

Paul K. Shin, Ph.D.

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EDUCATION

- 1993-95 Postdoctoral Research Scholar, Department of Chemistry & Biochemistry, University of California at Los Angeles (UCLA) with Joan Valentine
- 1986-93 **Ph.D.** (Chemistry) Department of Chemistry, Colorado State University (CSU)- Debbie Crans (dissertation advisor)
- 1981-86 **B.A.** (Chemistry) Crown College, University of California at Santa Cruz (UCSC)- Ken Bruland (thesis advisor)

PROFESSIONAL EMPLOYMENT/ TEACHING EXPERIENCE

- Present Chemical Instrumentation Manager and Instructor in the Department of Chemistry and Biochemistry, California State University, Northridge (CSUN- since 02/2003)
Maintain the departmental instrumentation and trained students and faculty to use the chemical instrumentation as needed- also taught 3 courses of Principles of Chemistry (Chemistry 100) course
- Present Adjunct Assistant Professor of Chemistry at Los Angeles City College (John Freitas, Chair- since 02/2005)
Taught Fundamentals of Chemistry (Chemistry 51) course
- 2004 Fall Adjunct Instructor at Whittier College (Priscilla Bell, Chair)
Taught Instrumental Analysis (Chemistry 442) course with lab
- 2003 Spr Adjunct Instructor of Chemistry at Pierce College (Isadore Goodman, Chair)
Taught Fundamentals of Chemistry (Chemistry 51) course with lab
- 2001-03 Technical Sales Representative (Western Region) for Bruker BioSpin Corporation
- 2000-01 Applications Engineer (Western Region) for Bruker BioSpin Corporation
- 1998-2000 Instrumentation Facilities Manager at Occidental College
- 1996-98 Chemistry Teacher at Crespi Carmelite High School- a private high school
Developed curricula for and taught Chemistry, Physics, General Science and both Advanced Placement (AP) Chemistry and AP Physics courses
- 1995-2000 Adjunct Professor of Chemistry at West Los Angeles College (WLAC- Steven Fink, Chair)
Taught 8 chemistry courses with lab (Chemistry 51, 60 & 102)
- 1995-96 Chemistry Teacher at The Buckley School- a private K-12 school
Developed curricula for and taught Introductory, General and AP Chemistry courses in the upper school
- 1995 Instructor at Dr. Seomun's Smart Institute of Technology (Los Angeles, CA)
Prepared advanced high school students for the SAT II Exam in Chemistry
- 1993-95 Postdoctoral Research Scholar, Department of Chemistry & Biochemistry, UCLA
- 1991 Advance Science teacher for American Indian Upward Bound (AIUB) at the University of Colorado (CU), Boulder summer program
Developed curriculum for and taught chemistry and physics to Native American students from across the country.
- 1989 Graduate Student Mentor in the Howard Hughes Memorial Research Program at CSU
Mentor of a high school student to promote understanding of and participation in college level research
- 1988-90 Technical Assistant for the departmental Nuclear Magnetic Resonance (NMR) and Mass Spectroscopy (MS) Instrumentation lab facilities at CSU
- 1987 Teaching Assistant for "Enzyme Catalyzed Synthesis," a workshop designed for Syntex (now Amgen- a biotechnology company in Boulder, CO) at the Department of Chemistry, CSU
Taught enzyme catalytic techniques to produce and isolate biologically relevant organic compounds to research scientists from the Syntex Corporation
- 1986-92 Graduate Teaching Assistant at the Department of Chemistry, CSU
Taught almost every laboratory course as well as recitation sections for undergraduate courses offered: lab courses included instrumental, physical, organic and advanced organic labs in addition to several general chemistry labs
- 1986-93 Graduate Research Assistant at the Department of Chemistry, CSU

1984-86 Teaching Assistant for introductory chemistry course for science majors in the undergraduate teaching program at UCSC
Taught as recitation instructor for the introductory chemistry courses. Responsible for all grading except for lab

HONORS AND AWARDS

6/6/2009 2008 Reserve Officer of the Year for the Emergency Services Division (Hazardous Materials Unit) of the Los Angeles Police Department (LAPD)
2/17/2009 Certificate of Appreciate bestowed by the LAPD
1997 Outstanding High School Teacher of America Award
1991 Graduate Student Teaching Fellowship, Department of Chemistry, CSU
1991 Outstanding Graduate Student Teaching Assistant Award, Department of Chemistry, CSU
1988 Outstanding Young Men of America Award
1986 Two year Minority Graduate Fellowship, Graduate Division, CSU
1986 Gene Cota-Robles Award for Most Promising Minority Student Pursuing a Graduate Education in the Natural Sciences from Crown College, UCSC
1981 Vallecitos Nuclear Center (VNC) Scholarship Award from the General Electric VNC Scholarship Committee
1981 Bausch & Lomb Honorary Science Award from Dublin High School

CSUN ACTIVITIES

Present Webmaster for the Department of Chemistry and Biochemistry, CSUN (since 2006)
Present Safety Officer for the Department of Chemistry and Biochemistry, CSUN (since 2006)
Present Library Liaison for the Department of Chemistry and Biochemistry, CSUN (since 2006)
Present Serving on M.S. candidates Thesis Committees in the Department of Chemistry and Biochemistry
07/24/09 Provided Department tours for SAPESS (Summer Academic Program for Elementary School Students) students
Jul 2009 Department liaison to the CSUN Upward Bound- provide lab experience and demonstrations to program students
05/29/09 Assisted with the Department Graduate Student Recruitment event
04/28/09 Volunteer at CERT Emergency Preparedness & Crime Prevention Fair on CSUN campus
Nov 2008 Provided training for the Great American Shakeout- Emergency Response Training to the Chemistry and Biochemistry Department faculty and staff
10/08/08 Host for the Consortium of Technical Responders meeting held at CSUN
2007 Fall Chair, College of Science and Mathematics Committee to fill the Information Technology II Position
2007 Assistant Organizer in the ACS sponsored POGIL workshop (6/11-6/14)

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

Present Specialist Reserve Officer for the Hazardous Materials Unit, Los Angeles Police Department (LAPD- since 2006)
Present Member of the Consortium of Technical Responders for the Los Angeles County region (since 2006)
Present Volunteer CSUN Community Emergency Response Team (CERT) member (since 2005)
Present Member of the American Chemical Society (ACS- since 1985)
Present Chair Elect (2009) of the Southern California Section of the American Chemical Society (SCALACS)
Present Chair (2010) of SCALACS
Present Chair of the Educational Affairs Committee for SCALACS (2001 year and since 6/2002)
Present Elected Member at Large of the Executive Committee for SCALACS Elected Member at Large of the Executive Committee for SCALACS (2008-2010 and 2000-2002 terms)
Present Director Pro Tem of the SoCal Science Café (since December 2008- member since March 2008)
Present Speaker with the ACS National Speaker Tour (since 12/2005)
Present ACS Representative to the Chemistry Teacher Support (CTS) group sponsored by Judie Baumwirt of Granada Hills Charter High School (since 2005)
Present Associate Member/Member of the American Association for the Advancement of Science (AAAS- since 2008 and 1988-96)
Present Associate Member of Sigma Xi, The Scientific Research Society (since 2008 and 1988-95)
Present Steering Committee member for the Southern California Users of Magnets (CSUM) NMR users group (since 1998)
Present Reviewer for the Journal of Chemical Education (since 1998)
Present Subscriber to/participant of the CHEMED-L listserv (since 1998)

- Present Subscriber to/participant of the HSCHEM listserv (since 2006)
- Present Subscriber to/participant of the LabSafety listserv (since 2006)
- Present Subscriber to/participant of the CONFCHEM listserv (since 2003)
- Present Judge at the Science Fair for the Delphi Academy in Lake View Terrace, California (since 1985)
- 2005-07 Content Specialist (Chemistry) for the American Board for Certification of Teacher Excellence (ABCTE)
- 1987-95 Member of the Society for Applied Spectroscopy
- 1989-90 President of the Chemistry Graduate Student Organization (CSU)
- 1986-92 Graduate Student Advisor for SAACS at CSU
- 1985-86 President of the Student Affiliates of the American Chemical Society (SAACS) at UCSC

PROFESSIONAL PRESENTATIONS/ACTIVITIES, PUBLICATIONS AND GRANTS

Recent publications, Grants and presentations

- Bakshi, M.S.; Sood, R.; Ranganathan, R.; Shin P. "ESR and NMR studies of poly (amidoamine) dendrimers with ionic surfactants in different media" *Colloid & Polymer Science* **2005**, 284, 58.
- "MRI/RUI Acquisition of a Liquid Chromatograph-Mass Spectrometer to Support Chemistry Research at California State University, Northridge" NSF-MRI grant (0521688) awarded to Eric Kelson, Sheri Lillard and Paul Shin (2005-2008)
- Present SCALACS/ACS representative to COPUS (Coalition On the Public Understanding of Science)- preparing for the November 2009 Chemistry theme in the 2009 Year of Science celebration
- Jul 2009 Selected evaluator of the HazCat Kit produced by Haztech Systems- for unknown chemical detection and determination
- 07/26/09 Participant in the San Diego Science Festival "Meeting of the Minds" planning event for the 2010 SD Science Festival (as the SCALACS representative)
- Jun 2009 Certified HazMat Specialist/Educator Refresher/Recertification Course #227- certified completion
- Apr 2009 Chemical/Biological Weapons of Mass Destruction Training at Dugway, UT (LAPD HazMat)
- 03/08/09 SCALACS representative at the Sallie Ride Festival (since 2005)
- 02/14/09 Presented the talk "*Close to the Edge: A Chemist's Role as a Specialist Reserve Officer in the LAPD HazMat Unit*" for the Mensa Mini Greater Los Angeles Area Mensa (GLAAM) Regional Gathering
- Jan 2009 Participant in the ACS Leadership Conference as the Chair-Elect for SCALACS (Fort Worth, TX)
- Nov 2008 Panelist for the Workshop on Increasing Participation of Hispanic Undergraduate Students in Chemistry sponsored by the ACS Committee on Professional Training and Committee on Minority Affairs
- Sep 2008 Presented the Outstanding High School Chemistry Teacher Award by the Western Region of the ACS to Judith Flint-Baumwurt (Las Vegas, NV)
- 04/09/08 Presented the talk "*Close to the Edge: A Chemist's Role as a Specialist Reserve Officer in the LAPD HazMat Unit*" for the Department of Chemistry and Geosciences Seminar Series at Los Angeles City College
- 01/30/08 Presented the talk "*Close to the Edge: My Experience as a Specialist Reserve Officer in the LAPD HazMat Unit*" at the January Dinner Meeting of the Southern California Section of the American Chemical Society (SCALACS)
- Jan 2008 Radiological/Nuclear Weapons of Mass Destruction Training at Las Vegas/Mercury, NV (LAPD HazMat)
- 04/21/07 Invited Speaker at the CSUN Earth Day Event- talk entitled, "*Recycling: Chemists We All Can!*"
- 02/17/07 Presented the talk "*Pseudoscience: What it is and what it isn't*" at the Greater Los Angeles Teachers of Science Association (GLATSA) Conference at Bravo Medical Magnet High School, Los Angeles
- 09/13/06 Organized the symposium "*Pseudoscience: What it is and what it isn't*" at the Fall 2006 ACS national meeting in San Francisco, CA.
- 06/20/06 Presented the talk "*Pseudoscience and the Importance of Common Sense*" at the 87th Annual Meeting of the American Association for the Advancement of Science (AAAS) Pacific Division in San Diego, CA.
- 01/22/06 Presented the talk "*Water, Water Everywhere, Caveat Emptor, Buyer Beware; An Ongoing Example of Pseudoscience*" at the Spring 2006 Western Regional ACS meeting in Anaheim, CA.
- 04/22/05 Judge at the Los Angeles County Science Fair
- 03/13/05 Presented the talk "*Caveat emptor: Hexagonal water; An example of the recognition and confronting of chemical Chicanery*" at the Spring 2005 National ACS meeting in San Diego, CA.
- 01/26/05 Presented the talk "*Water, Water Everywhere, Caveat Emptor, Buyer Beware*" at the January Dinner Meeting of the Southern California Section of the American Chemical Society (SCALACS)
- 10/23/04 Presented the talk "*Water, Water Everywhere, Caveat Emptor, Buyer Beware; An Ongoing Example of Pseudoscience*" at the **High School Chemistry Teacher Support Group Meeting at Granada Hills High School**

- 10/09/04 Presented the talk "*Caveat Emptor: A Story of ¹⁷O NMR and Hexagonal Water*" at the Southern California Users of Magnets (NMR) conference at CalTech
- 1995 Participant in several local area workshops for the Advance Placement program for chemistry presented by The College Board
- 1994 Selected participant in the "Inorganic Biochemistry Summer Workshop" at the University of Georgia in Athens, Georgia. A tutorial on the theoretical and practical aspects of studying bioinorganic systems
- 10/4/91 Organizer of "Career Insight Day: Chemistry and Natural Science Symposium" (an ACS Roadshow) sponsored by the Younger Chemist Committee of the ACS, The Department of Chemistry at CSU and the Student Affiliates of the American Chemical Society (SAACS) at CSU
- 1988-90 Judge at the Longs Peak Science Fair of Northern Colorado held at the University of Northern Colorado in Greeley, Colorado

A list of my previous publications and presentations (14) can be supplied upon request.

REFERENCES Letters available upon request