

# Susan L. Elrod, Ph.D.

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Executive Director - Project Kaleidoscope (PKAL)  
Association of American Colleges & Universities (AAC&U)  
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## EDUCATION

- Ph.D., *Genetics*, University of California, Davis, 1995  
Dissertation: *Mutational Analysis of CDC36 in Saccharomyces cerevisiae*
- B.S., *Biological Sciences*; Minor, *Chemistry*, California State University, Chico 1986  
Honors Research: *Ames Testing of Regional Farm Soils*

## FACULTY POSITIONS

- Full Professor** Biological Sciences Department, Cal Poly, San Luis Obispo Fall 2008 – present  
(on professional leave)
- Associate Professor** Biological Sciences Department, Cal Poly, San Luis Obispo Fall 2003 – 2008
- Assistant Professor** Biological Sciences Department, Cal Poly, San Luis Obispo Fall 1997 – 2003

### Teaching Areas

Genetics, Molecular Biology, Microbial  
Biotechnology, Bioinformatics

### Research Areas

Science education, Fungal molecular ecology; Fungal  
Heterologous gene expression/genetic engineering

## RESEARCH EXPERIENCE

- Postdoctoral Fellow** Novozymes Biotech, Inc., Davis, CA May 1995 – Aug 1997
- Research Associate** Hematology & Oncology Laboratory, University of California  
Medical Center, Davis, CA Feb 1988 – Aug 1990
- Research Assistant** Biogen IDEC, Inc., Mountain View, CA May 1987 – Jan 1988

## PROFESSIONAL EXPERIENCE

**Executive Director, Project Kaleidoscope, Association of American Colleges & Universities, Washington, DC**  
Jan 2010 – present

*Responsible for: leading a portfolio of national projects and programs related to science, technology, engineering, and mathematics (STEM) educational reform; organizing and implementing conferences and workshops related to PKAL projects and those of its collaborating partners and institutions; integrating STEM education work into the national higher education agenda and program of PKAL's new partner, the Association of American Colleges and Universities (AAC&U); working with the PKAL's community to conceptualize and implement new initiatives that address emerging challenges and opportunities facing leaders in undergraduate STEM learning (<http://www.aacu.org/pkal>)*

### Associate Dean, Strategic Initiatives

College of Science and Mathematics, Cal Poly, San Luis Obispo July 2009 – Dec 31

*Responsible for creating an integrated vision for Cal Poly's science and mathematics education programs, including teacher credential and graduate programs, elementary teacher undergraduate education, all of which are administratively housed within the College of Science and Mathematics.*

### Director, Center for Excellence in Science and Mathematics Education (CESaME)

Cal Poly, San Luis Obispo Aug 2007 – Dec 31

*Responsible for university-level, interdisciplinary center focused on innovative program development for advancing P-20 STEM (science, technology, engineering and mathematics) education (<http://cesame.calpoly.edu>)*

- Led initial stage of growth, including re-examining its vision and strategic plan toward a higher level of regional, statewide, and national recognition
- Obtained over \$2 million in external funding for STEM education programs; managed relationships with major funding foundations and corporate sponsors
- Managed program and operating budgets of \$500,000; oversight for additional \$700,000 in special project budgets; supervise staff of 4 FTE plus two part-time faculty program directors
- Developed statewide STAR – *Science Teacher and Researcher* – summer research program for aspiring and early career science teachers on behalf of the California State University (CSU) system; currently operate and evaluate program for 40 Fellows at 9 research sites; build and nurture relationships with federal laboratories and funding partners; work directly with President's office to create a national expansion plan
- Fostered development of other new programs to enhance science and math teacher education academic programs at Cal Poly and in the California State University system (Learn By Doing Lab, STEM Teach Fellows, promotional materials and student outreach campaign)
- Facilitated collaboration and community building among university faculty from across campus for program development and implementation; developed community relationships for P-16 collaborations
- Represented Cal Poly STEM programs to external organizations, e.g., the APLU (Association of Public Land-Grant Universities) Science and Mathematics Teacher Imperative (SMTI)

***Co-Principal Investigator, California STEM Innovation Network Planning Initiative***

Cal Poly with California Council on Science and Technology (CCST)

Jan 2009 – Jun 2009

*Co-PI of a grant awarded to Cal Poly and CCST from the Bill and Melinda Gates Foundation and the Stephen Bechtel Fund to plan a major STEM reform and network initiative for the state of California*

- Made significant contributions to project vision, goals, objectives and plans; oversight of over \$500,000 project budget, 2 staff members, and consultant contracts and sub-grants; responsible for quarterly progress reports
- Created and executed a plan for statewide regional focus groups regarding gateways, barriers and leverage points in STEM education, including research and documentation; synthesized results with project team members to create a blueprint for statewide STEM education reform that would include an advocacy strategy and plan for a statewide STEM education network; supervised consultants to achieve project objectives
- Represented project to various statewide stakeholder groups and constituencies

***Co-Leader, Facilitating Interdisciplinary Learning***

Project Kaleidoscope, Washington, D.C.

Jan 2008 – present

*Co-lead current national project funded by the Keck Foundation focused on improving undergraduate interdisciplinary STEM education programs (<http://www.pkal.org/activities/PVIIDST.cfm>)*

- Member of three-person project executive leadership team
- Facilitate success of 30 participating campus teams toward meeting project objectives
- Plan, host and lead meetings, webinars and other activities
- Develop program resources and materials, including electronic resources
- Evaluate progress and success; co-author final reports and publications
- Member of PKAL F21 since 2001

***Principal Investigator, Elementary School Science Teacher Preparation Study***

CEsAME with California Council on Science and Technology (CCST)

Sept 2008 – Jun 2009

*Provide intellectual guidance to CCST staff and researchers regarding execution of S.D. Bechtel, Jr. Foundation-funded investigation into the preparation of elementary school teachers to teach science in California; co-author final reports and publications*

***Chair, Western Association of Schools and Colleges (WASC) Reaccreditation Committee***

Cal Poly, San Luis Obispo

Mar 2007 – Dec 2007

- Facilitated campus-wide engagement to create an institutional self-study proposal
- Co-authored successful institutional self-study proposal (<http://www.wasc.calpoly.edu>)
- Current member of campus WASC Reaccreditation Steering Committee

***American Council on Education (ACE) Fellow***

The Colorado College, Colorado Springs, CO

Aug 2006 – May 2007

- Studied the scope, structure and function of Colorado College's interdisciplinary programs; conducted focus group interviews regarding interdisciplinary programs at other institutions
- Consulted on Colorado College's North Central Association of Schools and Colleges re-accreditation report, focused on analysis of assessment and accountability measures, including the National Survey of Student Engagement (NSSE) and the Collegiate Learning Assessment (CLA)
- Facilitated internal data gathering and external review of the Crown faculty development center
- Involved in President's cabinet-level evaluation of Colorado College's strategic plan

***Special Assistant to the Provost***

Cal Poly, San Luis Obispo

Jun 2005 – Jun 2006

- Led working groups of faculty and staff to create university-wide objectives and revised mission statement; helped to develop plan for soliciting greater campus input and Academic Senate approval
- Developed and executed plan for program review of Academic Programs Office, including setting milestones and timeline; helped craft Academic Programs Office mission statement and campus constituent focus group methodology for review; wrote report

***Associate Chair***

Biological Sciences Department, Cal Poly, San Luis Obispo

2003 – 2005

- Served as Director of Curriculum and Scheduling Committee
- Created and managed the department class, faculty and laboratory facility schedules (~40 different courses per quarter with most consisting of lecture and laboratory components, an average of 10,000 student credit units taught each quarter by 30 tenured/tenure-track faculty and 20 part-time faculty); developed data-driven methods for scheduling of core major courses; effectively managed part-time faculty budget (~\$180,000 per year)
- Led major effort to revise introductory course series for majors; coordinated implementation efforts for new courses; secured student fee funds for new course development; negotiated major book adoption contract for new introductory course series
- Co-coordinated initial phases of department program review
- Coordinated departmental advising events for incoming students and freshmen; responsible for advising students with special issues

***Faculty Associate***

Center for Teaching and Learning (CTL), Cal Poly, San Luis Obispo

Dec 2003 – Jun 2006

- Co-taught 10-week *Effective Teaching and Learning* course
- Facilitated 2-3 workshops per year on various topics related to teaching and learning
- Reviewed CTL faculty development grant proposals and mentored recipients of CTL faculty development grants

***Assistant Director***

Center for Teaching and Learning (CTL), Cal Poly, San Luis Obispo Jan 2002 – Dec 2003

*Coordinate faculty development workshop program, including new faculty orientation, Effective Teaching and Learning course and weekly workshops*

- Conceived and launched faculty development program with weekly *Teaching Well* workshops and a quarter-long *Effective Teaching and Learning* course using peer instructors and *Understanding by Design* (Wiggins and McTighe, 1998)
- Co-taught *Effective Teaching and Learning* course 2 quarters/year, *New Teacher Workshop*; facilitated 4 workshops per/year on various topics related to teaching and learning
- Developed teaching resource notebook for new faculty, edited and wrote articles for quarterly newsletter, organized and edited web content for Cal Poly's Faculty web pages; managed CTL web content

***Facilitation of Workshops, Conferences and Invited Presentations in STEM Education***

PKAL Summer Leadership Institute, Crestone, CO, 2010, 2011

American Society of Human Genetics Faculty Development Workshop, 2010, 2011

California State University Engaged Department Institute on Community-based Learning in STEM (June 2011)

PKAL Mobilizing Disciplinary Societies for Sustainability, May 2011

AAC&U Institute on General Education and Assessment (Faculty), 2010, 2011

PKAL-AAC&U Engaged STEM Learning Conference, 2010

AAC&U Institute on Engaging Departments (Faculty), 2010

Prairie PKAL Leadership Workshop, June 2010

PKAL Facilitating Interdisciplinary Learning Roundtable on the Future of IDL, Kent Island, MD, April 2011

PKAL Facilitating Interdisciplinary Learning Leadership Roundtable, Baltimore, MD, April 2010

PKAL Facilitating Interdisciplinary Learning Institute, Chestertown, MD, July 2009

PKAL Facilitating Interdisciplinary Learning Assessment Roundtable, Baltimore, MD, April 2009

PKAL Facilitating Interdisciplinary Learning Orientation Meeting, Lafayette Hill, PA, August 2008

Literature-based Learning in Genetics, University of Colorado and Michigan State University (April 2008)

***Consulting in STEM Education***

CSU, Long Beach - Engaged STEM Learning for the 21<sup>st</sup> Century (June 2011)

The Ohio State University - Interdisciplinary Learning; Inquiry-based Laboratory Design (February 2011)

University of La Verne - Engaged STEM Learning for the 21<sup>st</sup> Century (February 2011)

Fashion Institute of Technology - The Science Behind the Design (March 2011)

Mount Royal University - Undergraduate Research and High Impact Practices in STEM (November 2010)

Lafayette College - Defining General Education Science Learning Outcomes (October 2010)

Carson Newman College - STEM Strategic Plan Review (September 2010)

Rochester Institute of Technology - The Roots of STEM Education (April 2010)

James Madison University - Translating National Reports on STEM Education into Action (March 2010)

Miami Dade College - Campus Priorities for STEM Education (2010)

Zayed University, Dubai, United Arab Emirates - Science General Education Program (September 2010)

***Keynote Addresses and Panel Presentations***

American Psychology Association Education Leadership Conference Panel on Interdisciplinary Programs (October 2011)

University of Wisconsin, Whitewater Keynote (August 2011)

International Conference on SOTL Keynote, Banff, Canada (November 2010)

University of Wisconsin Teaching and Learning Conference Keynote (April 2010)

California Space Authority STEM CAP Meeting, Panelist, Manhattan Beach, CA (September 2009)  
STEM Education: Current and Future, Keynote, CA High School Science Summit (March 2009)  
Microbial Biotechnology and Vampire Fungi, University of the Pacific, Stockton, CA (March 2006)  
T-RFLP Analysis of Fungal Communities in the Environment, Davidson College (September 2005)  
Functional and Taxonomic Diversity Assessment of Fungi in Soil using T-RFLP Analysis, UC, Davis and CSU, Chico (March 2003)  
Heme Pathway Engineering in Filamentous Fungi, CSU, Chico (October 1998)

### **Advisory Board Memberships**

AAC&U Shared Futures/Global Learning in General Education Project  
AAC&U Preparing Critical Faculty for the Future Project  
Howard Hughes Medical Institute NEXUS Project  
PKAL Learning Spaces Collaboratory

## **SCHOLARLY ACHIEVEMENTS**

### **Textbooks**

Contract for *Understanding Genetics: An Inquiry Approach* (projected publication date: Sept 2010), New York, NY: W.H. Freeman Publishers  
Test Bank for Pierce's *Genetics: A Conceptual Approach* textbook (2005), New York, NY: W.H. Freeman Publishers  
Elrod, S.L. and William Stansfield (2002) *Schaum's Outline of Theory and Problems of Genetics*. 4<sup>th</sup> edition. New York: McGraw-Hill (5<sup>th</sup> edition revision submitted, expected publication in September 2009)

### **Educational Publications**

Elrod, S.L., D. Husic and J. Kinzie (2010) *Research and Discovery Across the Curriculum*, Peer Review 12 (2): 5.  
Elrod, S.L. (2010) *Project Kaleidoscope 2.0: Leadership for Twenty-First-Century STEM Education*, Liberal Education 96 (4): 24.  
Polacek, K.M., E. Ingram and S.L. Elrod (in preparation) *Genetics Misconceptions: Review and Implications for Undergraduate Learning*  
Garvin-Doxas, K., M. Klymkowsky and S.L. Elrod (2007) *Building, Using and Maximizing the Impact of Concept Inventories in the Biological Sciences: Report on a National Science Foundation-sponsored Conference on the Construction of Concept Inventories in the Biological Sciences*, Life Science Education 6: 277-282.  
Elrod, S.L. and M.M. Somerville, (2007) *Literature-Based Scientific Learning: A Collaborative Model*, Journal of Academic Librarianship. 33(6): 684-691.

### **Education Research Conference Presentations (student co-authors are underlined)**

Elrod, S.L. *The STAR Program*, PRIME Partnership Conference, Monterey, CA Feb 2009  
Elrod, S.L. & M. Kerchner, *Leadership in Shaping Undergraduate Interdisciplinary STEM Learning Environments*, Association of American Colleges and Universities (AAC&U), Annual Meeting, Seattle, WA Jan 2009  
Elrod, S.L., B.P. Bartel, J. Walz, & K.M. Polacek *The Genetics Concept Inventory (GenCI): Identifying and Addressing Student Misconceptions*. American Society for Cell Biology Annual Meeting, San Francisco, CA (poster presentation) Dec 2008  
Polacek, K.M., J. Walz, B.P. Bartel, & S.L. Elrod *The Gene: What is it?* American Society for Cell Biology Annual Meeting, San Francisco, CA (poster presentation) Dec 2008  
California Science Teacher's Association Annual Meeting, *STAR Program Panel*, San Jose, CA Oct 2008

- Polacek, K.M., J. Walz, B.P. Bartel, & S.L. Elrod *The Chromosome: What is it?* American Society of Human Genetics Annual Meeting, Philadelphia, PA (poster presentation) Oct 2008
- Elrod, S. L. *Genetics Concept Inventory*, Conceptual Assessment Group II meeting, Asilomar, CA (working paper) Jan 2008
- Elrod, S. L. *Genetics Concept Inventory*, Conceptual Assessment Group I meeting, Boulder, CO (working paper) Mar 2007
- Elrod, S. L. *Science Learning Communities: A Learner-Centered Genetics Class*, Lily Conference on College and University Teaching – West, Pomona, CA (poster presentation) Mar 2004
- Elrod, S.L. *Increased Student Learning through Challenging Exam Questions (ChEQ)*, American Society for Microbiology Undergraduate Education Meeting, Pomona, CA (poster presentation) May 2000

#### **Scientific Research Publications** (*student co-authors are underlined*)

- Lord, N., C. Kaplan, P. Shank, C. Kitts and S.L. Elrod. (2002) *Assessment of fungal diversity using terminal restriction fragment (TRF) analysis: Comparison of 18S and ITS ribosomal regions*. FEMS Microbiology Ecology **24**(3): 327-337
- Elrod, S.L., A. Jones, R. Berka, J.R. Cherry. (2000) *Cloning of the Aspergillus oryzae hemA gene and its use as a selectable marker*. Current Genetics **38**: 291-8
- Hatcher, S.L.S., R.L. Teplitz, S.L. Elrod. (1990) *Rapid Alkaline Transfer of Low Molecular Weight DNA From Nusieve Gtg Agarose Gels*. Biotechniques **9**(3):260-262
- Scudder, S.A., S.L. Elrod, P.H. Gumerlock, E.S. Kawasaki. (1990) *Detection of the Multidrug Resistance (MDR) Gene Using the Polymerase Chain Reaction (PCR): Correlation with in vitro Drug-Testing*. Clinical Research. **38**(1): A133.

#### **National Scientific Conference Poster Presentations** (*student co-authors are underlined*)

- Chamberlain, A.G., C.L. Kitts, S.L. Elrod, *Fungal community dynamics in a petroleum-degrading land treatment unit*, American Society for Microbiology (ASM), New Orleans, LA May 2004
- Spiker, D., C.L. Kitts, P. Unkefer, S.L. Elrod. *Functional Terminal Restriction Fragment (TRF) Analysis of Carbon Degradation Activity in Soil*, ASM, Salt Lake City, UT May 2002
- Lord, N.S., T. Stine, C. Kaplan, C. Kitts, S.L. Elrod. *Fungal Terminal Restriction Fragment (TRF) Analysis of Petroleum-contaminated Soils*, ASM, Salt Lake City, UT May 2002
- Shank, P., L. Martinez, C. Reimers, K. Palmer, C. Kaplan, C. Kitts and S.L. Elrod. *Fungal Community Analysis of a Petroleum-Degradation Land Treatment Unit using Terminal Restriction Fragment Patterns (TRFP)*, ASM, Los Angeles, CA May 2000
- DeSantis, T., and S. L. Elrod. *Construction of a Plasmid For Expression of Glycosylated Bovine Beta-Casein in the Fungus, Aspergillus oryzae*, Fungal Genetics Conference, Asilomar, CA Mar 1999

#### **Patents**

- Elrod, S.L., *Polypeptides having uroporphyrinogen decarboxylase activity and nucleic acids encoding same*. U.S. Patent 6,200,795, March 13, 2001.
- Elrod, S.L., J. Cherry and A. Jones. *A Method for Increasing Hemoprotein Production in Filamentous Fungi*. U.S. Patents 6,261,827, August 8, 2000; 6,100,057, July 17, 2001.
- Jensen, E. B., S.L. Elrod, J. Cherry. *Methods for Overproducing Polypeptides in Respiratory-Deficient Cells*. U.S. Patent 5,891,669, April 6, 1999.
- Elrod, S.L. and J. Cherry. *Aspergillus oryzae 5- Aminolevulinic Acid Synthases and Nucleic Acids Encoding Same*. U.S. Patents 5,871,991, February 16, 1999; 5,958,747, September 29, 1999.

#### **Participation in Professional Activities in Higher Education Leadership and STEM Education**

- National Quantitative Literacy Conference, Carleton College, October 2010
- AASHE Sustainability Education Conference, San Diego, CA, February 2010
- AAAS/NSF Transforming Undergraduate Education in Biology Meeting, Washington, DC, July 2009

PKAL Summer Leadership Institute, Crestone, CO, July 2009  
 American Council on Education (ACE), Council of Fellows Meetings, Washington, DC, June '06, '07, '09  
 Association of American Colleges and Universities (AAC&U), Annual Meetings, January '07, '09  
 High School Science Summit (BSCS and WestEd), Ontario, CA, March 2009  
 National Academies of Science and Engineering STEM Planning Meeting, Sacramento, CA, February 2009  
 CCST STEM Workforce Preparation Meeting, Sacramento, CA, January 2009  
 Bill and Melinda Gates Grantee Meeting, Baltimore, MD, January 2009  
 Making Science Make Sense Conference, San Francisco, CA, December 2008  
 California STEM Roundtable, Los Angeles, CA, December 2008  
 American Council on Education (ACE) Annual Meeting, Washington, DC, February '07, '10  
 Western Association of Colleges and Universities (WASC) Conference, San Jose, CA, April 2007

### **Professional Development Activities in Teaching, Learning and Leadership**

Sabbatical Leave, "Development of Literature-Based Case Studies in Genetics"	Winter 2006
Management Development Program (MDP), Harvard University	July 2004
CSU Teacher Scholar Summer Institutes	Jun 2001, '02, '03
POD (Professional and Organizational Development) Conference	Oct 2002
American Society for Microbiology Undergraduate Education Conferences	May 2002, 2001
CSU Biology Graduate Teaching Associate Training Workshop (Facilitator)	Jun 2001
GE Embedded Assessment Conference	Mar 2001
Maintaining Instructor Effectiveness & Dimensions of Learning (Cal Poly)	Fall '98, Winter '01
WINGED (Writing IN Generally Every Discipline) Workshop (Cal Poly)	Winter 2001
Teaching Undergraduate Bioinformatics Courses Workshop	Aug 2001
CSU General Education Biology Workshop	Jun 2000
Undergraduate Microbiology Education, Gordon Research Conference	Jun 1999
CSU Symposium on University Teaching	Feb 1998

### **GRANTS AND CONTRACTS**

<b>Science Education Grants and Contracts</b>	<b>~\$4,000,000</b>
Elrod, S.L. (June 2011 - September 2012) <i>Ramping Up for STEM Success</i> , Bill and Melinda Gates Foundation	
Elrod, S.L. (January 2010 - December 2013) <i>Mobilizing Disciplinary Societies - Education for a Sustainability Future</i> , Department of Education, Fund for the Improvement of Postsecondary Education (FIPSE)	
Elrod, S.L. (January 2008 - December 2011) <i>Facilitating Interdisciplinary Learning</i> , W.M. Keck Foundation	
Cunningham, B., J. Young, and S.L. Elrod (January 2008 - August 2011) <i>STEM Leaders Developing Leaders</i> , National Science Foundation, #0734998	
Elrod, S.L. (September 2009 – December 2010) <i>A National Pilot for the STAR (Science Teacher and Researcher) Program</i> , National Science Foundation Noyce Program, # 0952013	
Elrod, S.L., S. Hackwood, A.P. Diaz, D. Howard-Greene, and S. Ogren (January – December 2009) <i>California STEM Innovation Network Planning Grant</i> , Bill and Melinda Gates Foundation and Stephen Bechtel Fund	
Elrod, S.L. (Mar 2009 – Mar 2010) <i>Science Teacher and Researcher (STAR) Program</i> , Stephen Bechtel Fund	
Elrod, S.L., and J. Bissell (February 2008 - February 2009) <i>Science Teacher and Researcher (STAR) Program</i> , Stephen Bechtel Fund and Fluor Corporation Foundation	
Elrod, S.L. (January 2007 – December 2009) <i>Literature-Based Scientific Learning in Genetics</i> , National Science Foundation, # 0633351; <i>Conceptual Assessment in Biology Meeting II Supplement</i>	
Elrod, S.L., B. Schader, and M.M. Somerville, (Spring 2006) <i>A Constructivist Model for Literature-Based Scientific Information Competence</i> , CSU Chancellor's Office Grant	

<b>Scientific Research Grants and Contracts</b>	<b>~\$450,000</b>
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Kitts, C., R. Cano, and S.L. Elrod (2001 - 2004) *Development of microbial tools for analysis of bioremediation at the Guadalupe Dunes*, UNOCAL Corp

Elrod, S.L. (2000 - 2002) *Analysis of Fungal Molecular Diversity during Phytoremediation in a Petroleum-Contaminated Dune System*, CSUPERB (California State University Programs for Education and Research in Biotechnology)

Elrod, S.L. (1997, 1998, 1999, & 2000) *Expression of bovine beta-casein in Aspergillus oryzae*. University Summer Services Grants and Faculty Development Grants (Cal Poly)

National Institutes of Health Molecular and Cellular Biology pre-doctoral training grant (1991 - 1992)

University of California, Davis Graduate Research Awards (1990 - 93)

## SELECTED UNIVERSITY SERVICE AND GOVERNANCE ACCOMPLISHMENTS

### California State University System

**Representative**, CSU Lower Division Transfer Pattern Meetings Spring 2005

**Co-organizer**, CSU Biology Curriculum Initiative Workshop Apr 2004

### University

**Chair**, Academic Senate Curriculum Committee 2004 – 2006

**Chair**, Status of Women Committee 2005 – 2006

**Member**, Committee for the Selection of a Provost and Vice President of Academic Affairs 2004 – 2006

**Vice Chair**, Academic Senate 2003 - 2004

**Member**, Science and Technology General Education committee 2001 – 2003

### College of Science and Mathematics

**Member**, Transition Team for College of Education and Liberal Studies Program merger with the College of Science and Mathematics Jan '09 – Dec '09

**Member**, Assessment Committee 2001- 2006

**Organizer**, Biotech Industry Career Day May 1999 – 2006

### Biological Sciences Department

**Director**, Curriculum and Scheduling Committee 2003 – 2005

**Member**, Hiring Committees; Tenure and Promotion Review committees 1999 - 2009

### ADVISORY BOARDS AND COUNCILS

**Member**, College of Natural Sciences Advisory Board, CSU Chico Mar 2005 – present

- Chair, Nov 2006 – Mar 2009

**Member**, Biotechnology Industry Advisory Council, Cal Poly 2002 - 2006

**Member**, California State University Programs for Education and Research in Biotechnology (CSUPERB), Faculty Consensus Group 1999 – 2006

### SELECTED HONORS AND AWARDS

Apple Polyscher Teaching Award, Poly Repts, Cal Poly – San Luis Obispo 1998

Associated Students President, CSU Chico 1985-1986

Associated Students Board of Directors Member, CSU Chico 1984-1985

National Woman's Political Caucus Outstanding Woman Student Leader, Chico, CA 1985, 1986

Honors Research Program, CSU Chico 1984-85

*Omicron Theta Epsilon* Biological Honor Society Scholarship, CSU Chico 1984