

JAMES F. KISIEL

California State University, Long Beach
Department of Science Education
1250 Bellflower Blvd
Long Beach, CA 90840
(562) 985-9265
jkisiel@csulb.edu

ACADEMIC PREPARATION

EDUCATION

B.S. Chemistry May 1988
Case Western Reserve University Cleveland, OH

M.S. Chemistry (Organic Chemistry) December 1990
University of California, Los Angeles Los Angeles, CA
Thesis: Analysis of simple iron(II)-keto acid complexes: Possible models for prolyl hydroxylase

Ph.D. Education (Science Education) December 2003
University of Southern California Los Angeles, CA
Dissertation: Revealing teacher agendas: An examination of teacher motivations and strategies for conducting museum fieldtrips

TEACHING ACTIVITIES

Teaching Assistant 1988-1990
University of California, Los Angeles Los Angeles, CA
Lower and upper division organic chemistry classes

High School Science Teacher 1992-1997
Cathedral High School Los Angeles, CA
Instructed high school science (chemistry, honors chemistry, physics, physical science).

Science Department Chair 1993-1997
Cathedral High School Los Angeles, CA
Examined student and science faculty needs and abilities in order to provide a solid science education at an inner-city Catholic high school

Fast-Paced Chemistry Instructor 1996, 1997
Johns Hopkins Center for Talented Youth (CTY) Lancaster, PA; Los Angeles, CA
Selected to teach an intensive first-year Chemistry class (as part of a national summer program) designed to provide challenging educational opportunities to gifted 9th and 10th grade students.

High School math and science tutor 1997
Cathedral High School Los Angeles, CA
Provided daily tutoring services for Freshman and Sophomore students

Teacher Advisor 1997-1998

Natural History Museum of Los Angeles County Los Angeles, CA
Provided professional development for elementary and middle school teachers to help them integrate the Museum's science and social studies outreach programs into their classroom. Also instructed these outreach programs as necessary.

"Adventures in Nature" Day Camp Instructor 1998-2003
Natural History Museum of Los Angeles County Los Angeles, CA
Developed and instructed weeklong science camp sessions for students grades three through eight. Topics included forensics, archaeology and paleontology, household chemistry, Mars and space science, and oceanography.

Mobile Education Program Coordinator 1998-2002
Natural History Museum of Los Angeles County Los Angeles, CA
Responsible for implementation of three outreach programs serving elementary and middle schools in a large urban school district. Oversaw program logistics, including curriculum and scheduling. Performed museum staff development and program modifications to meet the needs of students and teachers served by the programs. Supervised staff of fifteen, including instructors, program assistant, field technician, and drivers.

Content Development Committee, New Museum Project 2001-2002
Natural History Museum of Los Angeles County
Participated in brainstorming, organization, and message development for the creation of a new natural history museum. Provided a "visitor voice" and learning perspective during the generation of possible new exhibit halls and display choices.

Guest Lecturer 2001-2003
California State University, Fullerton; California State University, Long Beach
Discussed informal science learning and strategies for using non-classroom experiences in elementary and middle school curricula.

Part-Time Instructor Summer 2002
California State University, Fullerton Fullerton, CA
Instructed graduate level course in elementary science education for teacher's completing their master's degree.

Education Program Evaluator 2002-2003
Natural History Museum of Los Angeles County Los Angeles, CA
Conducted program evaluation and assessment, and provided consultation for program coordinators, managers, and exhibit designers. Projects included designing and coordinating a museum-wide evaluation of visitor experience.

Assistant Professor August 2003-present
California State University, Long Beach Long Beach, CA
A Process Approach to Science (SCED 401) Inquiry-based course designed to help future K-8 teachers develop a better understanding of science methods and content knowledge, as well as the nature of science, necessary for effective science teaching at the elementary level (F2003, SP2004, F2004, F2005)

Introduction to Teaching Science (EDSS 300C) Course designed to provide a breadth of knowledge regarding what it means to be a single subject (middle school or high school) science teacher. Instructional methods, theoretical perspectives and policy issues are all discussed. Requirements for admission to the CSULB Single Subject Credential program are also discussed. (F2004, SP2005, F2005)

Single Subject Science Credential Advisor Support for students enrolled or interested in the single subject credential for science. Responsibilities included office hours for student meetings, coordination with local schools and districts for student teacher placement, as well as organization of student teacher orientation meeting (F2004, SP2005, SU 2005, F2005)

Single Subject Science Student Teacher Supervisor Mentoring and advisory support for students participating in student teaching in science, grades 6-12 (F2003, SP2004, SP2005)

PUBLICATIONS

Kisiel, J. (2003). Teachers, museums and worksheets: A closer look at a learning experience. *Journal of Science Teacher Education* 14 (1), 3-21.

Cox, A.M., Marsh, D., Kisiel, J. and Melber, L. (2003). An investigation of guided school tours and learning at a museum of natural history. *Journal of Research in Science Teaching*, 40 (2), 200-218.

Brown, C. and Kisiel, J (2003). Squid Dissection: From Pen to Ink. *Science Activities*, 40 (1), 16-22.

Olson-Demme, H. and Kisiel, J. (2003). Gone Fishing. *Science Activities*, 40 (1), 32-35.

Kisiel, J. (2004). The nature of museums: Visitor conceptions and the traditional role or natural history museums. *The Informal Learning Review* 68, 8-10.

[ILR is a co-edited publication with distribution to museum practitioners throughout the US.]

Kisiel, J. (2005) Understanding Elementary Teacher Motivations for Science Fieldtrips. *Science Education*, 89, 936-955.

Kisiel, J. (2006) Making fieldtrips work. *The Science Teacher*, 73(7). 24-26.

Kisiel, J. (in press) Urban teens exploring museums: Science experiences beyond the classroom. *The American Biology Teacher*. Accepted for publication, July 2004

Kisiel, J. (in press) Examining teacher choices for science museum visits. *Journal of Science Teacher Education*. Accepted for publication, May 2005

Kisiel, J. (in press) An examination of fieldtrip strategies and their implementation within a natural history museum. *Science Education*. Accepted for publication, September 2005

Anderson, D; Kisiel, J.; Storksdieck, M. School field trip visits: Understanding the teacher's world through the lens of three international studies. *Curator*, Accepted for publication (with revisions), August 2005

INVITED MEETINGS

Enhancing natural history museum visitor understanding of evolution: A national conference. *Sponsored by the Florida Museum of Natural History and the University of Florida, Gainesville, with funding from the National Science Foundation*. October 2004.

In Principle, In Practice: A Learning Innovation Conference. *Sponsored by the Institute for Learning Innovation, Annapolis, MD, with funding from the National Science Foundation*. November 2004.

PROFESSIONAL PRESENTATIONS

Unless otherwise noted, presentations listed here were **refereed**.

Cox, A.M., Walsh, M., and Kisiel, J. (October, 1997) The Earthmobile--Science on Wheels. Workshop presentation. California Science Teachers Association Annual Conference. Palm Springs, CA.

Kisiel, J. (February, 1999). The Seamobile--Science on Wheels. Workshop presentation. Greater Los Angeles Teachers' Science Association Annual Conference. Los Angeles, CA.

Kisiel, J., Stern, I. (October, 1999). Arrowheads, Dino Tales and Inquiry. Workshop presentation. California Science Teachers Association Annual Conference. Long Beach, CA.

Kisiel, J., Walsh, M. (October, 1999). An Ocean in the Classroom. Workshop presentation. California Science Teachers Association Annual Conference. Long Beach, CA.

Additional workshop presentation. (December, 1999). National Science Teachers Association Western Regional Conference. Reno, NV.

Kisiel, J., Carter, C. (February 2000). Workshop presentation. Fifty-Foot Dinosaurs and Fifty-Foot Women: Integrating museums into your curriculum. Greater Los Angeles Teachers' Science Association Annual Conference. Los Angeles, CA.

Kisiel, J. (February, 2001). Watch Your Step: Inferences from a Prehistoric Point of View. Workshop presentation. Greater Los Angeles Teachers' Science Association Annual Conference. Los Angeles, CA.

Kisiel, J. (January, 2000). Lessons Learned: A Closer Look at Museum Outreach. Poster presentation. Association for Educators of Teachers of Science Annual Meeting, Akron, OH.

Additional poster presentation. (April, 2000). National Association for Research in Science Teaching Annual Meeting. New Orleans, LA.

Taylor, B., Carter, C., Kisiel, J., Walsh, M., Sammons, K., Valenta, C. (October, 2000). Exhibit Education: A Practical Approach. Panel discussion and workshop. Association of Science And Technology Centers, Annual Meeting, Cleveland, OH.

Kisiel, J. (January, 2001). Museums, Worksheets and Teacher Agendas: Creating a Learning Experience. Paper presentation. Association for Educators of Teachers of Science Annual Meeting, Costa Mesa, CA.

Additional paper presentation (April, 2001). National Association for Research in Science Teaching Annual Meeting, St. Louis, MO.

Kisiel, J. (October, 2001). Diving into Oceanography. Workshop presentation. California Science Teachers Association Annual Conference, Palm Springs, CA.

Kisiel, J. (January, 2002). Reaching a New Audience: Urban Teens in Museums. Poster presentation. Association for Educators of Teachers of Science Annual Meeting. Charlotte, NC.

Kisiel, J., Walsh, M. (March, 2002). Not Just Boring Old Bones: Exploring Museums with your Students. Workshop presentation. National Science Teachers Association Annual Conference, San Diego, CA.

Kisiel, J., Brown, C. (March, 2002). Surf and Turf: Activities from a Natural History Museum. Workshop presentation. National Science Teachers Association Annual Conference, San Diego, CA.

Additional workshop presentation. (October, 2002). California Science Teachers Association Annual Conference, San Francisco, CA.

Kisiel, J. (April, 2002). Giving them what they want: Factors influencing the development of a new museum outreach program. Paper presentation. National Association for Research in Science Teaching Annual Meeting, New Orleans, LA.

Kisiel, J. (January, 2003). Two steps back: Examination of the new California Science Framework and the role of science educators. Paper presentation. Association for Educators of Teachers of Science Annual Meeting. St. Louis, MO.

Kisiel, J. (January, 2003). Mandates, museums and Mars: The challenges of assessing student and teacher needs to inform program development. Paper presentation. Association for Educators of Teachers of Science Annual Meeting. St. Louis, MO.

Kisiel, J. (March, 2003) Fears and fieldtrips: Examining teacher choices and challenges related to science Museum Visits. Paper presentation. National Association for Research in Science Teaching Annual Meeting, Philadelphia, PA.

Kisiel, J. (March, 2003) There's science in there: Activities from a natural history museum. Workshop presentation. National Science

Teachers Association Annual Conference, Philadelphia, PA.

Kisiel, J. (April, 2003) The Trouble with Field Trips: Understanding Museum Visits from a Teacher's Perspective. Poster presentation. American Educational Research Association Annual Meeting, Chicago, IL.

Kisiel, J. (November, 2003) Do Fieldtrips Fit? Workshop presentation. Orange County Science Educators Association. Orange, CA

Kisiel, J. (November 2003) "So what do we know? A closer look at the results of the NHM Spring 2003 Visitor Study" Presentation to Natural History Museum of Los Angeles County, Education Division

Kisiel, J. (January, 2004) Understanding Elementary Science Fieldtrips: Teaching Strategies within a Natural History Museum. Paper presentation. Association for Educators of Teachers of Science Annual Meeting. Nashville, TN.

Kisiel, J. (February 2004) Foam and fizz—Bringing chemistry into the classroom. Greater Los Angeles Teachers of Science Association Conference, Los Angeles, CA.

Kisiel, J. (April 2004) Identifying teacher motivations for conducting museum fieldtrips. Paper presentation. National Association for Research in Science Teaching Annual Meeting, Vancouver, BC, Canada.

Anderson, D., Dierking, L., Kisiel, J., Rennie, L., Rowe, S. (April 2004) When worlds collide: Examining conflict between educational policy and the mission of informal learning institutions. Invited Panel Discussion (Discussant). National Association for Research in Science Teaching Annual Meeting, Vancouver, BC, Canada. [*invited session*]

Kisiel, J. (April 2004) The teacher agenda: Understanding fieldtrip motivations and strategies. Poster presentation. American Educational Research Association Annual Meeting, San Diego, CA.

Kisiel, J., Weaver, S., Marcotte, S. (April 2004) Examining the Impact of Outreach Programs and Out-of-Classroom Experiences. Roundtable presentation. American Educational Research Association Annual Meeting, San Diego, CA.

Kisiel, J. (August 2004) The nature of natural history museums: Visitor conceptions and the role of the museum as an informational resource. Paper presentation. Visitor Studies Association Annual Meeting, Albuquerque, NM,

Storksdieck, M., Kisiel, J. (August 2004) Interest and information—A traveling exhibition on dogs questions assumptions about visitors. Paper presentation. Visitor Studies Association Annual Meeting, Albuquerque, NM.

Kisiel, J. (October 2004) Supporting school-based science: Making the case for the school fieldtrip. California Science Education Conference, San Jose, CA.

Kisiel, J. (January 2005) What we know about museums and fieldtrips: Considerations for supporting science teachers. Paper presentation, Association for Science Teacher Education Annual Meeting, Colorado Springs, CO.

Henriques, L., Colburn, A., McMahon, M., Martin-Dunlop, C., Kisiel, J. (January 2005) Using data to teach science and the nature of science in a college science class. Roundtable presentation. Association for Science Teacher Education Annual Meeting, Colorado Springs, CO.

Kisiel, J. (February 2005) Stegosaurus, Standards, and Science: Making the most of your fieldtrip. Greater Los Angeles Teachers of Science Association Conference, Los Angeles, CA.

Kisiel, J., Walter, C., Westbrook, V., Youker, C. (April 2005) A closer look at the collaborative efforts of educational institutions to support science learning and instruction. National Association for Research in Science Teaching Annual Meeting, Dallas, TX. [*invited session*]

Dunckel, B., Abraham-Sliver, L., Chang, J., Ellis, S., Foutz, S., Kisiel, J., Koke, J. (August, 2005) Museum visitors' understanding of evolution. Visitor Studies Association Annual Conference, Philadelphia, PA.

Dunckel, B., Abraham-Sliver, L., Dierking, L. D., Kisiel, J. (October 2005) A Research Partnership: Investigating Visitor Understanding of Evolution. Association of Science and Technology Centers Annual Conference, Richmond, VA.

UPCOMING PRESENTATIONS

Kisiel, J and McMahon, M (January 2006) Thinking outside the classroom: Using community resources to support science teaching. Association of Science Teacher Educators Annual Meeting, Portland, OR.

Kisiel, J., Coppenger, A. From leopards to leopard sharks: Using fieldtrips to bring life science to life. National Science Teacher Association Annual Meeting, April 2006.

Kisiel, J., Silver, L., Dierking, L., McComas, W. Investigating the Public Understanding of Evolution by Natural Selection. National Association for Research in Science Teaching Annual Meeting, April 2006.

Kisiel, J. Tradition, time and identity: Considerations for establishing bridges between schools and informal science institutions. National Association for Research in Science Teaching Annual Meeting, April 2006.

REVIEWER RESPONSIBILITIES

Reviewer, Journal of Research in Science Teaching

1999-2003

Conference Proposal Reviewer

Association for the Education of Teachers of Science Annual

Meeting 2003
 National Association of Research in Science Teaching Annual
 Meeting 2001

Reviewer, Journal of Research in Science Teaching 2003-2004
 Reviewer, Canadian Journal of Science, Mathematics and Technology
 Education 2005

Conference Proposal Reviewer
 Association for the Education of Teachers of Science Annual
 Meeting 2004
 National Association for Research in Science Teaching 2005
 Visitor Studies Association Annual Meeting 2004, 2005

GRANT PROPOSALS SUBMITTED

Faculty Early Career Development (CAREER) Program, sponsored by the National Science Foundation. *Examining the Use of Informal Learning Institutions to Support Science Instruction*. Principal Investigator. Submitted July 2005. (\$495,020)

Scholarly and Creative Activities Award Program, CSULB. *Understanding Factors that Contribute to a Teacher's Use of Museums and Other Community Resources to Support Science Instruction*. Application submitted September 2005. (request for assigned time)

PROFESSIONAL AFFILIATIONS

American Educational Research Association 2001-present
 AERA Informal Learning Environments Special Interest Group 2001-present
 Association of Educators of Teachers of Science 1999-present
 California Science Teachers Association 1993-1994, 1997-present
 National Association for Interpretation 2002
 National Association for Research in Science Teaching 1998-present
 National Science Teachers Association 1998-present
 Visitor Studies Association 2002-present
 National Association of Biology Teachers 2003-present

UNIVERSITY AND COMMUNITY SERVICE

Single Subject Credential Program activities

- Student teacher evaluation revision Task Force member 2003-2004
- Secondary science program revision Task Force (SB 2042) 2003-present

Faculty volunteer, Association of Future Science Educators, CSULB
 chapter September 2003- present

Earl Burns Miller Japanese Gardens Education Outreach Committee *Spring 2005-present*
Single Subject Credential Program (Science), Science Teaching
Credential informational meeting *April 2005*

Research Strand Co-Coordinator, National Association of Research in
Science Teaching *2003-2005*

Institute for Museum and Library Services, National Leadership Grants-
panel member for review of Research and Demonstration Projects *Spring 2005*

Committee Member, NSTA National Conference, Science for Young Children
Day *August 2005-present*

PROFESSIONAL MEETINGS ATTENDED

American Association of Museums Annual Meeting: 1998

Association of Educators of Teachers of Science Annual Meeting: 1998,
1999, 2000, 2001, 2002, 2003, 2004, 2005

Association of Science and Technology Centers Annual Meeting: 2000,
2005

California Science Teacher Association Annual Meeting: 1993, 1997,
1999, 2001, 2002, 2003, 2004, 2005

Greater Los Angeles Teachers of Science Association Annual Meeting:
1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005

National Association for Research in Science Teaching Annual Meeting:
1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005

National Science Teacher Association Annual Meeting: 1999, 2002,
2003, 2005

National Science Teacher Association Western Regional Meeting: 1999

Visitors Studies Association Annual Meeting: 2002, 2004, 2005