

LAURA D. FROST

Department of Chemistry
Georgia Southern University
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EDUCATION

University of Pennsylvania Philadelphia, PA (1986-1992)

Ph.D. Department of Chemistry, Biochemistry sub-division

Course concentrations: biochemistry and biophysics.

Thesis advisor: Dr. J. Kent Blasie

Kutztown University of Pennsylvania, Kutztown, PA (1982-1986)

B.S. in Chemistry

Course concentrations: chemistry, physics, and mathematics.

TEACHING EXPERIENCE

Georgia Southern University, Statesboro, GA (1999-present)

Associate Professor of Chemistry, (2005)

Assistant Professor of Chemistry, temporary (1999), tenure track position (2000)

Awarded Associate Graduate Faculty Status, Fall 2001

Department of Chemistry, Dr. Jeffery Orvis, interim chair

Courses taught: General Chemistry, Allied Health Chemistry, Organic Chemistry, and Biochemistry

Shorter College, Rome, GA. (1995-1999)

Assistant Professor of Chemistry, tenure track position.

Div. of Natural Sciences, Dr. M. Craig Allee, chair

Courses taught: General Chemistry, Organic Chemistry, Physical Chemistry, and Polymer Chemistry.

HONORS AND AWARDS

Greek Life Professor of the Year Nominee, Georgia Southern University (2009).

Regent's Scholarship of Teaching and Learning Award, University System of Georgia (2007).

University Award for Excellence in Instruction Nomination, Georgia Southern University (2007)

Award for Teaching Excellence Nomination, College of Science and Tech., GSU (2005, 2008).

NIH Pre-doctoral Training Grant for cardiovascular research (1987-1989).

Outstanding TA for General Chemistry (1986-1987).

Recipient of the American Institute of Chemists (Philadelphia section) undergraduate award for scholastic achievement (1986).

RESEARCH EXPERIENCE

Emory University School of Medicine, Department of Physiology, Atlanta, GA
Post-doctoral Research Associate, Laboratory of Dr. J. Wylie Nichols
(March 1993-August 1995)

* Biophysical/biochemical studies of bile salt aggregates/micelles and their role in facilitating phospholipid transport across the intestinal lumen during digestive absorption; time-resolved fluorescence anisotropy measurements for size and morphological characterization of bile salt aggregates utilizing NBD-labeled phospholipids.

University of Pennsylvania, Department of Chemistry, Philadelphia, PA
Graduate Research Assistant (1986-1992)

* Biophysical studies probing the structure and function of sarcoplasmic reticulum membranes upon the binding of Ca^{2+} to the integral membrane protein Ca-ATPase using flash-photolysis of caged compounds and X-ray diffraction techniques.

Laboratory for Fluorescence Dynamics, Urbana, IL
Visiting Scientist, (June 1994).

Brookhaven National Labs, National Synchrotron Light Source, beamline X9A,
Upton, NY Visiting Scientist, (1989-1991).

CURRENT RESEARCH INTERESTS

1. Research with undergraduates studying aggregation behavior of bile salt and lipid/bile salt systems using light-scattering and fluorescence spectroscopy.
2. Research with undergraduates modeling bile salt and lipid/bile salt aggregation behavior with molecular modeling software.
3. Collaboration with Health and Kinesiology faculty providing biochemical assays of cytokine levels in plasma samples.
4. Scholarship of Teaching and Learning (SoTL): Assessing student perceptions of learning and student learning with different teaching approaches such as POGIL or Team-Based Learning both at the introductory chemistry level and the upper course level. Some of this research has involved undergraduates.

RECENT PROFESSIONAL DEVELOPMENT

1. 4/5/08 – COACH Workshop, “Use of Influence, Power, and Conflict Resolution in Negotiation”, Committee On the Advancement of Women Chemists, New Orleans, LA.
2. 10/26/07 – “Write Winning Grants” a one day workshop sponsored by COST and CHHS given by Grant Writer’s Seminars and Workshops, LLC, Statesboro, GA.
3. 10/4/07 – Webinar on “Using Case Studies Effectively in 100- and 200-Level Chemistry Courses”, sponsored by Wiley Faculty Network.
4. 7/19-20/07 – “Three-Day Advanced POGIL Workshop”, Colorado College, Colorado Springs, CO.

- 3/24/07 – COACh Workshop, “The Chemistry of Leadership: A Women’s Leadership Development Program”, Committee On the Advancement of Women Chemists, Chicago, IL.
- 9/9/06 – COACh Workshop, “Coaching Strong Women in the Art of Strategic Persuasion”, Committee On the Advancement of Women Chemists, San Francisco, CA.
- 5/20-22/06 – “Three-Day POGIL Workshop”, College of Charleston, Charleston, SC.
- 11/4/05 – “One-Day POGIL Workshop at the SE/SW Joint Regional Meeting of the ACS”, Memphis, TN.
- 10/27/05 – “A Field Guide to GenBank and NCBI Molecular Biology Resources”, Mercer University School of Medicine, Macon, GA.

PUBLICATIONS

BOOKS

Laura Frost, Todd Deal, and Karen Timberlake, General, Organic, and Biochemistry: An Integrated Approach, 1st Ed., Pearson Education, Upper Saddle River, NJ. *in production*, release date January 2010.

PEER REVIEWED JOURNAL ARTICLES and BOOK CHAPTERS

(underline indicates undergraduate co-author)

- Laura D. Frost, “Creating a Relevant, Learner-Centered Classroom for Allied Health Chemistry”, in Making Chemistry Relevant: Strategies to Include All Students in a Learner-Sensitive Classroom, S. Basu-Dutt ed., John Wiley, Hoboken, NJ., *in production August 2009*, expected publication, April 2010.
- Riggs, A.J., Rossi, S., McMillan, J., Thornton, K., DeLong, L., Metzler, J. Changes in energy expenditure, body composition, and blood lipid profiles with ingestion of a high protein, low fat diet versus a high protein, high fat diet among overweight/obese females, *In revision*.
- Maurer, T.W., Frost, L., Sturges, D., Charles, S., Allen, D., Cawthorn, M., & Brewton, C.C. Faculty and student perceptions of influences on post-exam attendance, *JoSoTL*, **2009**, 9 (3).
- Baskin, Rebekah, Frost, Laura D. Bile Salt-Phospholipid Aggregation at Submicellar Concentrations. *Colloids and Surfaces B: Biointerfaces*, **2008**, 62, 238-242.
- Frost, L.D.; Deal, S.T.; Humphrey, P. Making the Most of a One Semester General, Organic, Biochemistry Course: A Novel Integrated Curriculum. *The Journal of Chemical Education*, **2006**, 83, 893-897.
- Frost, Laura DeLong; Introducing Measurement in a Chemistry Course for the Allied Health Student: Calculating Percent Body Fat with Skinfold Calipers. *The Chemical Educator* [Online] **2005**, 10, 142-144; DOI 10.1333/s00897050893a
- Frost, L.D. Glucose Assays Revisited: Experimental Determination of the Glucose Concentration in Honey. *The Chemical Educator* [Online] **2004**, 9, 239-241; DOI 10.1333/s00897040802a
- Frost, L. D.; Peart, S.T. DNA Isolation from a Dried Blood Sample, PCR Amplification, and Population Analysis: Making the Most of Commercially Available Kits. *Biochemistry and Molecular Biology Education*, **2003**, 31, 418 – 421.

9. DeLong, L.J.; Nichols, J. W. Time-Resolved Fluorescence Anisotropy of Fluorescent-Labeled Lysophospholipid and Taurodeoxycholate Aggregates. *Biophysical Journal*, **1996**, *70*, 1466-1471.
10. DeLong, L. J.; Blasie, J.K. Effect of Ca²⁺ Binding on the Profile Structure of the Sarcoplasmic Reticulum Membrane using Time-Resolved X-Ray Diffraction. *Biophysical Journal*, **1993**, *64*, 1750-1759.
11. Blasie, J.K.; Asturias, F. J.; DeLong, L. J. Time-Resolved X-Ray Diffraction Studies on the Mechanism of Active Ca²⁺ Transport by the Sarcoplasmic Reticulum Ca²⁺ ATPase. In *Ion-Motive ATPases: Structure, Function, and Regulation*; Scarpa, A., Carafoli, E., Papa, S., Eds.; Annals of the New York Academy of Sciences 671; The New York Academy of Sciences: New York, NY, **1992**; pp11-18.
12. DeLong, L. J.; Phillips, C.M.; Kaplan, J.H.; Scarpa, A.; Blasie, J.K. A New Method for Monitoring the Kinetics of Calcium Binding to the Sarcoplasmic Reticulum Ca²⁺ATPase Employing the Flash-Photolysis of Caged-Calcium. *Journal of Biochemical and Biophysical Methods*, **1990**, *21*, 333-339.

ARTICLES

1. Frost, Laura; Symposium Reports from San Diego: "Chemistry for the Health Sciences – GOBs of Fun". *CHED Newsletter Fall 2005*; Division of Chemical Education, Inc., American Chemical Society; 2005;p.40.
2. Frost, Laura D.; "Powerpoint Growing Pains", *The Center Piece*, Center for Excellence in Teaching Newsletter, July 2003, 6: (2) p. 1.
3. DeLong, L.J.; "Applying Computer Technology to the Organic and Biochemistry Curriculum", *The Center Piece*, Center for Excellence in Teaching Newsletter, January 2002, 5: (1) p. 2.
4. DeLong, L.J.; "The Center that is Excellent for Teachers", *The Center Piece*, Center for Excellence in Teaching Newsletter, February 2001, 4 (1) p. 4.

PRESENTATIONS (underline indicates student authors)

1. Ann C. Onyenwoke, Joelle E. Romanchik-Cerpovicz, Laura DeLong-Frost, and Helen Graf, "Vitamin C concentration, syneresis, and consumer perceptions of a raspberry fermented dairy product upon fortification with cucumber", poster presentation Georgia Academy of Sciences, Chemistry section, **April 2009**.
2. Laura Frost, "Meeting the Needs of the Allied Health Student by Integrating Chemical Topics and Guided Inquiry", *Invited speaker*, Strategies for Success Workshop sponsored by Pearson Education, Rochester, NY **March 2009**.
3. Laura DeLong Frost, "Guided Inquiry in an Upper Level vs. Lower Level Undergraduate Course", accepted for presentation to 2nd SoTL Commons Conference, Statesboro, GA **March 2009**.
4. Laura Frost, "POGIL Implementation and assessment of student learning in an upper level biochemistry course", CHED #155, 237th National ACS Meeting, Salt Lake City, UT, **March 2009**.
5. Sarah Laughlin, Ashley Brown, Laura Frost, Michele McGibony, "Developing bioanalytical laboratories: Real students testing published procedures for efficacy CHED #455, 237th National ACS Meeting, Salt Lake City, UT, **March 2009**.
6. Mary Pittman and Laura Frost, "Comparison of fluorescence signal during bile salt aggregation to a head group labeled vs. tail labeled phosphatidylethanolamine" CHED #309, 237th National ACS Meeting, Salt Lake City, UT, **March 2009**.

7. Laura Frost, "Process-Oriented Guided Inquiry Learning", *Invited speaker*, University System of Georgia STEM Institute, Atlanta, GA, **February 2009**.
8. S.J. Rossi, A.J. Riggs, J.L. McMillan, K. Thornton, L. Frost, & J.N. Metzler, "The Effect of a High Protein High Fat or High Protein Low Fat Diet on Inflammatory Markers in Overweight/Obese Women", accepted for presentation Southeast American College of Sports Medicine, Birmingham, AL, **February 2009**.
9. Laura Frost, "Meeting the Needs of the Allied Health Student by Integrating Chemical Topics and Guided Inquiry", *Invited speaker*, Strategies for Success Workshop sponsored by Pearson Education, Baton Rouge, LA, **October 2008**.
10. Frost, Laura D., "Assessing student learning of nonmajors under the POGIL approach: After five semesters is it still working?" oral presentation #P272, 20th Biennial Conference on Chemical Education, Bloomington, IN, **July 2008**.
11. Frost, Laura D., "Reaching the B in a one-semester GOB course", oral presentation #P750, 20th Biennial Conference on Chemical Education, Bloomington, IN, **July 2008**.
12. Frost, Laura D., "After Four Semesters of POGIL, What have I Learned, What have They Learned?" *invited* Oral Presentation CHED #46, 235th National ACS Meeting, New Orleans, LA, **April 2008**.
13. Rebekah L. Baskin and Laura Frost, "Aggregation Behavior of Sodium Taurocholate at Submicellar Concentrations Using a Fluorescent Phospholipid Probe" Poster presentation #BIOL167, 235th National ACS Meeting, New Orleans, LA, **April 2008**.
14. Frost, Laura DeLong and Goodson, Ludy, "Teaching Interventions and Student Attitudes about POGIL." Oral Presentation 1.6, SoTL Commons Conference, Georgia Southern University, Statesboro, GA, **November, 2007**.
15. Frost, Laura DeLong and Goodson, Ludy, "Measuring Learning with Surveys in a Chemistry Seminar", poster presentation P.4, SoTL Commons Conference, Georgia Southern University, Statesboro, GA, **November 2007**.
16. Frost, Laura, "Using POGIL in Nonmajors Chemistry – Changing Perceptions and Learning." Poster presentation at the 1st Annual SE Regional POGIL meeting, Agnes Scott College, Decatur, GA, **September 2007**.
17. Rebekah Baskin, Laura D. Frost, "Determination of Critical Micelle Concentration for the Fluorescent Phospholipid 2-(6-(7-nitrobenz-2-oxa-1, 3-diazol-4-yl)amino)hexanoyl- 1-hexadecanoyl-*sn*-glycero-3-phosphocholine [NBD-C₆-HPC] and Its Aggregation Behavior with Bile Salts" Poster Presentation #CHED 1076, 233rd National ACS Meeting, Chicago, IL, **March 2007**.
18. Laura D. Frost, "POGIL in a One-semester GOB Course: How Much Guidance Does a Nursing Major Need?", *invited* Oral Presentation #CHED 98, 233rd National ACS Meeting, Chicago, IL, **March 2007**.
19. Laura D. Frost, S. Todd Deal, "A Capstone Project Linking Concepts in a GOB Course: The Molecule Project", *invited* Oral Presentation #CHED 3, 232nd National ACS Meeting, San Francisco, CA, **September 2006**.
20. S. Todd Deal, Laura D. Frost, "Covering the GOB's of Chemistry: An Integrative Strategy", *invited* Oral Presentation #CHED 2, 232nd National ACS Meeting, San Francisco, CA, **September 2006**.

21. Laura Frost, "The Molecule Project: Linking Concepts in a One-semester GOB Course", Oral Presentation #P88, 19th Biennial Conference on Chemical Education, Purdue University, IN, **July 2006**.
22. Tiffany N. Hayes and Laura D. Frost, "Determination of Bile Salt Critical Micelle Concentrations Using Light Scattering", Poster Presentation #671, 231st National ACS Meeting, Atlanta, GA **March 2006**.
23. Laura DeLong Frost, "Using Skinfolds to Teach Measurement: A Lab Exercise for the Allied Health Student", Oral Presentation #1378, 229th National ACS Meeting, San Diego, CA, **March 2005**.
24. J. Patrick Hill and Laura D. Frost, "Design of an Enzyme Kinetics Laboratory: Combining Structural Data Mining and Microplate Screening", Poster Presentation #688, 229th National ACS Meeting, San Diego, CA, **March 2005**.
25. Laura DeLong Frost, "Incorporating Bioinformatics into the Biochemistry Curriculum at Georgia Southern", Oral Presentation #S309, 18th Biennial Conference on Chemical Education, Ames, IA, **July 2004**.
26. Laura DeLong Frost and S. Todd Deal, "Making the Most of a One-Semester GOB Course", Oral Presentation #S566, 18th Biennial Conference on Chemical Education, Ames, IA, **July 2004**.
27. Laura DeLong Frost, "Incorporating 3-D Visualization and Bioinformatics into the Biochemistry Curriculum: One Institution's Practical Approach", Oral Presentation # 286, Southeast Regional ACS Meeting, Atlanta, GA, **Nov. 2003**.
28. Laura DeLong Frost, "Less O, More B: The GoB Course Gets a Facelift", Oral Presentation #159. Chemistry Education Section C, 225th National ACS Meeting, New Orleans, LA, **March 2003**.
29. L.D. Frost, C.M. Davis, A. Stewart, S. Peart, and Z.N. Spencer, "The Bradford Assay Under Fire: A study of Common Protein Assays for the Undergraduate Biochemistry Laboratory", Poster Presentation #273, Chemistry Education Section E, 225th National ACS Meeting, New Orleans, LA, **March 2003**.
30. Sharifa T. Peart, Zandis N. Spencer, and Laura D. Frost, "A Biochemistry Laboratory Exercise to Study Drug Diffusion Through Natural and Synthetic Phospholipid Vesicles", Poster Presentation at the Southeastern Undergraduate Research Conference sponsored by the American Chemical Society, Kennesaw State University, Kennesaw, Georgia, **April 2003**.
31. Laura DeLong Frost, "Incorporating SpartanView Exercises into the Organic Chemistry Curriculum: One Institution's Practical Approach", Oral Presentation #160. SouthEast Regional ACS Meeting, Charleston, S.C., **Nov. 2002**.
32. Laura DeLong Frost, "Incorporating Bioinformatics into the Undergraduate Biochemistry Curriculum: How, What, and When?", Poster #1 Georgia Research Symposium entitled, "Applying Bioinformatics: From Genes to Systems", Georgia State University, **Oct. 2002**.
33. H. Jodi Long and Laura J. DeLong, "A Synthetic Peptide/Phospholipid Vesicle Model to Study Antagonist Binding to the Human Beta-2-Adrenergic Receptor using Fluorescence Anisotropy" Program No. 883.14 at Experimental Biology Meeting (ASBMB Session), New Orleans, LA, **April 2002**.
34. Kirk Latibeaudiere and Laura J. DeLong, "Molecular Modeling of Bile Salt/Lipid Aggregates" Poster No. CHED 424 presented at the 223rd National Meeting of the American Chemical Society, Orlando FL, **April 2002**.

35. Sharifa Peart and Laura J. DeLong, "An Undergraduate Biochemistry Laboratory Exercise: DNA Isolation from a Dried Blood Sample and Amplification of the Alu-TPA Intron 8 on Chromosome 8", Poster No. CHED 617 presented at the 223rd National Meeting of the American Chemical Society, Orlando FL, **April 2002**.
36. Latibeaudiere , Kirk and Laura DeLong "Molecular Modeling of Bile Salt Aggregates," Poster Presentation at the Annual Georgia Legislative Wild Game Supper, **Jan. 2002**.
37. L.J. DeLong, "An undergraduate polymer chemistry course designed to attract non-majors", Poster CHED68 presented at the National Spring ACS Meeting, Dallas, TX, **March 1998** ACS meeting.

GRANT SUPPORT (underline indicates student authors)

EXTERNAL

1. Laura D. Frost, Dena Hale, co-PIs, The POGIL Project, Special Project Underwriting Request, "Cross-Disciplinary Applications: Taking the Next Step", April 2009.
FUNDED: \$1,925
2. Laura D. Frost, PI, Michele McGibony and Allison Dobson, co-PIs, "An Innovative Guided Inquiry Laboratory Course Integrating Analytical and Biochemistry for Enhanced Student Learning", NSF-DUE-CCLI.
FUNDED July 2008: \$135,045
3. Laura D. Frost, PI, The POGIL Project, Special Project Underwriting Request, "Assessing Student Perceptions of POGIL in a Nonmajors Course", April 2007, \$2,945 *not funded*.
4. Laura D. Frost, Michele McGibony, Allison Dobson, co-PIs, "An Innovative Guided Inquiry Based Laboratory Course in Analytical and Biochemistry for Enhanced Student Learning", Camille and Henry Dreyfus Foundation Special Grant Program in the Chemical Sciences August 2006.
\$46,007 *not funded*.
5. Laura D. Frost, PI, Michele McGibony and Allison Dobson, co-PIs, "An Innovative Guided Inquiry Laboratory Course Integrating Analytical Chemistry and Biochemistry for Enhanced Student Learning", NSF-DUE-CCLI May 2006. \$132,222 *not funded*. **Resubmitted (see above)**.
6. Laura D. Frost and Michele D. McGibony, Li-COR Biosciences Genomics Education Matching Fund Award "A DNA Sequencer in the Undergraduate Laboratory", July 2005.
FUNDED: \$34,449.50
7. Laura DeLong, American Society for Biochemistry and Molecular Biology Undergraduate Faculty Travel Award to attend FASEB National Meeting, March 2002.
FUNDED: \$500

INTERNAL

1. Amy Jo Riggs, PI, Rebecca Black, Laura Frost, co-PIs, "The Relationship between Interleukin-10 and Malnutrition-Inflammation Complex Syndrome in Hemodialysis Patients" Faculty Research Grant, AY09-10.
FUNDED: \$8,105
2. Laura D. Frost, Academic Excellence Award, GSU College of Science and Technology to attend Spring 2009 National Meeting of the American Chemical Society, March 2009.
FUNDED: \$425
3. Ann Onyenwoke and Laura Frost, Determining Vitamin C Content in a Unique Yogurt Blend, Honors Student Research Award, Spring 2009.
FUNDED: \$400
4. Laura Frost, GSU Faculty Development Award, "Assessing Student Learning in an Upper Level Guided Inquiry Biochemistry Course", AY 08-09.
FUNDED: \$827.50

5. Mary A. Pittman and Laura Frost, Paulson Student Research Awards 2008-2009: College Office of Undergraduate Research, "Bile Salt - Phospholipid Aggregation Studies Using a Headgroup Labeled Fluorophore", AY 08-09.
FUNDED: \$1675
6. Laura Frost, GSU Faculty Development Travel Grant to attend the Spring 2008 ACS national meeting to present two presentations.
FUNDED: \$700
7. Rebekah Baskin and Laura Frost, Paulson Student Travel Awards 2007-2008: College Office of Undergraduate Research, for travel to Spring 2008 ACS meeting. "Aggregation behavior of sodium taurocholate at submicellar concentrations using a fluorescent phospholipid probe".
FUNDED: \$650
8. Laura D. Frost, GSU Faculty Development Travel Grant to attend the Biennial Conference on Chemical Education for presentation at symposia July 2006.
FUNDED: \$575
9. Rebekah Baskin and Laura Frost, Paulson Student Research Awards 2006-2007: College Office of Undergraduate Research, "Bile Salt / Phospholipid Aggregation below Critical Micelle Concentrations", AY 06-07.
PARTIALLY FUNDED: \$1000
10. Laura D. Frost, GSU Faculty Development Summer Award to develop "Process Oriented Guided Inquiry Learning (POGIL) in the Introductory Chemistry Classroom", Summer 2006.
FUNDED: \$3000
11. Laura D. Frost, Academic Excellence Award, GSU College of Science and Technology to attend Process Oriented Guided Inquiry Learning (POGIL) 3-day workshop, May 2006.
FUNDED: \$180
12. Laura D. Frost and Tiffany Hayes, Paulson Student Research Awards 2005-2006: College Office of Undergraduate Research, "Light Scattering and Fluorescence Studies of Bile Salt / Phospholipid Aggregates"
FUNDED: \$1991
13. Laura D. Frost, Academic Excellence Award, GSU College of Science and Technology to attend 229th ACS Meeting to preside and present at the CHED session "Chemistry for the Health Sciences-GOBs of Fun", March 2005.
FUNDED: \$300
14. Laura D. Frost, GSU Faculty Research Grant, "Aggregation Behavior of Bile Salts and Bile Salt/Phospholipid Aggregates Using Light Scattering and Steady State Fluorescence", December 2004.
FUNDED: \$1,230
15. Laura D. Frost, GSU Grant for the Development of Instruction, "Development of a Biochemistry Lab to Introduce Students to High Throughput Screening", October 2004.
FUNDED: \$710
16. Laura D. Frost, GSU Faculty Development Travel Grant to attend the Biennial Conference on Chemical Education as an invited speaker to two symposia July 2004.
FUNDED: \$648.12
17. Laura D. Frost, Academic Excellence Award, GSU College of Science and Technology to attend "NSF Short Course in 'Biotechnology and Bioinformatics for the Undergraduate Biology Classroom'", May 2003.
FUNDED: \$200
18. Laura D. Frost, GSU Faculty Development Travel Grant to present at the 225th National ACS Meeting, March 2003.
FUNDED: \$760
19. Laura D. Frost, GSU Grant for the Development of Instruction, "Development of a Laboratory Exercise to Study Drug Diffusion in Liposome Vesicles", October 2002.
FUNDED: \$345.10
20. Laura DeLong, GSU Summer Research Stipend, "Molecular Modeling of Aggregation Behavior: Bile Salts as a Model System", July 2002.
FUNDED: \$2,500
21. Laura DeLong, Academic Excellence Award, GSU College of Science and Technology, "A Synthetic Peptide/Phospholipid Vesicle Model to Study Antagonist Binding to the Human Beta-2-Adrenergic Receptor using Fluorescence Anisotropy", March 2002.
FUNDED: \$200

22. Laura DeLong, Innovations in Teaching Stipend, Center for Excellence in Teaching, GSU, "Molecular Visualization Enhancement in the Biochemistry Curriculum", March 2002.
FUNDED: \$2,000
23. Laura DeLong and H. Jodi Long, GSU Faculty Research Grant, "A Model System for the Study of Ligand Binding to the Beta-Adrenergic Receptor", October 2001.
FUNDED: \$2,338
24. Laura DeLong, GSU Faculty Development Summer Stipend, "Development of Biochemistry Lab Modules: Molecular Design of Pharmaceuticals and Their Biochemical Interactions", June 2001
FUNDED: \$750
25. Laura DeLong, GSU Faculty Development Travel Grant to attend "Principles and Applications of Time-Resolved Fluorescence Spectroscopy", Center for Fluorescence Spectroscopy, UMD, Baltimore, MD. March 2001.
FUNDED: \$400
26. Laura DeLong, P. Bishop, and J. LoBue, GSU Grant for the Development of Instruction, "A Professional Computational Engine in the Chemistry Curriculum", September 2000.
FUNDED: \$3,500
27. Laura DeLong, GSU Faculty Research Grant, "The Study of Bile Salt/Phospholipid Aggregate Formation Using Fluorescence Polarization", January 2000.
FUNDED: \$2,000

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science	1992 to 2005
American Chemical Society	1984-1986, 1993 to present
Chem. Ed. Division member	2004-present
Coastal Georgia Local Section Chair	2002
Member-At-Large Local Section	2004
Biophysical Society	1994 to present
Council for Undergraduate Research	1996, 1997

SERVICE

Professional

Editorial Board, *International Journal for the Scholarship of Teaching and Learning*, 2007-present.
Organizer and Presider, 20th Biennial Conference on Chemical Education symposium on Allied Health Chemistry Education, 2010, 2008.
Organizer and Presider, Division of Chem. Ed. symposium on Allied Health Sciences, Spring ACS meeting, 2004.
Workshop Coordinator, SERMACS 2002, Savannah, GA.
Coastal Georgia Local Section of the American Chemical Society, Executive Committee, 2001-2004.
Co-founder and co-chair, Women's Chemist Committee Local ACS Section Thrust Group, 2002-present.

USG

USG-STEM initiative as guest speaker and participant, Feb. 2009
Evaluator for Career Technical and Agricultural Education (CTAE) course syllabi (HS science courses).

University/College

Goldwater Scholarship Committee 2009
University Honors Council, 2008-present
Center for Excellence in Teaching Advisory Board, 2006-2008
Departmental Safety Committee, chair 2007-present
Analytical Chemist Search Committee, chair 2006-2007
Departmental Biochemistry Major Development Committee (*ad hoc*) 2005
Departmental Lab Dress Code Committee (*ad hoc*) 2005
Departmental Tenure and Promotion Guidelines Committee (*ad hoc*) 2003
Departmental Curriculum Committee 2001-2003
Dean's Advisory Council, 2001, 2002

PERSONAL

Former marathon runner completing six marathons.
Ultimate Frisbee enthusiast participating at the national and international level.
Member of the Professional Disc Golf Association, Amateur status.