, IN, April 2019

173. Clusters and Mirrors: SOTANCP4, Galveston, Texas, May 2018

174. Laboratory Astrophysics with Nuclei: Astronomical Society Meeting, Denver, Co, June 2018

175. Nucleosynthesis of First Stars; Annual Meeting of the Academia Europaea, Barcelona, Spain, October 2018.

176. Nuclear Structure in Early Stars, 16th Russbach School in Nuclear Astrophysics, Russbach, Austria, March 10-16, 2019

177. Stable Beam Developments and Initiatives at JINA for determining Stellar Reaction Rates, NSF review Panel, Michigan State University, April 2019

178. Neutron Sources for the i-Process; Workshop on the i-Process,, TRIUMF, Vancouver, Canada, May 2019

179. Stellar neutron sources for the i-process: XXXV Mazurian Lakes School, Piaski, Poland, September 2019

Postdoctoral Fellows Supervised

1. Joachim Görres (1986-1992)
2. Edward Stech (1992-1995)
3. Ulrich Giesen (1995-1998)
4. Leandro Gasques (2002-2005)
5. Saed Dababneh (2003)
6. Jacob Fisker (2004-2007)
7. Heide Costantini (2005-2006)
8. Manoel Couder (2005-2008)
9. Francesco Raiola (2007-2008)
10. Daniel Schuermann (2007-2009)
11. Daniel Robertson (2010-2012)
12. Mary Beard (2010-2012)
13. Richard DeBoer (2012-2016)
14. Hyo Soon Jung (2012-2014)
15. Kiana Setoodehnia (2012-2014)
16. Khatchatur Manukyan (2012-2016)
17. Ethan Uberseder (2013-2014)
18. Kevin Macon (2016-2019)
19. Axel Boelzig (2017-2019)

Dissertations Supervised

1. "The Influence of the Level Structure of ^{20}Na upon the Stellar Reaction Rate for ^{19}Ne(p,γ) ^{20}Na," Larry Odell Lamm, PhD Thesis, University of Notre Dame, May 1989.

2. "Nuclear and Astrophysical Implications of Proton Capture on ^{28}Si," Stephen M. Graff, PhD Thesis, University of Notre Dame, May 1990.

3. "Energy Levels in ^{32}Cl above the Proton Threshold and Astrophysical Network Calculations," Laura Van Wormer, PhD Thesis, University of Notre Dame, July 1991.

4. "Study of α-Capture and α-Transfer Reactions on ^{18}O and ^{22}Ne and Astrophysical Implications," Ulrich Giessen, PhD Thesis, University of Notre Dame, June 1992.

5. "Untersuchung von Zuständen in ^{40}Ca nahe der Protonenschwelle und deren Einfluss auf den Reaktionsfluss im explosiven Wasserstoffbrennen," Jörn Meissner, Diploma Thesis, Technische University München, Februay 1993.

6. "Explosive Stellar Hydrogen Burning in the Mass A = 30-40 Region," Christian Iliadis, PhD Thesis, University of Notre Dame, October 1993.

7. "The β-Delayed Neutron Decay of the Exotic Nuclei ^{18}N, ^{17}C and ^{18}C," Kent W. Scheller, PhD Thesis, University of Notre Dame, November 1993.

8. "Coincidence Measurements of Reaction Branchings in the Hot CNO Cycles and the rp-Process," Gaylon Ross, PhD Thesis, University of Notre Dame, July 1994.

9. "Activity Measurements of Importance to Stellar Nucleosynthesis," Jörn Meissner, PhD Thesis, University of Notre Dame, October 1996.

10. "Wasserstoffbrennen unter extremen Temperatur- und Dichtebedingungen," Hendrik Schatz, PhD Thesis, Universität Heidelberg, December 1997.

11. "A Study of the Levels of Astrophysical Importance in ^{32}Cl and ^{35}Ar," Stilianos Vouzoukas, PhD Thesis, University of Notre Dame, December 1997.

12. "The Use of Elastic Scattering to Constrain the Stellar Reaction Rate of ^{12}C(α,γ)^{16}O," PhD Thesis, University of Notre Dame, Paul Tischhauser, May 2000.

13. "Alpha Scattering Applications in Astrophysics," Rebecca Detwiler, PhD Thesis, University of Notre Dame, May 2001.

14. "Nuclear Structure and rp-Process Nucleosynthesis," Victoria Barnard, Master Thesis, University of Surrey, UK, June 2001.

15. "Pycnonuclear Reaction Rates in the Deep Layers of Accreting Neutron Stars," Mary Beard, Master Thesis, University of Surrey, UK, June 2003.

16. "Alpha Scattering Applications in Astrophysics," Ed Stech, PhD Thesis, University of Notre Dame, May 2004.

17. "The Reaction rates of ^{6}He(α,n)^{9}B and ^{4}He(^{2}n,γ)^{6}He and the r-Process," Amy Bartlett, Master Thesis, University of Surrey, U.K., June 2004.

18. "Lifetime Measurements of Excited States in ^{19}Ne," Jason Daly, PhD Thesis, University of Notre Dame, May 2005.

19. "The ^{19}F(α,p) reaction and the nucleosynthesis of fluorine," Claudio Ugalde, PhD. Thesis, University of Notre Dame, July 2005.

20. "^{19}F(p,γ)^{20}Ne and the Stellar CNO Burning Cycle," Aaron Couture, PhD Thesis, University of Notre Dame, January 2006.

21. "Untersuchung der Kernreaktion ^{20}Ne(p,γ)^{21}Na im astrophysikalisch interessanten Energiebereich," Sascha Falahat, Diploma Thesis, Universität Mainz, January 2006

22. "R-Matrix Analysis of CNO Cycle Reactions," Edward Simpson, Master Thesis, University of Surrey, UK, April 2006

23. "The $^{18}F(\alpha,p)^{21}Ne$ reaction and its Astrophysical Implications," Hye Young Lee, PhD Thesis, University of Notre Dame, January 2007

24. "AGB Star Nucleosynthesis of the Magnesium Isotopes," Elisabeth Strandberg, PHD Thesis, University of Notre Dame, April 2007

25. "A Search for Second Class Currents in the A=8 System," Jennifer M. Couture, PhD Thesis, University of Notre Dame, November 2007

26. "PIXE Improvements and Investigations at Notre Dame," Barry Clark, Master Thesis, University of Surrey, UK, April 2008

27. "CIGAR, Development of a Statistical Model Program for the Calculation of Nuclear Reaction rates and Cross Sections," Richard Crowter, Master Thesis, University of Surrey, UK, April 2008

28. "Alpha Elastic Scattering near the Z=50 Region for the Determination of local alpha Potentials," Annalia Palumbo, PhD Thesis, University of Notre Dame, August 2009

29. "Experimental Investigation of the Reactions $^{25}Mg(\alpha,n)^{28}Si$, $^{26}Mg(\alpha,n)^{29}Si$, $^{18}O(\alpha,n)^{21}Ne$ and their Impact on Stellar Nucleosynthesis," Sascha Falahad, PhD Thesis, Johannes Gutenberg Universität Mainz, Germany (Co-Advisor), July 2010

30. "Exploring the αp-Process with high Precision (p,t) Reactions," Shawn O'Brian, PhD Thesis, University of Notre Dame, August 2010

31. "New Measurements and R-Matrix Analysis of the $^{15}N(p,\gamma)^{16}O$ Reaction," Paul. J. LeBlanc, PhD Thesis, University of Notre Dame, August 2010

32. "Reaction Rate Calculations in dense Stellar Matter," Mary Beard, PhD Thesis, University of Notre Dame, August 2010

33. "Testing the Properties of a Gas Target System," Charles Akers, Master Thesis, University of Surrey, UK, April 2011

34. "Nucleosynthesis during Freeze-Out Expansions in Core-Collapse Supernovae, " Georgios Magkotsios, PhD Thesis, University of Notre Dame, May 2011

35. "Measurements and Analysis of α-induced Reactions of Importance for Nuclear Astrophysics", Richard James DeBoer, PhD Thesis, University of Notre Dame, August 2011

36. "Measurement of Alpha Capture Reactions on ^{17}O and ^{18}O for the s-Process," Andreas Christian Best, PhD Thesis, University of Notre Dame, January 2012

37. "Direct Capture in Nuclear Astrophysics," Antonios Kontos, PhD Thesis, University of Notre Dame, January 2012

38. "Experimentally Constraining the Nucleosynthesis of ^{60}Fe in Massive Stars," Ethan Uberseder, PhD Thesis, University of Notre Dame, March 2013

39. "Testing the Angular Acceptance and Ion Optics Calculation for the St George Recoil Mass Separator," Michael Rix, Master Thesis, University of Surrey, UK, April 2013

40. "β-Delayed Neutron Emission Studies of Neutron-Rich Palladium and Silver Isotopes" Karl Smith, PhD Thesis, University of Notre Dame, May 2014

41. " Radiation induced chemical activity at iron and copper oxide" Sarah Reiff, PhD Thesis, University of Notre Dame, May 2015

42. "Stellar neutron sources and s-process nucleosynthesis in massive stars" Rashi Talwar, PhD thesis, University of Notre Dame, May 2015

43. " Measurement of the ^{14}N(p,γ)^{15}O reaction in the CNO cycle" Qian Li, PhD thesis, University of Notre Dame, August 2015

44. "^{20}Ne(p,γ)^{21}Na cross section study with the 5U accelerator" Stephanie Lyons, PhD thesis, University of Notre Dame, August 2016

45. "Measurement and Extrapolation of total cross sections of the ^{12}C+^{16}O fusion at stellar energies" Xiao Feng, PhD thesis, University of Notre Dame, August 2016

46. "An indirect study of the astrophysical ^{34}Ar(α,p)^{37}K reaction and its impact on type-I X-ray burst light curves" Alexander Long, PhD thesis, University of Notre Dame, August 2016

New Course Developments

1.	"Physics Methods in Art and Archaeology"; web based course with 700 pages script; Physics 178 Physics 10262	FS 2000-2002 FS 2008, FS 2013
2.	"Topics Nuclear Astrophysics"; graduate student tutoring	WS 2003
3.	"Nuclear Weapons and Nuclear Warfare"; web-based course with 500 pages of script, Physics 205 Physics 20061	FS 2003-2006, FS 2010, FS 2012
4.	"Physics of Climate"; level 200 course Physics 20054	FS 2011, FS 2014
5.	Radioactivity – Environmental and Societal Impact; level 200 course	FS 2016, FS 2017, FS 2019
6.	Nuclear Physics Applications in Research and Industry	WS 2018
7.	Nuclear Astrophysics from a nuclear perspective, level 600	FS 2018