

CURRICULUM VITAE

Lynn M. Tashiro

Address

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Education

Stanford University	Applied Physics	Ph.D. 1990
Stanford University	Applied Physics	M.S. 1986
University of California Los Angeles	Physics and Mathematics	B.S. 1984

Professional Experience: Science

2007 – present	Director of University Freshman Programs
2005 – present	Full Professor of Physics, CSU Sacramento
1996 - 2005	Associate Professor of Physics, CSU Sacramento
1991 - 1996	Assistant Professor of Physics, CSU, Sacramento
1989 - 1991	International Sales and Marketing Manager, Coherent Inc. Scientific Laser Group
1985 -1989	Graduate Research Assistant, Stanford University, Department of Applied Physics and Department of Chemistry
1984 - 1985	Microwave Engineer, Hughes Aircraft Co. Missile Systems Group – Receivers, Exciters, and Transmitters Department.

Professional Experience: University Programs

2003- present	Faculty Coordinator for the University Learning Community Program
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Publications and Presentations

Science Education

Paper published in American Institute of Physics monograph “The Role of Physics Departments in Preparing K-12 Teachers”. Paper titled “How can a Physics course for non-majors and pre-service K-8 teachers engage students in the process of scientific inquiry? A case study in collaborative curriculum design and implementation”, pages 7-42, 2000. ISBN#1-56396-985-8

Publications and Presentations: Science Education (continued)

Paper presented at AAPT (American Association of Physics Teachers) and NARST (National Association for Research on Science Teaching) 2001 Annual Conferences. Paper entitled "The effect of Inquiry on College Students' Ability to Pose Testable Scientific Questions" Lynn M. Tashiro & David Jelinek.

Invited project presentation at NSF (National Science Foundation) Annual Conference of Principal Investigators from Collaboratives for Excellence in Teacher Preparation (CETP). Presentation entitled "A Collaboration Model for Improving the Teaching of Science Content and Science Methods for Pre-service K-8 Teachers. April 2001

Publications: Nonlinear Optics and Laser Molecular Spectroscopy

"The HF and DF $B^1\Sigma^+ - X^1\Sigma^+$ and $C^1\Pi - X^1\Sigma^+$ Band Systems studied by 1 XUV + 1 UV Resonance Enhanced Multiphoton Ionization", L. M. Tashiro, W. Ubachs, R.N. Zare, Journal of Molecular Spectroscopy, 138, 89-101 (1989)

"Study of the $N_2b1\Pi_u$ state via 1 + 1 Multiphoton Ionization", W. Ubachs, L. M. Tashiro, R.N. Zare, Chemical Physics, 130 1-13, (1989)

"A General Purpose XUV Laser Spectrometer: Some Applications to N_2 , O_2 , and CO_2 ", W. E. Ernst, T. P. Softley, L. M. Tashiro, R. N. Zare, Chemical Physics, 116, 299-309 (1987)

"XUV Laser Spectroscopy of Xe Autoionizing Rydberg States" T. P. Softley, W. E. Ernst, L. M. Tashiro, R. N. Zare, International Laser Science II. Vol. 160, 185-187, 1986

Relevant Grants and Projects:

Principle Investigator for Hewlett-Packard Technology for Teaching Leadership Grant. \$194,000 Together with faculty in the College of Education I am integrating mobile and tablet computer technology in the science curriculum for pre-service K-8 teachers. Mobile data acquisition and electronic laboratory journals are currently under development. (2005-present)

Principle Investigator for National Science Foundation project C-CUESST (A College Curriculum for Elementary School Science Teachers). As PI I managed the \$247,000 budget and an interdisciplinary collaborative team to design, implement, and assess an inquiry based physics course for pre-service elementary school teachers. (1998- 2002)

Co-Principle Investigator for National Science Foundation project : "Developing a Computer Based Laboratory/Discussion Facility for General Physics", As co-PI I assisted in management of the \$30,000 NSF budget and matching \$30,000 university budget to create a microcomputer based Physics laboratory course for life science majors. (1998-2001)