David A. Nickles, Ph.D.

Lecturer
Department of Science Education
California State University Long Beach
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Long Beach, CA 90840-4501
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PROFESSIONAL EXPERIENCE

Lecturer, California State University Long Beach, Long Beach, CA

Courses taught

A Process Approach to Science (SCED 401)	Fall 2006
Curriculum and Methods of Teaching Science (EDSS 450C)	Fall 2006

Assistant Professor, California State University East Bay, Hayward, CA

Courses taught

Teaching Science, Health and Safety in the Elementary School (TED 5357,SB2042 approved)	2004-2006
Psychological Foundations of Education (TED 5351)	2005-2006
Science Methods for Elementary Teachers (TED 5357)	2003-2004
Curriculum Development (TED 6300)	Fall 2003
Student Teacher Supervision (TED 5381) Single Subject Math Candidates	2003-2004
Student Teacher Supervision (TED 5381) Single Subject Science Candidates	2004-2005
Student Teacher Supervision (TED 5361) Multiple Subjects Candidates	2004-2005
Assessing Instructional Experiences (TED 5702)	2004-2005
Student Teaching Seminar (TED 5372)	2004-2005
Department Thesis Advising (TED6909)	2004-2005

Lecturer, California State University Monterey Bay, Seaside, CA

Courses taught

Science Methods for Elementary Teachers (ED 608)	1999-2001
Elementary Math from an Advanced Viewpoint A (Math 308)	2001-2002
Quantitative Literacy (Math 100)	2001-2002
Monterey County Mathematics Professional Development Institute	Summer 2002
Mathematics Review (Math 98/99)	Fall 2001
ProSeminar (PS 100)	Fall 2000 & 2001

Lecturer, San Francisco State University, San Francisco, CA

Courses taught

Curriculum and Instruction in Science (EED 679)	January 1998
Student Teaching Supervisor, Department of Elementary Education	Fall 1997

Graduate Assistant, The Pennsylvania State University, University Park, PA

Courses taught

Elementary Science Methods (SciEd458)	1996-1997
Pre-student Teaching Supervisor & Seminar (CI495B)	1996-1997

Mentor Teacher, Hillview Junior High School, Pittsburg, CA

District Science Mentor, Project: Design Grade 6 Thematic Science Unit 1990-1991

Courses taught

Science and Mathematics Teacher, Grades 6-8 1987-1991

Teacher, Franklin Year Round Elementary School, Oakland, CA

Science Prep Teacher, Grades K-6 1987

Teacher, Presentation High School, Berkeley, CA

Department Chair, Science and Mathematics, Grades 9-12 1984-1987

Courses taught

Life and physical science, biology, chemistry, algebra II, geometry

PUBLICATIONS

Textbooks

Stronck, D. & Nickles, D. (September, 2006) Health, Science and Safety in the Elementary School. Dubuque, IA: Kendall-Hunt Publishing Co.

Peer Reviewed Articles

Nickles, D. (March, 2003) Impact of Explicit Instruction about the Nature of Personal Learning Style on University Freshman Students' Perceptions of Successful Learning. Journal of General Education, Vol.52 No.2, Fall 2003.

Presentations and Unpublished Papers

National and International Conferences

Nickles, D. (April, 2006) Inquiry Into Elementary Science Education: Applying the Generative Learning Model to a Methods Course Design. Paper presentation for the National Science Teachers Association Conference. Anaheim, CA

Nickles, D. (April, 2006) Ten Minute Lessons on Motion. Science for Young Learners Day Hands-on workshop presentation for the National Science Teachers Association Conference. Anaheim, CA

Nickles, D. (April 2006) Long-term Inquiry into Life Science for Young Children. Hands-on workshop presentation for the National Science Teachers Association Conference. Anaheim, CA

Nickles, D. (April, 2004) Impact of Explicit Instruction about the Nature of Personal Learning Style on University Freshman Students' Perceptions of Successful Learning. Paper presented at the annual meeting of the American Educational Research Association San Diego, CA

Nickles, D., Walter, D. & Dana, T. (September, 1999) Changes in Preservice Elementary Teachers' Conceptions About Science and Science Teaching and Learning During a Methods Course. Paper presented at the 5th International Conference on the History and Philosophy of Science. Como, Italy

Nickles, D. & Walter D. (April, 1998) Practitioners' Research: Changes in Preservice Elementary Teachers' Conceptions About Science and Science Teaching and Learning During a Methods Course. Paper presented at the annual meeting of the National Association for Research in Science Teaching. San Diego, CA

Nickles, D. (April, 1997) Thought Organizers on the WWW. Paper and interactive presentation for the National Science Teachers Association Conference. New Orleans, LA

Tushnet, N., Schwager, M., & Nickles, D. (November, 1995) Using Focus Work Groups. Paper Presented at the First International Evaluation Conference. Vancouver, BC

Nickles, D. (February, 1995) A Time for Developing Collaborative Partnerships. Paper presented at the National Diffusion Network Annual Conference. Washington, DC

Nickles, D. (April, 1994) Redesigning Science Instruction: A Tri-County Model Collaboration. Paper presented at the National Science Teachers Association Conference, Anaheim, CA

STATE, REGIONAL/LOCAL CONFERENCES

Inquiry Into Elementary Science Education: Applying the Generative Learning Model to a Methods Course Design. 9th Regional Symposium on University Teaching. CSU Dominguez Hills, CA (April, 2006)

Nickles, D. Inquiry Into Elementary Science Education: One Professors Method of Applying Action Research to a Methods Course Design. Conference on Excellence on Teaching and Learning. CSU Fresno, CA (March, 2006)

Jason Project. Mt. Diablo Unified School District Professional Development Day (September 2004)

Science Activity in the K-2 Classroom. Council of Science and Math Educators of San Mateo County annual conference (March 2004)

Jason XII Hawai'i': A Living Laboratory. Central Valley Technology Consortium, Fresno, CA (November, 2000), Salinas, CA (December, 2000)

Fhysics Fun from First to Fifth. California Science Teachers Association State Conference. Sacramento, CA (October, 2000)

Jason XII Explores Hawai'i's Living Lab. California Science Teachers Association State Conference. Sacramento, CA (October, 2000)

Facilitating Systemic Change in Science and Mathematics Education: A Toolkit for Professional Developers. California Mathematics Council's Asilomar Math Conference. Asilomar, CA (December 1995)

The New California Learning Assessment System (CLAS). San Mateo County Office of Education. Redwood City, CA (August 1995)

Using Technology as a Tool for science education. Northern California Elementary InTech Leadership Training, WestEd. San Francisco, CA (November 1994)

ADDITIONAL LIST OF PROFESSIONAL PRESENTATIONS AVAILABLE UPON REQUEST

SERVICE TO PUBLIC AGENCIES

California State University Long Beach

Single Subject Credential Program Advising (2006-2007)

California State University East Bay

Multiple Subjects Team Leader (2005)
Project SOAR - grant planning team (2005)
Committee work:
University - Faculty Equity and Diversity (2003-2006)
College - Faculty Safety and Emergency Preparedness (2004-06)
Department - Faculty and Student Affairs (2004-06), Sunshine (2003-06)
Phi Delta Kappa, Hayward Chapter - President, foundation representative (2005-2006); Treasurer, research representative (2004-2005); Board of Directors (2004-2006).

California State University Monterey Bay;

Mathematics Faculty Search (2001)
Search Committee, selection of teacher education faculty to develop and teach a secondary credential program (2000);

S.E.A. Lab Monterey Bay (Science Education Adventure), A model youth-oriented residential science camp focused on hands-on coastal and ocean experiences for student and teacher learning, Board of Directors (1999-2002)

Contra Costa County Association of Science and Mathematics Educators (C^3ASME) President, (1993 - 1995, 1998-99); C^3ASME Conference Chair (1992-1994, 1998-99), C^3ASME Treasurer (1995-1996)

California Science Teachers Association Board of Directors, C^3ASME Affiliate Representative (1993)

California Science Implementation Network ($CSIN_2$), a State Systemic Initiative program, Science Staff Developer (1993)

Science Education Academy of the Bay Area (SEABA), Executive Committee (1992-1993)

ADDITIONAL PROFESSIONAL ACTIVITIES

2006

Project MATS (Mastering the Art of Teaching Science), Principal Investigator. $25,000 teacher professional development project for Hayward USD funded by the Payne Family Foundation.

CSU System-wide Science Education Colloquium participant

2005

Forestry Institute for Teachers II coordinator, Quincy CA

2004

Project Learning Tree and Project Wet certification

Forestry Institute for Teachers II coordinator, Quincy CA

1999-2002

Trained mathematics teaching assistants for CSU Monterey Bay

Served on committee developing Freshman Collaborative Cohort courses for CSU Monterey Bay

Consultant to Curriculum Developer, S.E.A. Lab Monterey Bay residential science camp

Consultant and Coordinator for CA Program Quality Review

CA State Board of Education Certified Professional Development provider – mathematics content for teachers grades 4-7

BTSA support provider –science & mathematics

1997

Consultant to Curriculum Coordinator, Lower Moreland Township District for Elementary Science & Technology Professional Development workshop

1996

Consultant to WestEd Regional Eisenhower Consortium for evaluation of Utah Elementary Science Curriculum

1994-1995

WestEd evaluator to University of California, Irvine, Science Technology Society Program.

1991-1993

Bay Area Science Technology Leadership Academy Committee

Science Consultant to Hillcrest Elementary School

Consultant to California Science Implementation Network2

Science Curriculum consultant to the Oakley School District

Bay Area Region IV Science Coordinators Committee

Committee Chair, 1992 County Science Textbook Adoption Team

Consultant for California Program Quality Review process

Co-chaired Bay Region IV symposium *Math for High School, 1993*

ADMINISTRATIVE EXPERIENCE

California State University East Bay 2005-2006

Director, Project MATS (Mastering the Art of Teaching Science)

Multiple Subjects Team Leader – Cohort 81

California State University Monterey Bay 2001-2002

Coordinator, mathematics teaching assistants

Monterey County Office of Education, Monterey, CA 1999-2001

Curriculum Coordinator/Administrator, K-12 Science and Mathematics

Director, Monterey County Science & Engineering Fair (1999-2002)

Principal Investigator, Monterey Mathematics Professional Development Consortium Grant

Project Coordinator, the *JASON (science) PROJECT*

Principal Professional Development Provider, CA Mathematics and Science Standards and Frameworks

San Francisco State University, San Francisco, CA 1997-1999

K-12 Outreach Coordinator, MASTEP

Future Teachers Club Adviser, MASTEP

WestEd/ Far West Laboratory, San Francisco, CA 1993-1996

Research Associate, Far West Eisenhower Regional Consortium

Evaluator, University of California, Irvine, Science Technology Society program

Consultant, Nevada Science Education Advisory Committee

Consultant, National Diffusion Network

Consultant, Nevada School Network (Telecommunications) Advisory Committee

Consultant, Nevada Mathematics Council Advisory Committee

Contra Costa County Office of Education, Pleasant Hill, CA 1991-1993

Curriculum Consultant and Coordinator, K-12 Science and Mathematics

Science/Math Consultant, Contra Costa County Curriculum Council & Mathematics and Science Advisory Committees

EDUCATION

The Pennsylvania State University, University Park, PA

Ph.D. Curriculum and Instruction; Elementary Science Education emphasis (1999)

Dissertation: "A Case Study of Four Prospective Elementary Teachers' Conceptual Frameworks on Learning and Teaching Science during the Final Year of a Teacher Preparation Program."

California State University, Hayward, California

M.S. Education, Curriculum Option – Environmental Education (1984)

Certifications

California Preliminary Administrative Services Credential (1993)

California Single Subject Teaching Credential, Life Science, General Science, Forestry/Horticulture (1987)

California Community College Teaching Credential, Ecology, Forestry, Natural Resources (1984)

University of California Berkeley

Graduate studies – Wildland Resource Science (1981)

University of Illinois, Champaign, Illinois

B.S. (with honors) Forest Science (1979)

PROFESSIONAL RECOGNITION AND MEMBERSHIP

Outstanding Administrator Award, California Science Education Advisory Committee	October 2001
American Educational Research Association	(1996-present)
Association for Supervision and Curriculum Development	(1992-present)
Northern California Science Education Specialists	(1991-present)
California Science Teachers Association	(1985-present)
California Mathematics Council	(1986-2002)
National Science Teachers Association	(1985-2006)
National Association for Research in Science Teaching	(1998-2002)
Association for the Education of Teachers of Science	(1996-1997)
Elementary School Science Association	(1994-1996)
Phi Delta Kappa Honorary Society	(elected 1984)

SELECTED REFERENCES

James Mitchell, Assistant Professor and Graduate Coordinator, Teacher Education, California State University East Bay, Hayward, CA jmitchel@csuhayward.edu (800) 472-7140

Marsha Moroh, Dean, College of Science, Media, Arts and Technology, California State University Monterey Bay, Seaside, CA marsha_moroh@csumb.edu (831) 582-3640

Don Pierce, Director, Institute for Mathematical Sciences and Applications, California State University Monterey Bay, Seaside, CA donald_pierce@csumb.edu (831) 582-3713

Thomas M. Dana, Director, School of Teaching and Learning, University of Florida, Gainesville, FL tdana@ufl.edu (352) 392-9191x200