

Cynthia A. Klevickis, *Curriculum Vitae*

Professor, Integrated Science and Technology

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EDUCATION:

Ph.D., Biophysics, University of Virginia, 1994

M.S., Biochemistry, University of Wisconsin-Madison, 1980

B.S., Molecular Biology, University of Wisconsin-Madison, 1976

PROFESSIONAL EXPERIENCE:

James Madison University, Harrisonburg, Virginia **1994 - Present**

Professor, College of Integrated Science and Technology

Tenure and Full Professor (2005)

Merck & Co., Inc., Elkton, Virginia **1982 - 1990**

Validation Specialist

Process Validation Supervisor

PUBLICATIONS while at JMU:

- Gowl, T., C. Klevickis, C.M. Grisham and F.S. Richardson. (1996) Intermolecular Chiral Recognition Probed by Enantiodifferential Excited-State Quenching Kinetics. *J. Molecular Recognition: 595-606*
- Klevickis, C. and C. Grisham. Phosphate-Metal Ion Interactions of Nucleotides and Polynucleotides in *Metal Ions in Biological Systems*, Vol. 32, H. Sigel, ed., 1996: Chapter 1
- Klevickis, C., *Laboratory Experiments for Living Systems*, McGraw Hill, Primis Publishing, 1997
- Klevickis, C., *Study and Discussion Guide for A Systems View of Life*, Harcourt, Brace and Company, Custom Publishers, 1997.

- Ayers, Hugh and C. Klevickis, *Instructors' Manual for Zubay Biochemistry*, Wm. C. Brown and Company, 1997.
- Malinowski, R., Klevickis, C. and Kolvoord, R. "Come See the Molecules" *Learning & Leading with Technology* December 2001–January 2002.
- Bello, P., and C. Klevickis. Living and Learning in the Roop Learning Community, *Cutting Ed*, Winter 2003-2004.
- Klevickis, C. A. et al., First Steps Toward Change, *Journal of Science and Mathematics Cooperative Efforts*, Accepted for Publication, Fall 2004.
- Klevickis, C. A and Degner, K. Applying SENCER ideals to Elementary and Middle School Science, SENCER Newsletter, November 2005.
- Glencoe/McGraw Hill, *8th Grade Physical Science*, author for Chapters on Understanding Atoms and Molecules, Combining Atoms, and The Chemistry of Living Systems, 2007 edition.
- Glencoe/McGraw Hill, High School Chemistry, author for "Gasses" and "Handbook of the Elements" 2007 edition

GRANTS:

- 1996-1998, Co-Principle Investigator for "A Regional NMR Facility for College and Universities in the Central Shenandoah Valley" National Science Foundation, \$100,000
- 1996-1998, Co-Principle Investigator for "Matching Funds for A Regional NMR Facility for Colleges and Universities in the Shenandoah Valley, The Merck Foundation, \$75,000
- 1997-2004, VISM (Visualization in Science and Math) Teacher Enhancement NSF 98-4 (\$766,388) R. Kolvoord is Principle Investigator. I have participated in developing and presenting teacher workshops for molecular visualization for the last five years.
- 1998-1999, CIT Grants for Students Summer Internships at Indoor Biotechnologies (total: \$10,000)
- Summer Grants (2001-2002) Women in Science (curriculum development)
 - IDLS Summer Support
- 2002-2004 BAMBED Digital Library Steering Committee (an initiative funded by the NSF to develop criteria for a Biochemistry and Molecular Biology Digital Library)
- 2004-2006, STEP (\$25,000; Linda Bradley is principle investigator. I served as the IDLS Standards Committee Chair)
- 2004, Mosier Fellowship Award (with M. Handley and R. Kolvoord) \$5000
- Summer General Education Development Awards for 2000 and 2001 for GISAT 112, 113 and 141 integration, 2001 and 2002

Professional Societies

AAAS

NAST (National Association of Science Teachers)

VAST (Virginia Association of Science Teachers)

Project Kaleidoscope

SENCER (Science Education for new Civic Engagements and Responsibilities) a national project funded by the NSF. The IDLS Science Core is a result of this project.)