

## ABBREVIATED VITA

(This vita contains selected items from years 1983-2010 for Cheryl L. Mason)

### Personal Data

College of Education	11840 Caminito Ronaldo #131
Center for Research in Mathematics and Science Education	San Diego, CA 92128-2065
San Diego State University	858.487.5334
San Diego, CA 92182-1153	Internet: <a href="mailto:cmason@mail.sdsu.edu">cmason@mail.sdsu.edu</a>
619.594.1378	FAX: 619.594.7828

### Academics

<b>Institutions Attended</b>	<b>Years</b>	<b>Degree</b>	<b>Major Areas of Study</b>
Indiana University	1966-1971	B.A.	Biological Sciences
Indiana University	1973-1975	M.A.	Biological Sciences
Purdue University	1983-1986	Ph.D.	Science Education, and Educational Computing and Programming

### Teaching Experiences

<b>Institution</b>	<b>Dates</b>	<b>Position/Courses</b>
San Diego State University	1996-present	<b>Professor/</b> Science Concept Development and Integration; Science Teaching & Learning; Science Seminar; Graduate Seminar in Science Education
	1991-1996	<b>Associate Professor/</b> Science Concept Development and Integration; Science Teaching & Learning; Science Seminar; Supervised Student Teaching
	1987- 1991	<b>Assistant Professor/</b> Science Methods; Teaching & Learning Biology; Technology in Science Ed; Biology for Elementary Teachers; Supervised Student Teaching; Social Foundations; The Secondary School; Student Teaching Seminar

University of Alabama	2009-2012	<b>Adjunct Graduate Faculty/</b>
University of North Carolina	1987 (summer)	<b>Instructor/</b> Recombinant DNA
Purdue University	1986-1987	<b>Visiting Assistant Professor/</b> Supervised Teaching; Science Methods; Directed Experience in Schools; Advisor for Undergraduate and Graduate Biology Students
	1983-1986	<b>Graduate Instructor/</b> Science Methods; Supervised Teaching
	1980-1983	<b>Adjunct Biology Instructor/</b> Introductory Biology
School Town of Highland	1971-1983	<b>Middle/High School Science Teacher/</b> General Science; Basic, General and Advanced Biology; Science Honors Research Seminar

#### **Other Professional Experiences**

San Diego State University	2003-present	<b>Director</b> SDSU-USD Doctoral Program in Education
	2003-2008	<b>Associate Director</b> School of Teacher Education
National Science Foundation	2001-2003	<b>Intergovernmental Personnel Act Assignment (Program Director)</b> Proposal evaluation and budget development, project oversight, and scientific program planning within the context of elementary, secondary and informal education

### Awards and Honors

College of Education Dean's Award Nomination, San Diego State University, 2008

Perham Indiana Women of Distinction Award, Ball State University, 2003

Implications of Research in Educational Practice Award (along with Alan J. McCormack), Association for the Education of Teachers in Science, 2001

Outstanding Science Educator of the Year Award, Association for the Education of Teachers in Science, 1993

Distinguished Program in Teacher Education Award, Finalist, Association of Teacher Educators, 1993

Who's Who in Science Education Around the World, International Council of Associations for Science Education, 1991

Who's Who in American Education, 1987-1988

David Ross Fellowship, Purdue University, 1985

Indiana Teacher of the Year Award, Finalist, 1984

First Presidential Award for Excellence in Science and Mathematics Teaching, State and National Winner, 1983

First National Space Educator Award, Smithsonian Institute's National Space Club, 1983

Outstanding Biology Teacher in Indiana, National Association of Biology Teachers, 1983

Search for Excellence in Science Education Program, Second Place, National Association of Science Teachers, 1983

P. Vincent Flannery Outstanding Teacher's Award, Calumet Regional Science Fair, 1981, 1982, 1983

### Refereed Articles

Sunal, C.S., Sunal D., Sundberg, C., Mason., C.L., Zollman, D., Lardy, C., and Matloob-Haghanikar, M. (2009). How are we reforming teaching in undergraduate science courses? *Journal of College Science Teaching*, 39(2), 12-14.

- Gilbert, S.W. & Mason, C.L. (2005). Survey of changes in science teacher preparation programs responding to performance-based science standards. *Electronic Journal of Science Education*. <http://unr.edu/homepage/jcannon/ejse/ejse.html>.
- Gilbert, S.W. & Mason, C.L. (2004). Implementing a performance-based assessment system.. *Journal of College Science Teaching*, 33(5), 5-9.
- Mason, C.L. (2003). Biology at its best: Third in sequence. In BSCS Staff (Eds.), *Biology and the physics first curriculum: A symposium celebrating BSCS's 45<sup>th</sup> anniversary* (pp. 53-55). Colorado Springs, CO: Biological Science Curriculum Study.
- DiPasquale, D.M., Mason, C.L., & Kolkhorst, F.W. (2003). Exercise in Inquiry: Critical thinking in an inquiry-based exercise physiology laboratory course. *Journal of College Science Teaching*, 32(6), 388-393.
- Kolkhorst, F.W., Mason, C.L., DiPasquale, D.M., Patterson, P., & Buono, M.J. (2001). An inquiry-based learning model for an exercise physiology laboratory course. *Advances in Physiology Education*, 25, 45-50.
- Dawson, K.M., Mason, C.L., & Molebash, P. (2000). Results of a telecollaborative activity involving geographically disparate preservice teachers. *Educational Technology & Society*, 3(3), 470-483.
- Barba, R. H., & Mason, C.L. (1994). The emergence of the "nerd": An assessment of children's attitudes toward computer technologies. *Journal of Research on Computing in Education*, 26(3), 382-390.
- Mason, C.L. (1993). Providing females from diverse populations a context for science learning. *The Earth Scientist*, 10(1), 14-16.
- Barba, R., & Mason, C.L. (1992). Construct validity studies for the draw-a-computer user test. *Computers in Human Behavior*, 8, 231-237.
- Mason, C.L., & Barba, R.H. (1992). Equal opportunity science. *The Science Teacher*, 59, 22-26.
- Mason, C.L. (1992). Concept mapping: A tool to develop reflective science instruction. *Science Education*, 76, 51-63.
- Leonard, W.H., Fowler, C., Mason, C.L., Ridenour, N., and Stone, C. (1991) A minimum core curriculum for introductory high school biology. *The American Biology Teacher*, 53, 400-403.
- Mason, C. L., & Mathison, C.S. (1991a) Movement toward interdisciplinary curriculum: Teacher educators respond. *Teaching Education*, 3(2), 183-189.

- Mason, C.L. & Mathison, C.S. (1991b). Make learning more meaningful with an integrated approach to literature. *California English*, 27(5), 10-11.
- Mason, C. L., Gardner, A. L., and Kahle, J. B. (1991). Draw-a-scientist test: Implications for the future. *School Science and Mathematics*, 91(5), 193-198.
- Shore, A., Mason, C.L., Pederson, G. and Armstrong, B. (1990). Enhancing the technology skills of mathematics and science teacher educators. *Tech Trends*, 35(2), 14-17.
- Mason, C.L. (1989). Field-based collaboration and cooperation: Vehicles for effective preparation of preservice science teachers. *Journal of Science Teacher Education*, 1(2), 38-40.
- Matyas, M. L., Mason, C. L., and Gardner, A. L. (1989). Equity, excellence, and "just plain good teaching." *The American Biology Teacher*, 51, 72-78.
- Mason, C. L. and Kahle, J. B. (1989). Student attitudes toward science and science-related careers: A program designed to promote a stimulating gender-free learning environment. *Journal of Research in Science Teaching*, 26, 25-39.
- Mason, C. L. (1987). Expanded abstract and analysis of 'Biology education in Israel as viewed by the teachers'. Dreyfus, A., E. Jungwirth, and P. Tamir, *Science Education*, 69(1), 83-93. In Patricia E. Blosser (Ed.), *Investigations in Science Education*, 13(1), 58-64.

### **Refereed Books and Chapters in Scholarly Publications**

- Mason, C.L. & Gilbert, S.W. (2004). A science education research organization perspective on reform in teaching undergraduate science. In D.W. Sunal, E.L. Wright & J. Bland (Eds.), *Research in science education: Reform in undergraduate science teaching for the 21<sup>st</sup> century* (pp. 301-316). Greenwich, CT: Information Age Publishing.
- Mason, C.L. (1999). The TRIAD approach: A consensus for science teaching and learning. In J. Gess-Newsome & N.J. Lederman (Eds.), *Pedagogical content knowledge: Its role and usefulness in science teacher education* (pp. 277-299). Amsterdam, The Netherlands: Kluwer Academic Publishing.
- Mason, C.L. (1995). Gender equity is still an issue: Refocusing the research agenda. in D. R. Baker & K. Scantlebury (Eds.), *Science "coeducation": Viewpoints from gender, race and ethnic perspectives* (pp. 7-21). Manhattan, KS: National Association for Research in Science Teaching.
- Mason, C.L., & Barba, R.H. (1994). Equal opportunity science. In National Science Teachers Association (Ed.), *Science for all cultures: A collection of articles from*

*NSTA's journals*. (pp. 6-10). Arlington, VA: National Science Teachers Association. (Reprinted from *The Science Teacher*, 59, 22-26.)

Mathison, C. & Mason, C.L. (1990). Is an integrated curriculum a reality? In D. Lapp (Ed.) *Making reading possible through effective classroom management* (2nd edition). Newark, DL: International Reading Association.

### Nonrefereed Scholarly Publications

- Sunal, C., Sunal, D., Mason, C., Zollman, D., Sundberg, C., & Lardy, C. (2008a) Background research paper No. 2: What do we know about undergraduate science course reform? Synthesizing themes. Retrieved February 1, 2008, from <http://nesus.org>.
- Sunal, C., Sunal, D., Zollman, D., Mason, C., Sundberg, C., & Lardy, C. (March, 2008b). *Undergraduate Reform in Science Courses: Synthesizing Themes from the Research Literature*, Paper presented at the Annual meeting of the American Educational Research Association (AERA), New York, NY.
- Sunal, D., Sunal, C., Sundberg, C., Mason, C., & Lardy, C (2008c). Research brief No. 2: What criteria can be used to identify the level of implementation of reform in an undergraduate science course? Retrieved February 1, 2008, from <http://nesus.org>.
- Sunal, D., Sunal, C., Sundberg, C., Mason, C., Lardy, C, & Matloob-Haghanikar, M. (2008d) Research brief No. 3: What characteristics are found in reformed and non-reformed undergraduate science courses? Retrieved February 1, 2008, from <http://nesus.org>.
- Sunal, D. & Sunal, C. Ogletree, G., Steele, E., Mason, C., & Zollman, D. (2008e) Research brief No. 4: What characteristics are found among institutions still offering and no longer offering reformed Undergraduate science courses? Retrieved February 1, 2008, from <http://nesus.org>.
- Sunal, D., Sunal, C., Mason, C., & Zollman, D. (2008f) Research brief No. 5: What are the characteristics of a faculty collaborative team at institutions involved in undergraduate science course reform? Retrieved February 1, 2008, from <http://nesus.org>.
- Mason, C.L., Hays, L., Kick, B., & Hutchins, J. (1998). Behavior and the nervous system. In W.H. Leonard and J.E. Penick (Eds.), *Biology: A community context.*, (364-423). Cincinnati: South-Western Educational.
- Mason, C.L. (1997). Silent warnings: The DDT controversy. In M. L. Matyas (Ed.), *Contributions of women scientists: Developing user friendly activities with an historical perspective*.
- Mason, C.L. (1993). *Preparing and directing a teacher institute* (Stock Number PB106X). Washington, DC: National Science Teachers Association.
- Feldman, A., Mason, C.L., & Goldberg, F. (Eds.) (1993). *Action research: Reports from the field 1992-93*. San Diego: San Diego State University.
- Feldman, A., Mason, C.L., & Goldberg, F. (Eds.) (1992). *Action research: Reports from the field 1991-92*. San Diego: San Diego State University.

Mathison, C.L. & Mason, C.L. (1989, September). Planning interdisciplinary curriculum: A systematic and cooperative approach. *Newsletter of ASCD Educational Futurists*.

Mason, C. L. (October, 1987). Sharing the wealth. *APAST Quarterly*, I(1).

### **Research and Training Grants**

Sunal, D.W., Mason, C.L. Sunal, C.S., Zollman, D. (2006-2011). Undergraduate science course reform serving pre-service teachers: Evaluation of a faculty professional development model. National Science Foundation. \$2 148 565.

Mason, C.L. (2005-2007). *Science Teacher Interns*. Sweetwater Unified School District. \$40 000.

Mason, C.L. (2004-2005). *Science Teacher Interns*. Sweetwater Unified School District. \$20 000.

Fisher, K.M, Mason, C.L., and Bezuk, N. (2004-2008). *Springboard to Success. Robert C. Noyce Scholarship Award*. National Science Foundation. \$494 006.

Mason, C.L., Oechel, W.C., Taylor, N., & Ross, D.L. (2000-2001). SDSU Office of International Programs. \$8900

Oechel, W. C., Mason, C.L. & Taylor, N. (1999-2001). *GK-12: K-6 Science Corps Fellows for the San Diego PISCES Project*. National Science Foundation. \$1 499 613. Visit the PISCES website at <http://www.sdsa.org/pisces>.

Mason, C.L. & Kick, B. (1997-98). Implementing technologies into Secondary Science Teaching and Learning (science methods). College of Education Dean's Grant. \$1750.

McCormack, A.J., Mason, C.L., & Mathewson, J.H. (1993-1999). *Project VISTA (Visual/Spatial Thinking Activities)*. National Science Foundation. \$1 053 232.

Lewis, R.E., Saigo, B., Schrader, C.L., DeWall, M.M., & Mason, C.L. (1991-1995). *Inservice institutes for junior/middle school science teachers with presidential awardees as instructional mentors*. National Science Foundation. \$1 205 676.

Mason, C.L. (1992). *A pilot study to assess visual/spatial thinking in multicultural science education classrooms*. College of Education Dean's Grant. \$1300.

Mason, C.L. & Barba, R.H. (1990). *Assessing the environment of bilingual/bicultural science education classrooms*. College of Education Dean's Grant. \$1508.

- Mathison, C., & Mason, C.L. (1990). *The Development of Intensive Cross-Cultural Tutoring Experiences within a Teacher Preparation Program*. College of Education Dean's Grant. \$4281.
- Mason, C.L. (1989). *Science teaching and learning: Using concept mapping to develop reflective practitioners*. College of Education Dean's Grant. \$1032.
- Sowder, J.T., Marshall, S.P., and Mason, C.L. (1989-1991). *Middle school mathematics and science: A multifaceted solution to teacher preparation (MS<sup>3</sup>)*. National Science Foundation. \$175 830.
- Mason, C.L. (1989). *Rethinking science education: Content-specific teaching and learning*. Grants-In-Aid for Research, San Diego State University. \$1200.
- Mason, C. L. (1988). Affirmative Action Faculty Development Program, San Diego State University. \$1462.
- Mason, C. L. (1987). *Understanding the nature of science learning: A collaborative effort designed to instruct preservice science teachers*. College of Education Dean's Grant. \$1100.
- Mathison, C. and Mason, C. L. (1987). *The SDSU/Crawford professional training and study center: Documenting the process of developing an innovative field-based secondary teacher training program*. College of Education Dean's Grant. \$1030.
- Anderson, D., Mason, C. L., and Harvin, V. (1987). *Math = science = more career choices*. Indiana Department of Education's Title IX Project. \$25 000.

### **Memberships in Professional Societies**

Phi Delta Kappa  
 National Association for Research in Science Teaching  
 Association for Science Teacher Education  
 Association for Supervision and Curriculum Development  
 National Middle Level Science Teachers Association (Charter & Life Member)  
 National Science Teachers Association (Life Member)  
 National Association of Biology Teachers (Life Member)  
 Association of Presidential Awardees in Science Teaching (Charter & Life Member)  
 California Science Teachers Association (Life Member)  
 San Diego Science Educators Association  
 Southern California Association of Science Specialists

### **Professional Involvement**

#### **Reviews**

C.L. Mason  
 October 2009

Distinguished Editorial Review Board Member, National Institutes of Health; 2009

Editorial Review Board Member, *International Journal of Environmental & Science Education (IJESE)*; 2008-2010

Reviewer, *Anthropology and Education Quarterly*; 2007-present

Reviewer, National Science Foundation's Review Panels; 1997-present

Reviewer, NARST & NSTA joint publication, *PEERS Matters*; 2002-2004

Reviewer, *School Science and Mathematics*; 2002

Editorial Advisory Board, *Journal of Biological Education*; 1998-2008

Editorial Review Board Member, National Association for Research in Science Teaching *Journal for Research in Science Teaching*; 1995-1999

Reviewer, Cochran Communications, Dobbs Ferry, NY; 1999

Reviewer, *Living Environment Core Curriculum and Living Environment Assessment*, New York State; 1999

Reviewer, MEGAsystems Production in association with the International Olympic Committee, *Olympic Glory Teacher's Guide*; 1998-1999

Editorial Review Board Member, Association for the Education of Science Teachers *Science Education*; 1997-2000

Reviewer, National Science Foundation, EHR Programs for Women and Girls; 1997

Reviewer, United States Department of Commerce, National Oceanic and Atmospheric Administration National Sea Grant College Program; 1997

Reviewer, *Guidelines for the Science Preparation of Prospective Elementary Teachers*, State of Texas; 1997-1998

Reviewer, Kluwer Academic Publishing Co., Amsterdam, The Netherlands; 1995-present

Reviewer, American Educational Research Association *American Educational Research Journal*, 1995

Reviewer, Louisiana Systemic Initiatives Program, Baton Rouge, LA; 1995

Reviewer, Biological Sciences Curriculum Study; Colorado Springs, CO; 1995

Editorial Board Member, Association for the Education of Science Teachers *Journal for Science Teacher Education*; 1994-1997

Review Panelist, V-QUEST (Virginia Quality Education in Sciences and Technology) grants for new preservice and inservice model programs in mathematics and science; 1993-1998

Reviewer, Funds for the Improvement of Post-Secondary Education, Washington, DC; 1992

Review Panelist, National Association of Biology Teachers and the Society for Neuroscience; 1992

Reviewer, *Journal of Research in Science Teaching*, W. Lafayette, IN; 1992-1995

Reviewer, *Teaching Education*, Columbia, SC; 1991-1994

Reviewer, Macmillan Publishing Co., Columbus, OH; 1991-1999

Reviewer, Holt, Rinehart & Winston, Austin, TX; 1990-1999

Reviewer, Prentice-Hall Book Company, Columbus, OH; 1988-present

Reviewer, *The Science Teacher*; Arlington, VA; 1987-2000

Reviewer, *The American Biology Teacher*; Arlington, VA; 1986-2000

Reviewer, *Science Books & Films*; Washington, DC; 1987-2007

Reviewer, Merrill Publishing Company; Columbus, OH; 1987-2001

### **Professional Directorships**

Director, San Diego State University and University of San Diego Doctoral Program in Education; 2003-present

Associate Director, San Diego State University School of Teacher Education; 2003-2008

Past-president, National Association for Research in Science Teaching; 2003-2004

President, National Association for Research in Science Teaching; 2002-2003

President-elect, National Association for Research in Science Teaching; 2001-2002

Chair, NCATE Advisory Board for the National Science Teachers Association; 2002-2005

Associate Director, San Diego State University Center for Research in Mathematics and Science Education; 1992-1995; 1997-2000

Chair, Science Education: First Decade of the 21st Century Task Force; National Science Teachers Association; 1998-1999

Board Member, Association for Presidential Awardees in Science Teaching; 1997-1999

Interim Director, San Diego State University College of Education Doctoral Program; 1996-1997

Chair, National Science Teachers Association Awards and Recognition Committee; 1996-1997

Chair, Association for the Education of Teachers in Science Publications Committee; 1995-1996

Vice-chair, Association for the Education of Teachers in Science Publications Committee; 1994-1995

Board Member, Association for the Education of Teachers in Science; 1994-1997

Director, San Diego State University Ellen Harcourt Scholarship Program for Professional Support and Development; 1994-1995

Chair, writing team for *BioCom*, and Advisor, NSF-funded curriculum development project headquartered at Clemson University & University of Iowa; 1993-2001.

Executive Board Member, National Association for Research in Science Teaching; 1992-1995

Chair, National Association for Research in Science Teaching Distinguished Contributions Award Committee; 1992-1995

Convention Chair, National Science Teachers Association 50th Annual National Meeting, Anaheim; 1992-1994

Chair, Advisory Board for *NSTA Reports*; 1992-1993

Director, California Science Teachers Association Board of Directors; 1988-1990, 1992-1994

Executive Committee Member, National Science Teachers Association' Board of Directors; 1988-1990

Director, District XII of the National Science Teachers Association Board of Directors; 1988-1990

Chair, Program Committee for the National Association of Biology Teachers 1989 National Convention; 1988-1989

Director, Association of Presidential Awardees for Science Teaching Summer Institute for Middle School Teachers; 1988-1990

Director, San Diego Science Educators Association Board of Directors; 1989-1991, 1993-1998

Chair, School of Teacher Education Single Subjects Admissions and Retention Committee; 1989-1991

### **National Involvement**

Distinguished Editorial Review Board Member, National Institutes of Health; 2009

External Reviewer for the RTP process of non-SDSU colleagues; 1990-present

Member, National Science Foundation Review Panels 1997-present

Representative and Board Member, National Council for the Accreditation of Teacher Education for the National Science Teachers Association; 2002-2008

Member, National Science Teachers Association Preparation Standards Revision Task Force; 2002- 2008

College Representative, National Science Teachers Association Program Committee for the 2002 NSTA National meeting; 2001-2002

Member, National Science Teachers Association Research Committee; 2001-2004

Member, National Science Teachers Association *The Science Teacher* Advisory Board; 2001-2004

Member, National Science Teachers Association *Journal of College Science Teaching* Advisory Board; 2001

Member, National Council for the Accreditation of Teacher Education Science Program Review Board; 1990-1993; 1997-2006

Member, NCATE Advisory Board for the National Science Teachers Association; 2000-2002

Chair, NCATE Advisory Board for the National Science Teachers Association; 2003-2006

Chair, National Association for Research in Science Teaching Policy Advisory Committee; 2003-04

Chair, National Association for Research in Science Teaching Election Committee; 2003-04

Member, National Science Foundation Review Panel for Instructional Materials Development and Teacher Enhancement; 1999

Member, National Association for Research in Science Teaching Policy Advisory Committee; 1997-00

Advisory Committee Member, Teacher Education Mentor Project, University of Washington, 1996-1999

Member, National Association for Research in Science Teaching Elections Committee; 1996-1997

Member, Association for the Education of Teachers in Science Publications Committee; 1996-1997

Research Strategist, Harvard-Smithsonian Case Studies in Science Education, Smithsonian Institution Astrophysical Observatory; 1994-1996

Advisory Board Member, Georgetown Medical School's project *Preparing Technicians for the Biochemistry Industry*, 1995-1997

Advisory Board Member, American Physiological Society project *Frontiers in Physiology*; 1994-1997

Member, National Science Teachers Association Awards and Recognition Committee; 1994-1996

- Member, National Association for Research in Science Teaching Program Committee; 1994-1995
- Member, National Science Teachers Association Committee on Research in Science Teaching; 1992-1994
- Member, National Science Teachers Association Nominations Committee; 1992-1994
- Team Member, San Diego State University, Project 30; 1991-1999
- Member, National Science Foundation Review Panel for Materials Development, Research, and Informal Science Education; 1992
- Member, National Science Foundation Review Panel for Teacher Enhancement Program; 1992
- Member, National Institutes of Health, and Alcohol, Drug Abuse, and Mental Health Administration Science Education Partnerships Review Group; 1991
- Member, National Association for Research in Science Teaching Awards and Honors Committee; 1991-1992
- Member, Association for the Education of Teachers of Science Program Committee; 1991-1992
- Member, Advisory Board for *NSTA Reports*; 1990-1993
- Member, National Association of Biology Teachers' Interorganizational Liaison Committee; 1991-1992
- Member, National Advisory Council for Project 2061; 1989-1998
- Member, National Science Teachers Association's Task Force on the Articulation of Association Position Papers; 1989-1991
- Member, National Advisory Council for the Science - Scope, Sequence and Coordination project; 1989-1990
- Member, National Association of Biology Teachers' Teaching Standards Committee; 1988-1990
- Member, National Science Teachers Association Area Convention Committee; 1985-1986; 1988-1990
- Member, National Convention Committee for the National Science Teachers Association 1989 National Meeting in Seattle, Washington; 1988-1989
- Member, National Science Teachers Association Science Supervisors Committee; 1987-1988

**State Involvement**

Member, California State University Academic Senate; 2004-2006

Member, CSU Faculty Ed.D. Consultation Group; 2006-2007

Member, CSU Ad Hoc Committee for the Independent Doctoral Program; 2005-2007

Member, CSU-NASA Education Collaborative Steering Committee; 2004-2006

Member, Advisory Board for the California Science Project; 1994-2000

Member, Upward Bound Math/Science Regional Center Advisory Board; 1991-2004

Member, California State University Science Education Network for Scope, Sequence and Coordination Science Teacher Development; 1991-1995

Member, Action Research Council for California Science-Scope. Sequence and Coordination Project; 1990-1993

Member, San Diego Team's Project 2061 Advisory Council; 1989-1996

Facilitator, California Science Leadership Institute; 1988-1990

Member, California State University Science Educators Council; 1989-present

Member, Committee for the Golden State Biology Examination; 1988-1989

**Local Involvement**

Member, PISCES (Partnerships to Involve the Scientific Community in Elementary Schools) Project Advisory Board; 1997-2001

Member, High Tech High Advisory Committee; 1997-2001

Member, Poseidon Academy of Marine Science and Technology Advisory Board; 1997-2001

Member, Urban Systemic Initiative Stakeholders and Advisory Board; 1992-1999

Member, Reuben H. Fleet Science Center Newsletter Advisory Committee; 1993-2001

Member, San Diego State University Math/Science Regional Center Advisory Board; 1996-2000

Judge, Inventor's Showcase; 1995

Member, San Diego Natural History Museum Steering Committee for the Excellence and Equity National Research-Demonstration Project of the American Association of Museums; 1993-1994

Member, San Diego Unified School District Textbook Adoption Task Force; 1992-1993

Participant, San Diego Science Specialists Sessions; 1987-present

Member, Executive Committee for the Science Olympiad; 1987-1989

Judge, Academic League; 1988-1989

### **University Involvement**

Member, SDSU Student Research Symposium Committee; 2007-2010

Chair, SDSU School of Teacher Education Credential Programs Council; 2007-2008

Chair, SDSU School of Teacher Education Ad Hoc Policies and Procedures Committee; 2007-2008

Member, SDSU College of Sciences Dean Search Committee; 2006

Faculty Advisor, Doctoral Student Council in Education; 2004-present

Member, Director Search Committee for the SDSU-Claremont Joint Doctoral Program; 2004-2005

Faculty Advisor, School of Teacher Education Student Teacher Advisory Council; 2003-present

Doctoral Faculty Member, San Diego State University-University of San Diego Doctoral Program in Education; 2000-present

Doctoral Faculty Member, San Diego State University-Claremont Joint Doctoral Program; 1991-present

Doctoral Faculty Member, San Diego State University-University of California, San Diego Joint Doctoral Program; 1990-present

Adjunct Professor, Department of Biology; 1990-present

Member, San Diego State University Center for Research in Mathematics and Science Education; 1987-present

Member, Director Search Committee, School of Teacher Education; 1994-1995; 2000-2001

Member, Admissions Committee, SDSU/UCSD Joint Doctoral Program; 1994-1995; 1999-2000; 2006-2007

Chair, Faculty Merit Increase Committee, School of Teacher Education; 1999

Member, University Graduate Council; 1992-1994; 1998-2001

Member, Policy and Procedure Committee, University Graduate Council; 1992-1994; 1998-2001

Member, Single Subjects Admissions and Retention Committee, School of Teacher Education; 1987-1991; 1995-1997; 1999-2001

Member, Policy Council, College of Education; 1991-1994, 1997-2000

Member, Committee on Committees, College of Education; 1999-2000

Member, Resource Allocations Committee, College of Education; 1998-2000

Member, Interim Associate Dean Search Advisory Committee, College of Education; 1999

Member, Personnel Committee, School of Teacher Education ; 1993-1995, 1997-1999

Chair, Personnel Committee, School of Teacher Education ; 1998-1999

Member, Halfaker Award Committee, College of Education; 1998-present

Member, Dean of the Imperial Valley Campus Search Committee; 1997-1998

Chair, Science Education Search Committee, School of Teacher Education; 1997-1998; 1998-1999; 2006-2007; 2007-2008

Member, Geosciences Search Committee, Department of Geological Sciences; 1997-1998; 1998-1999

Member, Mathematics Education Search Committee, School of Teacher Education; 1997

Member, Director for Graduate Programs Search Committee, College of Education; 1996

Member, Graduate Advisory Council, School of Teacher Education; 1995-1996

Member, Ad Hoc Committee for Doctoral Programs, College of Education; 1995-1996

Chair, Single Subjects Admissions and Retention Committee, School of Teacher Education; 1989-1991

Member, Doctoral Director Search Committee, College of Education; 1994-1995

Member, Steering Committee, School of Teacher Education; 1994-1995

Member, Curriculum Committee, School of Teacher Education; 1990-1992, 1993-1995

Member, Task Force on Credentialing, School of Teacher Education; 1992-1994

Member, Science Center Advisory Committee; 1987-2000

Member, Professional Activities Committee, College of Education; 1991-1993

Member, Senate Committee on Committees; 1991-1992

Member, Senate; 1990-1992

Representative, Committee to promote National Science Week, College of Education; 1990

Member, Science Education Accreditation Committee; 1988-1989; 1996-1997

Member, Program Council, School of Teacher Education; 1987-1989

Member, Multicultural Education Program Task Force, School of Teacher Education; 1988-1989

Member, Committee on Computers, School of Teacher Education; 1988-1989

Member, Affirmative Action Faculty Development Awards Committee; 1988

### **Masters Thesis Committees**

Burnett, Christina. (Spring 2009). The effects of anthropogenic disturbance on spatial distribution of butterflies. Chair, Kathy Williams; Members - Douglas Deutschman, Cheryl L. Mason.

Tibbets, David (Spring 2009). Symbolic manipulation and arithmetization in solving kinematics problems. Chair, Donald Rehfuss; Members – Arlette Baljon, Cheryl L. Mason.

Moore, Eliza. (Fall, 2008). Relative effects of habitat structure at local and landscape scales on predator-prey interactions and species distribution in seagrass beds. Chair, Kevin Hovel; Members –Rebecca Lewison, Cheryl L. Mason.

Nalven, Marlo Anne. (Fall 2007). The bone box: The development of a skeletal biology teaching resource. Chair, Arion Mayes; Members – Lynn Gamble, Cheryl L. Mason.

- Kushner, Rachel. (Spring, 2005). Effects of the introduced Asian mussel *Musculista senhousia* on native bivalves in Mission Bay, CA. Chair, Kevin Hovel; Members – Todd Anderson, Cheryl L. Mason, Jeff Crooks.
- Morin, Dana. (Spring, 2005). Habitat fragmentation and the effects on small mammal and carnivore populations in San Diego County. Chair Lee McClenaghan; Members – Jay Diffendorfer, Cheryl L. Mason and Doug Bolger.
- Hayden, Sierra (Spring, 2002). Co-Chair - Lee McClenaghan and Kevin Crooks; Members - Jay Diffendorfer and Cheryl L. Mason.
- Caliban, Monica. (Summer, 2000). *The mating system and estimate of effective population size in Pacific harbor seals (Phoca vitulina richardsi)*. Chair – Lee McClenaghan; Members – Gregory Oicorry-Crowe (Southwest Fisheries Science Center), Todd Reeder and Cheryl L. Mason.
- Kendall, Curtis. (Fall, 1999). *Response of small mammals to Sherman and Stoddard live traps*. Chair - Lee McClenaghan; Members - George Cox and Cheryl L. Mason. The research will provide valuable insights into the behavior of small mammals and practical information for small mammal ecologists regarding trapping methodologies.
- Waayers, Gary. (Fall, 1996). *Introgression and selection in Mimulus puniceus and Mimulus aurantiacus ssp. australis*. Chair - Kaius Helenurm; Members - Lee McClenaghan and Cheryl L. Mason. This study investigated the role of selection on the introgression of floral traits between Coastal Monkey Flower (Mimulus puniceus) and San Diego Monkey Flower (M. aurantiacus ssp. australis).
- Fraher, Amy Louise. (Spring, 1995). *Flight of imagination: Targeting and educating the voices of the future*. Chair - Allison Rossett; Members - Bernie Dodge and Cheryl L. Mason. An interactive multimedia presentation was developed and tested with middle level students in order to determine its impact.
- Peirce Calvano, Andrea. (Fall, 1994). *Nutritional ecology of three subspecies of checkerspot butterfly (Euphydryas chalcedona)*. Chair - Kathy S. Williams; Members - Boyd D. Collier and Cheryl L. Mason. This study determined whether larvae from monophagous populations had higher performance on the foodplant from their population of origin (native host), and if larvae from oligophagous populations performed better on the foodplant with the highest nutritional quality.
- Renner, Lynette Elaine. (Spring, 1993). *Daughters of Eve: Women in the fiction of C.S. Lewis*. Chair - William Rogers II; Members - Thomas Aninger and Cheryl L. Mason. This study critiqued the works of C.S. Lewis from the perspective of the roles and treatment of his female characters.
- Leonard, Betsy Ann. (Fall, 1992). *The development of an instrument designed to measure the environmental knowledge and attitudes of middle school students*. Chair - Cheryl L. Mason; Members - Robertta Barba and Don Hunsaker II. This thesis dealt with the development and statistical validation of an instrument designed to

measure knowledge and attitudes concerning environmental issues of middle level students.

### **Doctoral Dissertation Committees**

Lardy, Corinne. (advanced to candidacy Fall 2009) Chair, Cheryl L. Mason; Members – Gabriele Wienhausen, Vicki Jacobs, Mark Applebaum and Sara Unsworth.

Sistek-Chandler, Cynthia. (Fall, 2007). A mixed methods study on CBAM and the adoption of thin client computers in an urban middle school. Chair, Fred J. Galloway; Members – C. Bobbi Hansen, Robert Donmoyer and Cheryl L. Mason.

Bussell, Linda. (Spring, 2004). The effect of force feedback on student reasoning about gravity, mass, force and motion. Chair, Sue Zgliczynski; Members – Robert Hoffman and Cheryl L. Mason.

Hays, Leslie. (Summer, 2004). AVID Program Graduates: Negotiating the First Year of College. Chair, Doug Fisher; Members – Cheryl L. Mason and Robert Infantino.

deStrulle, Arlene. (Summer, 2004). Designing virtual reality exhibits for informal science education. Chair, Sue Zgliczynski; Members – Cheryl L. Mason and Bobbi Hansen.

Zucca, Carol. (advanced to candidacy in the SDSU/UCSD Joint Doctoral Program but did not continue in the program); Chair - Cheryl L. Mason; Co-chair - Gabriele Weinhausen, UCSD; Members - Steve Reed, and Barbara Sawrey, UCSD.

### **Consulting**

Consultant, *Chispas* is an English language magazine of exploration and cultural expression for Hispanic children ages 8-13 and their families. Rebecca Morales is the Editor; 2005-2007

Consultant, Altair Learning Management, LLC; 2003-2008

Consultant, University of California, Merced and California State University, Stanislaus; 2003-2004

Consultant, Allyn & Bacon Publishing Company; 2003-present

Consultant, General Atomics, San Diego, CA; 1999-2001

Consultant, Urban Institute's Impact Study for the Program for Women and Girls, Washington, D.C.; 1999

Consultant, Oklahoma Association of Colleges for Teacher Education; 1998

Consultant/Author, Scott Foresman, Addison-Wesley, New York City, NY; 1997-present

Consultant, Washington Research Institute, Seattle, WA; 1996-1998

Consultant, Prentice Hall, Columbus, OH; 1989-present

Consultant, Coloring Concepts, Inc., Napa, CA; 1993-1996

Consultant, Chinese State Education Commission, Dalian, China; 1992-1993

Consultant, Global Climate Change Curriculum Modules, United States Environmental Protection Agency; 1992

Consultant, Helix High School, La Mesa, CA; 1992-1995

Consultant, Upward Bound Math/Science Regional Center, San Diego State University; 1991-present

Consultant, K-12 Science Curriculum Development, Yakima, Washington; 1991

Consultant, Making the Invisible Visible (NSF-sponsored project) Evaluation Group; 1991-1993

Consultant, National Youth Science Foundation; 1990-1997

Consultant, Restructuring the Preparation of Preservice Science Teachers, University of Northern Arizona; 1990.

Consultant, Educational Testing Service; 1990

Consultant, Report entitled *Educating Scientists and Engineers: Grade School to Grad School*, Congress of the United States Office of Technology Assessment; 1987-1989

Consultant, A Technical Memorandum entitled *Elementary and Secondary Education for Science and Engineering*, Congress of the United States Office of Technology Assessment; 1988

Consultant, FIPSE Alternative Credentialing Grant, Co-Principal Investigators: Dr. George Mehaffy and Dr. Norm Dessel, San Diego State University; 1988-1991

Consultant, Hoover High School Science Department, San Diego, California; 1988-1990

Consultant, Middle School Science Program, Noblesville, Indiana; 1986-1987

Consultant, K-12 Science Program, Pittsburgh, Pennsylvania; 1986-1987

Advisory Board Member, Problem-Solving Interactively (PSI) Project, University of Florida; 1985-1987

Consultant, Indiana Cadre for the Gifted and Talented; 1984-1987

### Peer Reviewed and Invited Presentations

- Lardy, C. & Mason, C.L. (March 20-24, 2010). Reforming undergraduate science courses: How much does funding matter? Paper presentation at the international meeting of the National Association for Research in Science Teaching, Philadelphia, PA.
- Sunal, C.S., Sunal, D., Mason, C.L. & Zollman, D. (March 20-24, 2010). Reform in entry-level undergraduate science coursework: Impacts on pre- and in-service K-6 teachers in a national sample. Paper presentation at the international meeting of the National Association for Research in Science Teaching, Philadelphia, PA.
- Lardy, C. & Mason, C.L. (January 14-16, 2010). Reforming undergraduate STEM courses for preservice K-6 teachers: How much does funding matter? Paper presentation at the international meeting of the Association for Science Teacher Education. Sacramento, CA
- Mason, C.L., Sunal, D., Sunal, C.S., Zollman, D., & Lardy, C. (January 14-16, 2010). Reformed Undergraduate Science Courses: A Nationwide Research Project Investigating the Impact on pK-6 Teachers. Paper presentation at the international meeting of the Association for Science Teacher Education. Sacramento, CA.
- Mason, C.L., Sunal, D.W., Sunal, C.S., Zollman, D., & Lardy, C. (January 7-10, 2009). Undergraduate science courses: A national study of reform efforts impacting preK-6 teachers. Paper presentation at the international meeting of the Association for Science Teacher Education. Hartford, CT.
- Sunal, D.W., Sunal, C.S., Mason, C.L., Zollman, D., & Lardy, C. (March 29 –April 2, 2007). Impact of undergraduate science course reform on student outcomes. Paper presentation at the international meeting of the National Association for Research in Science Teaching, Baltimore, MD.
- Sunal, D.W., Sunal, C.S., Mason, C.L., Zollman, D., Rebello, N.S., & Ogletree, G. (April 15-18, 2007) Determining the impact of reformed undergraduate science courses on students: Implementation of a National Study. Paper presentation at the international meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Mason, C.L., Sunal, D.W., Zollman, D., Sunal C.S. (2007, March 29-April 1). A national study of undergraduate science courses: Researched-based evidence for determining the impact of reformed college science courses on students. Paper presentation at the international meeting of the National Science Teachers Association, St. Louis, MO.
- Gilbert, S.W., & Mason, C.L. (2006, April 6-9). Helping your student teachers teach to standards. Paper presentation at the international meeting of the National Science Teachers Association, Anaheim, CA.

- Mason, C.L. & Gilbert, S.W. (2005, April 3-7). *A science education research organization's perspective on reform in teaching undergraduate science*. Multiple Paper Set at the international meeting of the National Association for Research in Science Teaching, Dallas, TX.
- Mason, C.L. & Gilbert, S.W. (2005, January 19-23). *Reform in undergraduate science teaching for the 21<sup>st</sup> century: Research trends*. Roundtable paper session at the international meeting of the Association for the Education of Teachers of Science, Colorado Springs, CO.
- Gilbert, S.W., Pedersen, J., Mason, C.L. & Bonstetter, R. (2004, January 8-10). *Survey of changes in science teacher education programs responding to performance-based NSTA/NCATE science standards*. Roundtable paper session at the international meeting of the Association for the Education of Teachers of Science, Nashville, TN.
- Mason, C.L. & McCormack, A.J. (2003, March 27-30). *Activities for developing visual/spatial thinking skills*. Workshop presented at the international meeting of the National Science Teachers Association, Philadelphia, PA.
- Gilbert, S.W. & Mason, C.L. (2003, March 27-30). *Implementing a performance assessment system in science at the college or university level*. Workshop presented at the international meeting of the National Science Teachers Association, Philadelphia, PA.
- Mason, C.L. (2003, January 30-February 2). *Writing grants to be competitive*. Workshop presented at the international meeting of the Association for the Education of Teachers of Science, St. Louis, MO.
- Mason, C.L. & Gilbert, S.W. (2003, January 30-February 2). *Performance system expectations for institutions addressing NSTA/NCATE standards for science teacher preparation*. Workshop presented at the international meeting of the Association for the Education of Teachers of Science, St. Louis, MO.
- Crawley, F., Koballa, T. & Mason, C.L. (2002, April 7-10). *Professors, proteges, perspectives and practices: A symposium on mentoring new faculty*. Symposium presented at the international meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Mason, C.L. & McCormack, A.J. (2002, March 27-30). *Focusing the mind's eye: Visual/spatial thinking activities*. Workshop presented at the national meeting of the National Science Teachers Association, San Diego, CA.
- Gilbert, S.W., & Mason, C.L. (2002, March 27-30). *Implementing and assessing a performance-based teacher preparation program using the NSTA standards for science teacher preparation*. Short course presented at the national meeting of the National Science Teachers Association, San Diego, CA.

- LaMaster, K., DiPasquale, D.M., Patterson, P., Mason, C.L., and Kolkhorst, F.W. (2002, April). *Shifting instructor behaviors in an exercise physiology laboratory course using inquiry-based learning*. Paper presented at the national meeting for the American Alliance for Health, Physical Education, Recreation and Dance, San Diego, CA.
- Kolkhorst, F.W., DiPasquale, D.M., & Mason, C.L. (2001, June). *Inquiry-based learning in the exercise physiology laboratory*. Tutorial presented at the national convention of the American College of Sports Medicine, Baltimore, MD.
- Mason, C.L. & McCormack, A.J. (2001, March 22-25) *Focusing the mind's eye: Visual/spatial thinking activities*. Workshop presented at the national meeting of the National Science Teachers Association, St. Louis, MO.
- Mason, C.L. & Gilbert, S.W. (2001, March 22-25) *Addressing the content dimension in performance standards for science teacher preparation*. Paper presented at the national meeting of the National Science Teachers Association, St. Louis, MO.
- McCormack, A.J., & Mason, C.L. (2000, January 6-9). *Developing visual/spatial thinking through an enrichment program*. Paper presented at the national meeting of the Association for the Education of Teachers in Science, Akron, OH.
- Lavoie, D., Mason, C.L., Jones, M.G., Novak, J.D., Mintzes, J.J., Wandersee, J & Rua, M. (1999, March 28-31). *Dimensional representation strategies for cognitive structures*. Symposium presented at the national meeting of the National Association for Research in Science Teaching, Boston, MA.
- Mason, C.L. (1998, October 29-31). *Integration – Yesterday, Today, and Tomorrow*. Paper presented at the western area meeting of the National Science Teachers Association, Seattle, WA.
- Mason, C.L. (1998, April 16-19). *Behavior in a community context - from tattoos to trackmarks*. Paper presented at the national meeting of the National Science Teachers Association, Las Vegas, NV.
- Mason, C.L. (1998, April 19-22). *Improving visual/spatial thinking skills of girls*. Paper presented at the national meeting of the National Association for Research in Science Teaching, San Diego, CA.
- Mason, C.L. (1997, April 3-6). *NSTA Award Programs*. Paper presented at the national meeting of the National Science Teachers Association, New Orleans, LA.
- McCormack, A.J. & Mason, C.L. (1997, January 9-12). *Visual/spatial thinking and the creation of a constructivist curriculum*. Paper presented at the national meeting of the Association for the Education of Teachers in Science, Cincinnati, OH.
- McCormack, A.J. & Mason, C.L. (1996, March 31-April 3). *VISTA: Infusing Visual/Spatial Thinking into K-8 Science Programs*. Paper presented at the national

- meeting of the National Association for Research in Science Teaching, St. Louis, MO.
- McFadden, C., Mason, C.L., & Yager, R. (1996, March 31-April 3). *Generalizing some of the current reform projects in science education into an action research and development model for educational scholarship*. Paper presented at the national meeting of the National Association for Research in Science Teaching, St. Louis, MO.
- McCormack, A.J. & Mason, C.L. (1996, March 28-31). *Visualization and imagination: Opening windows to science*. Paper presented at the national meeting of the National Science Teachers Association, St. Louis, MO.
- Katz, M.B., Hubler, R., Johnson, D.E., Kanenaka, Kranepool, H., Mason, C.L., Shaw, T., Woods, T.H. & Pinson, L. (1996, March 28-31). *Be a winner: Learn about the NSTA awards program*. Paper presented at the national meeting of the National Science Teachers Association, St. Louis, MO.
- Mason, C.L. & McCormack, A.J. (1996, January 11-13). *VISTA: Focusing the Mind's Eye*. Paper presented the national meeting of the Association for the Education of Teachers of Science, Seattle, WA.
- Mason, C.L. & McCormack, A.J. (1995, October 19-21, November 16-18 and December 14-16). *Scintillating Spatial Sensations to Spark Science*. Paper presented at three Area Conventions of the National Science Teachers Association, Salt Lake City, Baltimore, MD, and San Antonio, TX.
- McCormack, A.J. & Mason, C.L. (1995, March 23-26). *Through the mind's eye -- Adventures in visual/spatial thinking*. Workshop presented at the national meeting of the National Science Teachers Association, Philadelphia, PA.
- Kyle, W., Mason, C.L., Lawrence, C., Liu, C, & McFadden, C. (1995, March 23-26). *Action research a key to current reform*. Panel discussion presented at the national meeting of the National Science Teachers Association, Philadelphia, PA.
- Mason, C.L. & McCormack, A.J. (1994, October 13-15 and December 15-17). *Project VISTA: Development of science activities designed to enhance visual/spatial thinking skills*. Paper presented at two Area Conventions of the National Science Teachers Association, Portland, OR, and Las Vegas, NV.
- McCormack, A.J. & Mason, C.L. (1994, March 26-29). *Development and implementation of visual/spatial science activities*. Paper presented at the national meeting of the National Association for Research in Science Teaching, Anaheim, CA.
- Roychoudhury, A., Lemke, J., & Mason, C.L. (1994, March 26-29). *Masculinism in science and science education*. Panel discussion presented at the national meeting of the National Association for Research in Science Teaching, Anaheim, CA.

- Mason, C.L. (1994, February 11-12). *Be inspired; be inspiring: Ignite the science spark*. Invited Keynote Address at the annual meeting of the Hoosier Association of Science Teachers, Inc., Indianapolis, IN.
- Gilbert, S.W., & Mason, C.L. (1994, January 6-9). *Five-year teacher preparation in two programs*. Paper presented at the national meeting of the Association for the Education of Teachers in Science, El Paso, TX.
- Woerner, J.J., Schoon, K., Mason, C.L., & Granger, C.R. (1994, January 6-9). *Alternative pathways to revitalizing science teacher education through collaboration*. Paper presented at the national meeting of the Association for the Education of Teachers in Science, El Paso, TX.
- Mason, C.L. (1993, April 15-18). *Science teaching and learning: Gender is still an issue*. Paper presented as part of a symposium on diversity and science teaching and learning at the national meeting of the National Association for Research in Science Teaching, Atlanta, GA.
- Berg, C.A., & Mason, C.L. (1993, April 15-18). *Urban science teaching: Unique problems, research and implications for teaching science and teacher preparation*. Symposium presented at the national meeting of the National Association for Research in Science Teaching, Atlanta, GA.
- Mason, C.L. (1993, April 1-4). *Science in the center: Helping student teachers develop interdisciplinary lessons*. Paper presented at the annual meeting of the National Science Teachers Association, Kansas City, MO.
- Berg, C.A., Mason, C.L., & Bisbee, G.D. (1993, April 1-4). *Urban science teaching: Unique problems and potential solutions for teaching science and teacher preparation*. Panel presentation at the annual meeting of the National Science Teachers Association, Kansas City, MO.
- Mathison, C., & Mason, C.L. (1993, February 13-17). *Project STARS: Helping future teachers recognize and address the needs of a culturally diverse student population*. Paper presentation at the annual meeting of the Association of Teacher Educators, Los Angeles, CA.
- Mason, C.L., & Saigo, B.W. (1992, March 26-29). *Activities and ideas for middle school science*. Workshop presented at the annual meeting of the National Science Teachers Association, Boston, MA.
- Gardner, A.L., Haley-Oliphant, A.E., Mason, C.L., & Matyas, M.L. (1992, March 26-29). *Encouraging girls in biology: Borrow a role model from history!* Workshop presented at the annual meeting of the National Science Teachers Association, Boston, MA.
- Mason, C.L., & Huppert, J. (1992, March 21-25). *Triads: A collaborative approach to the preparation of science teachers in the United States and Israel*. Paper

presentation at the national meeting of the National Association for Research in Science Teaching, Boston, MA.

Greenbowe, T., Mason, C.L., & Saigo, B.W. (1992, March 21-25). *Presidential awardees as instructional mentors for middle level science teachers: A summer institute and beyond*. Paper presentation at the national meeting of the National Association for Research in Science Teaching, Boston, MA.

Mason, C.L., & Mathison, C. (1992, March 13-14). *Helping students organize and retain scientific concepts*. Workshop presentation at the annual meeting of the San Diego Science Educators Association, San Diego, CA.

Mathison, C., & Mason, C.L. (1992, February 27-March 1). *Project STARS: Preparing Teachers for Culturally Diverse Students*. Paper presented at the California State University Teaching and Learning Exchange, Los Angeles, CA.

Saigo, B.W., & Mason, C.L. (1991, December 14-16). *Activities and ideas for middle school science*. Workshop presentation at the area convention of the National Science Teachers Association, New Orleans, LA.

Mason, C.L. & Greenbowe, T. (1991, April 7-10). *The effect of an NSF summer institute on middle school science teachers' perception of their level of science knowledge, and knowledge and use of various teaching strategies and techniques*. Poster presentation at the national meeting of the National Association for Research in Science Teaching, Lake Geneva, WI.

Mason, C.L. (1991, March 27-30). *Constructing subject-specific pedagogy: A triad of science specialists collaborate and cooperate*. Paper presented at the national meeting of the National Association for the Education of Teachers in Science, Houston, TX.

Mason, C.L., & Saigo, B.W. (1991, March 27-30). *Perking up middle school science: Tested ideas from NSF-sponsored summer institutes*. Paper presented at the national meeting of the National Science Teachers Association, Houston, TX.

Mason, C.L. (1990, November 7-11). *The world of middle school biology: Focus on it*. Paper presented at the national meeting of the National Association of Biology Teachers, Houston, TX.

Mason, C.L. (1990, November 1-3). *Concept mapping: A tool to develop reflective practitioners*. Paper presented at the area convention of the National Science Teachers Association, Long Beach, CA.

Mason, C.L. (1990, November 1-3). *Giving diverse populations a context for science learning*. Paper presented at the area convention of the National Science Teachers Association, Long Beach, CA.

- Mason, C.L. (1990, April 8-11). *Science teaching and learning: Using concept mapping to develop reflective practitioners*. Paper presented at the national meeting of the National Association for Research in Science Teaching, Atlanta, GA.
- Mason, C.L. (1990, March 9-10). *Conceptualizing science: Activities designed to help students see the big picture*. Workshop presented at the annual meeting of the San Diego Science Educators Association, San Diego, CA.
- Mason, C.L., & Fisher, K. (1990, March 9-10). *Middle school biology: A cognitive approach*. Workshop presented at the annual meeting of the San Diego Science Educators Association, San Diego, CA.
- Leonard, W.H., Fowler, C., Mason, C.L., Ridenour, N., & Stone, C. (1989, October 25-29). *A minimum core curriculum for 10th-grade biology*. Symposium presented at the annual meeting of the National Association of Biology Teachers, San Diego, CA.
- Haley-Oliphant, A.E., Gardner, A.L., Mason, C.L., & Matyas, M.L. (1989, October 25-29). *Equitable examples: Activities which focus on the contributions of women scientists*. Workshop presented at the annual meeting of the National Association of Biology Teachers, San Diego, CA.
- Mason, C.L., & Thomas, L. (1989, April 6-9). *Labs alive*. Workshop presented at the annual meeting of the National Science Teachers Association, Seattle, WA.
- Mathison, C.S., & Mason, C.L. (1989, March 11-14). *Planning interdisciplinary curriculum: A systematic and cooperative approach*. Paper presented at the annual meeting of the Association for Supervision and Curriculum Development, Orlando, FL.
- Mason, C. L., & Mathison, C. S. (1988, November 16-20). *Articulation is not just for skeletons: Activities for across the curriculum*. Workshop presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL.
- Mason, C. L., Gardner, A. L., Matyas, M. L., & Haley-Oliphant. (1988, November 16-20). *Contributions of women scientists: Developing user friendly activities with a historical perspective*. Workshop presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL.
- Mason, C. L. (1988, April 10-13). *A collaborative effort to effectively evolve pedagogical content knowledge in preservice teachers*. Poster paper presented at the annual meeting of the National Association for Research in Science Teaching, Lake Ozark, MO.
- Mason, C. L. (1988, April 7-10). *Sciematics: Activities for integrating science and math skills*. Workshop presented at the annual meeting of the National Science Teachers Association, St. Louis, MO.

Mason, C. L., Hansen, M. F., Texley, J., Kobe, M., & Kutscher, G. (1988, April 7-10). *Not necessarily the curriculum: Where to start and how to perpetuate student research projects*. Panel discussion presented at the annual meeting of the National Science Teachers Association, St. Louis, MO.

Mason, C. L. (1988, February 26-27). *Caught in the middle?: Schematic activities to energize your classroom environment while developing science and math process skills*. Workshop presented at the annual conference of the San Diego Science Educators Association, San Diego, CA.

Mathison, C.S., Mason, C. L., Shelburne, N., & Parker, J. (1988, February 13-17). *On-site teacher training in high schools: A description of one program's structure and substance*. Presentation at the national meeting of the Association of Teacher Educators, San Diego, CA.