

Jay L. Wile, Ph.D.

EDUCATION - RESEARCH - SPEAKING

EXPERIENCE / ACHIEVEMENTS

Adjunct Faculty Member 2014 - present

Anderson University

- * Taught General Chemistry to freshman science majors
- * Taught Thermodynamics to sophomore engineering majors and junior chemistry majors.
- * Developed new Thermodynamics laboratory experiments for junior chemistry majors.

Author/Speaker 2008 - 2010

Apologia Educational Ministries, Inc.

- * Updated existing science curriculum to incorporate new advances in the sciences.
- * Gave keynote addresses at some of the largest homeschooling conferences in the world.
- * Taught online science courses to students worldwide.

Owner 1994 - 2008

Apologia Educational Ministries, Inc.

- * Started a science-oriented publishing company that grew to 2.9 million in annual sales.
- * Published 14 science courses that are used by homechoolers and private schools in all 50 states and more than 20 other countries. They have been named the best science courses in the United States by the readers of *Practical Homeschooling Magazine* and *The Old Schoolhouse Magazine*.
- * Gave keynote addresses at some of the largest homeschooling conferences in the United States, as well as homeschooling conferences in Australia, New Zealand, Canada, and South Africa. Currently a very popular speaker in many venues.
- * Taught online science courses to students worldwide.

Senior Programmer/Analyst 1995 - 1998

Pathologists Associated Muncie, IN

- * Designed and built a client/server architecture on a legacy system that had an ROI of 250%.
- * Designed and programmed automation software system that eliminated 7 FTEs.
- * Designed and programmed an automated archival system that produced information in a unique way, attracting several new clients.

Assistant Professor of Chemistry 1992 - 1995

Ball State University Muncie, IN

- * Designed and implemented an environmental chemistry course that boosted the department's general studies enrollment by 30 percent.

- * Designed and built next generation subatomic particle detector that performed eight times more efficiently than any other detector in the same price range.
- * Administered a \$180,000+ research program and wrote seven major nuclear chemistry articles published in three prestigious international journals.

OTHER EXPERIENCE

Graduate Research Assistant 1985 - 1989
University of Rochester Rochester, NY

Teaching Assistant 1982 - 1987 (Part-Time)
University of Rochester Rochester, NY

EDUCATION / TRAINING

Ph.D. in Nuclear Chemistry 1989
University of Rochester Rochester, NY

Bachelor of Science Magna Cum Laude 1985
Major: Chemistry Minor: Philosophy
University of Rochester Rochester, NY

Conducted or participated in numerous conferences, courses, seminars, workshops, and related professional activities pertaining to homeschooling, the creation / evolution debate, academic / industrial research, analysis, computer systems, development, electronics, nuclear chemistry, operations, presentations, publications, and training.

AFFILIATIONS / AWARDS

American Association for the Advancement of Science

First Place Reader Awards (1999 - present)
Excellence in Education Award (2014 - present)
Homeschool Supplier of the Year (2002)
Bene Facta Scholar
Excellence in Teaching Award Finalist
Outstanding Teacher Award
W.D. Walters Award for Teach Excellence
Westinghouse Science Talent Search Certificate of Honor

Practical Homeschooling Magazine
The Old Schoolhouse Magazine
Practical Homeschooling Magazine
Ball State University
Ball State University
University of Chicago
University of Rochester
Science Service

Publications

1. *Science in the Age of Reason*, J.L. Wile, (Berean Builders, pub.), 2016
2. *Discovering Design with Chemistry*, J.L. Wile, (Berean Builders, pub.), 2015
3. *Science in the Scientific Revolution*, J.L. Wile, (Berean Builders, pub.), 2015
4. *Science in the Ancient World*, J.L. Wile, (Berean Builders, pub.), 2014
5. *Science in the Beginning*, J.L. Wile, (Berean Builders, pub.), 2013
6. *Advanced Physics in Creation*, J.L. Wile, (Apologia Educational Ministries, pub.), 2002
7. *The Human Body: Fearfully and Wonderfully Made*, J. L. Wile and M. Shannon, (Apologia Educational Ministries, pub.) 2001
8. *Exploring Creation With General Science*, J. L. Wile, (Apologia Educational Ministries, pub.) 2000
9. *Advanced Chemistry in Creation*, J. L. Wile, (Apologia Educational Ministries, pub.) 1999
10. *Exploring Creation With Physical Science*, J. L. Wile, (Apologia Educational Ministries, pub.) 1999
11. *Exploring Creation With Biology*, J. L. Wile and M. Durnell, (Apologia Educational Ministries, pub.) 1998
12. *Exploring Creation With Physics*, J. L. Wile, (Apologia Educational Ministries, pub.) 1997
13. *Reasonable Faith: The Scientific Case For Christianity*, J. L. Wile, (Apologia Educational Ministries, pub.) 1997
14. *Exploring Creation With Chemistry*, J. L. Wile, (Apologia Educational Ministries, pub.), 1996
15. **Emission of Intermediate Mass Fragments During Fission**, S.L. Chen, R.T. de Souza, E. Cornell, B. Davin, T.M. Hamilton, D. Hulbert, K. Kwiatkowski, Y. Lou, V.E. Viola, R.G. Korteling, and J.L. Wile, *Phys. Rev. C***54**, 2114 (1996).
16. **Fragment Emission from Modestly Excited Nuclear Systems**, Y. Lou, R. T. de Souza, S. L. Chen, E. Cornell, B. Davin, D. Fox, T. M. Hamilton, K. McDonald, M. B. Tsang, T. Glasmacher, J. Dinius, C. K. Gelbke, D. O. Handzy, W.-c. Hsi, M. Huang, W. G. Lynch, C. Montoya, C. Schwarz, D. Prindle, A. A. Sonzogni, R. Vandenbosch, J. L. Wile, M. Parker and C. L. Coffing, *Nucl. Phys. A***604**, 219 (1996).
17. **A Time-Independent Measurement of the Speed of Light**, J. L. Wile, *Creation Ex Nihilo Technical Journal* **7**, 88 (1993)
18. **Beneficial Mutations?**, J. L. Wile, *Creation Ex Nihilo Technical Journal* **6**, 6 (1992)
19. **Decay Patterns of Dysprosium Nuclei Produced in $^{32}\text{S} + ^{118,124}\text{Sn}$ Fusion Reactions**, J. L. Wile, D. L. Coffing, E. T. Bauer, A. L. Michael, M. A. Doerner, S. P. Baldwin, B. M. Szabo, B. Lott, B. M. Quednau, J.

- Toke, W. U. Schroder, and R. T. de Souza, *Phys. Rev.* **C48**, 2897 (1995)
20. **Studies of Intermediate-Mass Fragment Emission in the $^3\text{He} + \text{natAg}$, ^{197}Au Reactions Between 0.48 and 3.6 GeV**, S. J. Yennello, K. Kwiatkowski, E. C. Pollacco, C. Volant, Y. Cassagnou, R. Dayras, D. E. Fields, S. Harar, E. Hourani, R. Legrain, E. Norbeck, R. Planeta, J. L. Wile, N. R. Yoder, and V. E. Viola, *Phys. Rev.* **C48**, 1092 (1993).
 21. **Thermal Characteristics of Composite Systems Formed in the Fusion of ^{28}Si with ^{119}Sn and ^{124}Sn Nuclei**, J. L. Wile, S. S. Datta, W.U. Schroder, J. Toke, D. Pade, S. P. Baldwin, J. R. Huizenga, B. M. Quednau, R. T. desouza, and D. M. Szabo, *Phys. Rev.* **C47**, 2135 (1993).
 22. **Development of a 4-pi charged-particle detector for fusion-evaporation reactions**, C. L. Coffing, M. R. Parker, A. L. Michael, J. L. Wile, D. R. Ober, R. T. de Souza, *Bull. Am. Phys. Soc.*, **38**:1219, (1993).
 23. **Neck Emission of Intermediate Mass Fragments in the Fission of Hot Heavy Nuclei**, D. E. Fields, K. Kwiatkowski, K. B. Morley, E. Renshaw, J. L. Wile, S. J. Yennello, and V. E. Viola, *Phys. Rev. Lett.* **26** 3713 (1992).
 24. **Excitation Functions for Complex Fragment Emission in the E/A = 20-100 MeV $^{14}\text{N} + \text{natAg}$ Reactions**, J. L. Wile, D. E. Fields, K. Kwiatkowski, S. J. Yennello, K. B. Morley, E. Renshaw, V. E. Viola, C. K. Gelbke, W. G. Lynch, N. Carlin, H. M. Xu, W. G. Gong, M. B. Tsang, R. T. de Souza, D. J. Fields, and Sam M. Austin, *Phys. Rev.* **C45**, 2300 (1992).
 25. **Mechanisms of Intermediate Mass-Fragment Formation from Threshold to E/A = 100 MeV**, V. E. Viola, J. L. Wile, D. E. Fields, K. Kwiatkowski, S. J. Yennello, H. M. Xu, M. B. Tsang, R. T. de Souza, E. Renshaw, J. Pochodzalla, K. B. Morley, W. G. Lynch, W. G. Gong, C. K. Gelbke, D. J. Fields, and N. Carlin, *Nuclear Physics* **A528**, 291c, (1992).
 26. **Multifragment Emission in Reactions Induced by 0.90 and 3.6 GeV ^3He Ions on ^AAg** , S. J. Yennello, E. C. Pollacco, K. Kwiatkowski, C. Volant, R. Dayras, Y. Cassagnou, R. Legrain, E. Norbeck, V. E. Viola, J. L. Wile, and N. R. Yoder, *Phys. Rev. Lett.* **67**, 671 (1991).
 27. **Complex Fragment Emission in the E/A = 60 - 100 MeV/u $^{14}\text{N} + \text{natAg}$, Au Reactions**, J. L. Wile, D. E. Fields, K. Kwiatkowski, K. B. Morely, E. Renshaw, S. J. Yennello, V. E. Viola, N. Carlin, C. K. Gelbke, W. G. Gong, W. G. Lynch, R. T. desouza M. B. Tsang, and H. M. Xu, *Phys. Lett. B* **264**, 26 (1991).
 28. **Trends in Fragment Heating in the Damped Reaction $^{165}\text{Ho} + ^{56}\text{Fe}$ at 7.2 MeV/u**, D. Pade, W. U. Schroder, J Toke, J. L. Wile, and R. T. desouza , *Phys. Rev.* **C43**, 1288 (1991)
 29. **A Logarithmic, Large-Solid-Angle Detector Telescope for Nuclear Fragmentation**, K. Kwiatkowski, K. Komisarck, J. L. Wile, S. J. Yennello, D. E. Fields, and V. E. Viola, *Nucl. Istr. Meth.* **A299** (1990).
 30. **Search for the Onset of Multifragmentation in the Reaction $^3\text{He} + \text{natAg}$** , E. C. Pollacco. C. Volant, R. Dayras, Y. Cassagnou, S. Harar, R. Legrain, C. Mazur, S. J. Yennello. K. Kwiatkowski, N. R. Yoder, V. E. Viola, R. Planeta, J. L. Wile, D. E. Fields, E. Hourani, E. Norbeck, *Nuclear Physics* **A519**, 197 (1990).
 31. **Excitation Functions for Complex Fragments emitted in ^{14}N -induced Reactions from E/A = 20 -100 MeV**, D. E. Fields, J. L. Wile, K. Kwiatkowski, S. J. Yennello, E. Renshaw, K. B. Morely, V. E. Viola, N.

- Carlin, R. T. desouza, C. K. Gelbke, W. G. Lynch, M.B. Tsang, H. M. Xu, and W. Gong, *Proc. Winter Workshop on Nuclear Dynamics VI*, (1990).
32. **Multifragmentation Threshold in the $^3\text{He} + ^{\text{nat}}\text{Ag}$ System**, S. J. Yennello, K. Kwiatkowski, V. E. Viola, R. Planeta, J. L. Wile, D. E. Fields, E. C. Pollacca, C. Volant, R. Dayra, Y. Cassagnou, S. Harar, R. Lengrain, E. Hourani, and E. Norbeck, *Proc. Int. Workshop on Gross Properties of Nuclei and Nuclear Excitation XVIII*, Hirschegg, Austria, (1990).
 33. **Evidence for Radial-Energy Scaling of Non-Equilibrium Neutron Yield in Damped $^{139}\text{La} + ^{40}\text{Ar}$ Reactions**, J. L. Wile, S. S. Datta, R. T. desouza, J. R. Huizenga, D. Pade, W. U. Schroder, and J. Toke, *Phys. Rev. Lett.* **63**, 2551 (1989).
 34. **Excitation Energy Equilibration in Damped $^{139}\text{La} + ^{40}\text{Ar}$ Collisions at 15 MeV per Nucleon**, J. L. Wile, S. S. Datta, W. U. Schroder, J. R. Huizenga, R. T. desouza, and D. Pade, *Phys. Rev.* **C40**, 1700 (1989).
 35. **Nonequilibrium Effects in the $^{139}\text{La} + ^{40}\text{Ar}$ Reaction at 10 MeV per Nucleon Observed in a Study of Neutron Emission**, J. L. Wile, S. S. Datta, W. U. Schroder, J. R. Huizenga, J. Toke, and R. T. desouza, *Phys. Rev.* **C39**, 1845 (1989).
 36. **Nucleon Exchange in the Absence of Strong Driving Forces: The Reaction $^{238}\text{U} + ^{48}\text{Ca}$ at $E_{\text{lab}} = 425$ MeV**, R. T. desouza, W. U. Schroder, J.R. Huizenga, J. Toke, S. S. Datta, and J. L. Wile, *Phys. Rev.* **C39**, 114 (1989).
 37. **Non-Equilibrium Energy Transport in Damped Reactions**, W. U. Schroder, J. L. Wile, D. Pade, S. S. Datta, J. Toke, J. R. Huizenga, and R. T. desouza, *Proc. International Conf. on Nuclear Reaction Mechanisms*, Calcutta, India, Ed. S. Mukherjee, (Saha Inst. Nuclear Phys), p. 72 (1989).
 38. **Study of Fusion-Evaporation Reactions using a 4-pi Neutron Multiplicity Meter**, S. S. Datta, W. U. Schroder, J. L. Wile, R. T. desouza, J. Toke, and J. R. Huizenga, *Proc. Symp. on Nuclear Physics*, Bombay, India, Invited Papers Vol **31A**, 200 (1989).
 39. **Mass and Energy Flow in Damped Reactions**, W. U. Schroder, J. L. Wile, D. Pade, S. S. Datta, J. Toke, J. R. Huizenga, and R. T. desouza, *Proc. Symp. on Nuclear Physics*, Bombay, India, Invited Papers Vol **31A**, 231 (1989).
 40. **Apparent Inhibition of Neutron Emission near the N=82 Closed Shell**, J. L. Wile, S. S. Datta, W. U. Schroder, J. R. Huizenga, and J. Toke, *Proc. Winter Workshop on Nuclear Dynamics V*, Ed. G. Westfall, 1988.
 41. **Energy Relaxation in Damped Reactions**, W. U. Schroder, S. S. Datta, J. L. Wile, J. Toke, R. T. desouza, J. R. Huizenga, *Proc. Texas A&M Symp. on Hot Nuclei*, Eds S. Shlomo, R. P. Schmitt, and J. B. Natowitz, (World Scientific, Teaneck, NJ), p. 233 (1988).
 42. **Massive Heavy-Ion Reactions**, J. R. Huizenga, M. A. Butler, H. Rossner, J. L. Wile, S. S. Datta, R. T. de Souza, D. Hilscher, W.U. Schroder, and J. Toke, *Proc. All-Union Symp. on the Physics of Nuclear Fission*, Obninsk, U.S.S.R., 1987.
 43. **Energy Dissipation and Particle Emission in Heavy-Ion Reactions**, W.U. Schroder, S. S. Datta, J. L. Wile, R. T. de Souza, J. R. Huizenga, and J. Toke, *Proc. Int. Symp. on Collective Phenomena in Nuclear and Subnuclear Long Range Interactions in Nuclei*, Ed. P. David, (World Scientific, Teaneck, NJ), p. 273 (1988).

44. **Temperatures, Energies, and Degree of Thermal Equilibration of Fragments in Damped Nuclear Reactions**, J. L. Wile, W. U. Schroder, J.R. Huizenga, and D. Hilscher, *Phys. Rev.* **C35**: 1608 (1987)
45. **Relaxation of the Mass Asymmetry Degree of Freedom in Heavy-Ion Reactions**, M. A. Butler, S. S. Datta, R. T. de Souza, J. R. Huizenga, W. U. Schroder, J. Toke, and J. L. Wile, *Phys. Rev.* **C34**: 2018 (1986).

Research Grants Awarded

“Design and Development of a Cubic 4π CsI(Tl) Detector Array” - National Science Foundation and Ball State University - \$93,114 over three years (1993 - 1996)

“Superdeformation Studies in Heavy-Ion Induced Fusion Reactions” - National Science Foundation and Ball State University - \$91,896 over three years (1991-1993)

“Graduate Student Research Grant” - US Department of Energy, National Science Foundation, and the University of Rochester - \$24,000 over two years (1988 - 1990)