CURRICULUM VITAE

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A. Personal Data

1. Education History

College/University	Major	Dates	Degree
University of Illinois, Urbana	**Chemistry**	**9/65-5/69**	**B.S.Chem.**
Michigan State University	**Chemistry**	**9/69-12/73**	**Ph.D.**

2. Employment History

Dates	Firm/Institution	Rank/Position
5/2002-present	**University of South Carolina**	**Professor**
6/81-5/2002	**University of South Carolina**	**Associate Professor**
1/74-6/81	**University of South Carolina**	**Assistant Professor**

3. Honors and Awards

Outstanding Teaching Assistant Award, Michigan State University, Department of Chemistry, 1973

Distinguished Honors Professor, University of South Carolina, 1986.

Distinguished Honors Professor, University of South Carolina, 1989.

Society for Applied Spectroscopy Award for Service to the Society. 1990

Amoco Foundation Outstanding Teacher Award, 1991

Received Ada Thomas Advising Award, 1999

Nominated by USC as Governor's Teacher of the Year, 1991.

Michael J. Mungo Award for Teaching, 1998

Sigma Xi Speaker, Middle Tennessee State University, 1999

2 Patent disclosures filed 2002

1 Patent disclosure filed 2003

Named to DOE site visit team for Lawrence-Berkeley laboratory 2002

Accompanied USC group on trip to Ukraine to develop research projects with Ukrainian scientists responsible for Chernobyl cleanup. 2002

Patent granted, 2005

SC Section American Chemical Society Distinguished Service Award 2009

University of South Carolina Service Award, 2015

B. Research Supervision:

1. Post-doctoral Research Programs.

Dr. Norman Schmidt (5/2000 - 9/2000, 5/2001 - 7/2001)

Dr. Schmidt was a visiting Associate Professor from Georgia Southern University who spent the summer 2000 and summer 2001 in my research lab.

Dr. Alexander Scheeline (5/2001 - 7/2001)

Dr. Scheeline was a visiting Professor from the University of Illiinois at Urbana-Champaign who spent the summer 2001 in my research lab.

2. Supervision of Doctoral Programs.

1. David. C. Otto, "Optimization and Application of Microwave-Excited Discharges" 1978.
2. Dennis T. Pipes. "A Fundamental Study of the Microwave Excited Plasma", 1980.
3. William A. Richards, "Determination of Arsenic in Natural Water", 1983
4. James P. Deavor, "A Study of Electron Density and Magnetic Confinement in the Microwave-Induced Plasma", 1983
5. Kim W. Baughman, "A Fundamental Study of Atom Formation in the Microwave-Induced Plasma", 1983.
6. Michael Sandridge, "Fundamental Parameters Influencing Spectral Emission of the Microwave-Induced Plasma", 1983
7. Norman P. Buddin, "A Fundamental Study of Atomization and Excitation in the Microwave-Induced Plasma", 1984.
8. Boyce Chambers "Characterization and Evaluation of Resonance Cavities and Plasma Torches for Microwave-Induced Plasmas", 1984

9. Jay R. Powell, "Spatial Dependence of Fundamental Properties in the Microwave-Induced Plasma", 1984.

10. Y. M. A. Shaibi " Optimization of Signal-to-Noise Ratio in Double-Beam Atomic Absorption", 1984.

11. Keith Kimbrough, "A Fundamental Study of the Microwave-Induced Plasma Gas Chromatographic Detector", 1987.

12. Christopher L. Thomas, "Fundamental and Applied Studies of a Microwave-Induced Plasma Atomic Emission Source as a detector for Gas Chromatography," 1995.

13. Michael E. Rider, "Developments in Optical System Evaluation, Spatial Modeling, Chemometrics and Applications with Atomic Spectroscopy," 1998.

14. Joe N. Emily, "The Characterization of the Factors Influencing Atomization, Recombination, and Exception in the Helium Microwave Induced Plasma Atomic Emission Detector for Gas Chromatography," 1998.

15. Andrea A. Thomas, "Calibration, Optimization and Discrimination for Metals Analysis Using Atomic Absorption and Laser Induced Breakdown Spectroscopy." 2002

16. Allison M. Oxsher, "Characterization of Matrix Effects and Spectral Discrimination in Laser-Induced Breakdown Spectroscopy of Solid Samples." 2002

17. Lori Grabill Metz, "UV Laser Pyrolysis-Fast Gas Chromatography/Time-Of-Flight Mass Spectrometry For Rapid Characterization Of Polymers: Development, Optimization, And Application." 2003

18. Jack E. Pender, "Laser Induced Breakdown Spectroscopy of Aqueous Solutions: Applications and Matrix Effects," 2004

19. Christopher R. Dockery, "Laser Induced Breakdown Spectroscopy: Sampling Techniques for Forensic and Environmental Applications," 2007

20. Amelia Taylor-Perry, "Development and Validation of Laser-Induced Breakdown Spectroscopy Methods for the Analysis of Aqueous Solutions," 2012.

3. Supervision of Masters Research Programs.

1. Joseph Northington, "Accuracy and Precision of Atomic Emission Spectrometry", 1976

2. Ray Matthews, "Development and Optimization of an Enzymatic Procedure for the Determination of Arsenic", 1977

3. Regis. A. Goode, "Temperature Distributions in the Air-Hydrogen Flame", 1978.

4. Eugene M. D'Altrui, "The Influence of the Concentration of Standards on the Calibration Plot", 1984.

5. John J. Gemmill, "Determination of Deuterium with a Microwave-Induced Plasma Detector", 1991

6. Mary Peyton Davis, "The Determination of Carbon in Steel by Laser Ablation into a Microwave-Induced Plasma," 1999.

7. Shana Williams, “A Study of Aqueous Based Sample Surfaces Via Laser Induced Breakdown Spectroscopy,” 2009.

4. Supervision of Masters of Arts in Teaching Programs

Lovett, Lisa	M.A.T.	2010
Hatcher, Lorena	M.A.T.	2006
Wilkes, Amanda	M.A.T.	2005
Gebrosky,Ken	M.A.T.	2005
Marcero,Jason	M.A.T.	2003
Harhay,Paul	M.A.T.	1999
Hodges,Chris	I.M.A	1999
Sanders,K'Shaun	M.A.T.	1999
Gallahan,Danni	M.A.T.	1998
Kelly,Jennie	M.A.T.	1998
Guzior, Marty	M.A.T.	1998
Barton,Rosalyn	I.M.A	1997
Ford,Jonathon	M.A.T.	1997
Johnson,Judy	M.A.T.	1996
Orr, Stephen	M.A.T.	1996
Lastica,Joelle	M.A.T.	1995
Graham,Virginia	M.A.T.	1993
Ives,Jennifer	M.A.T.	1993
Perkins,Lisa	M.A.T.	1993

4. Undergraduate Student Supervision.

1. Don Schermer "An Automated Graphical Approach to Equilibria.", 1975 Senior thesis

2. John Horvath "Factors Influencing the Fabrication of Electrodeless Discharge Lamps,"1976. Senior Thesis

3. Calvin Davis "Accuracy and Precision in Titrimetry," 1978. Senior Thesis.

4. Dave Amaker, "Influence of Cavity Dimensions on Emission from the Microwave-Induced Plasma", 1986. South Carolina College Thesis

5. Maja Osterman "Spatial Structure of the Microwave Plasma", 1988. South Carolina College Thesis

6. Greg Hamby, "Computer-Controlled Analytical Chemistry," 1986. Senior Thesis.

7. Brian Nunnally "Environmental Analytical Chemistry," 1994. South Carolina College Thesis

8. Suzanne Moyer, "Optimization of the Determination of Selectivity in a Chemical Reaction," 1997, Senior Thesis

9. Annette Deaver, "Evaluation of the effectiveness of Multimedia Presentations in General Chemistry," 1997, Senior Thesis.

10. John Lee, "Calibration Methods in Atomic Absorption," Summer 1995.

11. Michael Bachmeyer, “Speciation of Chromium onto an Ion Exchange Membrane,” 2002

12. Lindsey Davis, “Development of analytical methods to study the trace element composition of archaeological dental specimens, 2006.

13. Danny Sullivan, :Use of Inductively-Coupled Plasma in Chemical Education,” 2007

14. Michael Blew, ”Use of Response Surface Methods to Visualize Interferences in Atomic Absorption,” 2008.

15. Casey O’Neill, “Determination of Lanthanide Elements in Archeological Samples by Selective Extraction and ICP-MS,” 2009

16. Richard Jaycocks, “Developing Analytical Methods to use Laser-Induced Breakdown Spectroscopy on Aqueous Samples,” 2010.

5. Other Graduate Student Research Projects (not culminating in a degree)

1. Lisa Hoover, 1978
2. Terry Bostrom, 1978-1981
3. Jane Hardin, 1980-1982
4. Ray Creech, 1982-1987
5. Jose Napthali, 1985-1987

C Scholarly and Professional Publications

1. List of Books:

1. "*Chemistry 111/112 Student Lecture Notebook,* With D. L. Reger, Cengage Learning, Belmont CA, (c) 2003-2012
2. "*Chemistry: Principles and Practice,*" With D. L. Reger and D. E. Ball, Saunders Cengage Publishing, Belmont CA, PA, 3rd ed, 2003.
3. "*Chemistry 111/112 Student Lecture Notebook,* With D. L. Reger 6. "*Chemistry: Principles and Practice,*" With D. L. Reger and E. E. Mercer, Saunders College Publishing, Philadelphia, PA, 2nd edition, 1997.
4. "*Chemistry: Principles and Practice,*" With D. L. Reger and E. E. Mercer, Saunders College Publishing, Philadelphia, PA, 1993.
5. "A Test Bank for *Chemical Principles* (Boikess and Edelson) D. L. Reger, S. R. Goode, and R. H. Philp, Allyn and Bacon, 1985.
6. "Arsenic" in *Methods of Enzymatic Analysis*. Edited by H. U. Bergmeyer, Vol VII, 1985.

2. List of Refereed Publications:

In Print

1. "Optimization of Instrumental Parameters in an Automated Atomic Fluorescence Spectrometer," (with A. Montaser and S. R. Crouch), *Appl. Spectrosc*., **27**, 355 (1973).
2. "A New and Practical Method for the Determination of Stray Radiant Energy Levels in an Atomic Absorption Spectrometer," (with S. R. Crouch). *Anal. Chem*., **46**, 181 (1974).

3. "The Graphite Braid Atomizer for Atomic Absorption and Atomic Fluorescence Spectrometry," (with A. Montaser and S. R. Crouch). *Anal. Chem.*, **46**, 599 (1974).

4. "Computer Applications in Laboratory Automation," (with S. R. Crouch and A. Montaser). *Information Chemistry*, **3**, 118 (1974).

5. "Computerized Curve-Fitting to Determine the Equivalence Point in Spectrophotometric Titrations," *Anal. Chem.*, **49**, 1408 (1977).

6. "A Critical Evaluation of Fabrication Details and Operating Conditions Influencing Microwave-Excited Electrodeless Discharge Lamps," (with D. C. Otto). *Appl. Spectrosc*., **27** 63 (1978).

7. "An Enzyme-Catalyzed Reaction-Rate Method for the Determination of Arsenic in Water," *Anal. Chem.*, **50**, 1608 (1978).

8. "Consideration of the Systematic Error Produced by the Calibration Plot in Atomic Emission Spectrometry," (with J. W. Northington). *Appl. Spectrosc*., **33**, 12 (1979).

9. "A Simplified Method for Sealing Tungsten Electrodes into Quartz," W. E. Caldwell, D. C. Otto, and S. R. Goode, *Appl. Spectrosc*., **33**, 186 (1979).

10. "Some Fundamental Measurements of the Atmospheric-Pressure Microwave-Induced Plasma," S. R. Goode and D. C. Otto, *Spectrochim. Acta*, **35B**, 569 (1980).

11. "Fabrication and Utilization of a High-Power Microwave Supply," S. R. Goode, K. W. Baughman, D. T. Pipes and M. R. Sandridge, *Appl. Spectrosc*., **35**, 308 (1981).

12. "Characterization of an Enzymatic Determination of Arsenic (V) Based on Response-Surface Methodology," R. J. Matthews, S. R. Goode, and S. L. Morgan, *Anal. Chim. Acta*, **133**, 169 (1981).

13. "Constriction of a Microwave Induced Plasma by a Magnetic Pinch," S. R. Goode and D. T. P**i**pes, *Spectrochim. Acta*, **36B**, 925 (1981).

14. "The Bologna Bottle at 6000 Frames Per Second," W. E. Caldwell, D. T. Pipes, and S. R. Goode, *Proc., 26th Symposium ASGS*, 1981.

15. "A Novel Method for the Study of Atomization Processes in the Microwave-Induced Plasma," *Spectrochim. Acta*, **38B**, 75 (1983). S. R. Goode and K. W. Baughman.

16. "A Critical Evaluation of the Tangential Flow Torch Microwave-Induced Plasma Detector for Gas Chromatography," *Appl. Spectrosc.*, **37**, 439 (1983). S. R. Goode, B. Chambers, and N. P. Buddin.

17. "Correction for Light Absorption in Fluorescence Studies of Protein-Ligand Interactions," *Anal. Biochem*., **132**, 353 (1983). B. Birdsall, R. W. King, M. R. Wheeler, C. A. Lewis, S. R. Goode, R. B. Dunlap, and G.C.K. Roberts.

18. "A Review of Instrumentation Used to Generate Microwave-Induced Plasmas," *Appl. Spectrosc*. **38**, 755 (1983). S. R. Goode and K. W. Baughman.

19. "Determination of Electron Density in an Atomic Plasma by Least-Squares fit to the Stark Profile," *Spectrochim. Acta*, **39B**, 813 (1984).

20. "A Flexible Photodiode Array Interface," *Laboratory Microcomputing*, **3**, 50, (1984). J. R. Powell and S. R. Goode

21. "Use of the Tangential-Flow with a Microwave-Induced Plasma Emission Detector for Gas Chromatography," *Spectrochim. Acta*, **40B**, 329 (1984). S. R. Goode, B. Chambers, and N. P. Buddin.

22. "The Influence of Pressure on the Fundamental Properties of Microwave-Induced Plasma," *Spectrochim. Acta*, **40B**, 317 (1985). S. R. Goode, N. P. Buddin, B. Chambers, K. W. Baughman, and J. P. Deavor.

23. "A New Method for Etching Molybdenum," T. S. Sudarshan, M.. H. Lim, and S. R. Goode, *Prakt. Met*., **23**, 450 (1986).

24. "Chemical Etching of Molybdenum Using Nonaqueous Solvents", T. S. Sudarshan, M.. H. Lim, and S. R. Goode, *Metal Finishing*, **84**, 59 (1986).

25. "An experimental study of signal-to-noise ratio in the microwave-induced plasma gas-chromatographic detector," S. R. Goode and L. K. Kimbrough, *Spectrochim. Acta*, **42B**, 309, (1987).

26. "Automated Access to Spectrochemical Databases," S. R. Goode, *Spectrochim. Acta*. **43B**, 93, 1988.

27. "Study of the Factors Influencing the Detection of Oxygen with the Gas Chromatography - Microwave-induced Plasma Atomic Emission Detector" S. R. Goode, L. Keith Kimbrough, *J. Anal. At. Spectrosc*. **3**, 915, 1988.

28. "The Influence of the Optical Viewing Axis on the Performance of the Microwave-induced Plasma GC Detector", S. R. Goode, L. Keith Kimbrough, *Appl. Spectrosc*., **42**, 1011, 1988.

29. "Camera-Ready Copy for Papers to be Published in *Applied Spectroscopy*", A. Scheeline, P. W. Bohn, S. R. Goode, D. M. Coleman, and J. DeHaseth, *Appl. Spectrosc*., **44**, 911, 1990.

30. "Camera-Ready Copy for Papers to be Published in *Applied Spectroscopy*: an Alternative Opinion", S. R. Goode, *Appl. Spectrosc*., **44**, 1101, 1990.

31. "Determination of Deuterium by Gas Chromatography With a Microwave-induced Plasma Emission Detector", S. R. Goode, J. J Gemmill, and B. E. Watt, *J. Anal Atomic Spectrosc*., **5**, 483, 1990.

32. "Spectroscopic Observations of Light Emission from Surface Flashover of Dielectric Insulators Under High Voltage Stress," R. Sudararaman, C. R. Li, S. R. Goode, and T. S. Sudarshan, CEIDP, 293, 1993.

33. "Measuring the Spatial Distribution of Properties and Species in Microwave-Induced Helium Plasmas," S. R. Goode and Joe N. Emily, *Spectrochim. Acta*, **49B**, 31, 1994.

34. "Determination of Oxygen-containing Additives in Gasoline by Gas Chromatography-Microwave-Induced Plasma Atomic Emission Spectrometry" *J. Anal. At Spectr*, **9**, 73, 1994.

35. "Characterizing the Factors that Influencing Oxygen Selectivity in Gas Chromatography Microwave-induced Plasma Atomic Emission Spectroscopy," S. R. Goode and C. L. Thomas, *J. Anal. At. Spectr.*, **9**, 965-970, 1994

36. "Gas Chromatography Interfaced to Atomic Emission Spectrometry: Separation, Identification and Quantitation, " S. R. Goode and C. L. Thomas, *Spectroscopy,* 9, 14-20, 1994.

37. "*In Situ* Determination of Lead in Paint by Laser-Induced Breakdown Spectroscopy Using a Fiber Optic Probe," Brian J. Marquardt, Scott R. Goode, and S. Michael Angel, *Anal. Chem., **68**,* 977-981, 1996.

38. "Identifying alloys by laser-induced breakdown spectroscopy with a time-resolved high resolution echelle spectrometer," Scott R. Goode, Stephen L. Morgan, Richard Hoskins, and Allison Oxsher, *J. Anal. At. Spectrom.*, **15**, 1133-1138, 2000.

39. "Some Comparisons of LIBS Measurements Using Nanosecond and Picosecond Laser Pulses," by Kristine L. Eland, Dimitra N. Stratis, Tianshu Lai, Mark A. Berg, Scott R. Goode and S. Michael Angel. *Appl. Spectrosc*., 55, 279-285, 2001.

40. "Energy Dependence of Emission Intensity and Temperature in a LIBS Plasma using Femtosecond Excitation," by Kristine L. Eland, Dimitra N. Stratis, David M. Gold, Scott R. Goode and S. Michael Angel. *Appl. Spectrosc*., 55, 286-291, 2001.

41 "Influence of the Isotopic Composition of Standards on the Accuracy of Atomic spectrometry," by Scott R. Goode, *Appl. Spectrosc., **55**,* 2001, 1225-1228.

42. "Analysis of aqueous solutions by LIBS of Ion Exchange Membranes," N. E. Schmidt and S. R. Goode, *Appl Spectrosc*. 55 370-74 2002

43. Quantitative elemental analysis of metal alloys by laser induced breakdown spectroscopy using multivariate calibration. Goode, Scott R.; Hoskins, Richard; Morgan, Stephen L. Department of Chemistry and Biochemistry, The University of South Carolina, Columbia, SC, USA. Trends in Optics and Photonics (2002), 81(Laser Induced Plasma Spectroscopy and Applications), 36-38

44. Detecting gunshot residue by laser induced breakdown spectroscopy. Goode, Scott R.; Dockery, Christopher R.; Bachmeyer, Michael F.; Nieuwland, Alexander A.; Morgan, Stephen L. Department of Chemistry and Biochemistry, The University of South Carolina, Columbia, SC, USA. Trends in Optics and Photonics (2002), 81(Laser Induced Plasma Spectroscopy and Applications), 175-177.

47. Scott R. Goode and Lori A. Metz, Emission Spectroscopy in the Undergraduate Laboratory, *J. Chem. Educ*, 80(12) 1455-1459, 2003. DOI:10.1021/ed080p1455

48. Christopher R Dockery, and Scott R. Goode, Laser-induced breakdown spectroscopy for the detection of gunshot residues on the hands of a shooter, *Applied Optics* **42**(30), 6153-6158, (2003). DOI:10.1364/AO.42.006153

49. Jon Scaffidi, Jack Pender, William Pearman, Scott R. Goode, Bill W. Colston, J. Chance Carter, S. Michael Angel, Dual-Pulse Laser-Induced Breakdown Spectroscopy with Combinations of Femtosecond and Nanosecond Laser Pulses, *Applied Optics*, 42(30), 6099-6106, 2003.

50. "UV Laser Pyrolysis Fast Gas Chromatography/Time-of-Flight Mass Spectrometry for Rapid Characterization of Synthetic Polymers: Instrument Development" by Narendra K. Meruva, Lori A. Metz, Scott R. Goode, and Stephen L. Morgan. *J. Anal. Appl. Pyrolysis*, **2004,** 71, 313-325. *DOI:10.1016/S0165-2370(03)00092-5*

51. "UV Laser Pyrolysis Fast Gas Chromatography/Time-of-Flight Mass Spectrometry for Rapid Characterization of Synthetic Polymers: Optimization of Instrumental Parameters" by Lori A. Metz, Narendra K. Meruva, Stephen L. Morgan, and Scott R. Goode, *J. Anal. Appl. Pyrolysis.*,**2004**, 71, 327-341. DOI:10.1016/S0165-2370(03)00091-3

52. "Speciation of chromium via laser-induced breakdown spectroscopy of ion exchange polymer membranes." Dockery, Christopher R.; Pender, Jack E.; Goode, Scott R.. Applied Spectroscopy (2005), 59(2), 252-257. DOI:10.1366/0003702053085061

53. "Visualizing the solute vaporization interference in flame atomic absorption spectroscopy." Dockery, Christopher R.; Blew, Michael J.; Goode, Scott R.. Journal of Chemical Education (2008), 85(6), 854-858. DOI:10.1021/ed085p854DOI:10.1021/ed085p854

54. Grabowski, Laure E and Goode, Scott R. Review and analysis of safety policies of chemical journals, Journal of Chemical Health and Safety (2016) 23(3) 30-35. DOI: 10.1016/j.jchas.2015.10.001

In Press

None

Submitted

None

3. List of Papers Presented at Professional Meetings:

1. "Computerized Curvefitting to Determine the Equivalence Point in Titrations," Pittsburgh Conference, March 1975
2. "Nonlinear Least Squares Fits to Determine the Equivalence Point in Spectrophotometric Titrations," FACSS, 1975
3. "Characterization of Methods use to Determine the Equivalence Point in Titrations," Pittsburgh Conference, March 1976
4. "The Microwave-Excited Emission Detector for Gas Chromatography," FACSS, November 1976

5. "Factors Influencing Atomic Absorption from a Line Source," FACSS November 1976
6. "Determination of Accuracy and Precision in Atomic Emission Spectroscopy," Pittsburgh Conference, March 1976.
7. "Determination of the Equivalence Point in Spectrophotometric Titrations," ACS National Meeting, Invited paper, Fisher Award Symposium.
8. "A New Chemical Preconcentration for Ultratrace Atomic Absorption Analysis," Pittsburgh Conference, February, 1977.
9. “The Microwave-Excited Plasma as a Detector for Gas Chromatographic Analysis of the Oxides of Nitrogen," SEAAC, March, 1977.
10. "Determination of Volatile Metals in Sea Water Matrix by Controlled Temperature Furnace AAS," FACSS, November, 1977.
11. "A New Analytical Procedure for Arsenic in Water," Pittsburgh Conference, March, 1978.
12. "Response Surface Methodology Applied to Analytical Chemistry," International Conference on Computers in Analytical Chemistry, Amsterdam, April 1978.
13. "Determination of Arsenic in Natural Waters," Pittsburgh Conference, March, 1979.
14. "A Unique, Computer-Controlled Titrator, S. C. Academy of Science, April, 1979.
15. Atomization in the Microwave-Excited Plasma, FACSS, November, 1979.
16. "Atomization Processes in the Microwave-Induced Plasma," Pittsburgh Conference, 1980.
17. "Atom Formation in the Microwave Plasma," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1980.
18. "Constriction of Microwave-Induced Plasma by a Magnetic Pinch," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1981.
19. "Use of a Magnetic Pinch to Constrict a Microwave-Induced Plasma," Southeastern Association of Analytical Chemistry, 1981.
20. "Atomization Measurements in the Microwave-Induced Plasma," International Winter Conference, 1982.
21. "The Microwave-Induced Plasma as a Detector for Gas Chromatography," Pittsburgh Conference, 1982.
22. "Factors Influencing the MIP as a GC Detector," Southeastern Association of Analytical Chemistry, 1982.
23. "Enhancement of Emission in the Microwave-Induced Plasma," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1982.

24. "Use of the MIP as a Detector in Gas Chromatography," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1982.

25. "Factors Influencing Atomization in Microwave-Induced Plasma," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1982.

26. "Use of the Microwave-Induced Plasma as a Detector in Gas Chromatography," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1982.

27. "Factors Influencing the Calibration Curve in Analytical Chemistry," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1982.

28. "The Influence of the Concentration of Standards on the Calibration Plot," Pittsburgh Conf., 1983.

29. "Signals and Noise in Analytical Spectroscopy," Southeastern Association of Analytical Chemistry, 1983.

30. "The Microwave-Induced Plasma - A Status Report," ACS National Meeting, Washington, DC, 1983.

31. "Constriction of a Microwave-Induced Plasma by a Magnetic Pinch," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1983.

32. "Atomization Measurements in the MIP," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1983.

33. "Evaluation of the Tangential-flow Torch for the MIP-GC Detector," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1983.

34. "A Study of Electron Density in the MIP," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1983.

35. "Computerized Curvefitting to Determine Electron Density in the Microwave-Induced Plasma," S.E. ACS Meeting, 1983.

36. "The Influence of Pressure on the Fundamental Properties of a Microwave-induced Plasma," Winter Conference on Plasma Spectrochemistry, Jan, 1984.

37. "The Use of a Tangential-flow Torch with a Microwave-Induced Plasma Emission Detector for Gas Chromatography," Winter Conference on Plasma Spectrochemistry, Jan. 1984.

38. "The Microwave Plasma GC Detector", Southeastern Association of Analytical Chemistry, 1984.

39. "Calorimetric Measurement of Energy in Microwave Cavities," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1984.

40. "Spatial Mapping of Electron Density in the Microwave-Induced Plasma," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1984.

41. "Factors Influencing the Signal-to-Noise Ratio in the Microwave-Induced Plasma Gas-Chromatography Detector," Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1984.

42. "The Influence of the Concentration of Standards on Analytical Calibration Curves," Pittsburgh Conference, 1985.

43. "Software Design and Implementation," Southeastern Association of Analytical Chemistry, 1985.

44. "Noise Sources in the Microwave-Induced Plasma GC Detector", Federation of Analytical Chemistry and Applied Spectroscopy Societies, 1985.

45. "Noise Sources in the Microwave-induced Plasma GC Detector", 1986 Winter Conference on Plasma Spectrochemistry, Kona, Hawaii, January 1986.

46. " Spatial Dependence of Fundamental Properties in the Microwave-Induced Plasma", 1986 Winter Conference on Plasma Spectrochemistry, Kona, Hawaii, January 1986.

47. " The Microwave-Induced Plasma Detector for Gas Chromatography", South Carolina Academy of Science, April 1987.

48. "Spatial Distribution of Electron Density in the Microwave-Induced Plasma", South Carolina Academy of Science, April, 1987.

49. "The Influence of the Axis of Observation on the Microwave-Induced Plasma GC Detector", South Carolina Academy of Science, April, 1987.

50. "Electron Density Measurements in Atomic Plasmas", South Carolina Academy of Science, April, 1987.

51. "Accessing Fundamental Atomic Data" Symposium on Atomic Data, CSI, Toronto, June, 1987.

52. "The Microwave-induced Plasma Element-Selective GC Detector" Colloquium Spectroscopicum Internationale, Toronto, June, 1987.

53. "Observations on the Influence of the Observation Axis on the Analytical Utility of the MIP-GC Detector". FACSS, Detroit, 1987.

54. "Spatial Distribution of Fundamental Properties of a Microwave Induced Plasma". FACSS, Detroit, 1987.

55. "Determination of electron density by least-squares fit to the Stark profile", FACSS, Boston MA 1988.

56. "SciLine--an electronic bulletin board for science educators" NSTA regional meeting, Charleston SC 1988.

57. "Determination of Electron Density by A Unique Curvefitting Algorithm", Pittsburgh Conference, Atlanta GA, 1989.

58. "Determination of Deuterium in by Gas Chromatography with Microwave-Excited Atomic Emission Detection, FACSS, Chicago, IL, 1989.

59. "Development of a Deuterium-Selective GC Detector", Winter Conference on Plasma Spectrochemistry, St. Petersburg, FL Jan 1990.

60. "Determination of Deuterium by GC-MIP. Pittsburgh Conference, New York, March 1990.

61. "A Critical Comparison of Smoothing Algorithms" Pittsburgh Conference, Chicago, March 1991.
62. "Use of the Microwave Plasma Emission Detector for Oxygen-Containing Compounds Added to Fuels" Winter Plasma Spectrochemistry Conference, San Diego, CA, Jan 1992.
63. "Determination of Oxygenated Additives in Gasolines by GC-MIP" Pittsburgh Conference, New Orleans, LA, March 1992
64. "Determination of the Contents of a Civil War Vial" 12th Bicentennial Conference on Chemical Education, Davis, CA July, 1992.
65. "Development and Characterization of an Annular Microwave-Induced Plasma" FACSS, Philadelphia, PA, September, 1992.
66. "Errors in Science," Chemed-93, Butler University August 1993
67. "Factors Influencing the Selectivity for Oxygen in GC-AED," Pittcon, Atlanta GA, March 9, 1993
68. "Factors Influencing Oxygen Selectivity in the GC-MIP," FACSS, Detroit, October 18, 1993
69. " Characterization of the Microwave-Induced Plasma as a GC Detector: Spatial Changes During the Elution of the Analyte," FACSS, Detroit, October 18, 1993
70. "Development of an analytical method for the determination of oxygenates in gasolines," Southeastern Association of Analytical Chemists, September 10, 1993
71. "Determination of Oxygen-Containing Additives in Gasoline by GC-AED," Pittcon, Chicago, 1994
72. "Factors Affecting Selectivity in the GC-AED," Pittcon, Chicago, 1994
73. "Factors Influencing the Determination of Oxygen in the GC-MIP," Pittcon, Chicago, 1994
74. "Oxygen-Selectivity in the GC-MIP--A Mechanistic Study," FACSS, St. Louis, October 6, 1994.
75. "Spatial Distribution of Species in the GC-MIP Detector," FACSS, St. Louis, October 6, 1994.
76. "The Effect of Design Factors on Fundamental Characteristics of the Tangential Flow Helium Microwave Induced Plasma Torch, "FACSS, St. Louis, October 18, 1994, Invited
77. “Determination of Trace Metals in Process Streams by Capacitatively-Coupled Microwave Plasma Atomic Emission Spectrometry. Pittcon, New Orleans, 1995.
78. “Instrumental Interferences in the GC-MIP Determination of Oxygen,” Pittcon, New Orleans, 1995.
79. Optical Evaluation of an Imaging System for Atomic Emission” Pittcon, New Orleans, 1995.

80. The Effect of Noise on the Abel Inversion," Pittcon, New Orleans, 1995.

81. "Factors Influencing the Accuracy and Precision in the Determination of the Elemental Composition of Defense Waste Glass, FACSS, Cincinnati OH, 1995.

82. "A fiber-optic laser induced breakdown spectroscopy probe for remote elemental analysis," FACSS, Cinci, Oct 1995

83. "Forensic Chemistry as a Teaching Aid" Bicentennial Conference on Chemical Education, Clemson, SC 1996, Symposium in Forensic Chemistry in the Curriculum.

84. "The Development of an in situ Method for Determining Lead in Paint by Laser Induced Breakdown Spectroscopy Using a Fiber Optic Probe," Pittcon, 1996.

85. "Simple tests identify mystery liquid" Bicentennial Conference on Chemical Education, Clemson, SC 1996, Symposium in Forensic Chemistry in the Curriculum.

86. "Spreadsheet Statistics Overturn The Verdict of Henry" Bicentennial Conference on Chemical Education, Clemson, SC 1996, Symposium in Forensic Chemistry in the Curriculum.

87. "Was the Light On or Off When the Accident Occurred?" Bicentennial Conference on Chemical Education, Clemson, SC 1996, Symposium in Forensic Chemistry in the Curriculum.

88. "Raising Identification Numbers" Bicentennial Conference on Chemical Education, Clemson, SC 1996, Symposium in Forensic Chemistry in the Curriculum.

89. "A Simple Spot Test for Cocaine" Bicentennial Conference on Chemical Education, Clemson, SC 1996, Symposium in Forensic Chemistry in the Curriculum.

90. "Calibration Strategies in Spectrophotometry," Southeast Regional Meeting of the American Chemical Society.

91. "Spatially Resolved Changes in the Helium Microwave Induced Plasma Atomic Emission Detector During Sample Introduction," Pittcon, 1997. (With J. N. Emily)

92. "Spatial Profiling of Laser-Induced Plasmas for the Purpose of Optimizing Fiber Optic LIBS Probe Designs," Pittcon, 1997. (With B. J. Marquardt and S. M. Angel)

93. "ICP-ES Analyses Using Full Image Spectra and Astronomical Data Fitting Algorithms to Provide Diagnostic and Result Information," Pittcon, 1997 (With W. A. Spencer)

94. "Using Optimization Strategies to Improve Chemical Analysis," S. C. Acad of Science, 1997, . (With Susanne Moyer)

95. "Choosing an Effective Calibration Strategy," S. C. Acad of Science, 1997, . (With A. Thomas and M. Rider)

96. “Spatially Resolved Changes in the Helium Microwave Induced Plasma Atomic Emission Detector During Sample Introduction,” S. C. Acad of Science, 1997. (With J. N. Emily)

97. “Spatially Resolved Changes During Sample Introduction to the Helium Microwave Induced Plasma GC Detector,” FACSS, 1997. (With J. N. Emily)

98. "Evaluating and Imaging System for Spatial Mapping of Spectrochemical Excitation Sources," FACSS, Providence RI, 1997. (With Mike Rider)

99. Department of Energy EMSP, Chicago IL "Factors influencing accuracy and precision in Laser-Induced Breakdown Spectroscopy." Invited

100. FACSS, Vancouver BC. (LIBS Symposium) "Fundamental Studies of Laser-Induced Breakdown Spectroscopy." Invited

101. "Factors influencing selective volatilization in laser induced breakdown spectroscopy (LIBS), with Mary Peyton Davis, Allison Oxsher, and Richard Hoskins, Pittcon-99, March, 1999, Orlando FL.

102. "Choosing an internal standard in ICP-AES" SEAAC, September 24, 1999, Charleston SC

103. "Laser-Induced Breakdown Spectroscopy with a Time-Resolved High Resolution Spectrometer" - Scott Goode, Richard Hoskins, Pittcon 2000, March, 2000

104. "Fast Polymer Analysis by Gas Chromatography/Time-of-Flight Mass Spectrometry" - Narendra Meruva, Scott Goode, Stephen Morgan, Pittcon 2000, March, 2000

105. "Analysis of Laser-induced breakdown spectroscopy at very short times," FACSS, Nashville, TN October 2000, with Richard Hoskins

106. "Optimization of parameters in laser induced breakdown spectroscopy," FACSS, Nashville, TN October 2000, with Andrea Thomas

107. “Use of LIBS to Identify Ammunition.” Invited presentation American Chemical Society Southeastern Regional Meeting, 2000

108. "Rapid polymer characterization using pyrolysis/fast gas chromatography/time-of-flight mass spectrometry Southeast Association of Academic Analytical Chemists (SEAAC), Columbia, SC 2 November 2001

109. "Discrimination of ammunition fragments using laser induced breakdown spectroscopy and canonical variate analysis," Poster paper presented at the Southeast Association of Academic Analytical Chemists (SEAAC), Columbia, SC 2 November 2001.

110. Laser Induced Breakdown Spectroscopy of Ion Exchange Membranes to Determine the Elemental Composition of Solutions, Norman Schmidt and Scott R. Goode, Pittcon 2001

111. Rapid Characterization Of Biopolymeric Samples Using Pyrolysis Gas Chromatography/Time-Of-Flight Mass Spectrometry, Narendra K. Meruva, Lori A. Grabill, Scott R. Goode, And Stephen L. Morgan, Pittcon 2001

112. Fundamental Studies of Laser Induced Breakdown Spectroscopy at Short Times, Richard Hoskins, Scott R. Goode, Pittcon 2001

113. Using Response Surfaces to Evaluate Interactions Between Instrumental Parameters in Laser Induced breakdown Spectroscopy, Andrea Thomas and Scott R. Goode, Pittcon 2001.

114. Effects of Noise on Alloy Identification by Laser Induced Breakdown Spectroscopy, Allison Oxsher and Scott R.Goode, Pittcon 2001.

115. Emission Spectroscopy in the Undergraduate Lab, Lori A. Grabill and Scott R. Goode, Pittcon 2001.

116. LIBS Using Dual- and Ultra-Short Laser Pulses, S. Michael Angel, Scott R. Goode, Dimitra Stratis, Kristine Eland, Tianshu Lai, Mark Berg, and Dave Gold, Pittcon 2001.

117. Choosing An Internal Standard For ICP Emission Spectroscopy, Scott R. Goode, FACSS 2001.

118. Using Laser Induced Breakdown Spectroscopy to Identify Materials: Classification Of Ammunition Samples. Andrea Thomas, Alex Nieuwland, Stephen L. Morgan and Scott R. Goode, Winter Conference on Plasma Spectrochemistry

119. Comparing Laser and Heated Filament Pyrolysis as Sample Introduction Techniques for Rapid Characterization of Polymers by Gas Chromatography/Time-of-Flight Mass Spectrometry, Narendra K. Meruva, Lori A. Grabill, Scott R. Goode, and Stephen L. Morgan. Pittcon 2002.

120. Investigation of a Unique Laser-Induced Breakdown Spectroscopy System Utilizing a Pre-Laser Pulse High Voltage Spark Discharge— Jack Pender, Richard M. Hoskins, Scott R. Goode, Alexander Scheeline. Pittcon 2002.

121. Discrimination of Ammunition Samples Using Laser Induced Breakdown Spectroscopy and Pattern Recognition— Andrea A. Thomas, Alexander A. Nieuwland, Stephen L. Morgan, Scott R. Goode. Pittcon 2002.

122. Comparing Laser and Heated Filament Pyrolysis as Sample Introduction Techniques for Rapid Characterization of Polymers by Gas Chromatography/Time-of-Flight Mass Spectrometry, Lori A. Grabill, University of South Carolina, Narendra K. Meruva, Scott R. Goode, Stephen L. Morgan. Pittcon 2002.

123. Identification of ammunition by laser induced breakdown spectroscopy, Scott R. Goode, Andrea Thomas, Alex Nieuwland, and Stephen L. Morgan. LIBS 2002.

124. Identifying gunshot residue by laser induced breakdown spectroscopy, Scott R. Goode, Christopher R. Dockery, Michael Bachmeyer, Alex Nieuwland, and Stephen L. Morgan. LIBS 2002

125. Multivariate calibration of selected elements in steel sample spectra obtained from laser induced breakdown spectroscopy Scott R. Goode, Richard Hoskins, Stephen L. Morgan. LIBS 2002

126. LIBS using dual-laser pulses, S. Michael Angel, Bill Pearman, Jonathan Scaffidi, Scott R. Goode. LIBS 2002

127. Combination of nanosecond and femtosecond pulses in dual-pulse LIBS of solids and aqueous solutions, Jonathan Scaffidi, Jack Pender, Bill Colston, S.R. Goode, S.M. Angel. LIBS 2002

128. Discrimination of ammunition fragments by laser induced breakdown spectroscopy, Scott R. Goode, Andrea Thomas and Alex Nieuwland. FACSS 2002

129. Combination of Nanosecond Nd Femtosecond Pulses in Dual-Pulse LIBS of Solids and Aqueous Solutions, Jon Scaffidi, Bill Pearman, Jack Pender, Mike Angel, Scott R. Goode. SERMACS 2002

130. Determination of Gunshot Residue by Laser Induced Breakdown Spectroscopy, Christopher R. Dockery, Michael F. Bachmeyer, Alexander A. Nieuwland, Stephen L. Morgan, Scott R. Goode. Pittcon, March 2003

131. Analysis of Natural and Synthetic Fibers by Two Microscopic Techniques: Laser Pyrolysis Fast Gas Chromatography/Time-of-Flight Mass Spectrometry and Fourier Transform Infrared Microscopy Christopher R. Mubarak, Lori A. Metz, Scott R. Goode, Stephen L. Morgan, Pittcon, March 2003

132. Inductively Coupled Plasma Emission Spectroscopy in the Undergraduate Laboratory Jack E. Pender, Michael F. Bachmeyer, Scott R. Goode, Pittcon, March 2003

133. Quantitative Elemental Analysis of Steel Composition Using Laser Induced Breakdown Spectroscopy and Multivariate Calibration Richard M. Hoskins, Scott R. Goode, Stephen L. Morgan, Pittcon, March 2003

134. Speciation of Chromium at the ng/mL Concentration Level in Natural Water Christopher R. Dockery, Michael F. Bachmeyer, Scott R. Goode, Pittcon, March 2003

135. Discrimination of Ammunition Fragments Using Laser Induced Breakdown Spectroscopy and Linear Discriminant Analysis Andrea A. Thomas, Alexander A. Nieuwland, Stephen L. Morgan, Scott R. Goode, Pittcon, March 2003

136. Sequential Dual-Pulse LIBS Using Long and Ultrashort Laser Impulses S. Michael Angel, Jon Scaffidi, Bill Pearman, Scott R. Goode, Jack E. Pender, Bill W. Colston, Pittcon, March 2003

137. Spatially Resolved Examination of Polymeric Surfaces by UV Laser Pyrolysis-Fast Gas Chromatography/Time-of-Flight Mass Spectrometry Lori A. Metz, Christopher R. Mubarak, Stephen L. Morgan, Scott R. Goode, Pittcon, March 2003

138. Use of internal standards in laser-induced breakdown spectroscopy of aqueous solids. Scott R. Goode and Jack Pender. Invited, American Chemical Society National Meeting, March 2003

139. Scott R. Goode, Chris Dockery, Michael Bachmeyer, Alex Nieuwland, Andrea Thomas, and Stephen L. Morgan. Invited, American Chemical Society National Meeting, March 2003

140. Multivariate calibration for the analysis of alloys by laser-induced breakdown spectroscopy Scott R. Goode, Richard Hoskins, and Stephen L. Morgan. Invited, American Chemical Society National Meeting, March 2003

141. Direct Speciation and Pre-concentration of Chromium onto Ion Exchange Polymer Membranes, Christopher R. Dockery, Michael F. Bachmeyer and Scott R. Goode, Pittcon 2004, Chicago Illinois.

142. Investigation of Interferences in Laser Induced Breakdown Spectroscopy of Solutions, jack Pender and Scott R. Goode, Pittcon, 2004, Chicago Il

143. "Laser induced breakdown spectroscopy for the determination of calcium in aqueous liquids," with Shana Williams, Southeastern Regional Meeting of the American Chemical Society 1 November 2006 Invited

144. "A critical comparison of aqueous sampling methods in laser induced breakdown spectroscopy," with Amy Taylor, Southeastern Regional Meeting of the American Chemical Society November 2006 Invited

145. "Time dependence of elemental species in the LIBS plasma," with Richard Hoskins, Southeastern Regional Meeting of the American Chemical Society 2 November 2006 Invited

146. "Elemental analysis by ICP-MS to determine the geographical origin of teeth dating to 800 BC," with Lindsey Davis, Southeastern Regional Meeting of the American Chemical Society , Friday, 3 November 2006

147. "Using elemental composition to identify forensic soil samples: A lab experiment that uses ICP-AES and multivariate analysis, "with Danny Sullivan Southeastern Regional Meeting of the American Chemical Society, 3 November 2006

148. "An investigation of the solute vaporization interference in flame atomic absorption spectroscopy," with Michael Blew, 3 November 2006

149. “Laser Induced Breakdown Spectroscopy Of Aqueous Solutions,” with Amelia Taylor and Shana Williams, FACSS, Reno NV, 9/30/2008

150. “Laser Induced Breakdown Spectroscopy Of Aqueous Solutions,” with Amelia Taylor, Shana Williams, and Chris Dockery, Winter Conference on Plasma Spectrochemistry, Temecula, Ca, Jan 6, 2009

151. “Laser-induced breakdown spectrometry to determine chromium in aqueous solutions by deposition on solid surfaces” with Amelia Taylor-Perry, Winter Conference on Plasma Spectrochemistry, Fort Myers, Fl, 2010

152. “Laser-induced breakdown spectrometry of aqueous solutions,” with Amelia Taylor-Perry, FACSS, Raleigh NC 2010.

4. Seminars:

1974	Armstrong State College	"Criminalistic Chemistry"
1974	Spring Valley High School	"Criminalistic Chemistry"
1975	Appalachian State University	"Criminalistic Chemistry"
1975	Benedict College	"Criminalistic Chemistry"
1975	College of Charleston	"Criminalistic Chemistry"
1975	Crowley (La) Hugh School	"Criminalistic Chemistry"
1975	Heathwood Hall Episcopal School	"Criminalistic Chemistry"
1976	SC J. Acad. Of Science	"Criminalistic Chemistry"
1977	SC J. Acad. Of Science	"Criminalistic Chemistry"
1977	Spring Valley High School	"Criminalistic Chemistry"
1978	Mercer University	"Criminalistic Chemistry"
1978	North Carolina State University	"Computer-Assisted Analytical Chemistry"
1978	SC J. Acad. Of Science	"Criminalistic Chemistry"
1979	SC J. Acad. Of Science	"Criminalistic Chemistry"
1979	Wofford College	"Criminalistic Chemistry"
1980	Richland Northeast High School	"Criminalistic Chemistry"
1981	University of Virginia	"A Unique Enzymatic Method to Determine Arsenic in Environmental Samples"
1981	University of Wisconsin-Madison	"The Magnetically-Confined Microwave-Excited Plasma"
1983	West Georgia College	"Criminalistic Chemistry"
1984	Clemson University	"Criminalistic Chemistry"
1984	Lexington High School	"Criminalistic Chemistry"
1985	Erskine College	"Criminalistic Chemistry"
1985	Irmo High School	"Criminalistic Chemistry"
1985	Richland Northeast High School	"Criminalistic Chemistry"
1986	Chapin High School	"Criminalistic Chemistry"
1986	Irmo Middle School	"Criminalistic Chemistry"
1988	College of William and Mary	"Criminalistic Chemistry"
1989	Hand Middle School	"Criminalistic Chemistry"

1991	Kiwanis	"Criminalistic Chemistry"
1991	SC J. Acad. Of Science	"Criminalistic Chemistry"
1991	Westinghouse Savannah River Lab	"Determination of Deuterium by GC-MIP"
1992	Erskine College	"Criminalistic Chemistry"
1992	University of South Carolina--Honors College Faculty	"Teaching Honors Students"
1992.	Walterboro High School	"Criminalistic Chemistry"
1993	Davidson College	"Criminalistic Chemistry"
1993	Georgia Southern University	"Criminalistic Chemistry"
1993	University 101	"Criminalistic Chemistry"
1993	University of South Carolina--University 101 class	"Criminalistic Chemistry"
1993	USC Honors College	"Teaching Strategies for Honors Students"
1994	Armstrong State College	"Criminalistic Chemistry"
1994	Augusta College	"Criminalistic Chemistry"
1995	Mercer University	"Criminalistic Chemistry"
1995	Savannah River Technology Center	“Factors Influencing Accuracy and Precision in the Determination of the Elemental Composition of Defense Waste Glass.”
1996	Johnson C. Smith College	"Criminalistic Chemistry"
1996	Michigan State University	“Factors Influencing Accuracy and Precision in the Determination of the Elemental Composition of Defense Waste Glass.”
1996	University of Michigan	“Factors Influencing Accuracy and Precision in the Determination of the Elemental Composition of Defense Waste Glass.”
1996	Wayne State University	“Factors Influencing Accuracy and Precision in the Determination of the Elemental Composition of Defense Waste Glass.”
1996	Western Carolina University	“Factors Influencing Accuracy and Precision in the Determination of the Elemental Composition of Defense

		Waste Glass."
1997	Presbyterian College	"Criminalistic Chemistry"
1998	Appalachian State University	"Criminalistic Chemistry"
1998	USC-Spartanburg	"Criminalistic Chemistry"
1999	Johnson C. Smith University	"Criminalistic Chemistry"
1999	Middle Tennessee State University	"Criminalistic Chemistry"
1999	Wake Forest University	"Criminalistic Chemistry"
2002	Eastern Wisconsin Federal Public Defender's Office, Milwaukee, WI	"Measurement of Cocaine in Evidentiary Samples"
2002	USC	"Expert Testimony"
2003	Georgia Southern University	Criminalistic Chemistry"
2005	Northern Illinois University	Laser-Induced Breakdown Spectroscopy for Chemical Analysis
2005	Columbia College	"Criminalistic Chemistry"
2005	Kennesaw State University	"Criminalistic Chemistry"
2005	Converse College	"Criminalistic Chemistry"
2006	College of Charleston	"Criminalistic Chemistry"
2008	USC/SC Acad of Sciences MESAS program. Keynote speaker.	"Chemistry and Crime"
2012	Clemson University, Ph.D. Program in Engineering and Science Education, March 2012.	"Some practical ideas for teaching large classes of science students."

5. List of Book Reviews:

1992 Book reviewed for the *Journal of the American Chemical Society*.

1993 Book reviewed for the *Journal of the American Chemical Society*.

1999 "More Chemistry and Crime", Ed. Samuel M. Gerber and Richard Saferstein, reviewed by S. R. Goode in the *Journal of the Chemical Heritage Foundation*

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6. List of Grant Proposals Submitted in Last 10 Years:

DOE "On-Site Characterization of TRU Waste Solutions and Solid Materials Using Dual-Pulse Laser-Induced Breakdown Spectroscopy: Fundamental Studies and Application Development," Scott Goode, $792,015. 2003. Declined

DOE EPSCoR "Laser-Micropyrolysis/Gas Chromatography/Time-of-flight Mass Spectrometry for Detection and Characterization and of Biological Agents," Scott Goode, $500,000. 2004. Declined

USC R&PS (Holly Herro and Chris Whitaker, Cooper Library were PI's) "Development of Methods to Conserve Historical Documents Written with Ball-Point Pens." 2005. $20,000. Declined

DoD EPSCoR Laser Pyrolysis-Gas Chromatography/Mass Spectrometry: Fundamental Studies and Applications to Spatially-Resolved Chemical Analysis , Scott Goode (PI) and Steve Morgan, 6/2005-5/2009, $659,427, Declined

National Institutes of Justice, Steve Morgan (PI) and Scott Goode, Laser Induced Breakdown Spectroscopy and Capillary Electrophoresis/Mass Spectrometry for the Identification of Ink Samples, 2006-2008, $500,000. Declined

Bich Foundation, Holly Herro (with Chris Whittaker, Scott Goode, and Steve Morgan) , Identification of Ink Samples for Preservation and Conservation, 1/2006-12/2007, $50,000. Declined

Research and Productive Scholarship, Holly Herro (with Chris Whittaker, Scott Goode, and Steve Morgan) , Identification of Ink Samples for Preservation and Conservation, 1/2006-12/2007, $50,000. Declined

National Institutes of Justice, Steve Morgan (PI) and Scott Goode, Laser Induced Breakdown Spectroscopy and Capillary Electrophoresis/Mass Spectrometry for the Identification of Ink Samples, 2006-2008, $500,000. Declined

Preservation Foundation, Holly Herro (with Chris Whittaker, Scott Goode, and Steve Morgan) , Identification of Ink Samples for Preservation and Conservation, 1/2007-12/2008, $75,000. Declined

NASA, The Detection of Calcium via Laser Induced Breakdown Spectroscopy for Spaceborne Investigations, 2009- 2010, $28,000 awarded.

National Institute of Justice, LIBS of Ink samples, 2010-2013, 650,000 Declined.

7 . Manuscripts and Proposals Reviewed or Refereed:

2007-present	Approximately 5 manuscripts per year. *J. Chem. Educ* sends at least 2-3 every year.	5/year
2006	*Applied Spectroscopy*	2
2006	*J. Analyt. At. Spectrosc.*	1
2006	*J. Chem. Educ.*	2
2006	*Spectrochim Acta part B*	2
2005	*Applied Spectroscopy*	2
2005	*J. Analyt. At. Spectrosc.*	1
2005	*J. Chem. Educ.*	1
2005	*Spectrochim Acta part B*	1
2004	*Applied Spectroscopy*	3
2004	*Spectrochim Acta A*	2
2004	*J. Analyt. At. Spectrosc.*	3
2003	*Analyst*	1
2003	*Spectrochim Acta A*	1
2003	*J. Analyt. At. Spectrosc.*	2
2003	*Analyst*	1
2002	*Applied Spectroscopy*	2
2002	*Spectrochim Acta A*	3
2001	*Spectrochim Acta Part A*	3
2001	*Appl. Spectrosc*	1
2001	*J. Anal. At. Spectrosc*	1
2000	*J. Anal. At. Spectrosc*	1
2000	*Appl. Spectrosc*	1
2000	*Spectrochim Acta Part A*	3
1999	*Applied Spectroscopy*	1
1999	*J. Anal.At.Spectrosc,*	2
1998	*Anal. Chem..*	1
1998	*Applied Spectrosc*	2
1998	*J. Anal. Atom. Spectrosc*	1
1998	*J. Chem Educ.*	1
1997	*Anal. Chem..*	

1997	*Applied Spectrosc*	
1997	*J. Anal. Atom. Spectrosc*	
1997	*J. Chem Educ.*	
1996	*Applied Spectrosc*	2
1996	*J. Anal. Atom. Spectrosc*	2
1996	*Anal. Chem.*	1
1996	*J. Chem Educ.*	3
1995	*Applied Spectrosc*	4
1995	*J. Chem Educ.*	2
1995	*Applied Spectrosc*	4
1995	*J. Anal. Atom. Spectrosc*	3
1994	*Appl. Spectrosc.*	1
1994	*J. Chem. Educ.*	2
1994	*Spectrochim Acta*	1
1994	*J. Anal. At. Spectrosc.*	1
1993	*Appl. Spectrosc.*	2
1993	*J. Chem. Educ.*	3
1993	*Spectrochim Acta.*	2
1991	*Appl. Spectrosc.*	2
1991	*J. Chem. Educ.*	1
1991	*J. Anal. At. Spectrosc.*	1
1991	*Analyst*	1

Number Research Proposals Reviewed

	Agency	*No. of Proposals*
2012-present	USC ASPIRE progam	3 per year.
2004-present	Approximately 3 proposals per year.	
2003	Research Corporation	1
2003	DOE	1
2003	SBIR	2
2002	Research Corporation	1
2002	DOE	1
2002	SBIR	1
2001	NSF	1
2000	NSF	1
1999	NSF	1
1999	Research Corporation	1
1998	National Science Foundation	1
1998	Research Corporation	2
1996	NSF	1
1995	ACS-PRF	1
1995	NSF - Chemistry	1
1994	NSF – Chemistry	1
1993	NSF – Chemistry	1
1993	ACS-PRF	1
1992	NSF – Chemistry	1
1992	ACS-PRF	1
1991	NSF-Chemistry	2

D. Professional and Public Service

1. Advisory and consulting services to private and government agencies

Forensic Chemistry

Partial listing. This work continues to the present.

Civil Suits

For the Plaintiff:

Richard Lester/Van Osdell, Lester, and Stewart 1976
Colden Battey/Battey and Bethea
Joseph Rice/Blatt and Fales
Carl Epps/Turner Padgett, Graham and Laney 1980 ,1983
J. Edward Bell/Bell and Floyd
Michael Parham/Abrams, Bowen and Parham
James Bruner/Belser, Baker, Barwick and Toal 1978
Hugh Roberts 1980,
Jake Moore/ Kirkland, Taylor, Wilson, and Moore (1978)
Robert L. Hallman 1979
L. Casey Manning 1979
Dana Davis/Robert E. Seaman
Tim Walker/J. Marvin Mullis 1985
Judson Ayers, 1983
Luther J. Battiste, III/Johnson, Toal and Battiste
John Bell
Samuel K. Morgan/Walker and Wark
Mary Lewis/Lewis, Babcock, Pleicones and Hawkins
J. Dwight Hudson/Hudson and Sweeney 1987
Carl Reasonover
Harry C. Wilson/Lee, Wilson, Erter and Callaway 1988
John Delgado/Furr and Delgado 1985
Steve Wukela 1990
Sandy Bridges/Bridges and Wisenhunt 1978
Marcus Whitlark/Fedor, Massey & Whitlark
Joe North 1987
English McCutcheon, 1994 Tampered Tampax
Sam Svalina, 1994
Bell and Moore 1999 (Law firm, Georgetown SC) 1999
Susan Firamonte (Attorney, Wukela law firm, Florence SC) 1999
Bell and Moore (Law firm, Georgetown SC) 2000
Wilmot Irvin (Attorney, Columbia SC) 2000
Jon Popowski (Attorney, Columbia SC) 2000
Jim Billings (2003)

For the Defendant

Lane Dennard/Ogletree, Deakins, Nash, Smoak and Stewart 1982
Dennis Gillilan/Kemper Insurance 1983
J. Michael Jordan/Boyd, Knowlton, Tate and Finlay

Criminal Action

For the Defendant

David Belser/Richland County Public Defender's Office

Kathy Gettys/Lexington County Public Defender's Office 1981
Ashley Pennington/Charleston Public Defender (1990)
Ralph Garris (1987)
James Cox/Saleeby, Cox, and Bledsoe 1983
Marty Puetz 1993
Jean Bergeron/Oswald and Floyd
Wayne Floyd
Joe McCulloch
David Taylor
Eastern Wisconsin Federal Public Defender. 2002, 2003
Harrison, White, Smith, Hayes & Coggins Law Firm Spartanburg SC 2003

For the State

Kenneth Fleischmann/Ogletree, Deakins, Nash, Smoak, and Stewart

Industrial Consultation

Hardwicke Chemical 1977
Horsman Dolls 1975
Teepak, Inc
Smith and Jones. Co.
R. Lambert Co. (Formerly Tarachem)
Farm Bureau Insurance
State Farm Insurance
Sonneborn Refractories 1979
Arkansas Best Freight
Exide Industrial Battery
Schull Sausage
Westinghouse Nuclear Fuel Division
Cardinal Chemical Company
Autokeg Systems
Standard Warehouse 1983

2. Consulting for State Agencies

Dates	**Agency**	**Nature of Services & Name of Contractor**	**Recompense (fully paid, honorarium, released time, etc.) If none, write "none"**	**Part of Assigned Duties?**
1988	SLED	Verification of contents of Breathalyzer ampoules	paid	No
1988	Richland County School District 2	Chemical analysis of floor finishes	None	No
1979	SC Division of General Services	Determination of the composition of paint samples	None	No
1976	SC Attorney General	Determination of carbon tetrachloride in injury	Paid	No

3. University and Community Services

a. Administrative and Committee Duties

Dates	**Duties/Service**	**Recompense (fully paid, honorarium, released time, etc.) If none, write "none"**	**Part of Assigned Duties?**
1991-2003	Director of Graduate Studies for the MAT and the IMA program in Chemistry. Faculty advisor to M.T. students	None	Yes
2000-2003	Regina Wragg	None	Yes
2000-2003	Fletcher Spigner	None	Yes
2001-2003	Jason Macero (Chair)	None	Yes
1998-1999	Paul Harhay, M.A.T. (Chair)	None	Yes
1998-1999	Chris Hodges, I.M.A. (Chair)	None	Yes
1998-1999	K'Shaun Sanders, M.A.T. (Chair)	None	Yes
1997-1998	Jennie Kelly M.A.T. . (Chair)	None	Yes
1997-1998	Dani Gallahan M.A.T. . (Chair)	None	Yes
1998	Urica Brown (M.A.T. candidate, No Degree)	None	Yes
1994-1995	Judy Johnson M.A.T. (Chair)	None	Yes
1994-1995	Steven Orr M.A.T. (Chair)	None	Yes
1994-1995	Joelle Lastica M.A.T. (Chair)	None	Yes
1991-1994	Rosalyn Barton, I.M.A.(Chair)	None	Yes
1992-1993	Jennifer Ives, M.A.T. (Chair)	None	Yes
1991-1992	Virginia Graham, M.A.T. . (Chair)	None	Yes

1994-1995	Lisa Perkins, M.A.T. (Chair)	None	Yes
1996	Lee Heather Hodge M.A.T. (xfer to M.Ed.)	None	Yes
1996	Brian Cox M.A.T. (no degree)	None	Yes
1996-1997	Jonathan Ford M.A.T. (Chair)	None	Yes
	Chemistry Ph.D Committees	None	No
1990-1993	Laura Workman Ph.D.	None	No
1990-1995	Jeff Koons, Ph.D.	None	No
1991-1994	Chris Thomas Ph.D. (Chair)	None	No
1991-1994	Clarissa Jakob Ph.D.	None	No
1991-1994	Erik Nimz Ph.D.	None	No
1991-1994	Joe Emily Ph.D. (Chair)	None	No
1991-1994	Renee Falconer Ph.D.	None	No
1991-1994	T. K. Yoshinori Ph.D.	None	No
1991-1995	Melinda Denny Higgins Ph.D.	None	No
1992-1996	Yuan Xiang Ph.D.	None	No
1993-1994	Brian Marquardt Ph.D.	None	No
1993-1994	Katherine Chike (No degree)	None	No
1993-1995	Jeff Aust Ph.D.	None	No
1993-1996	Michael Rider Ph.D. (Chair)	None	No
1994-1995	Saadia Eltayeb, Ph.D.	None	No
1995-1999	Ramin Radfar Ph.D.	None	No
1995-2000	Andrea. Thomas (Chair)	None	No
1995-2002	Maria Schiza	None	No
1996-2002	Allison Oxsher (Chair)	None	No

1996-2001	Kristen Eland	None	No
1997-2001	Narendra Meruva	None	No
1998-1999	Lori Grabill (Chair)	None	No
1998-1999	Ruya Ozer	None	No
1999-2000	Della Smith	None	No
1999-2000	Kui Chen	None	No
2000-	Alex Nieuwland		
2000-	Jie Qin (Lebioda)		
	Chemistry M.S. Committees	None	No
1991-1992	Jennifer Ives (M.S. reader)	None	No
1993-1994	Deedra Foxworth, M.S.	None	No
1993-1994	Jolyon Perkins, M.S.	None	No
1996-1998	Luisa. Santos M.S.	None	No
1998-1999	Mary Peyton Davis, M.S. (Chair)	None	No
1998-1999	Richard Hoskins, M.S. (Chair)	None	No
2000-2002	Della Smith	None	No
2000-2002	Mary-Beth Vaughn	None	No
1981-present	**Advisor to Honors College Chemistry Majors (approximately 16 per year)**	**None**	**Yes**
	Examination Committees outside Chemistry		
1991-1995	S. Rajagopal (M.S. in EECE)	No	No

1991-1995	Vipin Mandargarli (Ph.D. EECE)	No	N,
1993-1995	Ph.D. Examination Committee of Robert Klaric (Ed. Administration)	None	No
1993-1995	Ph.D. Examination Committee of Vladimir Dobrynon, Mathematics	None	No
1994-1996	Agni Mitri (M.S. EECE)	No	No
1994-2000	Wayne Gaul (Ph.D. Public Health)	No	No
1999	Solomon Bkele (Ph.D., Chemical Engineering)	No	No
1999-2003	Wayne Gaul (Public Health)	No	No

SCCC Honors College

1989-1992	*Baccalaureus Artium et Scientia* Committee of John Maize	None	No
1991-1994	*Baccalaureus Artium et Scientia* Committee of Lloyd Raleigh	None	No

b. Administrative Committees

1991	AMOCO Outstanding Teaching Award Committee	None	Yes
1991	Chemistry Department Analytical Chemistry Search Committee	None	Yes
1991	Chemistry Department Bouknight Scholarship (chairman)	None	Yes
1991	Chemistry Department Education and Curriculum	None	Yes
1991	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1991	Provost's Instructional Innovations Committee	None	Yes
1991	PSC Asbestos Abatement Committee	None	Yes
1992	AMOCO Outstanding Teaching Award Committee	None	Yes
1992	Carolina Scholars Selection Committee	None	No

1992	Chem/Marine Science Faculty Search Committee	None	Yes
1992	Chemistry Department Bouknight Scholarship (chairman)	None	Yes
1992	Chemistry Department Candidacy and Examinations Committee	None	Yes
1992	Chemistry Department Executive Committee	None	Yes
1992	Chemistry Department General Chemistry Committee	None	Yes
1992	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1992	M.A.T Policies Committee	None	No
1992	Provost's Instructional Innovations Committee	None	Yes
1992	PSC Asbestos Abatement Committee	None	Yes
1992	South Carolina College Academic Grievance Committee	None	Yes
1992	South Carolina College Academic Grievance Committee	None	Yes
1993	AMOCO Outstanding Teaching Award Committee	None	Yes
1993	Carolina Scholars Selection Committee	None	No
1993	Chem/Marine Science Faculty Search Committee	None	Yes
1993	Chemistry Department Bouknight Scholarship (chairman)	None	Yes
1993	Chemistry Department Candidacy and Examinations Committee	None	Yes
1993	Chemistry Department Executive Committee	None	Yes
1993	Chemistry Department General Chemistry Committee	None	Yes
1993	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1993	M.A.T Policies Committee	None	No
1993	Provost's Instructional Innovations Committee	None	Yes
1993	South Carolina College Academic Grievance Committee	None	Yes
1993	South Carolina College Deans Search Committee	None	No
1993	University Affirmative Action Advisory Committee	None	No
1994	AMOCO Outstanding Teaching Award Committee	None	Yes

1994	AMOCO Outstanding Teaching Award Committee	None	Yes
1994	Carolina Scholars Selection Committee	None	No
1994	Chemistry Department *Ad Hoc* General Chemistry	None	No
1994	Chemistry Department Bouknight Scholarship (chairman)	None	Yes
1994	Chemistry Department Candidacy and Examinations Committee	None	Yes
1994	Chemistry Department Executive Committee	None	Yes
1994	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1994	Honors College Dean's Search	None	Yes
1994	M.A.T. Policies Committee	None	No
1994	Provost's Instructional Innovations Committee	None	Yes
1994	South Carolina College Deans Search Committee	None	No
1994	University Affirmative Action Advisory Committee	None	Yes
1995	AMOCO Outstanding Teaching Award Committee	None	Yes
1995	Carolina Scholars Selection Committee	None	No
1995	Chemistry Department *Ad Hoc* General Chemistry	None	No
1995	Chemistry Department Bouknight Scholarship	None	Yes
1995	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1995	Chemistry Department Stockroom Management	None	Yes
1995	Chemistry Department Undergraduate Laboratory Improvement	None	Yes
1995	College Teaching Assessment Review	None	Yes
1995	M.A.T. Policies Committee	None	No
1995	SCHC General Science Advisory Committee	None	No
1995	University Affirmative Action Advisory Committee	None	Yes
1995	University Enhanced Classroom Renovation	None	No
1996	AMOCO Outstanding Teaching Award Committee	None	Yes

1996	Carolina Scholars Selection Committee	None	No
1996	Chemistry Department Analytical Division (Chair)	None	No
1996	Chemistry Department Awards Committee	None	Yes
1996	Chemistry Department Bouknight Scholarship	None	Yes
1996	Chemistry Department Construction Planning and Oversight (Chair)	None	Yes
1996	Chemistry Department General Chemistry Discussion Group (Chair)	No	No
1996	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1996	Chemistry Department Stockroom Management	None	Yes
1996	College Computer Advisory Committee	None	Yes
1996	University Equal Opportunity Advisement Committee	None	No
1996	University Libraries Committee	None	No
1997	AMOCO Outstanding Teaching Award Committee	None	Yes
1997	Chemistry Department Analytical Division (Chair)	None	No
1997	Chemistry Department Awards Committee	None	Yes
1997	Chemistry Department Bouknight Scholarship	None	Yes
1997	Chemistry Department Construction Planning and Oversight (Chair)	Yes	Yes
1997	Chemistry Department General Chemistry Discussion Group (Chair)	No	No
1997	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1997	Chemistry Department Stockroom Management	None	Yes
1997	College Computer Advisory Committee	None	Yes
1997	McNair Scholars Selection Committee	None	No
1997	University Equal Opportunity Advisement Committee	None	No

1997	University Libraries Committee	None	No
1998	AMOCO Outstanding Teaching Award Committee	None	Yes
1998	Carolina Scholars Selection Committee	None	No
1998	Chemistry Department Analytical Division (Chair)	None	No
1998	Chemistry Department Awards Committee	None	Yes
1998	Chemistry Department Bouknight Scholarship	None	Yes
1998	Chemistry Department Construction Planning and Oversight (Chair)	Yes	Yes
1998	Chemistry Department General Chemistry Discussion Group (Chair)	No	No
1998	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
1998	Chemistry Department Stockroom Management	None	Yes
1998	College Computer Advisory Committee	None	Yes
1998	University Equal Opportunity Advisement Committee	None	No
1998	University Libraries Committee	None	No
1999	AMOCO Outstanding Teaching Award Committee	None	Yes
1999	Carolina Scholars Selection Committee	None	No
1999	Chemistry Department Analytical Division (Chair)	None	No
1999	Chemistry Department Awards Committee	None	Yes
1999	Chemistry Department Bouknight Scholarship	None	Yes
1999	Chemistry Department Construction Planning and Oversight (Chair)	Yes	Yes
1999	Chemistry Department General Chemistry Discussion Group (Chair)	No	No
1999	Chemistry Department General Chemistry Teaching Committee	None	No
1999	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes

1999	Chemistry Department Stockroom Management	None	Yes
1999	College Computer Advisory Committee	None	Yes
1999	Honors College Dean Review Committee	None	Yes
1999	McNair Scholars Selection Committee	None	No
1999	University Goldwater Scholar Selection Committee	None	No
1999	University Institutional Reform of Gatekeeper Courses	None	No
1999	University Libraries Committee	None	No
1999	University SACS Reaccredidation Task Force (Chair)	None	Yes
2000	AMOCO Outstanding Teaching Award Committee	None	Yes
2000	Carolina Scholars Selection Committee	None	No
2000	Chemistry Department Bouknight Scholarship	None	Yes
2000	Chemistry Department Graduate Director Chemistry MAT/IMA	None	Yes
2000	University Goldwater Scholar Selection Committee	None	No
2000	University SACS Reaccredidation Task Force (Chair)	None	Yes
2001	AMOCO Outstanding Teaching Award Committee	None	Yes
2001	Goldwater Scholar Selection Committee	None	Yes
2001	SACS Reaccredidation Task Force (Chair)	None	Yes
2001	Goldwater Scholar Selection Committee	None	Yes
2001	Carolina Scholar Selection panel	None	Yes
2001	McNair Scholar Selection panel	None	Yes
2001	Marshall Scholar Interview Panel	None	Yes
2002	Goldwater Scholar Selection Committee	None	Yes
2002	Goldwater Scholar Selection Committee	None	Yes
2002	Science Education Curriculum Reform	None	Yes
2002	AMOCO Outstanding Teaching Award Committee	None	Yes

2002 West Quad Task Force None Yes

4. Community: (Local, state, national, international)

Dates	Duties/Service	Recompense	Assigned?
1993-1995	SC Commission on Higher Education. Task Force on Applied Academics--Applied Biology/Chemistry	No	No
1993-1995	SC Department of Education Evaluate products designed to improve the performance of diesel-powered school buses.	Yes	No
1993	Junior Science and Humanities Symposium	No	No
1993	Science Fair Judge	No	No
1993	Advisory to Odyssey of the Mind Program group at Dent Middle School	No	No
1996	Represented the Department of Chemistry and Biochemistry at the Science Fair Award Ceremony	No	No
1998	Career Day - Meadowfield School	No	No

5. Professional Society:

Dates	Duties/Service	Recompense	Assigned?
2003 (since 1999)	American Chemical Society Alternate Councilor, SCACS	No	No
1994-2000	American Chemical Society Chairman, Instrumental Analysis Examination Committee	No	No
1996	Chair and organizer of “Forensic Chemistry in the Curriculum” at the Bicentennial Conference on Chemical Education	No	No
1995	Society for Applied Spectroscopy Project Study Committee	No	No
1995	Society for Applied Spectroscopy Nominations Committee	No	No
1994	Society for Applied Spectroscopy Project Study Committee	No	No
1993	Organizer, "Element Selective Detection in Chromatography	No	No
1991-1993	Society for Applied Spectroscopy Project Study Committee	No	No
1985-1991	Society for Applied Spectroscopy Governing Board	No	No
1989-1992	Society for Applied Spectroscopy Program Chair	No	No
1992-1993	Advisory Committee of NSF-Funded Laboratory Statistics Project (USC)	No	No

6. Other

Dates	Duties/Service	Recompense	Assigned?
1995	Advisor to Odyssey of the Mind Program at Dent Middle School	No	No
1995	Attained DOE Radworker II certification (5 days) Required for research at Savannah River Technology Center	No	No
1995	Attained Wasted Generator certification (1/2 day) Required for research at Savannah River Technology Center	No	No
1995	Developed and evaluated a training program for first-year teaching assistants	No	No
1995	Interviewed Carolina Scholars	No	No
1995	Junior Science and Humanities Symposium Judge	No	No
1995	Operated and evaluated a training program for first-year teaching assistants	No	No
1995	Passed Nuclear Criticality Training (1/2 day) Required for research at Savannah River Technology Center	No	No
1995	Science Fair Judge	No	No
1995	Trained in Laboratory Standards (Health and Safety procedures) (1/2 day) Required for research at Savannah River Technology Center	No	No
1996	Acted as the faculty representative to plan the renovation to PSC 210 and served as liaison during the construction	No	No
1996	Interviewed Carolina Scholars	No	No
1996	Refined and evaluated a training program for first-year teaching assistants	No	No
1996	Served as mentor to Polly Funk, a Carolina Scholar.	No	No
1997	Acted as the faculty representative to plan the renovation to PSC 210 and served as liaison during the construction	No	No
1997	Developed and supervised the Chemistry and Biochemistry Laboratory Teaching Assistant Training Program.	No	No
1997	Interviewed Carolina Scholars	No	No
1998	Acted as contact and arranger for the ACS ChemCom	No	No

	teacher training program, taught at USC in the summer.		
1998	Acted as mentor for Ben Kim, EPSCoR high school student t Mathematics, performing summer research	No	No
1998	Coordinated maintenance in PSC 210, the Enhanced classroom	No	No
1998	Interviewed Carolina Scholars	No	No
1998	Interviewed McNair Scholars	No	No
1998	Master Class for SCHC	No	No
1998	Presented concerns of Chemistry faculty about photocopy situation to USC Printing	No	No
1998	Served as mentor, in an official capacity to David Bush, a Carolina Scholar.	No	No
1998	Set up visit of Robert Becker, in conjunction with Teachers Leading Teachers.	No	No
1999	Acted as a consultant, both free and paid, to independent attorneys and to State Agencies	No	No
1999	Acted as mentor for Chris Ross, student at Governors School for Science ant Mathematics, performing summer research	No	No
1999	Acted as the faculty representative to plan the renovation to PSC 006 and served as liaison during the construction.	No	No
1999	Addressed new faculty in South Carolina Honors College	No	No
1999	Designed demineralized water system for Thomas Cooper Library's Archiving laboratory	No	No
1999	Filed a patent disclosure	Yes	No
1999	Filed two patent disclosures	Yes	No
1999	Interviewed Carolina and McNair Scholars	No	No
1999	Served as mentor to John Ferry, new analytical faculty member	No	No
1999	Served as mentor, in an official capacity to David Bush and in an unofficial capacity to several other undergraduate students.	No	No
1999	Set up visit of Ron Perkins, in conjunction with Teachers Leading Teachers.	No	No
1999	Worked as liaison with FWA group to plan renovation of PSC	No	No

2000	Organized the SEAAC (South East Academic Analytical Chemists) meeting in Columbia.
2000	Judged papers for the SC Junior Academy of Sciences.
2000	Judged District Science Fair Chairman, Chemistry Section
2003	Presented Awards at Science Fair