CURRICULUM VITAE Will E. Lynch, Ph.D. Department of Chemistry and Biochemistry Georgia Southern University Savannah, Georgia 31419

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https://cosm.georgiasouthern.edu/chemistry/

Education:

 Ph.D., Wayne State University (Major area: Inorganic Chemistry, Minor area: Physical Chemistry), 1991
 Research advisor: Dr. Richard Lintvedt
 Dissertation: "Synthetic, Structural, and Electrochemical Studies of Osmium(VI), (IV), and (III) Shiff-Base Complexes"

 B.A., Kalamazoo College (Chemistry (ACS) and Mathematics), 1986
 Research advisors: Drs. Richard Cook and Thomas Smith
 Senior Project: "Synthesis and Characterization of Quadruply Bonded Molybdenum Complexes"

Academic Experience:

2018-present	
Professor Department of Chemistry and Biochemistry, Georgia Southern University	,
2018-present	
Department Head Department of Chemistry and Physics, Armstrong State University, 2007-	2018
Professor Department of Chemistry and Physics, Armstrong State University, 2005-	2018
Associate Professor Department of Chemistry and Physics, Armstrong Atlantic State	
University, 1999-2005	
Assistant Professor Department of Chemistry and Physics, Armstrong State	
College, 1993 -1999	
Post-Doctoral Fellow Department of Chemistry, The University of Georgia, 1991–1993	
Research advisor: Dr. Donald Kurtz	

Administrative Highlights: 2007-present:

- <u>Strategic Planning</u> With department, developed strategic plans in 2008 and 2016. Areas of emphasis: a) undergraduate research-access and outcomes, b) external funding, c) instrumentation and technology, d) biochemistry program, e) general chemistry f) public relations
- <u>Undergraduate Research</u> Since 2008, three fold increase in student participation, four fold increase in credit hours, 8% increase in minority participation vs majors, 110 publications (21 publications in physics, prior to 2007 the total by physics faculty was 0). Participation in research yields > 1 year less time towards degree.
- <u>External Funding</u> Over \$8.3 million in funding by department faculty, over \$1.8 million from physics faculty (prior to 2007 the total by physics faculty was \$0).
- **<u>Biochemistry Program-</u>** Fully implemented a B.S. in Biochemistry in Fall 2013. Averaging approximately 10 graduates per year, over 75 majors. Initial assessment outcomes at 69% nationally.
- <u>General Chemistry</u> Success rate in 2007-08 academic year in CHEM 1211 at 64.6%, success rate in 2016-17 at 75.6% (USG State University average at 70.1%). Normative Percentile in CHEM 1211 in 2007-08 academic year at 30.0% (N = 310), normative percentile in 2016-2017 at 41.1% (N = 397). FTFTF ACT/SAT normative average at Armstrong at 7% nationally.
- **<u>Program Assessment</u>**-Major Field Assessment places our graduating seniors at 51.2% national ranking since 2013 to 2018.

- <u>Instrumentation/Technology</u> \$1.415 million in instrumentation purchases in the department since 2007. General Chemistry, Organic Chemistry and Physics laptop turnover every 4 years.
- <u>Public Relations</u> Updated and active website, Facebook feed with multiple posts per week. Systematic industry / government lab visits to build relationships and our internship program.

National / Regional Leadership Highlights:

- <u>American Chemical Society Divisional Activities Committee</u> (2019)– Elected to CPC by the Council of the American Chemical Society
- <u>American Chemical Society Divisional Activities Committee</u> (2017-2018)– Member of Governance Subcommittee
- <u>American Chemical Society Meeting and Expositions Committee</u> (2011-2016)– Served as Chair 2013-2015. Oversee all operations of ACS national and regional meetings. Chair, Task Force on National Meeting Finances charged with achieving a 5% ROR by 2018. Implemented new site/hotel/AV negotiating tactics to reduce meeting costs.
- <u>American Chemical Society Committee on Committees</u> (2008-2010) Nationally elected position, oversaw operations of all ACS national committees.
- <u>American Chemical Society Board Planning Committee</u> (2005-2008) Developed the ACS Strategic Plan for 2008 and beyond.
- <u>American Chemical Society Local Section Activities Committee</u> (2000-2007) Served as Chair 2005-2007. Oversaw the operations and assessment of 189 Local Section of the ACS. Implemented Innovative Activities Grant Program, changed reporting process to electronic and implemented a Quarterly Newsletter.
- <u>Southeast Region of the American Chemical Society</u> (Board Member 2004-2007 and 2016 2018) Served as Chair 2006 and 2017. Oversee the operations of the Southeast Region of the American Chemical Society and the largest annual regional meeting of the Society.
- <u>Southeast Regional Meeting of the American Chemical Society</u> (Program Chair 2001, General Chair 2019). Oversaw the technical program for the 2001 regional meeting and overseeing general meeting arrangements for the 2019 regional meeting.
- <u>National Collegiate Athletic Association Committee on Student-Athlete Reinstatement</u> (2008-2015) Served as Chair of Division II 2013-2015. Served as interim Chair of the combined Division I, II and III Committees in 2014. Oversaw the operations of the student-athlete reinstatement process for Division II of the NCAA.
- <u>Faculty Athletic Representative to National Collegiate Athletic Association</u> Served as Armstrong's representative from 1998-2017. Chair of FAR Council 1999-2000 and 2001-2003. Peach Belt Conference Strategic Advisory Committee member 2003-2005, Leadership Institute attendee 2012. Oversaw local, conference and national matters related to compliance, eligibility and student-athlete welfare.

Awards:

Distinguished Faculty Service to the Academic Discipline, Armstrong Atlantic State University, 2003.

Teaching Experience:

Senior Level:	Organometallics, Group Theory, Advanced Chemical Research, Advanced
	Inorganic Chemistry, Chemistry Seminar, Bioinorganic, Inorganic NMR,
	Catalysis, Green Chemistry, X-ray Crystallography
Junior Level:	Inorganic Chemistry, Physical Chemistry I and II Laboratory, Instrumental
	Analysis Laboratory, Chemical Research
Sophomore Level:	Principles of Chemical Analysis, Descriptive and Materials Chemistry,
	Introduction to Chemical Research
Freshman Level:	Principles of Chemistry I Lecture and Laboratory, Principles of Chemistry II
	Lecture and Laboratory, Honors
	Principles of Chemistry II Lecture and Laboratory, Essentials of Chemistry;
	Survey of Chemistry I Lecture and Laboratory, Survey of Chemistry II,

Introduction to Scientific Inquiry, Physical Environment; Chemical Environment

Refereed Journal Articles (undergraduates underlined):

- Lynch, W.E.; Nivens, D. Quillian, B.P.; Padgett, C.W.; <u>Petrillo, A.; Peek, N.;</u> Stone, J. "A Copper(II) tris-imidazolylphosphine complex as a functional model of flavonol 2,4-dioxygenase" *J. Mol. Struct.* 2019, *1185*, 99-106.
- Lynch, S.; Lynch, G.; Lynch, W.E.; Padgett, C.W. "Crystal structures of four dimeric manganese(II) bromide coordination complexes with various derivatives of pyridine N- oxide" Acta Cryst. E Res. Comm. 2019, E75, 1284-1290.
- Quillian, B.P.; Lynch, W.E.; Padgett, C.W.; <u>Lorbecki, A.; Petrillo, A.; Tran, M</u>. "Syntheses and Crystal Structures of Copper(II) Bis(pyrazolyl)acetic Acid Complexes" J. Chem. Cryst. 2018, 49(1), 1-7.
- 4. Lynch, W.E.; Lynch, G.; Sheriff, K.; Padgett, C.W. "Structures of substituted pyridine *N*-oxide with manganese(II) acetate." *Acta Cryst.* **2018**, *E74*, 1405-1410.
- 5. Padgett, C.W.; Lynch, W.E.; <u>Sheriff, K.; Dean, R</u>.; Zingales, S. "2,2'-Disulfanediylbis(pyridine N-oxide)-hydrogen peroxide (1/1)." *International Union of Crystallography Data*, **2018**, *3*, x180320.
- 6. Lynch, W.E.; Padgett, C.W. "3-Hydroxy-2-(4-methylphenyl)-4*H*-chromen-4-one" *International Union of Crystallography Data*, **2018**, *3*, x181138.
- 7. Lynch, W.E.; Padgett, C.W., <u>Schafer, S.</u> "2-Chloro-4-nitropyridine N-oxide." *International Union* of Crystallography Data, **2018**, *3*, x180016.
- 8. <u>Kang, L.; Lynch, G.;</u> Lynch, W.E.; Padgett, C.W. "Manganese(II) chloride complexes with pyridine N-oxide (PNO) derivatives and their solid state structures." *Acta Cryst.* **2017**. *E73*, 1434-1438,
- 9. Lynch, W.E.; Padgett, C.W. "Bis(flavonolate-k²O,O')dioxoosmium(VI) dichloromethane disolvate" *International Union of Crystallography Data*, **2017**, *2*, 171391.
- Carter, J.; <u>Weaver, B.</u>; Chiacchio, M.A.; Messersmith, A.R.; Lynch, W.E.; Feske, B.D.; Gumina, G "Synthesis, Stereochemical Characterization, and Antimicrobial Evaluation of a Potential Nonnephrotoxic 3'-C-Acethydrazide Puromycin Analog" *Journal of Nucleosides, Nucleotides and Nucleic Acids*, **2017**, *36* (3), 224-241.
- 11. <u>Raymundo, M.</u>; Padgett, C.W.; Lynch, W.E. "Tris(2-methoxyphenyl)phosphine selenide" *International Union of Crystallography Data*, **2017**, *2*, x170009.
- 12. <u>Raymundo, M.;</u> Padgett, C.W.; Lynch, W.E. "Tris(4-methoxyphenyl)phosphine selenide" *International Union of Crystallography Data*, **2016**, *1*, x161271.
- Lynch, W. E.; Padgett, C.W.; Quillian, B.; <u>Haddock, J.</u> "A Square-Planar Hydrated Cationic Tetrakis(methimazole)gold(III) Complex." *Acta Cryst. C* 2015, *C71*, 298-300.
- Hutchinson, M.G.; Lynch, W.E.; Padgett, C.W. "Crystal Structure of 3-Bromopyridne N-oxide" Acta Cryst. E 2015, E71, 0869.
- 15. <u>Prichard, A.M.;</u> Lynch, W. E.; Padgett, C.W. "Crystal Structure of 2,6-Dichloro-4-nitropyridine Noxide" *Acta Cryst. E.* 2015, *E71*, o775.
- Helmly, B.C.; Lynch, W.E. and Nivens, D.A. "Synthesis and Spectroscopic Characterization of MoS₂ and MoSe₂ Nanoparticles," *Spectroscopy Letters*, 2007, 40, 483-492.
- Nivens, D.A.; Lynch, W.E.; <u>Helmly, Brian C.; Nguyen, Nguyen T.; Dingra, Nin; Chow, Joyce:</u> <u>Svendsen, Amanda; Harris, Beverly; Dyal, Cassandra; Hadden, Jodi; Tibah, Denis</u> "Nanotechnology Education Through Laboratory Redesign and Vertical Threads Chemistry Courses Through Laboratory Designed Vertical Threads," in *Education in Nanoscience and Engineering*, R. Carpenter, S. Seal, N. Healy, N. Shinn, W. Braue Eds. Mater. Res. Soc. Symp. Proc. **2006**, *931E*, KK03-01.
- <u>Baker, E.; Harris, B.D., Dyal, C.; Moore, J.; Miller, J.;</u> Lynch, W.E. and Nivens, D.A. Intercalation and Deintercalation of Dimethylsulfoxide and Poly(ethylene glycol) into Minerals—A Materials Based Laboratory Exercise. *Chemical Educator*, **2006**, *11*, 321-324.

- <u>Chow, J.; Dingra, N.N.; Baker, E.; Helmly, B.;</u> Lynch, W. E.; Nivens, D., " Nanoparticle Mediated Photodefluorination Monitored by 19F NMR" *Journal of Photochemistry and Photobiology A: Chemistry*, 2005, 151-154.
- Lynch, W. E.; Nivens, D. A.; <u>Helmly, B. C.; Richardson, M.</u> and Williams, R. R. "Luminescent Properties of Doped Nanoparticles. Preparation of ZnS with Manganese, Copper and Silver Dopants," *Chemical Educator*, **2004**, *9 (3)*, 159-162.
- <u>Walsh, J.E.; Long, J.,P.;</u> Nivens, D.A. and Lynch, W.E. "Isolation and Purification of Quercetin 2,3dioxygenase from Aspergillus flavus via Lectin Affinity Chromatography," *Journal of Undergraduate Research Chemistry*, 2004, 2, 51-55.
- Lynch, W.E.; Nivens, D.A.; <u>Hall, J.P.; Long, J.P.; Strasburger, D. and Walsh, J.E. "Analysis of Copper(II) and Iron(III) Diethyldithiocarbamates: Synthesis, Thermal and Spectral Characterization: Thermogravimetric Analysis, Differential Scanning Calorimetry and Diffuse Reflectance FT-IR," *Chemical Educator*, 2003, *8*, 257-259.
 </u>
- 23. Lynch, W. E.; MacGowan, C. E. "A Multidimensional SAACS Chapter at Armstrong Atlantic State University" *In Chemistry*, **2003**, *12(3)*, 12-13.
- Lynch, W. E.; Kurtz, D. M., Jr.; Wang, S.; Scott, R. A., "Structural and Functional Models for the Dicopper Site in Hemocyanin. Dioxygen Binding by Copper Complexes of Tris(Imidazolyl)-Phosphines.", J. Am. Chem. Soc., 1994, 116, 11030-11038.
- Lynch, W. E.; Lintvedt, R. L.; Shui, X. Q., "Osmium(VI)-Dioxo Complexes Derived from fl-DiketoneSchiff-Bases and Their Reactivity with Aryl and Alkyl Thiols. Synthesis, Characterization, Structures and Electrochemical Data.", *Inorg. Chem.*, **1991**, *30*, 1014-1019.
- 26. Lintvedt, R. L.; Lynch, W. E.; Zehetmair, J. K., "Tetranuclear Complexes of 1,3,5,9,11,13-Hexaketonates. 2. Synthesis and Electrochemistry of a Series of Heterotetranuclear Complexes, Bis{1,1'-(1,3-phenylene)bis[7-methyl-1,3,5-octanetrionato(4-)]}hexakis-(pyridine) bis[dioxouranium(VI)]dimetal(II), M₂(UO₂)₂(MOB)₂py₆.", *Inorg. Chem.*, **1990**, *29*, 3009-3013.

Book Chapters:

1. Lynch, W. E.; Kurtz, D. M., Jr., "Iron, Models of Proteins with Dinuclear Active Sites". In Encyclopedia of Inorganic Chemistry; Scott, R. A., King, R. B., Eds. John Wiley & Sons Ltd.: Sussex, 1995, in print.

Representative Grant Proposals (Total Funding \$1,004,694):

- Lynch, W.E.; Smith, J.; Padgett, L.; MacGowan, C.; Werner, E.; Padgett, C.W. "Guiding General Chemistry Laboratory toward a Green Revolution: An Inquiry Approach." National Science Foundation, January 1, 2010 – December 31, 2012, \$192,657.
- Nivens, D.; Lynch, W. E.; Padgett, C.W. "Enhancing Student Learning by Incorporating X-Ray Fluorescence Spectroscopy", National Science Foundation, CCLI, Jan. 1, 2008 – Dec. 31, 2009, \$149,936.
- Awong-Taylor, J.; Nivens, D.; Lynch, W.E.; Zettler, J. "Enhancing the Science Experience by Incorporating DNA Sequencing Into Interdisciplinary Biology and Chemistry Activities" Genomics Educations Matching Fund, , \$25,000, Funded, Oct. 1, 2004 - May 1, 2005.
- Nivens, D.; Lynch, W.E.; Williams, R. "Vertical Threads for Nanotechnology in the Chemistry Curriculum," National Science Foundation: Nanotechnology in Undergraduate Education (NUE) Grant,; \$100,000, Funded May 1, 2003 - April 30 2004.
- 5. Lynch, W.E.; Nivens, D. "Project SEED: Nanotechnology" American Chemical Society, Will Lynch, Delana Nivens, \$2625, Funded June 1 August 31, 2003.
- Wallace, R.; Lynch, W.E. "Enhancing the Undergraduate Chemistry Experience with High Field NMR", National Science Foundation CCLI Program, \$91,000, Funded (July 1, 2000 - July 31, 2003).
- Lynch, W. E. "Oxygen Reactivity of Model Complexes of Iron and Copper Metalloenzymes", American Chemical Society Petroleum Research Fund, \$20,000.00, accepted, June 1, 1996 -September 1, 1998.
- 8. Wallace, R., Lynch, W. E., Byrd, J. T., "Enhancing the Undergraduate Chemistry Experience with Gas Chromatography", National Science Foundation ILI, \$ 36,233.50, accepted, August 11, 1997.

Paper Presentations (2014 – present listed): 118 total

- <u>Sheriff, K.;</u> Lynch, W.E.; Padgett, C.W. "Structure of copper benzoate and pyridine N-oxide complexes." Presented by K. Sheriff, 70th Southeast Regional Meeting of the American Chemical Society (October 31- November 3, 2018), Augusta, Georgia, Paper # 337.
- Padgett, C.W.; Lynch, W.E.; Tran, M.; Adams, D.; Goetz, A. "Study of the structure of gold chloride and aromatic N-oxide protonic adducts. Presented by C.W. Padgett, 70th Southeast Regional Meeting of the American Chemical Society (October 31- November 3, 2018), Augusta, Georgia, Paper # 368.
- Lynch, W. E.; Quillian, B.; Padgett, C. W.; Lorbecki, A.; Petrillo, A.; Tran, M., Lorbecki, A., <u>"Syntheses and Crystal Structures of Copper(II) Bis(pyrazolyl)acetic Acid Complexes"</u> 70th Southeastern Regional Meeting of the American Chemical Society, Augusta, GA, , Nov. 1, 2018.
- Lynch, W.E.;; Padgett, C.W., Kang, L., Lynch, G. "Manganese(II) complexes with pyridine Noxide (PNO) and its derivatives: Structural implications of Mn(II) anion and substitution on PNO", SERMACS 2017, Charlotte, NC (#1451), November 11, 2017
- Armstrong State University Student Scholars Symposium, Savannah, GA, "Preparation and Characterization of Copper(II) Flavone and Bis(pyrazolyl) Derivatives", Petrillo, A.; Lynch, W.; Quillian, B., 2017.
- 6. Raymundo, M.; Lynch, W.E.; Padgett, C.W. "Studies on Selenium-Iodine Halogen Bonding" Armstrong Student Scholars Symposium, April 20, 2016.
- Tran, M.; Lynch, W.E.; Padgett, C.W. "Examining the construction of potential coordination polymers with mercury(II) and aromatic N-oxides" Armstrong Student Scholars Symposium, April 20, 2016.
- 8. Lynch, W.E.; Tran, M.; Padgett, C.W. "Examining the construction of polymers with mercury(II) and aromatic N-oxides", SERMACS 2016, Columbia South Carolina, Oct. 24, 2016
- Lynch, W.E.; Tran, M.; Padgett, C.W. "Synthesis and characterization of novel antimony(III) oxo bridged complexes with aromatic N-oxide ligands", SERMACS 2016, Columbia South Carolina, Oct. 25, 2016
- Padgett, C.W.; Guillet, G.; Bailey, S.N.; Goetz, A.; Tran, M.; Hillis, K.; Adams, D.; Pennington, W.T.; Lynch, W.E. "Comparison of nitrogen-iodine halogen bonds and oxygen-iodine halogen bonds", SERMACS 2016, Columbia South Carolina, Oct. 25, 2016
- 11. Peek, N.; Lynch, W. E. "Iron complexes of tris-1-ethyl-4-methlylimidazolylphosphine, synthesis and structure determination." Armstrong Student Scholars Symposium, April 30, 2014.
- Melina Raymundo, M.; Peek, N.; Lynch, W.E.; Padgett, C.W. "Transition Metal Isoquinoline Noxide Complexes, a Novel Class of N-Oxide Structures" Armstrong Student Scholars Symposium, April 30, 2014.

Professional Meetings Chaired / Organized: 18 total

Published Articles for Non-Reviewed Periodicals: 16 total

Professional Service:

- Reviewer for *Journal of Chemical Education*
- Reviewer for Journal of Inorganic Biochemistry
- Reviewer for American Chemical Society Petroleum Research Fund

American Chemical Society (ACS)

- Councilor, Coastal Georgia Local Section (December 1998 present)
- ACS Council Policy Committee (2019)
- ACS Divisional Activities Committee (2017-2018)
- ACS Meetings and Expositions Committee (2011-2016)
 - Chair (2013-2015)
 - Chair Operations Subcommittee (2015 present)
 - Task Force on National Meeting Finances (2013-2015)
- ACS Committee on Committees (2008-2010)
- ACS Board Planning Committee (2005-2008)

- ACS Board Task Force on Hurricane Katrina (2005-2007)
- ACS Local Section Activities Committee (2000 2007)
 - o Chair (2005-2007)
 - Technology Tools and Operations Subcommittee (2000-2004)
 - Chair Technology Tools and Operations Subcommittee (2001 2004)
 - Local Section / Division Joint Subcommittee (2003-2007)
- Southeastern Region of the American Chemical Society, SERMACS, Inc. Executive Committee (2004-2007), (2015-present)
 - Chair (2006, 2017)
 - Chair-elect (2005, 2016)
- American Chemical Society Coastal Georgia Local Section #410
 - Councilor, Coastal Georgia Local Section (December 1998 present)
 - Southeastern Region of the American Chemical Society SERMACS 2019 General Meeting Chair (2015-present)
 - Southeastern Region of the American Chemical Society SERMACS 2019 Executive Committee (2015-present)
 - o Chair (2005)
 - Coastal Georgia Local Section Project SEED Mentor, 2003
 - Coastal Georgia Local Section Project SEED Coordinator, 2003
 - Southeastern Region of the American Chemical Society SERMACS 2001 Executive Committee (November 1997 – 2001)
 - Southeastern Region of the American Chemical Society SERMACS 2001 Technical Program Chair (January 1998 – 2001)
 - Southeastern Region of the American Chemical Society SERMACS 2001 Inorganic Division Chair (January 1998 – 2001)
 - Chair, Coastal Georgia Local Section (December 1996 December 1997)
 - Chair Elect, Coastal Georgia Local Section (December 1995 December 1996)
 - o Executive Committee, Coastal Georgia Local Section (December 1995 present)
 - Coordinator, Coastal Georgia Local Section, Chemistry Olympiad (1996-1998)

National Collegiate Athletic Association

• Committee on Student Athlete Reinstatement, Division II, (2008-2015), Chair 2013-2015

Georgia Academy of Science

• Chair - Chemistry Section (April 1998 - 2000).

University Special Assignments:

- Special Assistant to the Dean of the College of Arts and Sciences for Chemistry (Aug. 2004 2007)
- Faculty Athletics Representative (July 1, 1998 present).
 - Chair Peach Belt Conference Faculty Athletics Representative Committee (June 1999 -May 2000, June 2001 - 2003)
 - Strategic Advisory Committee Peach Belt Conference (2003 2005)
 - NCAA Legislative Review Committee Peach Belt Conference Official Interpreter of Proposals for 2001 Convention
 - Appointed to attend the Faculty Athletic Representative Leadership Institute, 2012
- Presidential Task Force Athletics Department Budget (2000-2001)
- Presidential Task Force Athletics Department Vision and Mission Committee (2005-2006)
- Peach Belt Conference Tournament Steering Committee (Nov. 1997 March 1998, Jan. 1999 Feb. 1999).
- Georgia Academy of Science Steering Committee (January 1998 April 1998)
- Banner Semester Conversion Committee (March 1996 June 1998).
- College Ad-Hoc Committee on Promotion and Tenure (December 1995 June 1996).
- Search Committee Assistant Vice President for Technology (March June 1997).

- Search Committee Director of Sponsored Programs (2003)
- Chair Search Committee Grants Administrator (2004)
- Technology Team Leader (February 1997 June 1998).

University Elected Offices:

• Executive Committee (June 2000 - May 2002)

University Committees:

- University Safety Committee, 2016 2017
- University Diversity Committee, 2017
- Intercollegiate Athletics Committee, Ad Hoc Member (September 1995 2017)
- College of Arts and Sciences Tenure and Promotion Committee (1999-2004, 2005-2006) Chair 2002, 2003, 2005

Representative Community Service using Academic Expertise:

- St. James School School Board Member (2015-2016)
- Blessed Sacrament School Board Member (2005-2008)
 - Budget / Finance / Development Committee (2005-2007)
 - Chair (2007-2008)
 - o Booster Club President (202-2014)
- Savannah Catholic Deanery School Board Member (2000 2005)
 - Chair of Salary and Principals Committee (2000 2002)