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Education

Ph.D. Physics Université Catholique de Louvain (Belgium), June 2004
M.Sc. Physics Université Catholique de Louvain (Belgium), June 1999
B.Sc. Physics Université Catholique de Louvain (Belgium), June 1998

Appointments

Assistant Professor, University of Notre Dame, 07/2013 - Present
Research Assistant Professor, University of Notre Dame, 01/2009 – 06/2013
Research Associate, University of Notre Dame, Nuclear Structure Laboratory, 10/2004–12/2008.

Doctoral Dissertations Directed

2013-2018 Edward Lamere. Current position: Postdoc at the University of Massachusetts Lowell

Doctoral Student Under Supervision

2016-present Shane Moylan
2016-present Patricia Huestis co-advised with Jay laVerne (Radiation Laboratory, Notre Dame)
2015-present Luis Morales
2014-present Gwenaëlle Gilardy, Student at the Université de Bordeaux, France. Co-advising with Bertram Blank from the Université de Bordeaux
2014-2015 Rory Hamilton co-advised with M. Wiescher
2013-present Michael Moran co-advised with M. Wiescher
2013-present Christopher Seymour co-advised with M. Wiescher

Post-doctoral Researchers

2015-2016 Zachary Meisel. Current position: Assistant Professor at Ohio University

Professional Memberships

American Physical Society
European Physical Society

Services to Profession:

Reviewer for
The European Physical Journal A
Nuclear Instruments and Methods A (Outstanding reviewer award Achieved June 2017)
Nuclear Instruments and Methods B
Physical Review Letter
Physical Review C
Oxford University Press

Organizer

Co-Organizer and instructor for the JINA-CEE Ion Optics Summer School (2018).

Fall meeting of the Prairie Section of the American Physical Society, November 19th to 21st 2015 Notre Dame, IN.

Convener of session on Applied Nuclear Physics at the first ARUNA workshop, Notre Dame, IN, August 2014.

Frontiers 2010, Workshop on Nuclear Astrophysics, October 21-23, 2010 Abbey Resort, Lake Geneva WI.

Advisory Committee

Member of international program committee for NICKV (Nuclei in the Cosmos 2018), the flagship conference series on Nuclear Astrophysics.

Member of the review committee of the Argonne Gas-filled Fragment Analyzer (AGFA) 2014 present.

Reviewer for the NSF Graduate Research Fellowships Program (GRFP) (2016).

Member of the DuRA (Deep Underground Research Association, the user group focused on experiment at the Sanford Underground Research Facility) Executive Committee (2011-2016).

Member of the international advisory committee of The International Conference on Electromagnetic Isotope Separators and Related Topics (EMIS), May 11 through May 15, 2015, Grand Rapid, MI.

Service to University

Member of the Preliminary Exam (2013-2018), Research Services (2015-2018), Safety (2014-2018), Graduate Recruitment (2013-2014) departmental committees and College of Science Computing Committee (2017-present)

Supervisor of computing technician for the Nuclear Science Laboratory of Notre Dame (2011-present)

Managed computing of Nuclear Science Laboratory of Notre Dame (2010-2011)

Invited Lectures and Addresses

1. Invited Colloquium October 2018 Ball State University.
2. "Instrumentation Plans for FRIB and ReA", Invited introductory talk for the Mini-Symposium on FRIB and ReA Instrumentation at the APS April Meeting 2018, Columbus, OH.
3. "St. George and SECAR", Invited talk at Nuclear Astrophysics at Rings and Recoil Separators, GSI Darmstadt, Germany, 2018.
4. "Reaction Studies with Magnetics Separators", Invited lecture at IX European Summer School on Experimental Nuclear astrophysics, Santa Tecla, Italy, September 2017.
5. "SECAR Project, Magnets and Wien Filters", Invited talk at the Fragment Separator Expert Meeting (invitation only), Grand Rapid, MI, September 2016.
6. "Commissioning of the St. George Recoil Separator at the University of Notre Dame", M. Couder, G. Gilardy, J. Hinnefeld, A. Jemcov, Z. Meisel, L. Morales, M. T. Moran, C. Seymour, K. Shi, Poster at Nuclei in the Cosmos XIV, Niigata, Japan, June 2016.
7. "Experimental investigation of Helium capture reactions of astrophysical interest", Invited seminar at LBL Physics division, March 23rd 2016: Berkeley, CA.

8. "Beam Optics", 2015 Exotic Beam Summer School, Invited Lecture, Florida State University, Tallahassee, Florida 2015.
9. "Recoil Separators", Talk at the Annual Low Energy Community meeting, East Lansing, MI, August 2015.
10. "Experimental Investigation of Helium Capture Reactions of Astrophysical Interest", Invited seminar, Ohio University, March 2015.
11. "Recoil Separators for Nuclear Astrophysics studies", Invited lecture at 12th Russbach School on Nuclear Astrophysics, Russbach, Austria, March 2015.
12. "Nuclear astrophysics studies with charged particles in hot plasma environments", Invited talk at American Chemical Society, National meeting and exposition, San Francisco, California, August 2014.
13. "Helium Radiative Capture Studies, St. George Recoil Mass Separator", talk at the Joint DNP Town Meetings on Nuclear Structure and Nuclear Astrophysics, College Station, Tx, August 2014.
14. "Experimental techniques to investigate neutron sources for the s-process", Invited talk at 23rd Conference on Application of Accelerators in Research and Industry, San Antonio, Texas, May 2014.
15. "Experimental Investigation of Helium Capture Reactions of Astrophysical Interest", Invited seminar, Argonne National Laboratory, May 2014.
16. "Nuclear astrophysics studies with charged particles in hot plasma environments", Invited talk at 10th International Conference on High Energy Density Laboratory Astrophysics, Bordeaux, France, May 2014.
17. "Experimental Investigation of Helium Capture Reactions of Astrophysical Interest", Invited seminar, Michigan State University, April 2014.
18. "The SECAR separator design", Invited talk at the 5th Expert Meeting on Challenging Issues of Next-generation High-intensity In-flight Separators (invitation only), RIKEN, Wako, Japan, December 2013.
19. "St. George and SECAR, two recoil separators for Radiative Capture Studies", Invited talk at Recoil Mass Separator Workshop, Caserta, Italy, October 2013.
20. "SECAR: Background Studies", talk at the annual Low Energy Community Meeting, East Lansing, August 2013.
21. "High Intensity Beam Experiments for Nuclear Astrophysics Studies", talk at the annual Low Energy Community Meeting, East Lansing, August 2013.
22. "High Intensity Beams for Nuclear Astrophysics Studies", Talk at Gordon Conference in Nuclear Chemistry, New London, NH, June 2013.
23. "Recoil Separators for Radiative Capture Studies", Invited talk at Nuclear Physics in Astrophysics Conference VI, Lisbon, Portugal, May 2013.
24. "Recent progress in recoil separator dedicated for Nuclear Astrophysics", 16th International Conference on Electromagnetic Isotope Separators and Techniques Related to their Applications (EMIS2012), Matsue, Japan, December 2012.

25. "Recoil separator techniques for nuclear astrophysics", Nuclear Astrophysics Town Meeting, Detroit, MI, October 2012.
26. "Studying radiative capture with recoil separators", Frontier 2012, East Lansing, MI, October 2012.
27. "Study of He radiative capture of Astrophysical interest at Notre Dame", Oak Ridge National Laboratory, February 2009.
28. "A Recoil Separator Underground", DUSEL Town Hall meeting, Washington DC, November 2007.
29. "Radiative capture 4He of astrophysical interest at Notre Dame," TRIUMF, Vancouver, Canada, May 2007.
30. "Radiative capture 4He of astrophysical interest at Notre Dame", University of Louvain, Louvain-La-Neuve, Belgium, April 2007.
31. "Recoil separators for the measurement of capture reactions of astrophysics interest," Second CARINA Workshop, Frontiers in European Nuclear Astrophysics, Spa, Belgium, April 2007.
32. "Radiative capture 4He of astrophysical interest at Notre Dame", LBNL Berkeley, California, USA, March 2007.
33. "A recoil separator for ALNA," Henderson DUSEL Capstone Workshop, Stony Brook University, USA, May 2006.

At Notre Dame

1. "Systematic study of $x\text{Mo}+p$ reaction in the context of accelerator based production of ^{99m}Tc ", Talk at the Notre Dame-Europe Symposium on Nuclear Science and Society, London, United Kingdom, October 2014.
2. "The Sta. Ana Accelerator", Talk at the Workshop of the Center of Excellence for Radioactive Ion Beam Studies for Stewardship Science (J. Cizewski), Notre Dame, IN, September 2014.
3. "CASPAR, An Underground Accelerator Laboratory for Nuclear Astrophysics", talk at the first ARUNA workshop, Notre Dame, IN, August 2014.
4. "Bringing the Stars to Main Street, Isotope and energy production studies for societal use", University of Notre Dame, Colloquium, April 2013.
5. "Characterization of the recoil separator ARES and application to the study of $^{19}\text{Ne}(p,g)^{20}\text{Na}$ ", Notre Dame, USA, April 2004.