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## EDUCATION

*Senior Research Associate*, San Jose State University (1985)

Projects: Photo-excited states in organic superconductors and conduction band excitation of layer solids

Project Director: Prof. Juana V. Acrivos

*Ph. D.*, Physical Chemistry, University of Southern California (1985)

Dissertation Title: Characterization of Oxygen Effects on the Electronic and Structural Properties of Polyacetylenes

Dissertation Director: Prof. Larry R. Dalton

*M. Sc.*, Chemistry, State University of New York at Stony Brook (1980)

Thesis Title: Resonance Enhancement of Raman Scattering by Localized Phonons

Thesis Director: Prof. David M. Hanson

*B. Sc.*, Physics and Chemistry (majors), Mathematics (minor), University of Puerto Rico (1976)

## ADMINISTRATIVE EXPERIENCE

*Dean*, College of Science, University of Texas at El Paso (2007 – current)

Responsibilities: Chief academic and administrative officer of a comprehensive college consisting of seven departments/programs, eleven centers and institutes, and budget over \$10M. The departments/programs include: Biological Sciences Chemistry, Geological Sciences, Mathematical Sciences, Physics, Bioinformatics and Environmental Science. Among the centers and institutes, the Border Biomedical Research Center and the Medical Professions Institute focus attention on biomedical and health needs of our distinctive bi-national/bi-cultural, metropolitan border region. The College offers fourteen Bachelor of Science degree programs and eleven graduate degrees at the master's level. Bachelor of Arts degrees are offered in each academic department through the College of Liberal Arts. Doctoral degrees are offered in Biological Sciences, Chemistry, Geological Sciences, Environmental Science and Engineering, and Materials Science and Engineering. The College serves approximately 1,600 undergraduate and graduate students.

*President and Founder*, The Micaela Group; (2007 – current)

The Firm: *The Micaela Group* is a consulting firm comprised of academic practitioners who are passionate about the improvement and transformation of education with the aim of enhancing student achievement. We provide assistance to universities, colleges, departments and school districts for the development of sustainable, practical solutions and realistic alignment of mission/vision with organizational structure and resources. Our work highlights approaches for inclusive and transformational leadership development. We also focus on strategic solutions for the recruitment, development and advancement of women and minority faculty and students in SMET disciplines (science, mathematics, engineering and technology).

*Dean, Allen E. Paulson College of Science and Technology, Georgia Southern University (2003 – 2006)*  
Responsibilities: Chief academic and administrative officer of a comprehensive college consisting of seven departments/units, three academic centers and over 180 faculty and staff, and budget over \$13M. The departments/units include: Biology, Chemistry, Geology and Geography, Mathematical Sciences, Military Science, Physics and the School of Technology (Civil Engineering Technology, Electrical Engineering Technology, Mechanical Engineering Technology, Construction Management, Graphic Communications Management, and Engineering Studies). The academic centers include: the Applied Coastal Research Laboratory at Skidaway Institute of Oceanography, the Institute of Arthropodology and Parasitology (home of the Smithsonian's US National Tick Collection), and the Center for Printability and Runability. Engagement and outreach efforts are managed through the College Office of Undergraduate Research (COUR), and the Science and Technology Applied Research Services Center (STARS). The College offers baccalaureate degrees, the Master of Science, and the Master of Technology to approximately 2,220 undergraduate and graduate students.

Accomplishments:

- *Academic Planning* – As Chair of the *College Institutional Effectiveness Plan (IEP) Working Group*, provided oversight for the development of programmatic assessment plans based on student learning outcomes and evidence-based improvement strategies for each degree offered through the College. Led the development of 4-year academic plans (academic maps promoting expectations for students to graduate in 4 years) and 2-year schedules of projected course offerings for each academic degree program in the College.
- *Research Initiatives* – Established and provided support for the development of flexible *Research Interest Groups (RIGs)*: groups of faculty, staff and students across departmental and college units with shared scholarly interests, self-organized to enhance distinctive areas of research expertise. Strategic faculty hires will support these initial College RIGs: *Coastal Plain, Epidemiology, Geographic Information Systems, and Research in Science, Technology, Engineering and Mathematics Education*.
- *Faculty Advancement* – Appointed, provided a framework, and charged a *College Task Force on Policies and Procedures* consisting of faculty representing each unit of the College to develop Established and provided a framework for a faculty task force to develop: 1) mission and vision statements for the College, and 2) procedures, criteria, and performance indicators for the evaluation and advancement of faculty. Achieved institutional approval of College procedures and policies, consistent with institutional policies and documents, while preserving recognized disciplinary practices.
- *Education Reform and Teacher Preparation Initiatives* –
  - *Partnership for Reform in Science and Mathematics (PRISM)* – Appointed and provide senior leadership for the College's lead role in a tripartite collaboration with the College of Education and with teachers and administrators at seven school districts in the East Central region of Georgia participating in the *PRISM*, a multi-university, five-year, \$35M project funded by NSF to University System of Georgia Board of Regents.
  - *Project Lead the Way (PLTW)* – Pursued and achieved designation of Georgia Southern University as a National Affiliate site for PLTW to promote, expand and support teachers and curricula for engineering and engineering technology programs in middle schools and high schools.
  - *National Network for Education Renewal (NNER)* and the *Agenda for Education in a Democracy (AED)* – A project in collaboration with the College of Education, *Experiential Pedagogies in the Sciences: From Practice to Praxis*, reflects the organizational

changes and sustainability issues required for implementation of simultaneous education reform undertaken by the College.

- *Academic Administrators' Professional Development* – Provided support and funding for all Chairs and Directors of academic units, and Associate Deans to attend national, professional meetings and workshops for academic administrators.
- *Science and Technology Applied Research Services (STARS) Center* – Established to serve as a catalyst for the development of interactive partnerships and projects to solve real-life problems facing regional industry, education, and government agencies.
- *College Office of Undergraduate Research (COUR)* – Established and provided financial support for COUR, with principal goals to: 1) support and enhance existing faculty-supervised, externally-funded undergraduate research projects, 2) identify, facilitate and support potential faculty-supervised, externally-funded undergraduate research projects, and 3) provide travel grants for students to attend and present findings of research activities to disciplinary conferences and to internal/external symposia.
- *Accreditation* – Member of the *University's SACS Strategic Leadership Team* which oversees the institutional self-study for accreditation by the Southern Association of Colleges and Schools (SACS) under the theme of *Advancing a Culture of Engagement*. Chair of the *College Quality Enhancement Plan (QEP) Working Group*, providing oversight for the development of the College's QEP consistent with the University's accreditation theme of *Advancing a Culture of Engagement*. Co-Chair of the *General Education Quality Enhancement Plan (QEP) Working Group*, providing oversight for the development of the University's General Education QEP consistent with the University's accreditation theme. Provided editorial oversight for the re-accreditation self-studies of several of the College's academic programs: Construction Management (ACCE), Civil Engineering Technology (TAC/ABET), Electrical Engineering Technology (TAC/ABET), Mechanical Engineering Technology (TAC/ABET), Graphic Communications Management (NAIT), and Manufacturing (NAIT).
- *External Relations (Partnerships and Outreach)* – Member of the *Professional Development District (PDD) Governance Council* (2005 – 2006), member of the Skidaway Marine Science Foundation Board of Directors (2005 – 2006), member of the S<sup>4</sup> Technology Corridor Group (2005 – current), and member of the Coastal Business Education and Technology Alliance (CBETA) Board of Directors (2004 – 2006).

*Interim Associate Vice Provost for Academic Programs, Cal Poly* (2000 – 2003)

Responsibilities: Coordination of academic program reviews and external accreditation, coordination, management, and dissemination of information and data on accountability and assessment methodologies, and for participating in institutional policy development, planning and performance initiatives; other duties as assigned by the Provost and the President.

Accomplishments:

- *Orfalea College of Business Strategic Planning Partnership Initiative Team* (2002) - Sponsored by the Ernst & Young Foundation, the Strategic Planning Partnership involves a selected group of stakeholders (faculty, staff, students and administrators) charged with reviewing the College's mission, resources, strengths, opportunity areas and risks. Members of the team are engaged in developing strategies, implementation plans and procedures that extend strategic planning into strategic management. Responsibilities include serving as the facilitator for the Partnership's Scholarship Task Force.
- *Review of Retention, Tenure and Promotion Criteria* (2002) - Authored an analysis of the current policies and procedures for faculty retention, tenure, promotion, and post-tenure evaluation used by Colleges and Departments. The draft report entitled *Retention, Tenure,*

*Promotion and Post-Tenure at Cal Poly: A Review of Policies and Procedures* was submitted to the Provost and Chair of the Academic Senate for their consideration.

- *Chair, Crisis Response Planning Team* (2002) - Developed a crisis response plan for International Education and Programs addressing potentially safety- and life-threatening events in countries with educational programs either sponsored by or with the participation of Cal Poly students and faculty.
- *Chair, NCAA Athletics Certification Interim-Report Study* (2001 – 2002) - Senior-level institutional officer and principal author of Cal Poly's *NCAA Certification Interim Self-Study* report. Responsibilities included the coordination of staff efforts regarding the collection, preparation and dissemination of the NCAA interim-report, and campus liaison with NCAA Division I Committee on Athletics Certification and NCAA staff. (<http://www.academics.calpoly.edu/ncaa/>)
- *Coordinator, Cal Poly Responds to the National Tragedy* (2001 – 2002) - Coordinated all activities that comprised our campus response to the tragedy of September 11, 2001. Beyond the initial efforts to provide information, comfort and support, we organized a year-long series of seminars centered on three general themes: Islam, Central Asia and international terrorism, civil liberties and constitutional rights in times of war, and the physical, socioeconomic and emotional aspects of reconstruction and rebuilding. Additional activities included community reflections for students, faculty and staff on the day after the tragedy, a community-wide ringing of bells to commemorate the one-month anniversary followed by candlelight, evening walk by members of the Cal Poly community through downtown San Luis Obispo. Students, faculty, and the local community attended the events.
- *Chair, Instructionally Related Activities Committee* (2001 – 2003) - Established criteria, review and resource allocation of student-funded "out-of-class experiences" that are integrally related to formal instructional offerings. (<http://www.academics.calpoly.edu/ira/>).
- *Chair, Cooperative Education Advisory Committee* (2000 – 2001) - Responsible for assessment of current policies and developing recommendations that enhance the educational experience and promote student participation.
- *Campus Assessment Coordinator* (2000 – 2003) - Responsible for providing guidance and assistance to academic programs and colleges in developing curricular assessment plans for general education, major (undergraduate) programs and graduate programs and acting as campus liaison with the California State University (CSU) system office and other CSU campuses on issues of academic assessment. (<http://www.academics.calpoly.edu/assessment/>).
- *Campus Accountability Coordinator* (2000 – 2003) - University liaison with the CSU system office on issues of institutional accountability and performance; responsible for drafting biennial accountability reports and for coordinating data analysis and interpretation essential for this purpose. (<http://www.academics.calpoly.edu/accountability/>).

*Member, Cal Poly Foundation Board of Directors, Cal Poly* (1999 – 2002)

**Responsibilities:** The Board of Directors provides oversight of Cal Poly Foundation's efforts in support of the University's educational mission, such as fiscal administration and support services for sponsored programs, private gifts, conferences, workshops and institutes; and administrative responsibilities for food services.

**Accomplishments:**

- *Member of the Audit Committee* - Responsible for the review, selection and oversight of independent auditor, their findings and performance, on behalf of the Board.

- *Chair of the Nominating Committee* - Responsible for review of nominations and for providing recommendations for Officers of the Board and new Board members.
- *Chair of the Foundation Governance Review Task Force* - Responsible for review and revision of Board committee structure.

*Special Assistant to the Provost, Cal Poly (1999 - 2000)*

Responsibilities: Development of a systematic and coordinated approach to internal and external accountability, assessment, and academic program review; coordination of institutional participation in regional and national efforts, such as the Irvine Foundation Minority Achievement Consortium, the National Survey of Student Engagement, the Knight Collaborative-Collegiate Results Project, and the American Association of State Colleges and Universities (AASCU) Project on Mathematics Preparation for Elementary Teachers.

Accomplishments:

- *Chair, Task Force on Institutional Accountability and Learning Assessment* - Coordinated and developed campus-specific indicators and measures in response to the CSU *Accountability Process*. Developed and successfully led Academic Senate approval of revised academic program review policies and procedures, entitled *Report on Institutional Accountability: Academic Program Review*, which focuses on a flexible and discipline-based approach to program reviews that is aligned with assessment, accreditation and accountability. (<http://www.academics.calpoly.edu/programreview/>).

*Academic Senate Chair, Cal Poly (1997 - 1998)*

Responsibilities and accomplishments: Established agenda and prioritized issues for consideration by the Academic Senate; manage committee assignments to Senate-associated and University-wide committees; appointed Chairs for all Senate-associated committees; advised the University administration on governance issues affecting faculty, professional staff and students; presided over bi-weekly Academic Senate meetings and bi-weekly Executive Committee meetings; supervised administrative staff; co-authored and developed successful strategies for the passage of several Academic Senate resolutions: *Cal Poly Statement on Diversity, Academic Value of Diversity, Faculty Dispute Process, Student Grievance Process, Cal Poly's Response to the Cornerstones Report, and Procedures for External Program Review*. Coordinated strategies for successful passage of a revised general education program and structure, General Education 2000.

*Acting Department Head, Materials Engineering Department, Cal Poly (1997)*

Responsibilities and accomplishments: administer departmental budget and academic activities; supervise staff.

*Program Administrator, Associated Western Universities (AWU), Inc, Cal Poly (1994 – 2000)*

Responsibilities and accomplishments: Responsible for promoting, facilitating and coordinating the participation of Cal Poly faculty, undergraduate students and graduate students in research projects at AWU-DOE (Department of Energy) laboratories

## FACULTY POSITIONS

*Professor, Chemistry, Georgia Southern University (2003 - 2007)*

*Professor, Materials Engineering, California Polytechnic State University (1994 - 2003)*

Accomplishments: supervised and directed one master's thesis; supervised eight undergraduates in senior projects (a capstone degree requirement).

*Associate Professor, Materials Engineering, Cal Poly (1990 - 1994)*

Accomplishments: developed five new courses (*Electronic Properties of Materials, Polymers and Polymeric Materials, Instrumental Analysis, Special Topics in Superconductivity, and Introduction to X-Ray Diffraction*); principal in acquisition several state-of-the-art instruments for instructional use through grants/contracts; supervised and directed two master's thesis; supervised eleven undergraduates in senior projects (a capstone degree requirement).

*Assistant Professor, Materials Science Ph.D. Program, The University of Alabama (1988 - 1990)*  
*Adjunct Assistant Professor, Materials Science Ph.D. Program, The University of Alabama at Birmingham, The University of Alabama at Huntsville (1988 - 1990)*  
*Assistant Professor, Chemistry, The University of Alabama (1985 - 1990)*  
Accomplishments: established research program in processing, structure analysis, and characterization of high-temperature superconductors; supervised a post-doctoral student; supervised and directed two doctoral dissertations; served on six dissertation committees; supervised and directed ten undergraduates' research projects.

## **OTHER TEACHING POSITIONS**

*Instructor of Chemistry and Mathematical Methods for Science, Upward Bound/Eastern Suffolk Health Professional Training Program, State University of New York at Stony Brook (1980 - 1982)*  
*Graduate Research and Teaching Assistant, State University of New York at Stony Brook (1976 - 1981)*  
*Instructor of Physics and Mathematics, ASPIRA de Puerto Rico (1975 - 1976)*

## **RESEARCH/INDUSTRIAL FELLOWSHIPS**

*Visiting Faculty Fellow/Consultant, Pacesetter, Inc., a St. Jude Medical Co. Sylmar, CA (1994 – 1995)*  
Responsibilities and accomplishments: developed and validated a high-performance liquid chromatography method for the (purity) determination of dexamethasone and dexamethasone sodium phosphate; proposed lead insulation development from syntheses of model compounds of sulfur containing polyurethanes; supervised drug delivery studies and biological evaluation of porous coatings for electrode surfaces for drug delivery and improved hemocompatibility; supervised *in vitro* materials (assessment of chemical stability) studies to determine degradation mechanisms of polyurethanes and susceptibility to conductor corrosion products; proposed and conducted accelerated shelf life studies and supervised validation for (cortico)steroid delivery device and Passive Plus DX and Tendril DX steroid eluting leads.

*Associated Western Universities/Department of Energy Summer Faculty Fellow, Los Alamos Meson Physics Facility (LAMPF), Los Alamos National Laboratory (1991 - 1993)*  
Accomplishments: member of an international team of scientists that developed a muon level crossing resonance facility at LAMPF; made the first observation of a quadrupole level crossing resonance in Al through studies of Si:Al and Al:Cu; performed first studies on GaAs-Si and GaAs-ZnSi:Al, single crystal Si, and TmNi<sub>2</sub>B<sub>2</sub>C by muon spin resonance.

*National Aeronautics and Space Administration/American Society for Engineering Education (NASA/ASEE) Summer Faculty Fellow, Space Science Laboratory, NASA-Marshall Space Flight Center (1987)*  
Accomplishments: designed, performed, and analyzed *in-situ*, Raman spectroscopic studies of Hg-Cd-Te melts.

## **PROFESSIONAL DEVELOPMENT**

*Senior Fellow, Office of Diversity, Equity and Global Initiatives, Association of American Colleges and Universities (2006 – 2007)*  
Responsibilities: Assist in the development of innovative pedagogies and programs that integrate global learning across science disciplines and advance scientific literacy as essential component of a 21<sup>st</sup> century liberal education.

*Campus Women Lead, National Initiative for Women in Higher Education, Association of American Colleges and Universities (2005 – current)*  
Responsibilities and accomplishments: Member of a selected cohort of women leaders committed to the development and dissemination of a model for inclusive transformational leadership in higher education. As Member of the Steering Committee responsibilities include developing policy guidelines, expanding intellectual capacity, and securing financial resources in support of the initiative.



*Initiating Simultaneous Renewal Leadership Program, Institute for Educational Inquiry* (2003 – 2005)

Responsibilities and accomplishments: Member of a selected cohort of twelve individuals from National Network for Educational Renewal settings engaged in the study and development of leadership strategies for the Agenda for Education in a Democracy. *Experiential Pedagogies in the Sciences: From Practice to Praxis* has been identified as the inquiry project that reflects the organizational changes and sustainability issues required for implementation of simultaneous education reform undertaken by the Allen E. Paulson College of Science and Technology in collaboration with the Georgia Center for Education Renewal.

*Fellow of the American Council on Education, University of Delaware* (1998 – 1999)

Responsibilities and accomplishments: Internship with President David P. Roselle and Provost Melvyn D. Schiavelli involving first hand experience and observation of all levels of executive decision-making in the management of an academic institution, including leadership principles and values, policy development, relations with Board of Trustees, faculty governance issues, legislative affairs, academic and student affairs, fund-raising, and relations with corporate and industrial partners; conducted a review of academic unit governance documents and developed a template for academic unit governance, developed criteria for use in academic program review, and drafted a proposal for consolidation of several Board of Trustees' committees with oversight of academic programs into one academic affairs committee.

## PROFESSIONAL AFFILIATIONS

American Association of Colleges and Universities  
American Association for the Advancement of Science  
American Conference of Academic Deans  
Council of Colleges of Arts and Science

## HONORS

*Senior Fellow, American Association of Colleges and Universities* (2006 – 2007)  
*Campus Women Lead, American Association of Colleges and Universities* (2005 – current)  
*Council of Fellows, American Council on Education* (2001-2004)  
*Women's Engineering Leadership Conference* (2000)  
*Commendation from Academic Senate, Cal Poly* (1998)  
*Visiting Faculty Fellow, Pacesetter, Inc., a St. Jude Medical Company* (1994)  
*Centennial Certificate; American Society for Engineering Education* (1993)  
*Certificate of Recognition; NASA/ ASEE* (1987)  
*President's Award for Excellence in Teaching by a Graduate Student, SUNY-SB* (1979)

## RESEARCH INTERESTS

Condensed Matter (Physics, Chemistry, Materials Science/Engineering), Superconductivity, Biomaterials, Semiconductors

## PROFESSIONAL PUBLICATIONS

1. Muon Level Crossing Resonance in Niobium; S. F. J. Cox, R. Fuchslin, P. F. Meier, T. L. Estle, D. W. Cooke, A. Morrobel-Sosa, R. L. Lichti, B. Hitti, S. P. Cottrell, K. H. Chow, and C. Schwab, *Hyperfine Interactions* **106** (1997) 57.
2. Interplay of Magnetism and Superconductivity in Thulium and Lutetium Nickel-Borocarbides, S. J. Blundell, S. R. Brown, K. H. Chow, D. W. Cooke, S. F. J. Cox, S. P. Cottrell, C. Godart, L. C. Gupta, Z. Hossain, R. L. Lichti, A. Morrobel-Sosa, C. Mazumdar, R. Nagaraja, P. A. Pattenden, F. L. Pratt, and J. L. Smith, *Physica B* **223-224** (1996) 69.
3. Competition Between Magnetism and Superconductivity in TmNi<sub>2</sub>B<sub>2</sub>C Observed by Muon-Spin Rotation; D. W. Cooke, J. L. Smith, S. J. Blundell, K. H. Chow, P. A. Pattenden, F. L. Pratt, S. F. J.

- Cox, S. R. Brown, A. Morrobel-Sosa, R. L. Lichti, L. C. Gupta, R. Nagarajan, Z. Hossain, C. Mazumdar, and C. Godart, *Phys. Rev. B* **52** (1995) R3864.
4. Structure of Negatively Charged Muonium in n-type GaAs; K. H. Chow, R. F. Kiefl, W. A. MacFarlane, J. W. Schneider, D. W. Cooke, M. Leon, M. A. Paciotti, T. L. Estle, B. Hitti, R. L. Lichti, S. F. J. Cox, C. Schwab, E. A. Davis, A. Morrobel-Sosa and L. Zavieh, *Phys. Rev. B* **51** (1995) 14762.
  5. Development of a  $\gamma$ LCR Facility at LAMPF; M. A. Paciotti, D. W. Cooke, M. Leon, B. L. Bennet, C. Pillai, O. M. Rivera, B. Hitti, T. Estle, S. F. J. Cox, R. L. Lichti, T. R. Adams, C. D. Lamp, A. Morrobel-Sosa, O. Richter, C. Boekema, J. Lam, S. Alves, J. Oostens, and E. A. Davis, *Hyperfine Interactions* **87** (1994) 1111.
  6. Distinctive Field Dependence of the Longitudinal Muon Polarization for  $\text{Mu}^*$  in Polycrystalline Silicon; D. W. Cooke, M. Leon, M. A. Paciotti, P. F. Meier, E. A. Davis, A. Singh, S. F. J. Cox, A. Morrobel-Sosa, C. Boekema, J. Lam, T. Estle, B. Hitti, R. Lichti, and J. Oostens, *Hyperfine Interactions* **86** (1994) 699.
  7. Muon Level-Crossing Resonance in Si:Al; D. W. Cooke, M. Leon, M. A. Paciotti, B. L. Bennet, O. M. Rivera, P. F. Meier, C. Boekema, J. Lam, A. Morrobel-Sosa, T. Estle, B. Hitti, R. Lichti, S. F. J. Cox, E. A. Davis, J. Oostens, and E. E. Haller, *Hyperfine Interactions* **86** (1994) 639.
  8. Muon Level Crossing Resonance in Aluminum; S. F. J. Cox, G. H. Eaton, D. S. Silva, M. S. Watt, D. W. Cooke, M. Leon, M. A. Paciotti, J. L. Smith, W. L. Hulst, T. L. Estle, B. Hitti, C. Boekema, J. Lam, A. Morrobel-Sosa, R. L. Lichti, J. Oostens, C. Schwab, E. A. Davis, A. Singh, N. Ayres de Campos, J. Ayres de Campos, P. J. Mendes, J. M. Gil, K. Chow, R. DuVarney and P. F. Meier, *Hyperfine Interactions* **85** (1994) 59.
  9. Field Dependence of the Longitudinal Muon Polarization for Anomalous Muonium; D. W. Cooke, M. Leon, M. A. Paciotti, P. F. Meier, S. F. J. Cox, E. A. Davis, T. Estle, B. Hitti, R. Lichti, C. Boekema, J. Lam, A. Morrobel-Sosa, and J. Oostens, *Phys. Rev. B* **50** (1994) 4391.
  10. A Triphenyl Bismuth-based Solution Route to Bi:Sr:Ca:Cu:O Superconductors; K. M. Stephens, D. A. Robinson, A. Alvanipour, W. S. Hinton, and A. Morrobel-Sosa, *Physica C* **168** (1990) 351.
  11. Studies on Ozone Processing of High- $T_c$  Superconductors; A. Morrobel-Sosa, D. A. Robinson, M. A. Maginnis, K. M. Burnham, G. D. Martin, C. Alexander, Jr., and R. M. Metzger, in *High-Temperature Superconductivity: The First Two Years*, R. M. Metzger, ed., Gordon and Breach, New York, 1989, p. 159.
  12. Zero-resistance at 100K in the Superconductor  $\text{GdBa}_2\text{Cu}_3\text{O}_{7-z}$ ; D. A. Robinson, C. Asavaroengchai, C. Alexander, Jr., R. M. Metzger, J. S. Thrasher, M. A. Maginnis, and D. A. Stanley, *J. Phys. C* **21** (1988) 4091.
  13. Effect of Oxidizing Atmosphere on Superconductivity in  $\text{RBa}_2\text{Cu}_{3-x}\text{M}_x\text{O}_z$ ; D. A. Robinson, M. A. Maginnis, A. Morrobel-Sosa, C. Alexander, Jr., C. Asavaroengchai, R. M. Metzger, and D. A. Stanley, in *High-Temperature Superconductivity*, M. B. Brodsky, H. L. Tuller, R. C. Dynes, and K. Kitazawa, eds., MRS Symposium Series Vol. 99, Pittsburgh, 1988, p. 587.
  14. Processing and Superconducting Properties of  $\text{GdBa}_2\text{Cu}_3\text{O}_{7-z}$ ; C. Asavaroengchai, R. M. Metzger, D. A. Robinson, A. Morrobel-Sosa, J. S. Thrasher, C. Alexander, Jr., D. A. Stanley, and M. A. Maginnis, in *High-Temperature Superconducting Materials: Preparations, Properties and Processing*, W. E. Hatfield and J. H. Miller, Jr., eds., Marcel-Dekker, New York, 1988, p. 327.
  15. Superconductivity, Thermogravimetry, EPR, Electron Microscopy, and X-Ray Diffraction of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-z}$ ; A. Morrobel-Sosa, D. A. Robinson, C. Asavaroengchai, R. M. Metzger, J. S. Thrasher, C. Alexander, Jr., D. A. Stanley, and M. A. Maginnis, in *High-Temperature Superconducting Materials: Preparations, Properties and Processing*, W. E. Hatfield and J. H. Miller, Jr., eds., Marcel-Dekker, New York, 1988, p. 267.
  16. Raman Spectroscopic Investigations of Hg-Cd-Te Melts; A. Morrobel-Sosa, NASA CR-179219 (1987) XXV.
  17. Superconductivity in Rapidly Cooled  $\text{Gd}_3\text{Ba}_3\text{Cu}_4\text{O}_z$ ; D. A. Robinson, A. Morrobel-Sosa, C. Alexander, Jr., J. S. Thrasher, C. Asavaroengchai, and R. M. Metzger, in *Proceedings of the NATO*



*Advanced Workshop on Organic and Inorganic Low-Dimensional Crystalline Materials*, P. Delhaes, and M. Drillon, eds., Plenum Press, New York, 1987, p. 373.

18. Effect of Molecular Oxygen Upon Soliton  $T_m$  and  $T_1$  Relaxation Measurements by ESE Techniques; H. Thomann, A. Morrobel-Sosa, H. Kim, P. Bryson, L. R. Dalton, B. H. Robinson, A. L. Kwiram, *Molec. Cryst. Liq. Cryst.* **121** (1985) 361.
19.  $^{13}\text{C}$  Hyperfine Interactions in *trans*- $(^{13}\text{CH})_x$  Studied by Electron Spin Echoes; H. Thomann, H. Kim, A. Morrobel-Sosa, C. Chiu, L. R. Dalton, and B. H. Robinson, *Molec. Cryst. Liq. Cryst.* **117** (1985) 455.
20. Evidence for Soliton-Phonon Interactions in *Trans*-Polyacetylene: Temperature and Frequency Dependence of Electron-Spin Lattice Relaxation Data; B. H. Robinson, J. M. Schurr, A. L. Kwiram, H. Thomann, H. Kim, A. Morrobel-Sosa, P. Bryson, and L. R. Dalton, *J. Phys. Chem.* **89** (1985) 4994.
21.  $^{13}\text{C}$  and  $^1\text{H}$  Hyperfine Tensors for Polyacetylene Analyzed in Terms of Electron Coulombic Interactions; H. Thomann, J. F. Cline, B. M. Hoffman, H. Kim, A. Morrobel-Sosa, B. H. Robinson, and L. R. Dalton, *J. Phys. Chem.* **89** (1985) 1994.
22. The Temperature Dependence of Electron Spin Lattice Relaxation Data in *trans*-Polyacetylene and the Evidence for a Soliton-Phonon Interaction; B. H. Robinson, J. M. Schurr, A. L. Kwiram, H. Thomann, H. Kim, A. Morrobel-Sosa, P. Bryson, and L. R. Dalton, *Molec. Cryst. Liq. Cryst.* **117** (1985) 421.
23. Electron Nuclear Double Resonance Spectra of *cis*-rich and *trans*-rich Polyacetylenes between 1.9 and 4.2K; J. F. Cline, H. Thomann, H. Kim, A. Morrobel-Sosa, L. R. Dalton, and B. M. Hoffman, *Phys. Rev.* **B31** (1985) 1605.
24. Comment on the Determination of the Soliton Wavefunction in Polyacetylenes; H. Thomann, H. Kim, A. Morrobel-Sosa, L. R. Dalton, M. T. Jones, B. H. Robinson, T. C. Clarke, and Y. Tomkiewicz, *Syn. Metals* **9** (1984) 255.
25. Study of Polyacetylene and Composites of Polyacetylene/Polyethylene by Electron Nuclear Double Resonance, Electron Nuclear Triple Resonance, and Electron Spin Echo Spectroscopies; L. R. Dalton, H. Thomann, A. Morrobel-Sosa, C. Chiu, M. E. Galvin, G. E. Wnek, Y. Tomkiewicz, N. S. Shiren, B. H. Robinson, and A. L. Kwiram, *J. Appl. Phys.* **54** (1983) 5583.
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## REFEREED BOOK REVIEWS

1. Book Review: 'Serving on Promotion, Tenure, and Faculty Review Committees: A Faculty Guide, second edition'; A. Morrobel-Sosa; *Exchanges: The Online Journal of Teaching and Learning in the CSU* **2003**; Retrieved April 23, 2003 from [http://www.exchangesjournal.org/reviews/review\\_1142.html](http://www.exchangesjournal.org/reviews/review_1142.html)

## PROFESSIONAL PRESENTATIONS (CONFERENCES/LECTURES) AND ARTICLES

1. *Sustainable Models of Student-Faculty Collaborations*, C. Boekema, A. Morrobel-Sosa, and J. Ruiz, *The Student As Scholar: Undergraduate Research and Creative Practice*, Network for Academic Renewal Conference, Association of American Colleges and Universities. Long Beach, CA, April 2007. (Workshop); Retrieved June 8, 2007 from [http://www.aacu.org/meetings/undergraduate\\_research/documents/Workshop2c.pdf](http://www.aacu.org/meetings/undergraduate_research/documents/Workshop2c.pdf)
2. *What is the Future of the Baccalaureate Degree?*; C. K. Cavanaugh, A. Morrobel-Sosa, M. Middaugh, and J. C. Cavanaugh, *The Campus of the Future*, Honolulu, HI, July 2006. (Invited Panel).
3. *Inclusive Leadership Development for Women*; S. J. Washington, A. Morrobel-Sosa, P. M. Lowrie, and C. M. Musil, *2006 National Conference on Race and Ethnicity*, Chicago, IL, May 2006. (Workshop).
4. *Positioning Yourself for Advancement: Orchestrating Your Academic Career*, A. Morrobel-Sosa, *2006 Georgia Women in Higher Education Conference*, Athens, GA, February 2006. (Invited Speaker).
5. *Minding the Canary in the Academy: A Case for Inclusive Transformational Leadership*; On Campus With Women, Fall 2005, Association of American Colleges and Universities. (Invited Article).

6. *Experiential Pedagogies in the Sciences: From Practice to Praxis*; A. Morrobel-Sosa, B. Danilowicz, and F. Rich, National Network for Education Renewal 2005 Annual Conference, Myrtle Beach, SC, October 2005.
7. *Finding the Administrative Leader Within: It's In You, Really!*, UW ADVANCE Center for Institutional Change, University of Washington, Seattle, WA, June 2005. (Seminar).
8. *Forging Your Own Path in Academia*; FORWARD to Professorship; Focus on Reaching Women for Academics, Research and Development in Science, Engineering and Mathematics Workshop; Gallaudet University, Washington DC, May 2005 (Keynote Address).
9. *Deaning by Design*, Women in Engineering Leadership Institute's Leadership Development Conference; Cocoa Beach FL, April 2005. (Invited Panelist).
10. *Implications of the Georgia Performance Standards for University System of Georgia (USG) Institutions that Prepare Teachers*, Preparing Teachers to Teach the New Georgia Performance Standards, Tifton, GA, April 2005 (Invited Panelist).
11. *Balancing the Teaching and Scholarship Mission*, Council of Colleges of Arts and Sciences, San Antonio, TX, November 2004 (Invited Panelist).
12. *Difference/Diversity Issues: Mentoring Faculty for Leadership Roles*, Council of Colleges of Arts and Sciences, San Antonio, TX, November 2004 (Invited Panelist).
13. *Experiential Pedagogies in the Sciences: From Practice to Praxis*, Institute for Educational Inquiry/National Network for Education Renewal, St. Louis, MO, October 2004.
14. *Leading While Different*, Women in Engineering Leadership Institute's Advanced Leadership Conference; Syracuse, NY, October 2004. (Invited Panelist).
15. *So Why Does a Chemist Want to be a Dean?*, American Chemical Society: Coastal Empire Section, Statesboro, GA, November 2003 (Seminar).
16. *Seeking Your Dreams, Finding Your Passion*, Mathematics, Engineering, Science Achievement (MESA) 2<sup>nd</sup> Annual Awards, Allan Hancock College, Santa Maria, CA, May 2002. (Keynote Address).
17. *Pioneering Women in Science and Engineering*; MESA Program, Allan Hancock College, Santa Maria, CA, March 2002. (Invited Panelist).
18. Institutional and System Accountability in California: The Rabbit and The Hat; A. Morrobel-Sosa, W. D. Conn and P. J. Zingg, *Thirteenth International Conference on Assessing Quality in Higher Education*, Glasgow, Scotland, July 2001. (Invited Paper).
19. *Assessing Faculty Performance in Tenure Reviews*; James P. Henderson, A. Morrobel-Sosa, and J. C. Schach, *Caribbean Planning and Assessment Conference*, San Juan, PR, July 2001. (Paper).
20. *Institutional Accountability and Institutional Effectiveness: Case Studies in California and South Carolina*; A. Morrobel-Sosa and J. C. Schach, *Caribbean Planning and Assessment Conference*, San Juan, PR, July 2001. (Paper).
21. *Making Assessment Useful During and Beyond Accreditation Review*; A. Morrobel-Sosa, J. Henderson, J. C. Schach, and G. Young, *AAHE Assessment Conference 2000*, Charlotte, NC, June 2000. (Paper).
22. *Difficult Dialogues: Campus Decision-Making Regarding the Interplay Between Accreditation and Assessment*; J. Henderson, A. Morrobel-Sosa, J. C. Schach, and G. Young, *2000 Colorado Regional Higher Education Assessment Conference*, Denver, CO, April 2000. (Paper).
23. *Equity and Bias in the Academy: The Case of Engineering*, Department of Psychology, Cal Poly, April 2000 San Luis Obispo, CA. (Seminar).
24. *Composing a Life*; W. A. Bragg, L. H. Gillum, L. Niesen de Abruna, and A. Morrobel-Sosa, *17<sup>th</sup> Annual Women of Color Career Conference*, Ann Arbor, MI, March 1999. (Paper).
25. *Students, Faculty and Staff as Partners in University Planning and Governance: Reflections on the Cal Poly Plan*; L. Dalton, A. Morrobel-Sosa, and B. Krupp, *Society for College and University Planning, Pacific Regional Conference*, San Diego, CA, September 1998. (Paper).
26. *Commencement Address by Faculty Senate Chair*, Cal Poly, San Luis Obispo, June 1998.
27. *Building Interdisciplinary Teaching and Research at Cal Poly through Environmental Design*; College of Architecture, Cal Poly, San Luis Obispo, May 2, 1998.

28. *Commencement Address by Faculty Senate Chair*, Cal Poly, San Luis Obispo, December 1997.
29. *The Future of Graduate Education at Cal Poly*, Provost's Town Hall Meeting, Cal Poly, San Luis Obispo, December 1997.
30. *Address to Fall Conference 1997*, Cal Poly, San Luis Obispo, CA, September 1997.
31. Interplay of Magnetism and Superconductivity in Thulium and Lutetium Nickel-Borocarbides, S. J. Blundell, S. R. Brown, K. H. Chow, D. W. Cooke, S. F. J. Cox, S. P. Cottrell, C. Godart, L. C. Gupta, Z. Hossain, R. L. Lichti, A. Morrobel-Sosa, C. Mazumdar, R. Nagaraja, P. A. Pattenden, F. L. Pratt, and J. L. Smith, *International Conference on Strongly Correlated Electron Systems (SCES'95)*, Goa, India; September 1995, (Paper).
32. *Wanted: More Good Women*, Interview for *ASEE Prism* 4 (1995) 24-27, February 1995. (Interview).
33. *Muon Level-Crossing Resonance in Heavily Doped GaAs-Si*, Department of Physics, San Jose State University, San Jose, CA May 1994,. (Seminar).
34. X-Ray Fluorescence Studies of Impurities in Y-Ba-Cu-O; K. L. Heidersbach, A. Morrobel-Sosa, B. L. Bennett, D. W. Cooke, and J. L. Smith, *1994 MRS Spring Meeting*, San Francisco, CA April 1994,. (Poster)
35. Muon Level-Crossing Resonance in Heavily Doped GaAs-Si; L. Zavieh, A. Morrobel-Sosa, D. W. Cooke, M. A. Paciotti, M. Leon, S. F. J. Cox, R. Lichti, T. L. Estle, B. Hitti, and J. Oostens, *1994 MRS Spring Meeting*, San Francisco, CA April 1994,. (Paper/Poster).
36. *Development of a Biomaterials Research Laboratory*, President's Cabinet, Cal Poly, San Luis Obispo, CA, April 1994.
37. *The Engineering of Materials*, Cuesta College, San Luis Obispo, CA, September 1993.
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49. *Engineering at Cal Poly*, Cuesta College, San Luis Obispo, CA, October 1992.
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60. *Materials Processing and Characterization of Superconducting Ternary Oxides*, Department of Materials Science and Mineral Engineering, University of California, Berkeley, CA, April 1991.
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68. *Chemical and Materials Processing of High-Temperature Superconductors*; United States Bureau of Mines-Albany Research Center, Albany, OR, March 1990.
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70. *Chemical Processing of High-Tc Superconductors*; Department of Metallurgical and Materials Engineering, California Polytechnic State University, San Luis Obispo, CA, March 1990.
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82. *Chemistry, Processing, and Physical Properties of High-Temperature Superconductors: Variations on Chemical Themes*; Department of Chemistry, Arizona State University, Tempe, AR, February 1989.
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85. *Where's the Chemistry in Superconductivity?*; Science Club, Tuscaloosa County High School, Northport, AL, December 1988.
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5. Stability Results of Silicone Rubber/Dexamethasone Sodium Phosphate MCRD by High Pressure Liquid Chromatography: Accelerated Life Test, Month 2; A. Morrobel-Sosa, A. Castillo, and D. J. Vachon; Pacesetter, Inc. 1994.
6. Stability Results of Silicone Rubber/Dexamethasone Sodium Phosphate MCRD by High Pressure Liquid Chromatography: Accelerated Life Test, Month 4; A. Morrobel-Sosa, A. Castillo, F. Torres, and D. J. Vachon; Pacesetter, Inc. 1994.
7. Stability Results of Silicone Rubber/Dexamethasone Sodium Phosphate MCRD by High Pressure Liquid Chromatography: Accelerated Life Stability of Dexamethasone Sodium Phosphate in Passive Plus DX and Tendril DX Monolithic Control Release Devices: Results from High Pressure Liquid Chromatography; A. Morrobel-Sosa, F. Torres, and D. J. Vachon; Pacesetter, Inc. 1995.
8. Stability Results of Silicone Rubber/Dexamethasone Sodium Phosphate MCRD by High Pressure Liquid Chromatography: Accelerated Life Test, Month 6; A. Morrobel-Sosa, F. Torres, and D. J. Vachon; Pacesetter, Inc. 1995.
9. Stability Results of Silicone Rubber/Dexamethasone Sodium Phosphate MCRD by High Pressure Liquid Chromatography: Accelerated Life Test, Month 8; A. Morrobel-Sosa, F. Torres, and D. J. Vachon; Pacesetter, Inc. 1995.
10. Stability Results of Silicone Rubber/Dexamethasone Sodium Phosphate MCRD by High Pressure Liquid Chromatography: Accelerated Life Test, Month 10; A. Morrobel-Sosa, B. S. McClure, and D. J. Vachon; Pacesetter, Inc. 1995.

#### **EXTRAMURAL GRANTS**

- Comprehensive Assessment of the Used Oil/HHW Program*; California Integrated Waste Management Board, Co-PI\$199,842; 2002-2003.
- Development of an Undergraduate X-Ray Diffraction and Electron Optical Methods Laboratory*; NSF-ILI; \$255,448; 1992-1994.
- FTIR Microscopy in Undergraduate Materials Engineering Laboratories*; NSF-ILI; Co-PI; \$85,884; 1991-1993.
- Development of a Cryogenic Materials Properties Laboratory*; Hughes-Santa Barbara Research Center; \$50,000; 1990-1992.
- Linkages: Community College Conference*; Project Leader; \$60,000; part of *Synthesis: The National Engineering Education Coalition*; NSF; 1990-1992.
- Processing of High-Temperature Superconductors by Solution-Gel and Hot-Forged Methods*; School of Mines & Energy Development, University of Alabama; \$36,800. 1988-1989.

#### **TEACHING EXPERIENCE**

##### Undergraduate:

General Chemistry	Electronic Properties of Materials
Physical Chemistry	Superconductivity
Quantum Mechanics/Chemistry	Instrumental Analysis
Thermodynamics	Materials Engineering
Kinetics and Rate Processes	Ceramics
Polymers and Polymeric Materials	Failure Analysis

##### Graduate:

Quantum Chemistry  
 Research Techniques in Physical Chemistry  
 X-Ray Diffraction

#### **CURRICULUM DEVELOPMENT**

*Polymers and Polymeric Materials* (MATE 320; 3crs = 3 lectures). This course was designed to provide a broad exposure to polymeric materials and their applications; discussion of their chemical

structure-processing-property relationships and how these affect mechanical, thermal, optical, biomedical and environmental applications.

*Electronic Properties of Materials* (MATE 340; 3crs = 3 lectures). This course was designed to provide a detailed discussion of electric, magnetic, thermal and optical properties of solid-state materials that arise from a quantum mechanical description of their structure; emphasis on applications in microelectronics and semiconductor devices.

*Instrumental Analysis* (MATE 429; 3crs = 1 lecture, 2 labs). This laboratory course was designed to provide an understanding and practice of common techniques in the characterization of materials: thermal analysis (TGA, DSC, DTA), vibrational spectroscopy (FTIR) and electron microscopy (SEM, EDAX).

*Special Topics in Superconductivity* (MATE 518; 2crs = 2 lectures). This course was designed to explore the structure-property relationships exhibited by superconductors, measurement techniques and potential applications.

*Introduction to X-Ray Diffraction* (MATE 520; 2crs = 1 lecture, 1 lab). This course was designed to provide radiation safety training and specific instruction in the use of x-ray diffraction techniques and equipment in the analysis of materials.

### **MASTER'S THESES AND DOCTORAL DISSERTATIONS DIRECTED**

Victor M. Granados; *Materials Analysis of Cryogenic Valves*, M.S., Engineering, California Polytechnic State University (1998)

Lisa Zavieh; *Muon-Level Crossing Resonance Studies in GaAs-Si*, M.S., Engineering, California Polytechnic State University (1993)

Krista L. Heidersbach; *X-Ray Fluorescence Studies of Impurities in Yba<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub>*, M.S., Engineering, California Polytechnic State University (1993)

Keith M. Stephens; *Part I. Solution Routes to Advanced Ceramics; Part II. A Study of the Photodissociation of Phosphine*, Ph. D., Physical Chemistry, University of Alabama (1990)

David A. Robinson; *High T<sub>c</sub> Superconductors: Chemical Processing, Structural and Transport Properties*, Ph.D., Physical Chemistry, University of Alabama (1990)

Abbas Alvanipour; *Organometallic Routes to High T<sub>c</sub> Superconductors*, Ph.D., Post-Doctoral Research Associate; University of Alabama (1989)

### **UNDERGRADUATE SENIOR PROJECTS/THESES DIRECTED**

Mark D. Bruley; *Pressure Testing of Various Support Matrix Materials used in the Immuno Affinity Purification of Protein*, California Polytechnic State University (1998)

Fausto E. Torres; *Ultrahigh Vacuum System*, California Polytechnic State University (1997)

Alesha B. Castillo; *A Study of Polyurethane Degradation by Autooxidation in the Presence of Metallic Corrosion Products and Hydrogen Peroxide*, California Polytechnic State University (1997)

Larry G. Goens; *Imaging the Effects of Wetting Solutions on the Properties of Polyurethane Using Atomic Force Microscopy*, California Polytechnic State University (1997)

Scott A. Centoni; *Super-radiant Emissions in Ar-pumped Ruby Powder*, California Polytechnic State University (1995)

Ramon Ramirez, Jr.; *Thermal Gravimetric Analysis of Aluminum at 515C: Inquiry into possible Oxide Cracking*, California Polytechnic State University (1994)

Curtis L. Hansen; *"Mocha": A Look into Image Analysis*, California Polytechnic State University (1994)

Chad A. Wickman; *Thermal Resistivity of an Experimental Electrical Test Piece*, California Polytechnic State University (1994)

Jason Jewett; *The Design of superconductivity Experiments for Undergraduate Laboratories*, California Polytechnic State University (1993)

Stephen R. Sharp; *Acquisition of a TG/FTIR for Undergraduate Laboratories*, California Polytechnic State University (1993)

Kris Story; *The Effects on Polymer Fracture Surfaces Above and Below the Glass Transition Temperature*, California Polytechnic State University (1993)

Christopher Jenney; *Differential Scanning Calorimetry of a Mechanically Processed Polyamide/ABS Polymer Alloy*, California Polytechnic State University (1993)

Owen Richter; *Development and Computer Interfacing of a Low-Resistivity Station*, California Polytechnic State University (1992)

Bradley J Yellitz; *Electrical Properties of Novel Electrical Contacts*, California Polytechnic State University (1992)

Stephen W. White; *Thermal and Chemical Analysis of Foundry Mold Binder Resins*, California Polytechnic State University (1992)

Dyana Quinlan; *A Thermal Study of Titanium-Oxide Perovskites by Thermogravimetric and Differential Thermal Analysis*, California Polytechnic State University (1991)

Stephen W. White; *A Thermal Study of Vanadium-Oxide Perovskites by Differential Scanning Calorimetry*, California Polytechnic State University (1991)

Nick Ducich; *A Study of Sol Gel Coatings on  $\alpha$ -Ti*, California Polytechnic State University (1991)

Douglas Queheillalt; *Examination of Failed MTS Testing Fixtures*, California Polytechnic State University (1991)

Christopher J. Carrell; *Measurement and Computational Study of High-Tc Superconductors*, The University of Alabama (1990)

Mark S. Swingle; *Electron Paramagnetic Resonance Studies of High-Tc Superconductors*, The University of Alabama (1990)

William D. Calhoun; *X-Ray Diffraction Analysis of High-Tc Superconductors*, The University of Alabama (1989)

Thomas A. Mayfield; *Thin Films of High Temperature Superconductors*, The University of Alabama (1989)

W. Scott Hinton; *Solution-Gel Processing of High-Tc Superconductors*, The University of Alabama (1989)

Paul J. Sefrood; *Processing and Electrical Characterization Studies of High-Temperature Superconductors*, The University of Alabama (1988)

Christopher T. Jones; *Magnetic Resonance Studies of Organic and Inorganic Superconductors*, The University of Alabama (1988)

Kenneth M. Burnham; *Materials Processing of High-Temperature Superconductors*, The University of Alabama (1988)

G. Dawn Martin; *Chemical Substitutions in High-Temperature Superconductors*, The University of Alabama (1988)

Renee Niziurski; *Computer-Interfacing and Design of an Electron Paramagnetic Resonance Spectrometer*, The University of Alabama (1986)

## **PROFESSIONAL DEVELOPMENT ACTIVITIES**

*Making Our Mark, Making a Difference*; The Third Summit For Women of Color Administrators in Higher Education, American Council on Education, Long Beach, CA, November 2006.

*Science and Global Learning in the Undergraduate Curriculum*, Association of American Colleges and Universities, Washington, D.C., January 2006.

*Women Deans' Workshop*, Council of Colleges of Arts and Sciences, Vancouver, BC, Canada, November 2005

*Campus Women Lead Curriculum Planning Retreat*, National Initiative for Women in Higher Education, Association of American Colleges and Universities, Seattle, WA, June 2005.

*AAC&U Institute on General Education*, Association of American Colleges and Universities, Newport, RI, May 2005.

*Validating our Strengths: Exercising Leadership Through Participation and Advancement*, The Second Summit For Women of Color Administrators in Higher Education, American Council on Education, Providence, RI, November 2004.

*Initiating Simultaneous Renewal Leadership Program*, Institute for Educational Inquiry, Seattle, WA, 2003 – 2005

*New Deans' Workshop*, Council of Colleges of Arts and Sciences, Minneapolis, MN, July 2003

*Strengthening Our Place in the Academy: A Summit for Women Administrators and Faculty of Color*, American Council on Education, Emeryville, CA, February 2003.

*Standardized Expectations or Unexpected Standards? Professional Advancement and the Dilemma for Latino Leaders in the Academy*, American Council on Education, Phoenix, AZ, September 2002

*Western Association of Schools and Colleges (WASC) Evaluators Workshop for Special Visits*, Los Angeles, CA, September 2002.

*Orfalea College of Business Strategic Planning Partnership Initiative*, San Luis Obispo, CA, 2002

*Prioritizing Academic Programs and Services*; Society for College and University Planning; San Diego, CA, January 2001

*Women's Engineering Leadership Conference*; National Science Foundation; Winterpark, CO, October 2000

*The Assessment Institute*; The National Center on Postsecondary Teaching, Learning and Assessment; Providence, RI, April 2000

*CSU Conference on Assessing General Education Learning Outcomes*; March 2000, Los Angeles, CA

*Improving Evaluation at the Department Level*; AAHE Forum on Faculty Roles and Rewards, New Orleans, LA, February 2000

*The Scholarship of Teaching and Learning: Definitions, Issues, Methods*; AAHE Forum on Faculty Roles and Rewards, New Orleans, LA, February 2000

*Assessment and the Scholarship of Teaching and Learning*; AAHE Forum on Faculty Roles and Rewards, New Orleans, LA, February 2000

*Plan 2008: Educational Excellence Through Racial/Ethnic Diversity (Guidelines for Developing a Strategic Plan to Facilitate Institutional Change)*; American Council on Education: Educating All of One Nation; Albuquerque, NM, October 1999

*Eastern States Chief Academic Officers Conference*; Newark, DE, June 1999

*Design for Sustainable Technology*; AAHE National Conference, Washington DC, March 1999

*Unit Evaluation and Assessment*; AAHE National Conference, Washington DC, March 1999

*An Administrator's Portfolio: Adaptation of a Teaching Portfolio*; AAHE National Conference, Washington DC, March 1999

*National Focus Group for Minority Women Leaders*; ACE Office of Women in Higher Education, Washington, DC, March 1999

*Hiring and Firing: Legal Issues in Employment for Academic Administrators*; AAHE National Conference, Washington DC, March 1999

*Self-Organizing for Learning: Open Space Technology*; AAHE National Conference, Washington DC, March 1999

*Delaware Women's Conference*; Newark, DE, March 1999

*Project on Leadership and Institutional Transformation*; American Council on Education, Alexandria, VA, February 1999

*Academic Productivity and the "Readiness Criteria"*; National Learning Infrastructure Initiative, New Orleans, LA, February 1999,

*Who Owns Online Courses and Course Materials? Intellectual Property Policies for a New Learning Environment*; National Learning Infrastructure Initiative, New Orleans, LA, February 1999

*Technology Challenges: Issues and Intellectual Property Concerns*; AAHE Forum on Faculty Roles and Rewards, San Diego, CA, January 1999

*Getting Students to Think: Problem-Based Learning as an Instructional Tool*; AAHE Forum on Faculty Roles and Rewards, San Diego, CA, January 1999

*New Media Technologies and Faculty Development: Curricular and Learning-Based Models*; AAHE Forum on Faculty Roles and Rewards, San Diego, CA, January 1999

*Recognizing and Responding to the Ethical Issues Raised by New Roles and Rewards*; AAHE Forum on Faculty Roles and Rewards, San Diego, CA, January 1999  
*A Turning Point - A People Together*, Newark, DE, November 1998  
*Choices for Delaware: Life and the Economy in 2000 and Beyond*; Delaware Public Policy Institute, Newark, DE, November 1998,  
*Fourier Transform Infrared Spectroscopy Workshop*; Milpitas, CA, September 1997  
*Engineering Management Program: Seminar on Technology*; San Luis Obispo, CA, June 1997  
*Sixth International Conference on ?SR*, Maui, HI, June 1993  
*University Materials Council*, Washington, DC, May 1993  
*ASEE-College Industry Education Conference*, Orlando, FL, January 1993  
*Community College Engineering Educators Conference (CCEE-92)*, San Luis Obispo, CA, August 1992  
*Cal Poly Counselor Conference*; San Luis Obispo, CA, May 1992  
*Community College Engineering Educators Conference (CCE-91)*, San Luis Obispo, CA, August 1991  
*California Engineering Liaison Committee Meeting*, Cupertino, CA, March 1991  
*Superconductivity*, Gordon Research Conference, Ventura, CA, March 1991  
*Golden Gate Materials Technology Conference: Quintech '91*, San Mateo, CA, February 1991  
*41<sup>st</sup> Southeast ACS Regional Meeting*, Winston-Salem, NC, October 1990  
*4<sup>th</sup> Alabama Materials Research Conference*, Tuscaloosa, AL, October 1990  
*Western Regional Materials Science and Engineering Meeting*, Irvine, CA, September 1990  
*University Materials Council*, Washington, DC, May 1990  
*Superconductivity*, Gordon Research Conference, Ventura, CA, March 1990  
*21<sup>st</sup> Southeastern Magnetic Resonance Conference*; Memphis, TN, October 1989  
*3<sup>rd</sup> Alabama Materials Research Conference*; Huntsville, AL, September 1989  
*Workshop on Loop-Gap Resonators*, National Biomedical ESR Center, Milwaukee, WI, May 1989  
*1989 MRS Spring Meeting*, San Diego, CA, April 1989  
*Superconductivity*, Gordon Research Conference, Ventura, CA, March 1989  
*40<sup>th</sup> American Chemical Society Southeast Regional Meeting*, Atlanta, GA; Session Chair, November 1988  
*20<sup>th</sup> Southeastern Magnetic Resonance Conference*, Columbia, SC, October 1988  
*1988 Alabama Materials Research Conference*, Auburn, AL, October 1988  
*International Conference on the First Two Years of High-Temperature Superconductivity*, Tuscaloosa, AL, April 1988  
*1987 MRS Fall Meeting*, Boston, MA, December 1987  
*International Symposium on High-Temperature Superconducting Materials*; Chapel Hill, NC, September 1987  
*194<sup>th</sup> National Meeting American Chemical Society*, New Orleans, LA, September 1987  
*18<sup>th</sup> Southeastern Magnetic Resonance Conference*, Nashville, TN, October 1986  
*1986 MRS Spring Meeting*, Anaheim, CA, April 1986  
*17<sup>th</sup> Southeastern Magnetic Resonance Conference*, Tuscaloosa, AL, October 1985  
*1985 Pacific Coast Conference on Chemistry and Spectroscopy*; San Francisco, CA, October 1985

## **PROFESSIONAL SERVICE ACTIVITIES**

*Board of Directors, Women in Engineering Programs and Advocates Network (WEPAN)*; Denver, CO, 2005-2006  
*Advisory Board, On Campus with Women*, Association of American Colleges and Universities; Washington, D.C., 2005 – current  
*Campus Women Lead Steering Committee*, National Initiative for Women in Higher Education, Association of American Colleges and Universities; Washington, D.C., 2005 – current  
*Board of Directors, Skidaway Marine Science Foundation*; Savannah, GA, 2005 – 2006  
*Professional Development District (PDD) Governance Council*, Statesboro, GA 2005 – 2006  
*4<sup>th</sup> Technology Corridor Group*, Savannah, GA, 2005 – 2006

Moderator, 'Straight Talk About Searches: A Session for Deans, Vice Presidents, and Presidential Aspirants'; 86<sup>th</sup> American Council on Education National Meeting, Miami, FL, February 2004  
Board of Directors, Coastal Business Education and Technology Alliance (CBETA); Savannah, GA, 2003 – 2006  
WASC Evaluator, 2002  
ASEE Minorities in Engineering Award Committee, 1996 – 1998  
Board of Directors, University of Texas-El Paso Materials Research Center of Excellence, 1995 – 1998  
NSF-Chemistry Initiative Panel Reviewer, Washington, DC 1993  
NSF-Course and Curriculum Development Panel Reviewer, Washington, DC, 1993  
NSF-Instrumentation for Laboratory Improvement Panel Reviewer, Washington, DC, 1993  
American Society for Engineering Education ASEE Projects Board, 1992 – 1996  
California Engineering Liaison Committee Meeting, Cupertino, CA, March 1991  
Community College Engineering Educators Conference (CCEE-92), SYNTHESIS: National Engineering Education Coalition, San Luis Obispo, CA; Conference Co-Chair, August 1992  
Community College Engineering Educators Conference, SYNTHESIS: National Engineering Education Coalition, San Luis Obispo, CA; Conference Co-Chair, August 1991  
Southeast/Southwest ACS Regional Meeting, New Orleans, LA; Session Chair, December 1990  
NSF-Instrumentation for Laboratory Improvement Panel Reviewer, Washington, DC, 1988 – 1990  
40<sup>th</sup> ACS Southeast Regional Meeting, Atlanta, GA; Session Chair, November 1988  
International Conference on the First Two Years of High-Temperature Superconductivity, Tuscaloosa, AL; Organizing Committee Member, April 1988  
NSF-CSIP Panel Reviewer, Washington, DC, 1987,

## UNIVERSITY ACTIVITIES

Task Force on General Education, University System of Georgia (2006)  
Ad-Hoc Committee on Development of Strategies and Support for Assessment of General Education Outcomes, University System of Georgia (2005 – 2006)  
Professional Development District (PDD) Governance Council; PDD: P-16 Partnership for Teaching/Learning Renewal and Reducing the Achievement Gap, Georgia Southern University (2005 – 2006)  
Provost Search Committee, Georgia Southern University (2004)  
Partnership for Reform in Science and Mathematics (PRISM) Leadership Team, University System of Georgia (2003 – 2005)  
Educator Preparation Academic Advisory Committee, University System of Georgia (2003 – 2006)  
Campus Protection Task Force, Georgia Southern University (2003 – 2006)  
Student Success Council, Cal Poly (2002 – 2003)  
University Diversity Enhancement Council, Cal Poly (2002 – 2003)  
College of Engineering Peer Review Committee, Cal Poly (2000)  
Faculty Advisory Group for Center for Teaching and Enhanced Learning, Cal Poly (1999 – 2002)  
Information Resource Management Policy and Planning Committee, Cal Poly (1999 – 2001)  
Ad Hoc Faculty Service Learning Development Committee, Cal Poly (1999 – 2001)  
College of Engineering Curriculum Committee, Cal Poly (1999 – 2000)  
Curriculum Development Committee, Department of Materials Engineering, Cal Poly (1999 – 2000)  
Academic Senate, Cal Poly (1999 – 2000)  
Task Force on Graduate Education, Cal Poly (1997 – 2003)  
Chair, Academic Senate, Cal Poly (1997 – 1998)  
Task Force on Diversity, Cal Poly (1997 – 1998)  
Task Force on Ethics, Cal Poly (1997 – 1998)  
Budget and Long Range Planning Committee, Cal Poly (1997 – 1998)  
Chair, Search Committee for Vice Provost for Academic Programs, Cal Poly (1997 – 1998)  
WASC Accreditation Steering Committee, Cal Poly (1997 – 1998)  
University Planning and Budget Advisory Committee, Cal Poly (1997 – 1998)

*Campus Fee Advisory Committee*, Cal Poly (1997 – 1998)  
*Cal Poly Plan Steering Committee*, Cal Poly (1997 – 1998)  
*Academic Senate*, Cal Poly (1996 – 1998)  
*Chair, College of Engineering Academic Senate Caucus*, Cal Poly (1996)  
*Program Review and Improvement Committee*, Cal Poly (1995 – 1997)  
*Chair, Academic Senate Curriculum Committee*, Cal Poly (1993 – 1994)  
*Affirmative Action Facilitator*, Department of Materials Engineering, Cal Poly (1992 – 1998)  
*Academic Senate*, Cal Poly (1992 – 1994)  
*Academic Senate Curriculum Committee*, Cal Poly (1992 – 1994)  
*Search Committee for Dean of Research and Graduate Programs*, Cal Poly (1992 – 1993)  
*College of Engineering TRW Excellence in Teaching Award Committee*, Cal Poly (1991)  
*Curriculum Development Committee*, Department of Materials Engineering, Cal Poly (1990 – 1997)  
*Equal Opportunity Committee*, University of Alabama (1986 – 1989)  
*President's Task Force on Human Relations*, University of Alabama (1986 – 1989)  
*Materials Science Research Committee*, University of Alabama (1985 – 1988)  
*Women Studies Program Advisory Board*, University of Alabama (1985 – 1990)  
*Graduate Recruitment Committee*, Department of Chemistry, University of Alabama (1988 – 1990)