

## 2006 Science Primary Adoption CRP Applicants Recommended by the Curriculum Commission 12/02/05

cib-cfir-jan06item02  
Attachment 2  
Page 1 of 11

Number	Title	Employer
101	Research Associate, USC; Freelance education work	Mostly Retired

Highest Degree	Region	Gender
Ph.D Geophysics, USC	North	F

**Expertise**  
Expertise: Earth Science/Geophysics, Geology, Environmental Geology  
Teaching: College - Geology, Environmental Geology; taught 7th Grade through beginning Graduate School

**Summary**  
The candidate is semi-retired but is a part-time Research Associate at the University of Southern California doing research in paleomagnetism and environmental magnetism. She is also an education consultant working part-time on projects involving school improvement and science and mathematics standards, testing, and curriculum. She has taught a variety of math and science classes in grades 7 through beginning graduate school. She was involved in drafting the California Science Standards and reviewed all drafts of the document for the Standards Commission. She did fact checking on the Science Framework and has reviewed standards-aligned test items for the STAR program. She recently reviewed science standards in earth science from every state that has science standards (which is all but Iowa). She has a Ph.D. in Geophysics from the University of Southern California.

Number	Title	Employer
102	Professor and Curator	UC Berkeley

Highest Degree	Region	Gender
Ph.D. Biology, Yale	North	M

**Expertise**  
Expertise: Biology - particularly zoology, evolutionary biology, some botany, some ecology, paleontology; History of Science - particularly biology, paleontology, geology; Earth Sciences  
Teaching: 6th Grade - General Science; 7th Grade - Life Science; HS - Biology; UC Berkeley - Biology, Paleontology

**Summary**  
The candidate is a professor in the Department of Integrative Biology at UC Berkeley, teaching courses in Evolutionary Biology, Paleobiology, Evolution of the Vertebrates, Evolutionary Theory, and History of Biology. His research is in the origin and evolution of major evolutionary features. He is curator in the Museum of Paleontology and President of the National Center for Science Education. He has taught science in grades 6 through graduate school, including 25 years at UC Berkeley. He is a recognized leader in the field of Paleontology and Evolutionary Biology. He was involved in the construction of the current Science Standards, was a principal writer and editor of the 1990 Science Framework, and has served on three science adoption panels. He is the author of several hundred articles on science and science education and has served as a reviewer and member of the editorial board for a variety of national and international scientific societies and journals. He has a Ph.D. in Biology from Yale University.

## 2006 Science Primary Adoption CRP Applicants Recommended by the Curriculum Commission 12/02/05

cib-cfir-jan06item02  
Attachment 2  
Page 2 of 11

Number	Title	Employer
104	Adjunct Professor	Retired

Highest Degree	Region	Gender
Ph.D. Chemistry, UCLA	North	F

**Expertise**  
Expertise: Chemistry  
Teaching: University

**Summary**  
The candidate taught Chemistry at the University of California at Davis (UCD) from 1965-1995. After retiring in 1995, she continued to teach a course in Organic Chemistry until 2000. She has published over 35 papers on organosulfur, organophosphorous, mechanistic organic and pharmaceutical chemistry, coauthored an audiovisual series used in beginning chemistry courses at UCD, and published a Laboratory Manual, "Experiments for a Brief Course in Organic Chemistry," used by the UCD Department of Chemistry for sixteen years. She has also participated in the Chemical Education Division of the American Chemical Society. She has a Ph.D. in Chemistry from the University of California at Los Angeles.

Number	Title	Employer
105	Research Compliance Officer	VA San Diego Healthcare System

Highest Degree	Region	Gender
Ph.D. Pharmacological and Physiological Sciences, University of Chicago	South	M

**Expertise**  
Expertise: Physiology, Pharmacology, Psychology  
Teaching: University, Medical and Graduate level - lectures on physiology/pharmacology

**Summary**  
The candidate is a Research Compliance Officer at the San Diego Veterans Affairs Medical Center, reviewing human subject and animal protocols for ethical, scientific, and regulatory issues. He is an original member of the STAR Content Review Panel for Science and participated on the level-setting panel for grades 4-5 science in 2004. He is the author of over sixty publications in areas such as pharmacology and animal research. He has a Ph.D. in Pharmacological and Physiological Sciences from the University of Chicago.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
106	Adjunct Professor	National University (NU)

Highest Degree	Region	Gender
Ph.D. Molecular Biology, University of Hamburg	South	F

**Expertise**  
Expertise: Molecular Biology, Microbiology, General Biology

Teaching: Elementary (Nursery, Preschool, K-4) - Biology, Microbiology, Oceanography, Astronomy, Geology, Chemistry, Meteorology, Physics; High School (9th Grade) - Biology and Molecular Biology; University (Freshman-Senior level students) - Human Biology and Bioethics; Upper Division Nursing Students - Microbiology and Infectious Disease; Adult Learners in a Nursing Program - Microbiology

**Summary**  
The candidate is an Associate Professor of Science at National University and an Adjunct Professor of Biology at Point Loma Nazarene University, teaching courses in Microbiology and Infectious Disease, and Human Biology and Bioethics. She has taught preschool, elementary, high school, and university level students in the biological and physical sciences. She created a comprehensive science program for pre-K-4 aligned to the California Science Framework and has developed science curriculum for ninth grade and university courses in Biology and Microbiology. She has a Ph.D. in Molecular Biology from the University of Hamburg.

Number	Title	Employer
107	Teacher	Redondo Beach USD

Highest Degree	Region	Gender
Ph.D. Entomology, University of Kentucky	South	M

**Expertise**  
Teaching: High School (Grades 9-12) - Life and Physical Science; University Professor (Teacher Credential Programs) - Health, Math/Science Methods, K-12 Content Areas

**Summary**  
The candidate currently teaches 11th and 12th grade Anatomy and Physiology, and Sheltered and College Prep Biology at Redondo Union High School. He has also taught high school Chemistry, AP Chemistry, Physics, and Physical Science. For the past fifteen years, he has been a Professor of Education teaching methodology courses in the Teacher Credential Programs at Loyola Marymount and the University of Phoenix. He was Assistant Professor of Epidemiology and Public Health at the School of Public Health, Yale University of Medicine; Assistant Professor of Pathology at the University of Illinois; and Adjunct Professor of Biology at Loyola Marymount University. He has published 42 scientific peer review articles in various journals. He has a Ph.D. in Entomology from the University of Kentucky.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
108	Chief Scientist, Earth Sciences	Jet Propulsion Laboratory

Highest Degree	Region	Gender
Ph.D. Chemistry, Harvard University	South	M

**Expertise**  
Expertise: Earth Sciences, Physical Sciences, Atmospheric Chemistry, Climate  
Teaching: College - Introductory Laboratory Chemistry as Teaching Fellow/Guest Lecturer

**Summary**  
The candidate is the Chief Scientist for the Jet Propulsion Lab (JPL), serving as JPL's primary science contact to NASA's Earth-Sun Science Division. His research is focused on laboratory investigations of gas and particle reactions relevant to the Earth's stratosphere and troposphere. He has authored or co-authored over 50 scientific publications and has participated in a number of international assessments regarding global ozone depletion, aircraft impacts, and climate change. He has also participated on the team that assisted NASA in preparing its Earth Science Strategic Plan published in 2003. He has published numerous scientific articles. He has a Ph.D. in Chemistry from Harvard University.

Number	Title	Employer
109	Science Teacher - Grades 6, 7, 8	Saratoga Union SD

Highest Degree	Region	Gender
Ph.D. Developmental and Cell Biology, UC Irvine	North	F

**Expertise**  
Teaching: 7th grade - Life Science; Middle School - Earth and Physical Science; College - General Biology, Development Cell Biology, Genetics

**Summary**  
The candidate currently teaches 7th grade Life Science. She has also taught Earth Science and Physical Science in middle school. She has taught General Biology, Development and Cell Biology, and Genetics at the college level for over ten years. She has reviewed college-level textbooks and is familiar with the California Science Content Standards and the Science Framework from her work on the STAR Content Review Panel. She has a Ph.D. in Developmental and Cell Biology from the University of California at Irvine.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
110	Teacher	Fontana USD

Highest Degree	Region	Gender
Ph.D. Physics, University of Alabama	South	F

Expertise  
Teaching: Grades 9-12 - Physics and Chemistry; Community College - Physical Science, University Teachers Credentialing Program - Physics and Chemistry

Summary  
The candidate currently teaches Chemistry, AP Physics, Physical Science, and Algebra I and II at Kaiser High School. She also taught and developed the curriculum for Physics and Chemistry in the Teaching Credential Program at the University of California in Riverside Extension Center and taught Physical Science at Riverside Community College. She has a Ph.D. in Physics from the University of Alabama.

Number	Title	Employer
111	Senior Optical Engineering	NASA's Jet Propulsion Laboratory

Highest Degree	Region	Gender
M.S. Applied Physics, Clark-Atlanta University	South	M

Expertise  
Expertise: Physics, Computer Science, Laser Remote Sensing, Metrology, Interferometry, Interferometric Nulling Optics, Mathematics, Physical Science (including General Science), Computer Technology  
Teaching: High School/Adult Ed. - Mathematics, Physical Science including General Science, Computer Technology; University Professor - Physics, Computer Science

Summary  
The candidate is a System Engineering Analyst for the Space Interferometry Mission (SIM) External Metrology (a program to determine the positions and distances of stars). He is an Adjunct Professor of Physics at California State Dominguez Hills and Computer Science at Santa Monica College. He also serves on Los Angeles City College's Department of Computer Science and Santa Monica College's School of Business (Computer Science/Information Science Department) advisory board for curriculum development. He is Deputy Manager of the Strategic University Research Programs Office and works with colleges and universities to formulate effective curriculum and texts in the areas of science, technology, engineering, and mathematics. As a member of the Technology Advisory Committee for the California Department of Education, he helped formulate a plan to improve student achievement in California through the use of technology. He has an M.S. degree in Applied Physics from Clark-Atlanta University.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
112	Science Teacher	Turlock HS

Highest Degree	Region	Gender
Ph.D. Chemistry, University of Missouri	North	F

**Expertise**  
Expertise: Physical Science, Chemistry, Physics

Teaching: Grade 9-12 - Physical Science; Grade 10-12 - Chemistry; Grade 11-12 - Physics, AP Physics, AP Chemistry; College - Chemistry, Physical Science, Physics Labs

**Summary**  
The candidate teaches college prep Chemistry, AP Chemistry, and Physics and will be the coach for the Science Olympiad and Science Bowl teams at Turlock High School. She was an Adjunct Instructor in Chemistry and Physics at the California State University at Stanislaus and the University of Central Florida, as well as Adjunct Professor in Chemistry at Valencia Community College and Seminole Community College. She has a Ph.D. in Chemistry from the University of Missouri.

Number	Title	Employer
113		Self Employed

Highest Degree	Region	Gender
Ph.D. Physics, Columbia University	North	M

**Expertise**  
Expertise: Physics, Astronomy, Astrophysics

Teaching: 8th Grade - Physical Science

**Summary**  
The candidate is the Principal of Tramiel Capital Inc. Prior to that, he was the Vice President of Software Development for Atari Corporation. During the 2000 Science Adoption, he independently reviewed the 8th grade texts, uncovering many factual errors. Since that time he has testified before the Curriculum Commission and the SBE on a variety of issues regarding science education. He teaches astronomy, as a volunteer, under the auspices of Project Astro, sponsored by the Astronomical Society of the Pacific and is a volunteer at the Chabot Space and Science Center. He has a Ph.D. in Physics from Columbia University.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
114	Professor of Physics	University of Southern California

Highest Degree	Region	Gender
Ph.D. Physics, Cornell	South	M

**Expertise**  
Expertise: Physics  
Teaching: College [Undergraduate (all four yrs)/Graduate (first years/research laboratory)] - Physics

**Summary**  
The candidate is a Professor of Physics and Astronomy at the University of Southern California. He has participated in the California Science Fair for twenty-three years. He is the publisher of numerous articles on Physics. He has a Ph.D. in Physics from Cornell University.

Number	Title	Employer
115	Science Teacher (High School)	Ojai USD

Highest Degree	Region	Gender
Ph.D. Microbiology and Biochemistry, University of Deli M.S. (Major: Botany, Microbiology, Biochemistry), University of Delhi	South	F

**Expertise**  
Expertise: Microbiology, Biochemistry  
Teaching: 9th Grade - Physical Science; 10th Grade - Biology; 11th Grade - Chemistry, Chemistry Honors; 9th, 10th, 12th Grades - Sheltered Science, Chemistry, Biology (in India)

**Summary**  
The candidate teaches Chemistry, Biology, and Physical Science at Nordhoff High School. Prior to that, she was a scientist/chemist for several Corporate Laboratories. She has a Ph.D. in Microbiology and Biochemistry from the University of Deli.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
116	Teacher, Dept. Chair	El-Tejon USD

Highest Degree	Region	Gender
Ph.D. Animal Science/Reproductive Physiology, Washington State University	South	M

**Expertise**  
Expertise: Biology

Teaching:  
High School: 9th grade - Physical Science, 10th grade - Biology Gate; 11th grade - Chemistry, Chemistry Honors; 12th grade - Physics, Physics Honors  
College/University: Life Science (Undergraduates); Pathophysiology of Reproduction (Graduate, Veterinary School); Curriculum and Methods in Teaching Science Single Subject (Graduate, Teacher Ed)

**Summary**  
The candidate currently teaches High School Biology, Chemistry, and Agriculture and has served for nine years as Department Chair for Mathematics, Science, and Agriculture at Frazier Mountain High School. He was Chairman of the Science Adoption Committee for the El-Tejon Unified School District. He was Adjunct Assistant Professor of Veterinary Medicine at Tufts University, and is currently Adjunct Faculty/Area Science Chair for the University of Phoenix, Bakersfield Campus. He has a Ph.D. in Animal Science/Reproductive Physiology from Washington State University.

Number	Title	Employer
117	Integrated Science Teacher - 10th Grade	LAUSD

Highest Degree	Region	Gender
Ph.D. Biological Sciences, UC Irvine	South	F

**Expertise**  
Expertise: Biology

Teaching: K-6 Integrated Science; Middle School - Biological Science; High School - Biological Science and Integrated Science; College - Biological Science/Psychobiology

**Summary**  
The candidate currently teaches tenth grade Integrated Science at a project-based International Polytechnic High School. She has experience teaching science education at grades K-12 and also college level. She has a Ph.D. in Biological Sciences from UC Irvine.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
118	Teacher	San Diego USD

Highest Degree	Region	Gender
Ph.D. Molecular Biology, UC San Diego	South	F

**Expertise**  
Expertise: Biology  
Teaching: High School - Advanced Placement Biology, Biology

**Summary**  
The candidate is currently serving her last year on the Curriculum Commission as Chair of the Science Subject Matter Committee. She currently teaches all levels of high school biology, is department chair, and the advisor for the Science Olympiad teams and for the Academic League teams. She was an Undergraduate/Graduate Teaching Assistant teaching lab classes and discussion sessions. She has served as SMC Chair for the 2004 Health Adoption and as Commissioner Facilitator for the 2005 History-Social Science Adoption. She has participated in district adoption panels for Advanced Biology in 2000 and Advanced Placement Biology in 2004-05. The candidate has served as a Science Assessment Review Panelist for the State since 1998. She has a Ph.D. in Molecular Biology from UC San Diego.

Number	Title	Employer
119	Teacher	Temecula Valley USD

Highest Degree	Region	Gender
Ph.D., Neuroscience, University of Salford, Salford, England	South	F

**Expertise**  
Expertise: Biology/Life Sciences  
Teaching: Grade 4, Grade 5, Grades 6-7, Grade 8, High (Grades 9-12)

**Summary**  
The candidate has taught 7th and 8th grade science over the last six years and currently teaches 7th grade life science. The candidate served on the science committees in two districts, participating in district and site-based teacher training programs in the Science Framework and the implementation of aligned curriculums. As a science resource teacher at a science, math, and technology magnet school, the candidate designed and modeled lessons aligned with the Science Framework. Recently, the candidate participated in the adoption of a science textbook at the middle school level and evaluated its alignment with the Science Content Standards. The candidate has a B.S. degree in Zoology, a Ph.D. in Neuroscience, and a credential in Life Sciences.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
120	Postdoctoral Scholar	University of California, San Diego

Highest Degree	Region	Gender
Ph.D., Biology with Biochemistry training, UC San Diego	South	M

**Expertise**  
Expertise: Biology, Molecular and Cellular Biology, Immunology, Biochemistry, Stem Cell Biology  
Teaching: General Chemistry, Organic Chemistry, Bacteriology, Molecular Biology, Biochemistry (college-level)

**Summary**  
The candidate is currently a postdoctoral scholar in the laboratory of Dr. David Traver at UC San Diego and is a mentor to the lab staff. He was a Graduate Teaching Assistant for courses in Molecular Biology and Bacteriology, and taught undergraduate courses in General and Organic Chemistry. He has authored several articles on molecular biology, immunology, and biological chemistry. The candidate has a Ph.D. in Biology from the University of California, San Diego.

Number	Title	Employer
121	Chemistry Teacher	San Rafael City Schools

Highest Degree	Region	Gender
Ph.D., Chemistry, Oregon State University	North	M

**Expertise**  
Expertise: Chemistry  
Teaching: College - Upper Division Chemistry; High School - College Prep, Honors, and Advanced Placement Chemistry

**Summary**  
This is the candidate's seventh year teaching high school College Prep, Honors, and Advanced Placement Chemistry classes. He was Chair of the Science Department for two years and has participated in alignment of textbooks and curriculum to the content standards and the Science Framework for his district. The candidate has taught college classes in General Chemistry Lab, Physical Chemistry, and Instrumental Analysis. Prior to that, he had a twenty-five year career in Product Development, Marketing, Sales, and General Management for large and small companies. The candidate has a Ph.D. in Chemistry from Oregon State University.

**2006 Science Primary Adoption CRP Applicants  
Recommended by the Curriculum Commission 12/02/05**

Number	Title	Employer
122	Program Manager, Science	San Diego City Schools

Highest Degree	Region	Gender
Ph.D. Zoology, UC Berkeley	South	F

**Expertise**

Expertise: Biology/Life Sciences

Teaching: Grade 8, High (Grades 9-12)

**Summary**

The candidate has taught science in grades 7 and 8 and high school biology, and is currently the high school science coordinator for San Diego City Schools. She coordinates curriculum adoptions, and provides professional development to teachers as new materials are implemented. She has also taught college biology courses and several elementary summer science programs. She has a B.A. degree in Biology and a Ph.D. in Zoology.