

RONALD P. ROBERTSON

PERMANENT ADDRESS

1215 Balthrop Branch Road
Dickson, TN 37055
Phone: (615)763-2146

E-mail: Labman3746@gmail.com

OFFICE ADDRESS

P.O. Box 4547, Dept. of Chemistry
Austin Peay State University.
Clarksville, TN 37044
Phone: (931)221-6298
Fax: 931-221-6261

E-mail: robertsonr@apsu.edu

URL: <http://www.apsu.edu/robertsonr>

ACADEMIC EXPERIENCE

1992-present	Assistant and Associate Professor of Chemistry, APSU
1988-1992	Dickson County High School (chemistry and physics)
1976-86	Dickson County High School (chemistry, physics, math)

EDUCATION

- Vanderbilt University, Nashville, TN; Ph.D. in Physical Chemistry, 1991
- Vanderbilt University, Nashville, TN; M.A. in Chemistry and M.A.T., 1976
- Vanderbilt University, Nashville, TN; B.A. in Chemistry, 1974; *Magna Cum Laude*; Phi Beta Kappa

THESES Dr. David J. Wilson, Research Director

- Ph.D. "Mathematical Modeling of Micelle Formation by Surfactants"
- M.A. "Zn Removal by Foam Flotation"

JOURNAL PUBLICATIONS

- Ronald P. Robertson and David J. Wilson, "Soil Cleanup by In-Situ Surfactant Flushing. IX. Electrical Effects in Micelle Formation", *Sep. Sci.*, 30(14), pp. 2821-2848, 1995.
- Ronald P. Robertson, David J. Wilson, and Charles S. Wilson, "The Adsorbing Colloid Flotation of Lead (II) and Zinc(II) by Hydroxides", *Sep. Sci.*, 11(6), pp. 569-580, 1976.

GRANTS

- Ronald P. Robertson, "Polyphosphate Hydrolysis", APSU Tower grant, 1998-99. (\$350)
- Jaime Taylor, Ronald P. Robertson, Rebecca McMahan, Art Carpenter, Don Luck, "Development of an Integrated Science Course", Austin Peay State University, Project NOVA, University of Alabama and NASA, 1997. (\$23,504)
- Lori Slavin and Ronald P. Robertson, "The Secrets of the Science Wonder Basket", Tennessee Collaborative for Excellence, 1995-96. (\$1,450)
- Ronald P. Robertson, "Sorting Raindrops, Phase II", APSU Tower grant, 1995-96. (\$330)
- Ronald P. Robertson and Nanci Woods, "Supervising High School Science Research, the Art of Organized Curiosity", Tennessee Collaborative for Excellence, 1994-95. (\$1,000)
- Ronald P. Robertson, "Project Science Literacy", Nashville ACS Section, 1992-99. (\$2,500)

HONORS AND ACTIVITIES

- APSU *Faculty Distinguished Community Service Award* (2008)
- APSU *Award for Excellence in Academic Advising* (2008)
- APSU *Distinguished Professor Award* (2004)
- APSU Student Activities *Advisor of the Year* (2000, 2001, 2002), *Exemplary Faculty Award* (2003)
- Clarksville/Montgomery County "*Point of Pride*" Award (2003)
- Advisor of American Chemical Society (ACS) local student affiliate chapter which received "*outstanding*" national award (2000, 2001, 2002, 2003) and "Student Organization of the Year Award" from APSU (1997, 1999, 2000, 2001, 2002, 2003, 2004)
- President, Nashville Section of American Chemical Society (1998)
- APSU *Socrates Award* (1995) [Excellence in Teaching Award]
- Director, Middle TN Science and Engineering Fair (2003 – present)
- Director, Montgomery County Schools Science Fair (1993-03)
- TN Career Ladder Level III teacher
- President, Dickson County Education Association (twice)
- *Excellence in Science Teaching Award* by U.S. Army Research Office (1986)
- *Distinguished Teaching Award* from TN Academy of Science (1980, 1985)
- *Physics Teacher of the Year Award* by TN Association of Physics Teachers (1984)
- State Department of Education *Regional Teacher of the Year* (1983)
- *State Presidential Award* winner in Science Teaching (1983)

SCIENCE EDUCATION OUTREACH AND PRESENTATION EXAMPLES

- R. Robertson, *Reaching Out is What It's All About*, Vanderbilt Clinical Research Seminar, August 15, 2008, Nashville, TN.
- R. Robertson, *Discovering Science Through Demos, Music, and a Little Crazyiness*, 2005 NSTA Regional Conference, Dec. 2, 2005, Opryland Hotel, Nashville, TN.

- Workshops, demonstrations, and "hands-on" activities for over 14,000 teachers, students, and parents from pre-K to adult in the past 16 years. The persona of "LABMAN" is used to enhance the activities.
- Students in our department travel extensively into the surrounding schools to do demonstrations and "hands-on" activities. This program is called "Kids and Chemistry".
- Science consultant to Hickman County public school system (1998-00).
- R. Robertson, *Cool Things to do with Liquid Nitrogen and Dry Ice*, Tennessee Science Teachers Association, December 2, 2000 and November 23, 2002, Nashville, TN.
- R. Robertson, *Polymer Science Activities from Project NOVA*, Tennessee Science Teachers Association, November 20, 1999, Nashville TN.
- R. Robertson and J. Taylor, *Implementation of a Physics and Chemistry Course for Preservice Teachers*, Alabama Science Teachers Association, October 22, 1999.
- R. Robertson and J. Taylor, *Chemistry and Physics with Hands-On Inquiry Based Learning for Preservice Teachers*, Tennessee Academy of Science 108th meeting, November 20, 1998, Cookeville, TN.
- R. Robertson, J. Taylor, C. Smith, and A. Edmondson, *Physical Science Activities from Project NOVA*, Tennessee Science Teachers Association, October 29, 1998, Nashville TN.
- R. Robertson and L. Slavin, *Reaching Out Is What It's All About*, Southeast Regional ACS meeting, November 29, 1995.
- Poster presentations on outreach at American Chemical Society national convention, (Chicago, August, 1995), (New Orleans, April, 2003); Chemical Education Conference at University of Arkansas, October 13-14, 1995;

ABSTRACT PUBLICATIONS/SUPERVISED STUDENT RESEARCH EXAMPLES

- Trine Jensen, Amanda Deering, Kenneth Robertson, and Ron Robertson, "P-31 NMR Study of Polyphosphate Hydrolysis", Abstract # 602637, 225th American Chemical Society National Meeting, New Orleans, March 2003.
- Kenneth Robertson, "Polyphosphate Hydrolysis", program of 2001 AAAS Annual Meeting, San Francisco.
- ShaRee McIntosh and Ron Robertson, "The Study of the Hydrolysis of Polyphosphates Using P-31 NMR: Effect of Normalization of Data and Al⁺³", *Journal of the TN Academy of Science*, July 2001.
- Kenneth Robertson, "The Degradation of Polyphosphates in Commercial Anti-Corrosives", program of 2000 AAAS Annual Meeting, Washington, DC, p. A107.
- Joe Valdez and Ron Robertson, "The Determination of Ortho and Poly Phosphate Levels in Commercial Anti-Corrosive Water Treatment Products", *Journal of the TN Academy of Science*, 1996.
- Ron Robertson and Lori Slavin, "Reaching Out Is What It's All About", program of American Chemical Society 1995 Joint 51st Southwest/47th Southeast Regional Meeting, abstract # 172.
- Lisa Schumacher, Stephanie Slate, and Ron Robertson, "Phosphate Hypersensitivity", *Journal of the TN Academy of Science*, 70(3-4), p. 99, 1995.
- Day Elam and Ron Robertson, "Raindrop Sorting - Phase 1", *Journal of the TN Academy of Science*, 69(3-4), p. 86, 1994.

- Brian Guyton, Scotty Blane, and Ron Robertson, "Mobile Lead Levels in Soil", *Journal of the TN Academy of Science*, 69(3-4), p. 86, 1994.
- Anne Kinney and Ron Robertson, "Lead Migration in Soil", *Journal of the TN Academy of Science*, 68 (4), p. 130, 1993.
- Ronald P. Robertson and David J. Wilson, "The Electrochemistry of Surfactant Micelle Formation", *Journal of the TN Academy of Science*, 66(2), p. 57, 1991.

COURSES TAUGHT AT APSU (1992-08)

Chemistry 1010L	Lab for Chemistry, Society and Environment I
Chemistry 1020	Chemistry, Society and Environment II
Chemistry 1020L	Lab for Chem, Soc and Environment II
Chemistry 1710	Introduction to Chemistry and Physics
Chemistry 1840	Chemical Arithmetic
Chemistry 1110	General Chemistry I
Chemistry 1110L	Lab for General Chemistry I
Chemistry 1120	General Chemistry II
Chemistry 1120L	Lab for General Chemistry II
Chemistry 3210L	Lab for Quantitative Analysis
Chemistry 3220L	Lab for Instrumental Analysis
Chemistry 3600	Physical Chemistry for the Life Sciences
Chemistry 3600L	Lab for P Chem for Life Sciences
Chemistry 3610	Physical Chemistry I
Chemistry 3610L	Lab for P Chem I
Chemistry 3620	Physical Chemistry II
Chemistry 3620L	Lab for P Chem II
Chemistry 4940	Independent Research
Chemistry 4000	Seminar