

Graham F. Peaslee

Professional Preparation

Princeton University	Chemistry	A.B., 1981
State University of New York, Stony Brook	Chemical Physics	Ph.D., 1987

Appointments

Professor of Chemistry & Environmental Science, Hope College,	2007-present
Visiting Scientist, Counterterrorism and Forensic Science Research Unit, FBI Academy, Quantico VA	2007-2008
Assoc. Professor of Chemistry & Environmental Science, Hope College,	2000-2007
Visiting Scientist, Center for Accelerator Mass Spectrometry, Lawrence Livermore National Laboratory, Livermore, CA,	2000-2001
Asst. Professor of Chemistry & Environmental Science, Hope College,	1996-2000
Assistant Professor of Chemistry, Hope College,	1993-1996
Post-doctoral Fellow, National Superconducting Cyclotron Lab., E. Lansing, MI,	1990-1993
Post-doctoral Fellow, Nuclear Science Division, Lawrence Berkeley National Laboratory, Berkeley, CA,	1988-1990

Publications

137 publications since 1983, 34 with 84 undergraduate co-authors*. Recent examples:

1. C.R.Hoffman, T.Baumann, D.Bazin, J.Brown, G.Christian, P.A.DeYoung, J.E.Finck, N.Frank, J.Hinnefeld, R.Howes, P.Mears*, E.Mosby, S.Mosby, J.Reith*, B.Rizzo, W.F.Rogers, G.Peaslee, W.A.Peters, A.Schiller, M.J.Scott, S.L.Tabor, M.Thoennessen, P.J.Voss, T.Williams, "Determination of the N = 16 Shell Closure at the Oxygen Drip Line", *Phys. Rev. Lett.* **100**, 152502 (2008).
2. G. Christian, W.A. Peters, D. Absalon, D. Albertson, T. Baumann, D. Bazin, E. Breitbach, J. Brown, P.L. Cole, D. Denby*, P.A. DeYoung, J.E. Finck, N. Frank, A. Fritsch, C. Hall*, A.M. Hayes, J. Hinnefeld, C.R. Hoffman, R. Howes, B. Luther, E. Mosby, S. Mosby, D. Padilla*, P.V. Pancella, G. Peaslee, W.F. Rogers, A. Schiller, M.J. Strongman, M. Thoennessen, L.O. Wagner, "Production of nuclei in neutron unbound states via primary fragmentation of ^{48}Ca "; *Nucl. Phys.* **A801**, 101 (2008).
3. H. Amro, F.D. Becchetti, Yu Chen, H. Jiang, M. Ojaruega, M.J. Golobish, H.C. Griffin, J.J. Kolata, B. Skorodumov, G. Peaslee, P.A. DeYoung, P. Mears*, D. Denby*, J. Brown, J.D. Hinnefeld, and A.M. Moro, " ^{7}Be -induced alpha-transfer reaction on ^{12}C ", *Eur. Phys. J. Special Topics* **150**, 1–4 (2007).
4. J.S. Pinter*, K.L. Brown, P.A. DeYoung, G.F. Peaslee, "Amperometric Detection of Hydrazine by Cyclic Voltammetry and Flow Injection Analysis Using Ruthenium Modified Glassy Carbon Electrodes," *Talanta* **71**, 1219 (2007).
5. J. J. Kolata, H. Amro, F. D. Becchetti, J. A. Brown, P. A. DeYoung, M. Hencheck, J. D. Hinnefeld, G.F. Peaslee, A. L. Fritsch, C. Hall, U. Khadka*, Patrick J. Mears, P. O'Rourke, D. Padilla*, J. Rieth*, Tabatha Spencer, and T. Williams, "Breakup of ^6He Incident on ^{209}Bi Near the Coulomb Barrier," *Phys. Rev.* **C75**, 031302 (2007).
6. J.J. Kolata, H. Amro, M. Cloughesy, P.A. DeYoung, J. Rieth*, J.P. Bychowski*, G. Peaslee, "A large segmented neutron detector for reaction studies with radioactive beams near the Coulomb barrier." *Nucl. Instr. Meth.* **A557**, 594 (2006).
7. T. Baumann, J. Boike, J. Brown, M. Bullinger, J.P. Bychowski*, S. Clark, K. Daum, P.A. DeYoung, J.V. Evans, J. Finck, N. Frank, A. Grant, J. Hinnefeld, G.W. Hitt, R.H. Howes, B. Isselhardt, K.W. Kemper, J. Longacre, Y. Lu, B. Luther, S.T. Marley, D.

- McCollum, E. McDonald, U. Onwuemene, P.V. Pancella, G.F. Peaslee, W.A. Peters, M. Rajabali, J. Robertson, W.F. Rogers, S.L. Tabor, M. Thoennesen, E. Tryggestad, R.E. Turner, P.J. VanWylen, N. Walker, "Construction of a Modular Large-Area Neutron Detector for the NSCL." *Nucl. Instr. Meth.* **A543**, 517 (2005).
8. P.A. DeYoung, P.J. Mears*, J.J. Kolata, E.F. Aguilera, F.D. Becchetti, Y. Chen, M. Cloughesy, H. Griffin, C. Guess*, J.D. Hinnefeld, H. Jiang, S.R. Jones, U. Khadka*, D. Lizcano, E. Martinez-Quiroz, M. Ojaniega, G.F. Peaslee, A. Pena*, J. Rieth*, S. VanDenDriessche, J.A. Zimmerman, "Two-neutron transfer in the ${}^6\text{He} + {}^{209}\text{Bi}$ reaction near the Coulomb barrier." *Phys. Rev.* **C71**, 051601 (2005).
 9. P. Boutachkov, G.V. Rogachev, V.Z. Goldberg, A. Aprahamian, F.D. Becchetti, J.P. Bychowski*, Y. Chen, G. Chubarian, P.A. DeYoung, J.J. Kolata, L.O. Lamm, G.F. Peaslee, M. Quinn, B.B. Skorodumov, A. Woehr, "Doppler Shift as a Tool for Studies of Isobaric Analog States of Neutron-Rich Nuclei: Application to ${}^7\text{He}$." *Phys. Rev. Lett.* **95**, 132502 (2005).
 10. R. H. Howes, T. Baumann, M. Thoennesen, J. Brown, P. A. DeYoung, J. Finck, J. Hinnefeld, K. W. Kemper, B. Luther, P. V. Pancella, G. F. Peaslee, W. F. Rogers, S. Tabor, "Fabrication of a modular neutron array: A collaborative approach to undergraduate research." *Am. J. Phys.* **73**, 122 (2005).

Synergistic Activities

Hope College Outstanding Professor-Educator,	2000
ACS Division of Nuclear Chemistry & Technology Education Committee,	2000-present
Chair, Technical Subcommittee of MACC Watershed Project,	2001-2004
Chair, Committee on Qualifications & Membership, Sigma Xi National,	2002-2005
Member and Chair, Chemistry REU Leadership Group,	2003-present
Member: American Chemical Society and Division of Nuclear Chemistry & Technology	
Member: American Physical Society and Division of Nuclear Physics	
Member & past-president: Sigma Xi - Hope College Chapter	

PI or co-PI of 21 grants for over \$2,205,000 while at Hope College (since 1994).
Over 42 educational workshops and public presentations since 1994.

Collaborators and other Affiliations

Collaborators: Collaborators: C.M. Mader, P. DeYoung, M. D. Seymour, K. Brown, J. W. Peterson, G. Murray, E. Hansen (Hope College), J.J.Kolata, (Notre Dame), M. Thoennesen, T. Bauman (Michigan State), J. Buscaglia, R.D. Koons, (FBI Academy) R. Rediske, A. Steinman (Grand Valley State U.), Tom Gill (U. Texas – El Paso).

Graduate and Postdoctoral Advisors: John Alexander (SUNY Stony Brook), G.J. Wozniak (Lawrence Berkeley National Lab), C. K. Gelbke (Michigan State).

Thesis Advisor and Postgraduate-Scholar Sponsor: L. Picq (WMU), C. Van Faasen (HHS), D. Cooper (VCU)

Undergraduate Research Students Supervised: 74