

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
Associate Professor of Chemistry & Environmental Science, Hope College,	2000–2007
Assistant Professor of Chemistry & Environmental Science, Hope College,	1996–2000
Assistant Professor of Chemistry, Hope College,	1993–1996
Postdoctoral Fellow, National Superconducting Cyclotron Lab, E. Lansing, MI	1990–1993
Postdoctoral Fellow, Lawrence Berkeley National Laboratory, Berkeley, CA	1988–1990

Publications

127 publications since 1983, 25 with 66 undergraduate co-authors. Recent examples:*

1. 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).
2. 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. Phys. Res. A557*, 594 (2006).
3. 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. Thoennessen, E. Tryggstad, 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).
4. 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.Wohr, "Doppler Shift as a Tool for Studies of Isobaric Analog States of Neutron-Rich Nuclei: Application to ^7He ." *Phys. Rev. Lett.* 95, 132502 (2005).
5. 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).
6. 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.Wohr, "Isobaric analog states of neutron-rich nuclei. Doppler shift as a measurement tool for resonance excitation functions." *Eur. Phys. J. A25*, (Supplement 1), 259 (2005).
7. R. H. Howes, T. Baumann, M. Thoennessen, 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).

8. G.V.Rogachev, A.Aprahamian, F.D.Becchetti, P.Boutachkov, J.P.Bychowski*, Y.Chen, G.Chubarian, P.A.DeYoung, A.Fomichev, V.Z.Goldberg, M.S.Golovkov, J.J.Kolata, Yu.Ts.Oganessian, G.F.Peaslee, M.Quinn, A.Rodin, B.B.Skorodumov, R.S.Slepnev, G.Ter-Akopian, W.H.Trzaska, A.Wohr, R.Wolski; "Structure of exotic ^7He and ^9He ." *Nucl. Phys.* **A746**, 229c (2004).
9. R.R.C.Clement, D.Bazin, W.Benenson, B.A.Brown, A.L.Cole, M.W.Cooper, P.A.DeYoung, A.Estrade, M.A.Famiano, N.H.Frank, A.Gade, T.Glasmacher, P.T.Hosmer, W.G.Lynch, F.Montes, W.F.Mueller, G.F.Peaslee, P.Santi, H.Schatz, B.M.Sherrill, M.-J.van Goethem, M.S.Wallace; "New Approach for Measuring Properties of rp-Process Nuclei." *Phys. Rev. Lett.* **92**, 172502 (2004).
10. G.V.Rogachev, P.Boutachkov, A.Aprahamian, F.D.Becchetti, J.P.Bychowski, Y.Chen, G.Chubarian, P.A.DeYoung, V.Z.Goldberg, J.J.Kolata, L.O.Lamm, G.F.Peaslee, M.Quinn, B.B.Skorodumov, A.Wohr; "Analog States of ^7He Observed via the $^6\text{He}(p, n)$ Reaction." *Phys. Rev. Lett.* **92**, 232502 (2004).

Synergistic Activities

Hope College Outstanding Professor-Educator, 2000
ACS Division of Nuclear Chemistry & Technology Education Committee, 2000-
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-
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 19 grants for \$1,795,000 while at Hope College (since 1994).

Research advisor to over 69 undergraduate students since 1994. Of these 38 have obtained or are currently working towards a Ph.D or professional degree and 12 are still undergraduates.

Over 40 educational workshops and public presentations since 1994.

Collaborators & Other Affiliations

Collaborators: C.M. Mader, P. DeYoung, M. D. Seymour, K. Brown, J. W. Peterson (Hope College), J.J.Kolata, (Notre Dame), B. Sherrill, W.G. Lynch, M.B.Tsang, G. D. Westfall, M. Thoennesen, T. Bauman (Michigan State), L.W. Phair, L. G. Moretto (Lawrence Berkeley National Lab), J.S. Vogel, T.G. Ognibene, B.A.Buccholz, G. Bench, P. Grant (Lawrence Livermore National Lab), R. Rediske (Grand Valley State U.), W.C. Wolsey (Macalester). R. Varner (Oak Ridge National Lab), S. Bertman (Western Michigan University).

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)

Undergraduate Research Students Supervised: 69