

2007 – 2008
ANNUAL REPORT TO THE PROVOST

College of Science and Mathematics

APPENDIX C:

FACULTY AND PROFESSIONAL STAFF ACTIVITY

Publications 2007-2008

Biology Department

Blumenshine, S., A. Piumsonboon, V. Gunbua, and N. Paphavasit. 2007. Factors affecting spatial and temporal variation in water quality and plankton: Case study in the Bangpakong River. *Thailand Journal of Science* 11-27.

Andrews, A.H., L.A. Kerr, **G.M. Cailliet**, T.A. Brown, C.C. Lundstrom, and R.D. Stanley. 2007. Age validation of canary rockfish (*Sebastes pinniger*) using two independent otolith techniques: lead-radium and bomb radiocarbon dating. *Marine and Freshwater Research* 58: 531–541.

Flammang, B.E., D.A. Ebert and **G.M. Cailliet**. 2007. Egg cases of the genus *Apristurus* (Chondrichthyes: Scyliorhinidae): phylogenetic and ecological implications. *Zoology* 110: 308-317.

Flammang, B.E., D.A. Ebert, and **G.M. Cailliet**. 2008. Reproductive biology of deep-sea catsharks (Chondrichthyes: Scyliorhinidae) in the eastern North Pacific. *Environmental Biology of Fishes* 81:35-49.

Smith, S.E., R.C. Rasmussen, D.A. Ramon, and **G.M. Cailliet**. 2008. Biology and ecology of thresher sharks (Family: Alopiidae). Chapter 4. In: *Sharks of the Open Ocean: Biology, Fisheries and Conservation*. M. Camhi, E. Pikitch, and E. Babcock, editors. *Fish and Aquatic Resource Series* 13, Blackwell Publishing, 530 pages.

Tracey, D.M., H. Neil, P. Marriott, A.H. Andrews, **G.M. Cailliet**, and J.A. Sanchez. 2008. Age and growth of two genera of deep-sea bamboo corals (Family Isididae) in New Zealand Waters. *Bulletin of Marine Science* 81(3):393-408.

Smith, W.D., **G.M. Cailliet**, and E. Cortés. *In Press*. Demography and elasticity of the diamond stingray, *Dasyatis dipterura*: parameter uncertainty and resilience to fishing pressure. *Marine and Freshwater Research*, Resubmitted after acceptance with revision.

Jong Cheol Kim, H el ene Laparra, **Alejandro Calder on-Urrea**, John P. Mottinger, Maria A. Moreno, and Stephen L. Dellaporta. (2007). Cell cycle arrest of stamen initials in maize sex determination. *Genetics* 177, 2547-2551.

T. Kurimoto, T., **JVH. Constable**, S Hood, A Huda. 2007. Response of *Arabidopsis thaliana* to Ionizing Radiation. In: Nuclear Physics Methods and Accelerators in Biology and Medicine-2007, AIP Conference Proceedings, Vol. 958, *American Institute of Physics, New York, USA*) pp. 290-291.

Attum O, Carranza S, Baha El Din, S, **Earley RL**, Arnold EN, Kingsbury E. (2007). An evaluation of the taxonomic validity of *Testudo wernerii*. *Amphibia-Reptilia* 28: 393-401.

Bonnie KE & **Earley RL** (2007). Expanding the scope of social information use. *Animal Behaviour* 74: 171-181.

Earley RL (in press). Instructor's Manual to accompany *Principles of Animal Behavior* (2nd Edition) by Lee Alan Dugatkin, W.W. Norton & Co., due to be published in 2008.

Earley RL & Bonnie KE (in press). Puzzling over social information: how animals put the pieces together. *Oikos, invited submission*, special issue on "Ecology of Information".

Earley RL & Dugatkin LA (in press). Social organization. In: *Evolutionary Behavioral Ecology* (eds. D.F. Westneat & C.W. Fox), due to be published in 2008

Earley RL & Hsu Y. (2008). Reciprocity between endocrine state and contest behavior in the killifish, *Kryptolebias marmoratus*. *Hormones & Behavior* 53: 442-451.

Lorenzi V, **Earley RL**, Pepper DR & Grober MS (2008). Diurnal rhythms of cortisol, 11-ketotestosterone, testosterone, and estradiol in the bluebanded goby (*Lythrypnus dalli*). *General and Comparative Endocrinology* 155: 438-446.

Reiserer RS, Schuett GW & **Earley RL** (2008). Dynamic aggregations of newborn sibling rattlesnakes exhibit stable thermoregulatory properties. *Journal of Zoology* 274: 277-283.

Smith CF, Schwenk K, **Earley RL**, Schuett GW (2008). Sexual dimorphism of the tongue in a North American pitviper. *Journal of Zoology* 274: 367-374.

Walker, J. S.^G, Balling, R. C. Jr., Briggs, J. M., **Katti, M.**, Warren, P. S., Wentz, E. A. 2008. Birds of a feather: interpolating distribution patterns of urban birds. *Computers, Environment, and Urban Systems*. 32: 19-28.

Anderies, J. M., **Katti, M.**, and E. Shochat. 2007. Living in the city: Resource availability, predation, and bird population dynamics in urban areas. *Journal of Theoretical Biology* 247: 36-49

Zald, H.S.J., A.N. Gray, M. North and **R.A. Kern**. In Press April 2008. Initial Tree Regeneration Responses to Fire and Thinning Treatments in a Sierra Nevada Mixed Conifer Forest, USA. *Forest Ecology and Management*. Accepted April 2008.

Fontaine E., Lentink D., Kranenbarg S., **Müller U.K.**, van Leeuwen J.L., Barr A.H. , Burdick J.W. (2008) Automated visual tracking for studying the ontogeny of zebrafish swimming. *J. Experimenta. Biology* 211,1305-1316.

Glosier, B.R.^G, E.A. Ogundiwin, G.S. Sidhu, D.R. Sisco^U, and **J.P. Prince**. 2007. A differential series of pepper (*Capsicum annuum*) lines delineates fourteen physiological races of *Phytophthora capsici*. *Euphytica*, 10.1007/s10681-007-9532-1.

Donnelly, LM^G, Jenderek, MM, **Prince, JP**, Reeves, PA, Brown, A, and Hannan, R. 2007. Genetic diversity in the USDA *Limnanthes* germplasm collection assessed by simple sequence repeats. *Plant Genetic Resources*. Accepted with minor revisions.

Rawat M, C. Johnson^G, V. Cadiz^G, Y Av-Gay. 2007. Comparative analysis of mutants disrupted in mycothiol biosynthesis. *Biochemistry and Biophysical Research Communications* 363:71-76.

Miller C, T Johnson^U, **M Rawat**, Y Av-Gay. 2007. Innate protection of *Mycobacterium smegmatis* against the antimicrobial activity of nitric oxide is provided by the low molecular weight thiol mycothiol. *Antimicrobial Agents and Chemotherapy* 51:3364-3366.

Lopez D^G, L Daniels, **M Rawat**. 2007. *Mycobacterium smegmatis* mc² 155 fbiC and MSMEG_2391 are involved in triphenylmethane dye decolorization. *Microbiology* 153: 2724-2732.

Riley, L. G., Fox, B. K., Breves, J.P., Dorrough, C. P.^U, Kaiya, H., Hirano, T., Grau, E. G. 2008. Absence of Effects of Short-Term Fasting on Plasma Ghrelin and Brain Expression of Ghrelin Receptors in the Tilapia, *Oreochromis mossambicus*. *Zoological Science* (accepted).

Chemistry Department

Joseph F. Parker, **Jai-Pil Choi**, Wei Wang, and Royce W. Murray. 2008. Electron Self-Exchange Dynamics of the Nanoparticle Couple Au₂₅(SC₂Ph)_{180/1}- By Nuclear Magnetic Resonance Line-Broadening, Submitted to *Journal of the American Chemical Society* for publication in March, 2008.

William K. Carlton, **Barry Gump**, Kenneth Fugelsang and **Alam S. Hasson**. 2007. Monitoring Acetaldehyde Concentrations during Micro-oxygenation of Red Wine by Headspace Solid-Phase Microextraction with On-Fiber Derivatization. *Journal of Agricultural Food Chemistry* 55, 5620-5625.

E.Y. Lau and **V.V.Krishnan**. 2007. Temperature dependence of protein hydration hydrodynamics by molecular dynamics simulations. *Biophysical Chemistry* 130, 55-64.

V.V. Krishnan. 2007. "Homonuclear NMR experiments for screening of potential drug Molecules. *The ViPLOK Journal* 1, 1-14.

S.P. Mielke and **V.V. Krishnan**. 2007. Superhelical denaturation of DNA: A theoretical Perspective. *Trends in Chemical Physics* 13, 29-40.

Walker, P.L., **Miller, K.W.P.**, and Richman, R. 2007. Time, temperature, and oxygen availability: An experimental study of the effects of environmental conditions on the color and organic content of cremated bone. In: *The Analysis of Burned Human Remains*. C. Schmidt, ed. Academic Press.

Savopolos, Jessica A. and **Person, Eric C.** 2008. Date Rape Drugs and Children's Toys. *Journal of the Clandestine Laboratory Investigating Chemists Association* 18: 4-6.

Person, Eric C.; Heegel, Robert A.; Knops, Lori A.; Northrop, David M. 2008. Phosphorus containing reducing agents: a review of their chemistry and use in the manufacture of methamphetamine and the significance of observed phosphate, phosphite, and hypophosphite in clandestine laboratory casework. *Journal of the Clandestine Laboratory Investigating Chemists Association* 18: 7-44

Computer Science Department

D. Liu, **Y. Cao**, K.-H. Kim, S. Stanek, K. Lin, B. Dounggratanaex-chai, W. Tavanapong, J. Wong, J. Oh, and P. C. de Groen. 2007. Arthemis: A Case Study of Annotation Software in an Integrated Capturing and Analysis System for Colonoscopy. *Journal of Computer Methods and Programs in Biomedicine, Elsevier Science*. 88: 152-163.

Y. Cao, S. Baang, S. Liu, M. Li, S. Hu. 2008. Audi-Visual Event Classification via Spatial-Temporal-Audio Words. submitted *IEEE International Conference on Pattern Recognition (ICPR)*, Tampa, Florida, USA.

S. Read, **Y. Cao**, and H. Antaramian-Hofman. 2008. Mining the Royal Portrait Miniature for the Art Historical Context", in *Proceedings of IEEE International Conference on Networking, Sensing and Control (ICNSC)*, Hainan, China, 1358-1361.

Y. Cao, S. Read, S. Raka, R. Nandamuri. 2008. A Theoretic Framework for Object Class Tracking", to appear, in *Proceedings of IEEE International Conference on Networking, Sensing and Control (ICNSC)*, Hainan, China, 2008, 1362-1365.

Yang Xiao, Michael J. Plyler, **Ming Li**, Fei Hu. 2008. IEEE 802.15.4 Medium Access Control and Physical Layers", to appear in book *Emerging Wireless LANs, Wireless PANs, and Wireless MANs: IEEE 802.11, IEEE 802.15, 802.16 Wireless Standard Family*, ISBN-10: 0471720690, ISBN-13: 978-0471720690, Chapter 13, John Wiley and Sons.

Ming Li, Yang Xiao. 2008. Capacity and Rate Adaptation in IEEE 802.11 Wireless Networks", Chapter 4, to appear in book *Emerging Wireless LANs, Wireless PANs, and Wireless MANs: IEEE 802.11, IEEE 802.15, 802.16 Wireless Standard Family*, ISBN-10: 0471720690, ISBN-13: 978-0471720690, Chapter 4, John Wiley and Sons.

Min Chen, Shiwen Mao, Yang Xiao, **Ming Li**, Victor Leung. 2008. IPSF: A Novel Framework for Integrating IP and Sensor Networks. *Journal of Sensor Networks (IJSNet)*. in press.

Shih-hsi Liu, Marjan Mernik and Barrett R. Bryant. 2008. To Explore or to Exploit: An Entropy-Driven Approach for Evolutionary Algorithms. *International Journal of Knowledge-based and Intelligent Engineering Systems*. in press.

Robert Tairas, **Shih-hsi Liu**, Frédéric Jouault and Jeff Gray. 2007. CoCloRep: A DSL for Code Clones," the 4th International Workshop on Software Language Engineering (ATES'07), held at MODEL'07, pp. 91-99.

Earth and Environmental Sciences Department

Bradshaw, M.A. and **Harmsen, F.J.**, 2007. The paleoenvironmental significance of trace fossils in Devonian sediments (Taylor Group), Darwin Mountains to the Dry Valleys, southern Victoria Land; US Geological Survey Open-File Report 2007-1047.

Putirka, K. 2008. Excess Temperatures at Ocean Islands: Implications for Mantle Layering and Convection. *Geology* 36: 283-286.

Garrison, N., Busby, C., **Putirka, K.**, Gans, and Wagner, D.L. 2008. A Mantle Plume Beneath California? The Mid-Miocene Lovejoy Flood Basalt, Northern California, in *Ophiolites, Arcs, and Batholiths*, Geological Society of America. Special Paper 438.

Putirka, K., Perfit, M., Ryerson, F., and Jackson, M.G. 2007. Ambient and excess mantle temperatures, olivine thermometry, and active versus passive upwelling, *Chemical Geology*. 241: 177-206.

Richaud, M., Loubere P., Pichat, S., Francois, R., 2007. Silica leakage during glacial times in the equatorial Pacific. *Deep-Sea Research Part 11: Topical Studies in Oceanography*.

Loubere, P., **Richaud, M.**, Mireles, S. 2007. Variability in tropical thermocline nutrient chemistry on the Glacial/Interglacial timescale. *Deep-Sea Research Part 11: Tropical Studies in Oceanography*.

Loubere, P., and **Richaud, M.** 2007. Some reconciliation of Glacial-Interglacial calcite flux reconstructions for the eastern equatorial Pacific, *G3 Geochemistry, Geophysics, Geosystems*.

Mekik, F., Loubere, P., **Richaud, M.** 2007. Rain ratio variation in the tropical ocean: tests with surface sediments in the eastern equatorial Pacific. *Deep-Sea Research Part 11: Topical Studies in Oceanography*

Wakabayashi, J. 2008. Franciscan Complex, California: Problems in recognition of melanges, and the gap between research knowledge and professional practice: Proceedings of the 2008 Conference of the American Rock Mechanics Association, San Francisco, California.

Wakabayashi, J., and Dumitru, T.A. 2007. $^{40}\text{Ar}/^{39}\text{Ar}$ ages from coherent high-pressure metamorphic rocks of the Franciscan Complex, California: Revisiting the timing of metamorphism of the world's type subduction complex. *International Geology Review*. 49: 873-906.

Mathematics Department

Cusick, L. 2008. Archimedean Quadrature Redux. *Mathematics Magazine*. 81: 83-95.

Delcroix, S. 2007. Block-Diagonality of LFS-Groups of p-type. *Journal of Algebra*. 315: 419-453.

Tannenbaum, P. and S. Tannenbaum. 2008. Appreciating the Critical Dynamics and Importance of the United States Census. In *Research, Advocacy, and Political Engagement: Multidisciplinary Perspectives through Service Learning* (Service Learning Through Civic Engagement Series). Sterling, VA: Stylus Publishing, pp 53-67.

Physics Department

Bucher, M. Coulomb oscillations as a remedy for the helium atom. [lanl.arXiv.physics/0705.432/v2](https://arxiv.org/abs/0705.432).

Bucher, M. Rise and premature fall of the old quantum theory. [lanl.arXiv.physics/0802.1366/v1](https://arxiv.org/abs/0802.1366).

S. B. Athar, **Yongsheng Gao** et al., (CLEO Collaboration). 2007. Search for radiative decays of Upsilon(1S) into eta and eta'. *Physics Review D* 76, 072003.

J.L. Rosner, **Yongsheng Gao** et al., (CLEO Collaboration). 2007. Measurement of upper limits for Upsilon \rightarrow gamma + R decays. *Physics Review D* 76, 117102.

J. Colas, **Yongsheng Gao** et al. 2007. Response Uniformity of the ATLAS Liquid Argon Electromagnetic Calorimeter. *Nuclear Instrumentation Methods A* 582, 429.

Q. He, **Yongsheng Gao** et al., (CLEO Collaboration). 2008. Comparison of $D \rightarrow K0(s)\pi$ and $D \rightarrow K0(L)\pi$ Decay Rates. *Physics Review Lett.* 100, 091801.

Hall, R. 2007. Evidence for production of single top quarks and first direct measurement of V_{tb} , *Physics Review Lett.* 98, 181802.

Hall, R. 2007. Search for a Higgs boson produced in association with a Z boson. *Physics Lett. B* 655: 209.

Hall, R. 2007. Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions using dilepton events. *Physics Review D* 76: 052006.

Hall, R. 2008. Search for the lightest scalar top quark in events with two leptons in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV. *Physics Lett. B* 659: 500.

Hall, R. 2008. Model-independent measurement of the W boson helicity in top quark decays at DØ. *Physics Review Lett.* 100: 062004.

Hall, R. 2008. A combined search for the standard model Higgs boson at $\sqrt{s}=1.96$ TeV. *Physics Lett. B.* 663: 26.

Hall, R. 2008. First measurement of the forward-backward charge asymmetry in top quark pair production. *Physics Review Lett.* 100: 142002.

Hall, R. 2008. Simultaneous Measurement of the Ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ and the Top Quark Pair Production Cross Section with the DØ Detector at $\sqrt{s}=1.96$ TeV. *Physics Review Lett.* 100: 192003.

- Hall, R.** 2008. Search for Excited Electrons in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV. *Physics Review D Rapid Comm.* 77: 091102.
- Hall, R.** 2008. Measurement of $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV. *Physics Review Lett.* 100: 192004.
- W. M. Yuhasz, **P.-C. Ho**, T. A. Sayles, T. Yanagisawa, N. A. Frederick, M. B. Maple, P. Rogl, and G. Giester. 2007. Crystalline electric field effects in the filled skutterudite compound $\text{PrOs}_4\text{P}_{12}$. *Journal of Physics: Condensed Matter.* 19: 076212.
- T. Yanagisawa, W.M. Yuhasz, **P.C. Ho** M. B. Maple H. Watanabe T. Ueno Y. Nemoto T. Goto. 2007. Quadrupolar susceptibility of $\text{NdOs}_4\text{Sb}_{12}$. Proceedings of ICM2006. *Journal of Magnetism and Magnetic Material.* 310: 223.
- P.-C. Ho**, J. Singleton, M. B. Maple, H. Harima, P.A. Goddard, Z. Henkie, and A. Pietraszko. 2007. A de Haas-van Alphen study of the filled skutterudite compounds $\text{PrOs}_4\text{As}_{12}$ and $\text{LaOs}_4\text{As}_{12}$. *New Journal of Physics.* 9: 269.
- Johnpierre Paglione, T. A. Sayles, **P.-C.Ho**, J. R. Jeffries, and M. B. Maple. 2007. Incoherent non-Fermi-liquid scattering in a Kondo lattice. *Nature Physics* 3: 703.
- P.-C. Ho**, T. Yanagisawa, N. P. Butch, W. M. Yuhasz, C. C. Robinson, A. A. Dooraghi, and M. B. Maple. 2008. A comparison of the normal and superconducting state properties of $\text{Pr}(\text{Os}_{1-x}\text{Ru}_x)_4\text{Sb}_{12}$ and $\text{Pr}_{1-x}\text{Nd}_x\text{Os}_4\text{Sb}_{12}$. Proceeding of SCES'07, *Physica B* 403: 1038.
- R. Wawryk, O. Zogal, A. Pietraszko, S. Paluch, T. Cichorek, W. M. Yuhasz, T. A. Sayles, **P.-C. Ho**, T. Yanagisawa, N. P. Butch, M. B. Maple, and Z. Henkie. 2008. Crystal structure, ^{139}La NMR and transport properties of the As-based filled skutterudites $\text{LaOs}_4\text{As}_{12}$ and $\text{PrOs}_4\text{As}_{12}$. *Journal of Alloys and Compounds.* 451: 454.
- T. Yanagisawa, W. M. Yuhasz, **P.-C. Ho** M. B. Maple, H. Watanabe, Y. Yasumoto, Y. Nemoto, T. Goto. 2008. Ultrasonic dispersion due to off-center rattling in $\text{NdOs}_4\text{Sb}_{12}$. *Physica B* 403: 735.
- P.-C. Ho**, N. P. Butch, V. S. Zapf, T. Yanagisawa, N. A. Frederick, S. K. Kim, W. M. Yuhasz, M. B. Maple, J. B. Betts, and A. H. Lacerda. 2008. High field ordered phase and upper critical field of the filled skutterudite system $\text{Pr}(\text{Os}_{1-x}\text{Ru}_x)_4\text{Sb}_{12}$. *Journal of Physics: Condensed Matter.* 20: 215226.
- R. Kumar, R. Gupta, V. Elerkin-Thompson, **A. Huda**, J. Sayre, C. Kirsch, B. Guze, S. Han, M.A. Thomas. 2008. Voxel-based diffusion tensor magnetic resonance imaging evaluation of low grade hepatic encephalopathy. *Journal of Magnetic Resonance Imaging.* 27 (5): 1061-1068.

J. Jasinski, D. Zhang, J. Parra, **V. Katkanant**, and V. J. Leppert. 2008. Application of channeling-enhanced electron energy-loss spectroscopy for polarity determination in ZnO nanopillars. *Applied Physics Lett.* 92: 093104

P. Jones, **G. Muñoz**, M. Ragsdale, and **D. Singleton**. 2008. The general relativistic infinite plane. *American Journal of Physics.* 76: 73–78.

Reimer, T. W., Welsh, W. F., Mukai, K., & **Ringwald, F. A.** 2008. The Intermediate Polar EI UMa: A Pre-Polar Cataclysmic Variable. *The Astrophysical Journal.* 678: 376-384.

Ringwald, F. 2008. ToUcam Imaging of the Moon at the Fresno State Campus Observatory. *The Observer.* 56, No. 1: 8.

Ringwald, F. 2008. A Campus Observatory Image of the North America Nebula. *The Observer.* 56, No. 1: 5.

Ringwald, F. 2007. The Rosette Nebula at Fresno State's Campus Observatory. *The Observer.* 55, No. 1: 5.

M. Chaves and **D. Singleton**. 2007. Phantom Energy from Graded Algebras. *Modern Physics Lett. A* 22: 29.

M. Gogberashvili, P. Midodashvili and **D. Singleton** 2007. Fermion generations from 'apple-shaped' extra dimensions. *JHEP* 08:033.

E.T. Akhmedov and **D. Singleton** 2007. On the relationship between Unruh and Sokolov-Ternov effects. *International Journal of Modern Physics A*22: 4797.

E.T. Akhmedov, V. Akhmedova, **D. Singleton** and T. Pilling. 2007. Thermal radiation of various gravitational backgrounds. *International Journal of Modern Physics.* A22: 1705.

J. Dryzek and **D. Singleton**. 2007. Test of the second postulate of special relativity using positron annihilation. *American Journal of Physics.* 75: 713.

P. Jones, **G. Muñoz**, M. Ragsdale, and **D. Singleton**. 2008. The general relativistic infinite plane. *American Journal of Physics* 76, 73.

V. Dzhunushaliev, V. Folomeev, **D. Singleton** and S. Aguilar-Rudametkin. 2008. 6D thick branes from interacting scalar fields. *Physics Reviews D.* 77: 044006.

J. Jasinski, **D. Zhang**, J. Parra, V. Katkanant, and V. J. Leppert. 2008. Application of channeling-enhanced electron energy-loss spectroscopy for polarity determination in ZnO nanopillars. *Applied Physics Lett.* 92: 093104.

Psychology Department

Cramer, P., & Jones, C. J. 2007. Defense mechanisms predict differential lifespan change in self-control and self-acceptance. *Journal of Research in Personality*. 41: 841-855.

Edmondson, C.B., Conger, J.C., & Conger, A.J. 2007. Social skills in college students with high trait anger. *Journal of Social and Clinical Psychology*. 26: 575-594.

Levine, R., Rodrigues, A. & Zelezny, L. 2008. *Journeys in social psychology*. New York: Psychology Press.

Levine, R. 2007. Time, money and the cultural divide. Chapter in E. Araújo, A. M. Duarte and R. Ribeiro (Eds.). *E O Tempo, as Culturas e as Instituições*. Lisbon: Edições Colibri, pps.11-24.

Levine, R., Reysen, S., & Ganz, E. 2008. The kindness of strangers revisited: A comparison of 24 U.S. cities. *Social Indicators*. 85: 461-481.

Levine, R. 2008, Jan.-Feb.. Keeping Time. *SuperConsciousness*. 2: 18-21.

Rehman, U. S., Gollan, J., & Mortimer, A. R. 2008. The marital context of depression: Research, limitations, and new directions. *Clinical Psychology Review*, 28(2): 179-198.

Rodrigues, A. 2008. The full cycle of an interamerican journey in social psychology. In R. Levine, A. Rodrigues & L. Zelezny. 2008. *Journeys in social psychology*. New York: Psychology Press.

Rodrigues, A. 2008. *Psicologia social para principiantes [Social psychology for beginners]* (4th. ed.). Petropolis: Ed. Vozes Ltda.

Sharps, M.J., Hess, A., Price-Sharps, J.L., and Teh, J. 2007. Heuristic and algorithmic processing in english, math, and science education. *Journal of Psychology*, 142: 71-88.

Sharps, M.J., Hess, A.B., Casner, H., Ranes, B., & Jones, J. 2007. Eyewitness memory in context: toward a systematic understanding of eyewitness evidence. *Forensic Examiner*, 16: 20-27.

Sharps, M.J., Hess, A.B., & Ranes, B. 2007. "Mindless" decision-making and environmental issues: Gestalt/feature-intensive processing and contextual reasoning in environmental decisions. *Journal of Psychology*, 141: 525-538.

Triona, L. M., & Klahr, D. 2007. A new framework for understanding how young children create external representations for puzzles and problems. In E. Teubal, J.

Dockrell, & L. Tolchinsky (Eds.), *Notational knowledge: Developmental and historical perspectives* (pp. 159-178). Rotterdam, Netherlands: Sense Publishers.

Triona, L. T. & Klahr, D. K. 2007. Hands-on science: Does it matter what students' hands are on? *Science Education Review*, 6: 126-130.

Yockey, R. D. 2007. *SPSS Demystified: A Step by Step Guide to Successful Data Analysis*, 1st Ed. Prentice Hall, Upper Saddle River, NJ.

Creative Activities 2007-2008

Biology Department

Blumenshine

Invited Presentation: Is the SJR restoration an 'experiment'? 2008 San Joaquin River Parkway and Conservation Trust: San Joaquin River Workshop

Invited Seminar: Factors Affecting Population Dynamics of the Invasive Chinese Mitten Crab in San Francisco Bay. Biology Dept. Seminar. January 18, 2008.

Invited Member: San Joaquin River Restoration Program Fisheries Management Technical Feedback Group

Invited Seminar: Life and Work in the Land of Smiles: Report on Sabbatical Activities. Biology Dept. Seminar October 5, 2007.

Selected Visiting Professor - University Studies Abroad Consortium: Universidad Nacional de Costa Rica (Summer 2009 Session)

Bush

Invited Presentation: The Art, Mystery, and Controversy of Stem Cell Culture. CSUF Ethics Center Lecture, April 23, 2008.

Invited Presentation: Organized and recruited participants from stem cell industry and academia for Regenerative Medicine mini-symposium, CSUF/UCSF-Fresno, July 2008.

Cailliet

Contracted Report: Steinbeck, J., J. Hedgepeth, P. Raimondi, **G. Cailliet**, and D. Mayer. 2007. Assessing Power Plant Cooling Water Intake System Entrainment Impacts. Consultant Report, California Energy Commission, CEC-700-2007-010: 105 pages plus A-1-11.

Crosbie

Biology M.S. Program recruitment, California Diversity Forum, UC Irvine, April 4 - 5 2008.

Co-organizer of Darwin Day celebration, CSU Fresno. Evolutionary timeline display, February 12, 2008.

Invited Presentation: Cute, Cuddly and Dead: What's Killing California Sea Otters? Inaugural Central Valley Café Scientifique presentation, October 1, 2007.

Presented: Evolutionary Biology workshop, for Central Valley Science teachers, with Madhu Katti, Fred Schreiber and Rick Zechman, Fall 2007.

Earley

Invited Seminars

- Café Scientifique in Fresno, CA - June 2, 2008
- California Polytechnic State University, Dept Biological Sciences, 2008.
- University of Alabama, Department of Biological Sciences, 2008.
- Stanford University, Department of Biology, 2007.
- University of California, Berkeley Museum of Vertebrate Zoology, 2007.
- Modesto Junior College, Modesto, CA, 2007.
- Fresno City College , Biology Club - October 2007

Katti

Elected to Editorial Board of the peer-reviewed international journal *Indian Birds* (<http://www.indianbirds.in/>) published by the *New Ornithology Foundation*.

Invited lecture: Katti, M. (April 1, 2008). "Urban Beavers, Suburban Bears, and Household Geckos: On Sharing our Habitat with Wildlife", CSU-Fresno Ethics Center Spring Lecture Series.

Kovacs

Biotechnology Program Site Visits:

Organized and conducted a Site Visit of the CSU-Fresno Professional Science Masters Degree programs in both Biotechnology and Forensic Science for Dr. Carol Lynch, Council of Graduate Schools, October 23, 2007

Organized and participated in a Site Visit of the Biotechnology Programs for Dr. Susan Baxter, California State University System-wide Program for Education and Research in Biotechnology (CSUPEPRB), November 29, 2007

Invited Web Publication:

Kovacs, Shirley and Gregory Buck (2007). Summary Notes on "Internship and Placement" from Hot Topics Session of "PSM: The First Decade", The 5th Biennial Meeting of Professional Science Master's Program Leaders, held at Hilton Hotel, Crystal City, VA, November 8-9, 2007.

http://sciencemasters.com/portals/0/pdfs/Internship_and_Placement.pdf

Invited Non-Refereed Presentations:

Kovacs, Shirley (2008). "Professional Science Masters: New Path to an Industry Career", California State University, Fresno, February 27, 2008

Kovacs, Shirley (2008). "Professional Science Masters: New Path to an Industry Career", California State University, Bakersfield, March 5, 2008

Kovacs, Shirley (2008). “Professional Science Masters: New Path to an Industry Career”, California State University, Stanislaus, March 11, 2008

Kovacs, Shirley and Alice Wright (2008). Professional Science Masters (PSM) Degrees at California State University: Preparing Students for the Future of Scientific Innovation through Industry Experience”, College of Science and Mathematics Donor Appreciation Night, March 26, 2008.

Networking with Regional Industrial and Agency Partners for the PSM in Biotechnology:

Kovacs, Shirley and Elaine S. Kovacs (2007-08). Industry Visits for Developing Internship Partnerships—10/5/2007, 10/15/2008, 11/20/2007, 11/27/2007, 1/22/2008, 1/25/2008, 3/27/2008, 5/2/2008.

Organized “Celebration of Clinical Lab Sciences” honoring Tessa Tanino with Roxanne Hinds, Kathleen Simms, and Jayne Goss

Müller

Co-organizer of Café Scientifique – a monthly event at which a scientist presents his/her work to the general public at a local restaurant.

Co-organizer of Darwin Day - an outreach event to showcase biology and evolution to the general public.

Prince

Served as the organizer for the pepper session at the 4th Solanaceae Genome Workshop (SOL 2007) in Jeju, South Korea, September 13, 2007.

Invited Lecture: “What is this I’m eating? The science and ethics of genetically modified food.” Ethics Center Lecture Series, CSU Fresno, February 6, 2008.

Tsukimura

Invited Publication

Tsukimura, B. (2008). Liu Rui-Yu: Recipient of the crustacean society award for research excellence. *J. Crustacean Biology*, 28:xx-xx. In press

Wright

Invited Web Publication

Wright. 2007. Effects of aeration on microbial communities: A recent study shows that adding air to the soil around plant root systems enhances crop productivity. Podcast episode aired 9/7/2007 in the *Microbe World* published by the American Society of Microbiology. Link: <http://www.flpradio.com/microbeworld/audio/070903-070928/MW070907.mp3>

Zechman

Invited Seminar: "Phylogenetic analyses of an enigmatic lineage of deepwater green algae: The Palmophyllophytes". Department of Biology, California State University, Fresno, March 2008.

Invited seminar: "Molecular Phylogenetics and Evolution of the Green Algae" Presented to the Student Science Club at Fresno City College. Fresno, CA, November, 2007

Chemistry Department

Saeed Attar

Served as an invited member of the assessment panel to review and evaluate the MS program in Plant Science (5/2/07)

Served as an invited member of the Dean's Community Development Committee □ for the College of Science and Math (6/8/07)

Served as a member of the Coordinating Committee for the 29th Annual Central California Research Symposium (March 2008)

Served as a Judge □ at the 29th Annual Central California Research Symposium on 4/16/08

J P Choi

Served as a reviewer for the manuscript, "Electrogenerated Chemiluminescence and Its Bio-related Applications", submitted to Chemical Reviews by Wujian Miao, 11/28/2007.

David Frank

Re-wrote portions of Class Scheduler □ program to debug scripts. Gave copies to administrative assistants in two departments. The program allows classes to be visually blocked on time-day matrices of rooms, labs and faculty.

Co-instructor, Chemistry Modeling Workshop. A two week intensive workshop for high school chemistry teachers on applying the Modeling method pedagogy, developed at Arizona State by Dr. David Hestenes for Physics instruction, to Introductory Chemistry, June 19 - June 29, 2007.

Participant in the Tulare Teaching Learning Collaborative, Nov. 1, 2007. Workshop on science curriculum and pedagogy with middle and secondary teachers.

Melissa Golden

Initiated CHEMStar (a bimonthly department wide research group meeting during the summer)

Kevin Miller

- i) The McCrone Institute course on Forensic Microscopy, held in Sacramento, June 23-27, 2008.
- ii) Course Development / Activities
 - (a) CHEM 252: Dr. Miller taught Forensic Biochemistry for the first time this spring. With five students registering and four completing the course, it was the most well attended graduate forensic course to date. Students ranged in

major from Chemistry and Biology to Biotechnology and Forensic Science, demonstrating the broad appeal of the course.

- iii) F.I.R.E. student organization The forensic student organization, F.I.R.E. (Forensic Investigation, Research, and Education), went through a transition period reflecting the transition in the forensic science student body.

David Zellmer

Review of manuscript for journal “Analytical Chemistry”, Manuscript ID : ac-2007-02437f; Title : “A Gravimetric Approach to the Standard Addition Method in Instrumental Analysis – I”; Author(s): Kelly, William

Revisions and ongoing improvements to the College of Science and Mathematic’s website.

Computer Science Department

Dr. Yu Cao

NSF Panelist, Arlington, VA, 2008

Session Chair, Special Session on the Intelligent Multimedia Information System, 2008 IEEE International Conference on Networking, Sensing, and Control

Reviewer for:

Multimedia Systems Journal, Springer Verlag & ACM SIGMM (2008)

IEEE World Congress on Computational Intelligence (2008)

IEEE transaction on Systems, Man and Cybernetics - Part B (2007)

Neurocomputing, Elsevier (2007)

Dr. Ming Li

Co-chair (with Dr. B. Prabhakaran), “Multimedia Networking” track, The 17th International Conference on Computer Communications and Networks (*ICCCN’08*), August 2008.

Member of Conference Technical Program Committees:

World Congress on Engineering and Computer Science (*WCECS*), San Francisco, 2008.

IEEE International Conference on Communications (*ICC 2009*), Dresden, Germany, June 14-18, 2009.

The IEEE International Symposium on Multimedia (*ISM’08*). Berkeley, California, USA, December 15-17, 2007.

The 3rd International Conference on Communications and Networking in China (*ChinaCom’08*), Hangzhou, China, August 25-27, 2008.

“Invited Papers” track, The 17th International Conference on Computer Communications

and Networks (*ICCCN'08*). August 2008.

The 67th IEEE Vehicular Technology Conference (*VTC2008-Spring*), Marina Bay, Singapore, May 11-14, 2008.

The Second International Conference on Multimedia and Ubiquitous Engineering (*MUE 2008*), Busan, Korea, April 24th ~ 26th, 2008.

The Seventh IASTED International Conference on Wireless and Optical Communications (*WOC 2008*), Québec City, Québec, Canada, May 26 – 28, 2008.

World Congress on Engineering and Computer Science (WCECS), 2007.

International Conference on Communications Systems and Technologies 2007 (*ICCST'07*)

International Conference on Intelligent Automation and Robotics 2007 (*ICIAR'07*)

International Conference on Internet and Multimedia Technologies 2007 (*ICIMT'07*)

The First International Conference on Robot Communication and Coordination (*ROBOCOMM 2007*), Athens, Greece, September 10-12, 2007.

The IEEE International Symposium on Multimedia (*ISM'07*). Taichung, Taiwan, R.O.C., December 10-12, 2007.

Reviewer of journals (a total of seven journals):

EURASIP Journal on Wireless Communications and Networking

Wiley Journal of Wireless Communication and Mobile Computing

Dr. Alex Liu

Director, 2008 Computer Exploration Summer Camp

Committee/Program Organizers:

Program Co-Chair, Track on Software Engineering-Based Human Computer Interaction, the 24th ACM Symposium on Applied Computing, 2009

Program Co-Chair, Special Session on Biomedical Multimedia Database and Application, IEEE 8th International Conference on Intelligent System Design and Applications, 2008

Program Committee, The 8th OOPSLA Workshop on Domain-Specific Modeling, 2008

Program Committee, The 1st International Workshop on Model-Driven Development on Autonomic Systems, held at the 32nd IEEE International Computer Software and Application Conference, 2008

Program Committee, The 20th International Conference on Software Engineering and Knowledge Engineering,, Special Track on Model-Based Software Engineering, 2008

Program Committee, The 23rd ACM Symposium on Applied Computing,, Applications of Evolutionary Computation Track, 2008

Program Committee, Workshop on Automating Service Quality, held at Automated Software Engineering, 2007

Program Committee, The 7th OOPSLA Workshop on Domain-Specific Modeling, 2007

Program Committee, The 1st International Workshop on Semantic Computing and Multimedia Systems, a Workshop held at International Conference on Software Engineering, 2007

Technical Committee, 2008 IEEE Congress on Evolutionary Computation, held at 2008 IEEE World Congress on Computational Intelligence, 2008

Technical Committee, 2008 IEEE International Conference on Networking, Sensing and Control, Special Session on the Intelligent Multimedia Information System, 2008

Research Committee (2008 – 2011), College of Science and Mathematics, California State University, Fresno

Reviewers:

IEEE Multimedia

IEEE Transaction on Systems, Men and Cybernetics – Part B (Regular Reviewer)

Journal of Computing Science and Engineering

Soft Computing: A Fusion of Foundations, Methodologies and Applications (Regular Reviewer)

The 7th International Conference on Aspect-Oriented Software Development (AOSD'08) – The secondary reviewer

The 23rd ACM Symposium on Applied Computing (SAC'08), track on Embedded Systems: Applications, Solutions, and Techniques (EMBS)

The 11th Enterprise Distributed Object Computing Conference (EDOC'07)

Earth and Environmental Science Department

Invited, contracted, juried creative activities, other

Presented invited lecture on Taphonomy for Fresno City College at Amistad Institute, Santa Barbara de Heredia, Costa Rica, 3-2008

California EPA, State UZIIer Resources Control Board -- "Central Valley salinity study Data collection and system modeling," \$249,014, (Fundedfin' FY 06-(8),

CalifJrnia Department of Pesticide Regulations - - "Isotope study of nitrate in ground water," \$47,999 (FY 06-(8),

CalijcJrnia Department of Pesticide Regulations - "Investigation of vertical transport and leaching under field conditions," \$99,235 (FY 06-(8),

A. Research projects underway during the 2007/2008 Academic Year.

I have been involved in several research projects, including (and not limited to) the following:

1. Temporal variation in vertical separation rates, northern Sierra Nevada frontal fault system, This is the master's project of my advisee Chris Kemp, Future collaboration is expected during this general research effort with EES faculty Chris Pluhar and Keith Putirka, Field work will begin in late Mayor early June 2007.

2. Temporal variation in geomorphic response to late Cenozoic rock and surface uplift,

Sierra Nevada.

3. Continuing research into the evolution of strike-slip fault step-overs and bends, A field test of models for step-over development will be conducted by incoming (Fall 2008) graduate student Emily Davis (I will be her thesis advisor), who will combine field mapping with geophysical methods to investigate this problem at the tens of meters and tens of km scale.

4. Garnet amphibolite and other rocks along the western margin of the Feather River ultramafic belt, northern Sierra Nevada, as an investigation into the rock record of the inception of subduction, This is the masters thesis research of my advisee Chris Smart (expected M.S, summer 2008).

5. Tectonic evolution of Calabria (southern Italy): collaboration with Walter Alvarez and David Shimabukuro, UC Berkeley, Field work conducted summer 2006, I am in the process of finishing a paper based on this field work (see Shimabukuro et al in the "in preparation, submitted, or in review" publication list above).

6. Field relationships of high-grade tectonic blocks within serpentinite bodies, Franciscan Complex, as indicators of material flow within subduction complexes during the early stages of subduction, Nick Smaira is now working on a specific exposure along the Panoche Pass road as his senior thesis project, under my supervision.

7. Geochronology of Franciscan Complex and Feather River metamorphic rocks, collaboration with Trevor Dumitru of Stanford University, Some of this will support ongoing research efforts of senior Nick Smaira (above), and masters student Chris Smart.

8. Geochemical signatures of volcanic rocks of the Franciscan Complex: collaboration with Asish Basu, University of Rochester. This NSF funded project began with field work in the summer of 2007, Petrographic investigations of various rocks and some additional field collection was performed at various times from August 2007-May 2008. Masters student Brian Hitz may conduct his thesis research as part of this project. Some of the results are being incorporated into a paper I expect to submit in April (Wakabayashi and Basu in the "in preparation, submitted, or in review" publication list).

09. Detrital zircon chronology of the Franciscan Complex, collaboration with W, Gary Ernst, Stanford University. The results of this study have been submitted for publication and are in review (Snow et al in the "in preparation, submitted, or in review" publication list.

10. Structural geologic relationships, El Cerrito quarry, California, This will be the senior thesis of advisee Gary Smith, Field work planned summer of 2008.

11. Geology of the Franciscan Complex core of the Mount Diablo antiform, California. This will be the senior thesis of advisee Barbara Jessup. Field work planned summer of

2008.

12. Tectonic settings of melanges (globally). This is a continuing project. I organized and chaired a session at the October 2007 Annual Meeting of the Geological Society of America on the subject of melanges. I am now co-editor of a book that will be a collection of peer-reviewed papers related to this international session. About twenty papers are expected. I am an author on two of the papers that will be submitted (Wakabayashi and Dilek, and Shimabukuro et al. in the "in preparation, submitted, or in review" publication list).

13. Global comparisons of orogenic belts and the late Cenozoic tectonic history of the southwest Pacific. I will be chairing a session on this subject at the upcoming Annual Meeting of the Geological Society of America in October 2008. It is expected to attract a large and varied international group of contributors and may also result in a book.

C. Scientific Editors/Peer Review:

I am serving a second consecutive 3-year term (2007-2009) as an Associate Editor of the Geological Society of America Bulletin. During the 2007/2008 A Y I have also reviewed a manuscripts for the Canadian Journal of Earth Sciences, Contributions to Mineralogy and Petrology, Geological Society Bulletin (as reviewer rather than Associate Editor), Journal of Metamorphic Geology, Revista Geologica de Chile, and Tectonophysics as well as one NSF proposal. I am editing a book (Geological Society of America Special Paper). This will involve managing the peer review, and making editorial reviews and decisions on about 20 different contributions.

D. Active Participation in Professional/Scientific Societies

I am the First Vic President of the International Division of the Geological Society of America. I will rotate in as President in October 2008. Duties have included organizing scientific sessions/symposia at the upcoming Annual Meeting of the Geological Society of America, the second largest international geoscience meeting. I will be chairing on these sessions and have help promote or sponsor three others. My Division duties also include being the chair of the Divisions award committee to lead the selection of the annual Distinguished Career Award winner for the Division at the upcoming Annual Meeting as well as organize our international grant program (to aid international participants in attending the Annual Meeting). In addition to my role as an officer of the International Division of the Geological Society of America, I continue to take an active role in Society leadership as associate editor of their lead journal.

1. Invited reviewer, National Science Foundation (NSF), Geoscience -- Hydrology proposals (2007)
2. Soil Science Society of America - Soil and water Conservation Section, Graduate Student Award Committee, SSSA S-6 (2006-).
3. Manuscript reviewer for 5 professional journals: European Journal of Soil Science ASCE, Journal of Irrigation and Drainage Engineering, Ecological Modeling, Soil Science Society of America Journal, Journal of I-Hazardous Materials

Mathematics Department

Amarasinghe, Rajee, co-instructor, *Teacher Leadership Summer Institute*. San Joaquin Valley Mathematics Project's two-week professional development institute, July 23-August 3, 2007.

Amarasinghe, Rajee, co-instructor, *Content Enhancement for Lesson Study Professional Development Workshop* for grade 5-12 mathematics teachers from Sanger Unified and Central Unified School Districts, July 23-27, 2007.

Amarasinghe, Rajee, co-instructor, *San Joaquin Valley Mathematics Project Supporting Teachers to Increase Retention (SJVMP STIR)* project's summer institute, July 8-20.

Amarasinghe, Rajee, lesson study consultant, Central, Fresno, and Sanger Unified School Districts, Fall 2007-Spring 2008.

Cusick, Larry, supervised undergraduate research for 3 students (Iliana Perez, Abinet Tibebe & Mayra Rodriguez) sponsored under the LSAMP program during Summer 2007. Students presented the results of their research at AMS/MAA Joint Meetings in San Diego, Jan 2008, MAA Northern Section meeting in Sacramento March 2008, and Central California Research Symposium, April 2008.

De Leon, Doreen, Assistant Editor of the *International Journal of Applied Mathematics and Statistics*. (Refereed one research papers and found referees for several others.)

Nogin, Maria, instructor, *San Joaquin Valley Math Project 2007 Summer Institute*.

Nogin, Maria, lesson study consultant, Fresno, and Sanger Unified School Districts, Fall 2007-Spring 2008.

Tuska, Agnes, co-instructor, *Teacher Leadership Summer Institute*. San Joaquin Valley Mathematics Project's two-week professional development institute, Summer, 2007.

Tuska, Agnes, co-instructor, *Content Enhancement for Lesson Study Professional Development Workshop* for grade 5-12 mathematics teachers from Sanger Unified and Central Unified School Districts, July, 2007.

Tuska, Agnes, co-instructor, *San Joaquin Valley Mathematics Project Supporting Teachers to Increase Retention (SJVMP STIR)* summer institute, July, 2007.

Tuska, Agnes, lesson study consultant, Central, Fresno, and Sanger Unified School Districts, Fall 2007-Spring 2008.

Tuska, Agnes, wrote 54 original problems with solutions for the test bank to accompany the *Heart of Mathematics, 3rd Edition* (Key College Publishing).

Tuska, Agnes, reviewer of Chapter 6: Fractals and Chaos, Chapter 7: Taming Uncertainty and Chapter 8: Meaning from Data of *Heart of Mathematics, 3rd Edition* (Key College Publishing).

Tuska, Agnes, reviewer of Chapter 5 of the manuscript for Moore and Notz's *Statistics: Concepts and Controversies* (W.H. Freeman and Company Publishers).

Tuska, Agnes, reviewer of Freitag's *Mathematics for Elementary Teachers: A Process Approach* (Houghton Mifflin).

Tuska, Agnes, *GeoGebra Workshop for Mathematics Students and Faculty*. CSU, Fresno, April 11-12, 2008. Workshop organizer.

Wu, Ke, conducted the data analysis for the research paper by Elmore F. A., and D. Lackey, "Effectiveness of endovenous laser treatment in eliminating superficial venous reflux", *Phlebology*, 2008; v. 23, pp 21-31.

Wu, Ke, member of Editorial Board, *Far East Journal of Theoretical Statistics (FJTS)*. (Refereed three research papers for the FJTS, July 2007 – May 2008)

Wu, Ke, refereed one research paper for the Journal of Applied Probability and Statistics, January 2008.

Wu, Ke, Lesson study consultant for the *Central Valley Math and Science Partnership Lesson Study in Mathematics Planning and Observation Project*, Fall 2007.

Physics Department

Manfred Bucher

Peer Review: The American Journal of Physics, MS # 21047: "*The force between two charge balls: Theory,*" by Gerald E. Hite.

Peer Review: Die Naturwissenschaften, MS NAWI # 07-0002: "*A simple formula for calculating the ionization potentials of two-electron and multi-electron ions,*" by Hannu Elo.

Peer Review: Die Naturwissenschaften, MS NAWI # 07-0270: "*Differences of ionization energies of one- and two-electron ions,*" by Hannu Elo.

Yongsheng Gao

Team leader of the Fresno State's new ATLAS program at the Large Hadron Collider (LHC) of the European Organization for Nuclear Research (CERN). Successfully enrolled Fresno State as a collaborating institute of ATLAS and CERN with our annual ATLAS membership fee to CERN covered by Department of Energy (DOE) and National Science Foundation (NSF). This membership fee is ~\$10,000 per US physicist per year. Fresno State is the only CSU school participating in LHC and CERN.

Chair, High-Energy Experimentalist Postdoctoral Search Committee.
Member, College of Science and Mathematics Research Committee, California State University, Fresno.

Served as Physics Department representative at Honor's college (September 22, 2007)

Served as representative of the Physics Department at Graduate Expo on Nov. 1, 2007

Served as judge for Physics at the 2008 Senior Division Science Fair on March 31, 2008

Ray Hall

Finished work as a contributing author to a new College Physics Textbook. Prof. Nicholas Giordano of Purdue University is the primary author of a 1st edition textbook to be published by Thompson, Brooks/Cole.

Developed more than 200 end of chapter problem sets and solutions for the new pedagogy developed by Dr. Giordano, and in parallel with that effort I was coauthor of the accompanying instructors' guide and solution manual. Dr. Giordano's textbook, with my contributions, will be available Fall 2008.

Invited Conference Organizer and Chair of Scientific Papers, 6th Annual Amazing Meeting of the James Randi Educational Foundation, January 25-27, 2008, Plantation, FL.

Undergraduate Advisor for the Department of Physics.
Chair: Dr. Yongsheng Gao's RTP committee.

Member: High-Energy Experimentalist Postdoctoral Search Committee.

Member: College of Science and Mathematics Undergraduate Curriculum Committee.

Member of the College of Science and Mathematics Science II Exhibits Committee.

Pei-Chun Ho

Referee for one manuscript for the Proceedings of SCES'07, published in Physica B **403** (2008).

Member, Outreach Committee, Department of Physics, California State University, Fresno.

Vanvilai Katkanant

Acting chair for the Department of Physics, June 2007.

Served as Physics undergraduate advisor

EEO for a Math Department tenure-track search.

AAPT (American Association of Physics Teachers) Spring Meeting, Northern California/Nevada Section at Stanford University, May 25-26, 2007.

Distance Learning & Remote Controlled Laboratories Workshop at the Queens Borough Community College, NY, July 23-27, 2007.

Amir Huda

AAPM Summer School on Shielding Methods for Medical Facilities: Diagnostic Imaging, PET and Radiation Therapy. Presented by the American Association of Physicists in Medicine, July 27-29, 2007.

Chair, Radiation Safety Committee, California State University, Fresno.

Advisor, MBRS-RISE Program at California State University, Fresno.

Member, Society of Magnetic Resonance, Health Physics Society, Am. Assoc. of Physicists in Medicine.

Member, International Society on Hepatic Encephalopathies and Nitrogen Metabolism (ISHEN).

Member, Magnetic Resonance Subcommittee, American Association of Physicists in Medicine 2005-

Member, Middle East Affairs Subcommittee, American Association of Physicists in Medicine 2007-

Member, TG131: Medical Physics Training in Developing Countries, AAPM, 2007-
Member, Provost's Award Committee, 2007.

Gerardo Muñoz

Physics Department Chair, July 2004 - .

Editorial Advisory Board Member, American Journal of Physics (January 2008 -).
Reviewer, The American Journal of Physics, MS # 21244: "Revisit to Radiation from a Suddenly Moving Sheet of Charge," by J.-M. Chung.

Reviewer, The American Journal of Physics, MS # 21641: "Relativistic considerations on the index of refraction," by Kirk T. McDonald.

Reviewer, The American Journal of Physics, MS # 21446: " Making Sense of the Legendre Transform," by R. K. P. Zia, Edward F. Redish, and Susan R. McKay.

Member, Physics Department Retention, Tenure and Promotion committees.

Member, College of Science and Mathematics Single Subject committee (review of courses in teacher preparation curriculum).

Frederick Ringwald

Fresno State's Remote Observatory was constructed at Sierra Remote Observatory, at an altitude of 4,610 feet in the Sierra Nevada. The telescope was installed in December 2007, and the observatory is currently undergoing commissioning, with the first publishable science results anticipated for Summer 2008, and the first student projects during Fall 2008. Pictures of the new observatory may be found at <http://zimmer.csufresno.edu/~fringwal/opps.html>

Mentored Fresno State physics major Zachary Girazian during Summer 2007 for a National Science Foundation Research Experiences for Undergraduates program, carried out by the California State University Undergraduate Research Experience in Astronomy program at the Department of Astronomy at San Diego State University. Zachary's project was "The Classification of BZ Ursa Majoris," in which he analyzed data processed by Fresno State physics graduate student Randy Clark and taken by Fresno State undergraduate Sarah Lin at Fresno State's Campus Observatory during Spring 2007, as part of an international observing program, organized by Columbia University, of the outburst of a cataclysmic variable star.

On sabbatical leave at Kennedy Space Center in Florida during Fall 2007, on which I completed the text and photo editing and about half of the illustrations for a textbook for elementary astronomy, "Astronomy for Everyone." I have just finished testing the text on a class of 100 PSci 21 (Elementary Astronomy) students: I plan to make revisions and test it again on the Fall 2008 class, and then to submit it for publication.

Departmental Senator for the Department of Physics, Academic Senate, California State University, Fresno.

Professional Development Committee, California State University, Fresno.

College Budget and Space Committee, College of Science and Mathematics, California State University, Fresno.

Adjunct Faculty, Department of Astronomy, San Diego State University.

Director, Campus Observatory, California State University, Fresno.

Referee for a paper for the Astronomical Journal.

Douglas Singleton

Review Member for Russian Fulbright Grants in Physics.

Reviewed research articles for Physics Letters B, Journal of Mathematical Physics, Classical and Quantum Gravity, American Journal of Physics, International Journal of Theoretical Physics.

Member, High-Energy Experimentalist Postdoctoral Search Committee.
Member, International Activities Committee, California State University, Fresno.
Graduate Coordinator Physics Department, California State University, Fresno.
Comprehensive Exam Coordinator, California State University, Fresno.
Physics Colloquium Coordinator, California State University, Fresno.
Advisor, Society of Physics Students (SPS), California State University, Fresno.
Member, Task Force on Graduate Culture, California State University, Fresno.
Member, University Lecture Series Committee, California State University, Fresno.
Mentor/faculty sponsor for Beta Iota Phi Sorority, California State University, Fresno.
As SPS advisor I took students to Society of Physics Students (SPS) meetings at USC (2007) and UCSC (2008). At both meetings several of our students gave talks or presentations.

As SPS advisor/graduate coordinator I took students to two conferences: (i) In October of 2007 I took a group of students to the APS CA section meeting at LBNL/Berkeley. Two students gave talks at this meeting. (ii) As graduate coordinator I took a group of graduate students to the 24th Pacific Coast Gravity Meeting at UCSB.

Charles Tenney

Reviewed Abstracts, 2007 IEEE Nuclear Science Symposium/Medical Imaging Conference (invited to review again for 2008 conference).

Served on Nuclear Medicine Subcommittee, American Association of Physicists in Medicine.

The US EPA radiation monitor was installed on top of the IT tower, and has been operational throughout most of the past year. Samples of air contaminants are analyzed using radiation-counting equipment in the Biomedical Physics laboratory in Science 2.

Grad Expo Nov. 1, 2007.

Dog Days Dec. 14, 2007.

55th Annual Central CA Regional Science, Engineering, and Mathematics Fair, Head Judge, Physics. Recruited two other Judges, judged projects in Physics category (senior division, i.e. high school), as a head judge, participated in selection of Grand Prize winners.

Steven White

New Planetarium Programs:

Moonbound: 2020

New Exhibits in the Downing Planetarium Museum

Dual Robot Arm Display
Talking Geological Display Case
Cosmic Ray Cloud Chamber

Attendance:

Approximately 24,000 visitors

Receptions:

Ag One Summer Bridge, 7/30/07
Sacramento State Planetarium Committee, 8/01/07
Channel 30 Television, Morning Show, 8/08/08
Sigma Chi, 9/10/07
Renee Thomas Birthday Party, 9/22/07
Dean's Candidate Reception, 11/06/07
Valley Industry Partnership/College of Engineering, 11/16/07
Clovis Chamber of Commerce/North American Title, 11/30/07
California Casualty and Health Underwriters, 12/01/07
Leadership Fresno Holiday Party, 12/05/07
PESC Holiday Party, 12/15/07
Provost's PI Reception, 12/12/07
Sigma Chi, 1/29/08
Phi Kappa Phi Honor Society, 2/07/08
California Association of Museums, 2/27/08
Regional Science Olympiad Competition (Junior and Senior), 3/01/08
President's Donor Appreciation Evening 3/26/08
Philanthropic Educational Organization, 3/27/08
Solar Viewing with Central Valley Astronomers, 4/19/08
President's Forum, 4/26/08
Ag Foundation Donor Appreciation Evening, 5/29/08.

Weekend Programs:

8/24/07 Friday 7 pm, 8 pm
8/25/07 Saturday 2 pm, 3 pm
9/21/07 Friday 7 pm, 8 pm
9/22/07 Saturday 2 pm, 3 pm
11/09/07 Friday 6 pm, 7 pm
11/10/07 Saturday 2 pm, 3 pm
12/07/07 Friday 6 pm, 7 pm
12/08/07 Saturday 2 pm, 3 pm
1/25/08 Friday 6 pm, 7 pm
1/26/08 Saturday 2 pm, 3 pm
2/08/08 Friday 6 pm, 7 pm
2/09/08 Saturday 2 pm, 3 pm
2/20/08 Wednesday 6 pm (Special Lunar Eclipse Program)
2/29/08 Friday 6 pm, 7 pm
3/01/08 Saturday 2 pm, 3 pm
4/11/08 Friday 7 pm, 8 pm
4/12/08 Saturday 2 pm, 3 pm
5/16/08 Friday 7 pm, 8 pm

5/17/08 Saturday 2 pm, 3 pm
6/13/08 Friday 7 pm, 8 pm
6/14/08 Saturday 2 pm, 3 pm

Daqing Zhang

Refereed Journal Reviewer: Nanotechnology, J. Physical Chemistry, MRS Proceedings, J.

Phys. D: Appl. Phys.

Member of American Physical Society (American Institute of Physics).

Member of Materials Research Society.

Member of American Chemical Society.

Psychology Department

Invited, contracted, juried creative activities, other

Jennifer Ivie, Faculty Associate, Spring 2008 to present, Center for Enhancement of Teaching and Learning, California State University, Fresno

Jennifer Ivie, Visiting Scholar, Summer 2007, Visiting Scholars Program 2007, Educational Testing Services

Jennifer Ivie, Editor in Chief, Fall 2007 to present, Psychology Department Newsletter, Department of Psychology, California State University, Fresno

Levine, R. Western Psychological Association Council of Representatives

Levine, R. Editorial Board, Journal Management Asia

Levine, R. Steering Committee, Society for the Advancement of Social Psychology
Committee on Urban Initiatives Network (APA Division 8 representative),
American Psychological Association

Levine, R. Senior Advisory Board, International Institute of Occupational and Mental Health, Düsseldorf, Germany.

Levine, R. Advisory Board, Emotion, Stress and Health Research Center, Doshisha University, Kyoto, Japan.

Levine, R. Editorial Board, Time Studies, published by The Portuguese Time Association.

Levine, R. Advisory Council, Campus Peace Centers (United Nations NGO)

Wilson, M. Ed.S Degree for School Psychology Program: Marilyn Wilson submitted application for Western Association of Schools and Colleges (WASC) for approval to change degree option for M.S. in Psychology to Ed.S. for School Psychology program. Submitted in March 2008; interim approval received in April 2008. Wrote documents for campus approval last year (obtained in May 2007) and for Chancellors Office (Approved)

Presentations 2007-2008

Biology Department

(Invited keynote, peer-reviewed)

U=Undergraduate; G=Graduate Student

Andrews

Andrews, D. 2007. *The new MERLOT Science Education Community Portal*. California Science Teachers Association:, Long Beach, CA October 2007.

Andrews, D. 2008. *Grant Development Strategies for Science Education*. CSU Chancellor's Office Grant Development Workshop. Feb 16 and March 7, 2008, Los Angeles and San Francisco.

Andrews, D. 2008. *The Noyce Commons and the NSDL/Noyce Project*. National Science Teachers Association, March, 2008 Boston, MA

Blumenshine

Blumenshine, S., & N. Basile. 2007. Small-Scale Variation in Headwater Stream Food Webs and Elemental Pathways. North American Benthological Society, Columbia, SC

Kamansky, B.^G, & S. Blumenshine. 2008. Fire and Grazing Effects on Vernal Pool Grasslands. Southern San Joaquin Valley Natural Communities Conference.

Cailliet

ALASKA MARINE SCIENCE SYMPOSIUM (2008)

Ainsley, S.M.^G, Ebert, D.A., & **Cailliet, G.M.**

Age, growth, and reproduction of the Bering skate, *Bathyraja interrupta* (Gill & Townsend, 1897) from the Gulf of Alaska

Ebert, D.A., J.J. Bizzarro, **S. Brown^G**, M.D. Boyle, & **G.M. Cailliet**

Diet composition of dominant skate species in the central Gulf of Alaska

Ebert, D.A., **Fry, J.R.^G**, Ainsley, S.M., & **Cailliet, G.M.**

Preliminary results on the age, growth, and reproduction of four Bering Sea skate species (Chondrichthyes: Rajiformes: Arhynchobatidae: *Bathyraja*)

Haas, D.L.^G, Ebert, D.A., & **Cailliet, G.M.**

Age, growth, and reproduction of the Aleutian skate, *Bathyraja aleutica* (Gilbert, 1896), in the eastern Bering Sea

WESTERN GROUND FISH CONFERENCE (2008)

Ainsley, S.M.^G, Ebert, D.A., & **Cailliet, G.M.**

Age, growth, and reproduction of the Bering skate, *Bathyraja interrupta* (Gill & Townsend, 1897) from the Gulf of Alaska

Barnett, L.A.K.^G, Ebert, D.A., & **Cailliet, G.M.**

Maturity, fecundity, and the reproductive cycle of the white-spotted ratfish, *Hydrolagus colliei* (Lay and Bennett, 1839)

Brown, S.^G, Bizzarro, J.J., Boyle, M.D., Ebert, D.A., & **Cailliet, G.M.**

Diet composition of dominant skate species in the central Gulf of Alaska

Fry, J.R.^G, Ainsley, S.M. , Ebert, D.A., & **Cailliet, G.M.**

Preliminary results on the age, growth, and reproduction of four Bering Sea skate species (Chondrichthyes: Rajiformes: Arhynchobatidae: *Bathyraja*)

Haas, D.L.^G, Ebert, D.A., & **Cailliet, G.M.**

Age, growth, and reproduction of the Aleutian skate, *Bathyraja aleutica* (Gilbert, 1896), in the eastern Bering Sea

Calderón-Urrea

Yamamoto, F.^G, Padukkavidana, T.^U, Polack, W. G., and **Calderón-Urrea**, Effects on the parasitic nematode *Meloidogyne incognita* of transgenic tobacco plants expressing an antisense construct of the cell death protection *ced-9* gene(2008). 29th Annual Central California Research Symposium. April, 2008. Fresno, CA

Yamamoto, F.^G, Padukkavidana, T.^U, Polack, W. G., and **Calderón-Urrea**, Effects of the parasitic nematode *Meloidogyne incognita* on transgenic tobacco plants expressing a sense and antisense construct of the cell death protection *ced-9* gene (2008). 20th Annual Symposium of California State University Program for Education and Research in Biotechnology

Khavong Pha^U, and **Alejandro Calderón Urrea** (2007) CytoskeletonArrangement in *Meloidogyne incognita* During Early Development. Annual Biomedical Research Conference for Minority Students. Held in Austin, Texas, **November 7 - 10, 2007**

Christian G. Aguilar^U, Ivan F. Acosta, Stephen L. Dellaporta and **Alejandro Calderón-Urrea** (2007) Subcellular Localization of the *Tasselseed 2* Protein in Maize. Annual Biomedical Research Conference for Minority Students. Held in Austin, Texas, **November 7 - 10, 2007**

Constable

Constable, JVH. 2007. Meeting the carbon demands of sexual reproduction in

Podophyllum peltatum: Structural, physiological and phonological components.

Ecological Society of America Annual Meetings, San Jose, California, August 5-10.

Kurimoto†, T, (**JVH Constable**, S Hood* and A. Huda). 2007. Response of *Arabidopsis thaliana* to ionizing radiation. 4th International Summer School and Workshop on Nuclear Physics methods and Accelerators in Biology and Medicine. IEAP Conference at Czech Technological University, Prague, Czechoslovakia 8-19 July 2007.

Earley

Luzania R^U, Cheah A^U, **Earley RL** & Riley LG. (2008). 'Identification of NPY-containing neurons in the brain of the tilapia, *Oreochromis mossambicus*'. LSAMP Symposium, Fresno, CA. May 7, 2008.

Medichetti S^G, Wong S^G & **Earley RL**. (2008). 'Does challenging convict cichlids with ACTH manipulate the stress axis?' Central California Research Symposium, Fresno, CA. April 16, 2008.

Campbell J^U, Janzen W^U, Medichetti S^G, Wong S^G & **Earley RL** (2008). 'Relationships between steroid hormones and aggression in the clonal mangrove killifish, *Kryptolebias marmoratus*'. Central California Research Symposium, Fresno, CA. April 16, 2008.

Copeland DL^U, Rodnick KJ, **Earley RL** & Secor SM (2008). 'Cardiac enzyme and energetic compensation during post-prandial metabolism in Burmese pythons (*Python molurus*)'. Society for Integrative & Comparative Biology, San Antonio, TX. January 2008.

Ma J^U, Wong S^G & **Earley RL** (2008). 'Social deprivation triggers increased stress responsiveness and aggression in convict cichlid fish (*Cryptoheros nigrofasciatus*)'. Society for Integrative & Comparative Biology, San Antonio, TX. January 2008.

Wong S^G, Ma J^U & **Earley RL** (2008). 'Stressed out? Novel methods and experimental assessment of the interaction between social stress and aggression in convict cichlid fish (*Cryptoheros nigrofasciatus*)'. Society for Integrative & Comparative Biology, San Antonio, TX. January 2008

Garcia M^U, Tuy S^U, **Earley RL** (2007). 'The role of NMDA receptors in social memory: exploring neurobiological correlates of individual recognition in the context of dominance interactions'. Annual Biomedical Research Conference for Minority Students (ABRCMS), Austin, TX. November 2007.

Copeland DL^U, **Earley RL** (2007). 'Metabolic costs of fighting in two cichlid fish species'. Annual Biomedical Research Conference for Minority Students (ABRCMS), Austin, TX. November 2007.

Campbell J^U, Janzen W^U, **Earley RL** (2007). 'Bidirectional relationships between hormones and aggressive behavior in the clonal species, *Kryptolebias marmoratus*'. Annual Biomedical Research Conference for Minority Students (ABRCMS), Austin, TX. November 2007.

Earley RL, Wong S^G, Campbell J^U, Copeland D^U (2007). ‘Exploring the relationship between cortisol and aggression in convict cichlid fish (*Archocentrus nigrofasciatus*): insights using non-invasive methodologies for hormone collection. Workshop on *Bioactive Water Borne Chemicals: Pheromones and Welfare Indicators in Fish*, Centro de Ciências do Mar do Algarve (Center of Marine Sciences and University of Algarve), Faro, Portugal. September 2007.

Earley RL, Rodgers EW, Lorenzi V, Cassell B, Grober MS (2007). ‘War of the sexes: similar rules of engagement, different endocrine responses’. Animal Behavior Society, Burlington, VT. August 2007.

Wong S^G, Dykstra M^U & **Earley RL** (2007). ‘Validating a non-invasive hormone collection method in fish and its relevance to hormone-behavior relationships’. Animal Behavior Society, Burlington, VT. August 2007

Campbell J^U, Janzen W^U & **Earley RL** (2007). ‘Does variability in stress hormones predict or respond to aggressive behavior? A test in the mangrove killifish *Kryptolebias marmoratus*’. Animal Behavior Society, Burlington, VT. August 2007.

Copeland D^U, **Earley RL** (2007). ‘Winners and losers mount different energetic responses to fighting’. Animal Behavior Society, Burlington, VT. August 2007.

Katti

Katti, M. 2008. Becoming urban: behavioral and evolutionary implications of living in the city. Oral presentation at the Urban Biodiversity and Design Conference, being held in Erfurt, Germany, 21-24 May, 2008.

Kraft, K^G. and **Katti, M.** 2007. If you build it, who will come? Landbird response to riparian restoration at the San Joaquin River National Wildlife Refuge. Oral presentation to be made at the Riparian Habitat Joint Venture Conference: Integrating Riparian Habitat Conservation & Flood Management in California. Sacramento, CA, 4-6 December 2007.

Kraft, K.^G and **Katti, M.** 2007. If you build it, who will come? Landbird response to riparian restoration at the San Joaquin River National Wildlife Refuge. Joint meeting of the Ecological Society of America and Society for Ecological Restoration, San Jose, CA. 2007.

Kovacs

Kovacs, Shirley (2007). “Internship and Placement experiences of Professional Science Master’s Degree Programs—a Summary of the “Hot Topics” Session Outcomes”, given at the 5th *Biennial Meeting of Professional Science Masters Program Leaders*, Council of Graduate Schools, Hilton Hotel, Crystal City, VA, November 9, 2007.

Kovacs, Shirley (2008). “Professional Science Master’s Degrees at CSU-Fresno”, given at the *Professional Science Master's (PSM) Workshop: What is a PSM, What is The Role of the PSM in California, and What are the Keys to Success of these Innovative Master's Degree Programs in the Sciences?*, 20th Annual Symposium for CSUPERB, Marriot Hotel, Oakland, CA, January 11, 2008.

Vozikis, George S. and **Shirley Kovacs** (2008). “Shifting the traditional university towards an entrepreneurial university at California State University, Fresno”, Association of the Advancement of Colleges and Schools of Business Annual Meeting, Honolulu, HI, April 13, 2008.

Kovacs, S. (2008). “Implementing a State-wide PSM Program: Stories from California—a Program Director’s View”, given at the *National Governors Association Policy Academy* on “State Strategies to Meet Emerging Workforce Needs through the Professional Science Masters Program”, Sacramento Radisson Hotel, Sacramento, CA, June 2, 2008.

Müller

Thompson, Sean^G and **Ulrike Müller** (2008). “How fish turn – an experimental study of motion patterns” by Sean Thompson (1st author) & Ulrike Müller (co-author) at the Central California Research Symposium, Fresno, Ca, April 16, 2008.

Prince

Talks:

Prince, J. 2008. “The genetics of resistance and virulence in the pepper-*P. capsici* pathosystem.” Given at the 1st International *Phytophthora capsici* Meeting, Islamorada, Florida, November 27 – 29, 2007.

Prince, J. (2007) “Attacking pepper root rot from both sides: genetics of resistance and virulence.” Given in the pepper satellite session at The 4th Solanaceae Genome Workshop (SOL 2007), Jeju, Korea, September 13, 2007.

Posters:

Blanchard NE^G, Storey DB^G, Kellogg C^G, Guerra M^U, Gomes V^G, Sidhu GS, Lamour K, and **Prince JP.** 2008. A linkage map of *Phytophthora capsici* and the mapping of QTL related to virulence on pepper. Proceedings, Plant and Animal Genome XVI.

Yao, J, **Prince, J.**, Kozik, A., and Van Deynze, A. 2008. A whole-genome microarray for marker discovery, genotyping and mapping in pepper. Proceedings, Plant and Animal Genome XVI. January 2008

Prince, J., Blanchard, N^G, Lamour, K, Sidhu, G, Ogundiwin, E, and Donnelly, L.^G 2007. Attacking pepper root rot from both sides: genetics of resistance and virulence. Proceedings, The 4th Solanaceae Genome Workshop (SOL 2007). September 2007

Van Deynze, A, Yao, J, Choi, D, **Prince, J**, and Kozik, A. 2007. Development of a massively parallel platform for genotyping and expression analysis in pepper. Proceedings, The 4th Solanaceae Genome Workshop (SOL 2007).

*Student presenters. #Other CSUF students.

Rawat

Rawat M. 2008. Molecular tools for biomedical research (University of California- San Francisco- April 2008).

Dominguez LM, A Mohan, **M Rawat**, A. Wright. 2008. Dual detoxification of mercury And 2, 4-D by microorganisms. (29th Annual Central California Research Symposium, April 2008).

Rawat M. 2008. Mycothiol and disulfide stress (USDA- Agricultural Research Service, Parlier- February 2008).

Johnson CL^G, **M Rawat**. 2008. Characterization of disulfide stress in *Mycobacterium smegmatis*. (Twentieth CSU Biotechnology Symposium, January 2008).

Robinson KL^U, **M Rawat**. 2008. Analysis of genes involved in drug resistance and multi-drug resistance in *Mycobacterium smegmatis*. (Twentieth CSU Biotechnology Symposium, January 2008).

Cadiz VC^G, T Lee^G, **M Rawat**. 2008. *Mycobacterium smegmatis* mc²155 mutants disrupted in universal stress proteins are sensitive to various stresses. (Twentieth CSUPERB CSU Biotechnology Symposium, January 2008).

Rawat M. 2007. Mycobacteria: the good, the bad, and the ugly. (August 2007, Queens University, Belfast, UK).

Riley

Nilmeier-Schwandt SE^G and **Riley LG** (2008) THE EFFECTS OF GHRELIN ON GLUCOSE METABOLISM IN THE TILAPIA, *OREOCHROMIS MOSSAMBICUS*. 6th International Symposium on Fish Endocrinology. Calgary, Canada. June 21-26, 2008.

Devadi R^G, Walker AA^U, **Riley LG** (2008) TEMPERATURE AND FASTING DIFFERENTIALLY REGULATE GLUCOSE METABOLISM AND GHRELIN LEVELS IN THE TILAPIA, *OREOCHROMIS MOSSAMBICUS*. 6th International Symposium on Fish Endocrinology. Calgary, Canada. June 21-26, 2008.

Biga, PR and **Riley, LG** (2008) The growth axis in fish: where does myostatin contribute? 6th International Symposium on Fish Endocrinology. Calgary, Canada. June 21-26, 2008.

Borski RJ, Picha ME, Strom CN, **Riley LG** (2008). SOMATOTROPH REGULATION BY METABOLIC STATE, TEMPERATURE, AND GROWTH AND APPETITE REGULATORY HORMONES IN HYBRID STRIPED BASS. 6th International Symposium on Fish Endocrinology. Calgary, Canada. June 21-26, 2008.

Sarath C. Peddu^G, and **Larry G. Riley** (2008). Pre and Postprandial Effects on the Ghrelin Receptors in the Mozambique Tilapia (*Oreochromis mossambicus*). 29th Annual Central California Research Symposium, Fresno, Ca April 2008.

Alicia Walker^U, Bradley K. Fox, Tetsuya Hirano, E. Gordon Grau, **Larry G. Riley** (2008). Investigate the Effects of Glucose and Insulin on Glucose Metabolism, the GH/IGF-I axis and on GRLN Production in the tilapia. 29th Annual Central California Research Symposium, Fresno, Ca April 2008.

Larry G. Riley (2008). Comparative Insights into Growth & Glucose Metabolism. UCSF-Fresno Research Group.

Alicia Walker^U, Bradley K. Fox, Tetsuya Hirano, E. Gordon Grau, **Larry G. Riley**. (2008) The Role of Insulin in Glucose Metabolism in Tilapia. Society for Integrative and Comparative Biology. San Antonio, TX. January 2008.

Casey P. Dorrough^U, Tetsuya Hirano, E. Gordon Grau, **Larry G. Riley**. (2008) Effect of Glucose on Ghrelin and on the GH/IGF-I Axis in the tilapia, *Oreochromis mossambicus*. Society for Integrative and Comparative Biology. San Antonio, TX. January 2008.

Larry G. Riley (2008). Investigating Ghrelin's Role in Regulating Growth & Metabolism. CSU Long Beach, California.

Schreiber

Backus, E. A., W. Holmes^G, B. Reardon, **F. Schreiber** and G. P. Walker. 2007. The sharpshooter X-wave: Correlation of an electrical penetration graph (EPG) waveform with xylem penetration during feeding of glassy-winged sharpshooter. Entomol. Soc. Am. Ann. Meeting, San Diego, CA, Dec. 2007.

Al-haddad, H^G, E. A. Backus and **F. Schreiber**. 2007. Salivary secretions of the glassy-winged sharpshooter, *Homalodisca vitripennis*: novel method of collection and protein profile. Entomol. Soc. Am. Ann. Meeting, San Diego, CA, Dec. 2007.

Tsukimura

Tsukimura, B. 2007. Factors Affecting Population Dynamics of the Invasive Chinese Mitten Crab, *Eriocheir sinensis*. Institute of Oceanology, Chinese Academy of Sciences, Qingdao, PR China, October 2007.

Tsukimura, B. 2007. Factors Affecting Population Dynamics of the Invasive Chinese Mitten Crab, *Eriocheir sinensis*. School of Life sciences Seminar, East China Normal University, Shanghai. PR China, October 2007.

Tsukimura, B. 2007. Factors Affecting Population Dynamics of the Invasive Chinese Mitten Crab, *Eriocheir sinensis*. College of Life Sciences, Key laboratory of Aquatic Genetic resources and Aquacultural Ecosystems, Shanghai Fisheries University, Shanghai, PR China.

Tsukimura, B. 2007. Environmental Factors Affecting Population Dynamics of the Invasive Chinese Mitten Crab, *Eriocheir sinensis*. Fresno City College, Science Club. 12/08/07.

Gonzales, V. and **Tsukimura, B.** 2008. A Key to the Brachyuran Megalopae of the San Francisco Bay Estuary. Society for Integrative and Comparative Biology Annual Meeting 2008: Jan. 2-6, San Antonio, TX.

Gonzales, V. and **Tsukimura, B.** 2008. The Identification of Brachyuran Megalopae of the San Francisco Bay Estuary. 28th Annual Central California Research Symposium. April 16, 2008.

Kotagiri, N.^G and **B. Tsukimura.** 2008. The rate of metabolism of methyl farnesoate in *Triops longicaudatus*. 28th Annual Central California Research Symposium. April 16, 2008.

Vang, F.^G, R. Earley, P. Kelley, L. Riley and **B. Tsukimura.** 2008. Potential Impacts of Selenium on California Red-Legged Frog (*Rana draytonii*). 28th Annual Central California Research Symposium. April 16, 2008.

Wright

A. Toribio and A. Wright. 2008. Investigating Propargyl Bromide Degradation by Soil Bacteria. *In* Abstracts for American Society for Microbiology 2007. American Society for Microbiology 108th Annual Meeting, Boston, Massachusetts, June 2008.

Lucia Rubio and Alice Wright. 2008. Using TRFLP to Detect Changes in the Microbial Communities in Aerated Soils. *In* Abstracts for American Society for Microbiology 2007. American Society for Microbiology 108th Annual Meeting, Boston, Massachusetts, June 2008.

A. Toribio and A. Wright. 2008. Propargyl Bromide as an Alternate Fumigant. Oral presentation at the California Research Symposium, Fresno CA. April, 2008.

Lucia Rubio and Alice Wright. 2008. Bacterial and Fungal Communities Composition in Aerated Soil. Oral presentation at the California Research Symposium, Fresno CA. April, 2008.

L.M. Dominguez, A. Mohan, M. Rawat, and A. Wright. 2008. Dual detoxification of Mercury and 2,4-D by microorganisms. Poster presented at California Research Symposium, Fresno CA. April, 2008.

L. Rubio, V. Gutierrez-Osborne, and A. Wright. 2007. Bacterial and Fungal Communities in Aerated Soils. Presented at 2008 SACNAS National Conference, October, 2007, Kansas City, Missouri.

A. Toribio, A. Johnson, and A. Wright. 2007. Propargyl Bromide Degradation in Soil.
Presented at 2008 SACNAS National Conference, October, 2007, Kansas City,
Missouri.

Chemistry Department

Saeed Attar

“Cycloruthenated complexes of chiral, bidentate secondary amines: Pre-catalysts for the asymmetric transfer hydrogenation of aromatic ketones”, presented along with the graduate student Bao Vue at the 235th National Meeting of the American Chemical Society, New Orleans (4/9/08), Division of Organic Chemistry, Abstract No. 578.

“Ruthenium(II)-catalyzed asymmetric transfer hydrogenation of aromatic ketones using a new planar chiral, diferrocenyl diaminodiphosphine ligand,” presented along with the undergraduate student Charles Grove at the 235th National Meeting of the American Chemical Society, New Orleans (4/9/08), Division of Organic Chemistry, Abstract No. 660.

“A Comparative Study of the Nematocidal Activity of Phenyl and Ferrocenyl Chalcones”, by Hassan Alhaddad, Zachary O’Brien, Saeed Attar, Alejandro Calderon-Urrea; presented at the 29th Annual Central California Research Symposium (4/16/08).

J P Choi

Jai-Pil Choi, Science of Metal Nanoparticles: From Fundamental Characterizations to Applications in Electrocatalysts and Sensors _, Chemistry-Departmental Seminar, 9/21/2008.

Jai-Pil Choi, Balasubramanian Ramjee, and Royce W. Murray, Electrochemical and Optical Properties of 1.1 nm-Sized Gold Nanoparticles Dissolved in the Aqueous Solutions _, 213th Electrochemical Society International Meeting, Phoenix, AZ, 5/19/2008.

David Frank

“Science Mania science show presented to GATE students visiting CSUF on March 12, 2008 at 1:00 p.m.

“Science Mania science show presented to West Hills Community College students visiting CSUF in March 2008.

Melissa Golden

Poster Presentation at the 2008 Metals in Biology Gordon Research Conference

Poster Presentation at the Spring 2008 National Meeting of the American Chemical Society in New Orleans

Presented research talk to the CSUF Chemistry Club

Presented work at the 2007 Workshop on X-ray Crystallography at UC San Diego in August 2007.

Undergraduates are presenting a research poster at the Central California Research Symposium

Joy Goto

J. J. Goto, *Drosophila melanogaster*: A Model for Metal Ion Homeostasis and Oxidative Stress, _ Bioanalysis in Oxidatives Stress (Biochemical Society), University of Exeter, United Kingdom, April 2-3, 2008. (poster)

J.J. Goto, A Toxin Fed *Drosophila* Model of Amyotrophic Lateral Sclerosis/Parkinsonism Dementia Complex (ALS/PDC), _ Department of Biology, California State University, San Bernardino, October, 19, 2007. (talk)

J.J. Goto, A Toxin Fed *Drosophila* Model of Amyotrophic Lateral Sclerosis/Parkinsonism Dementia Complex (ALS/PDC), _ Department of Chemistry, Indian Institute of Technology, Bombay, May 30, 2007. (talk)

Alam Hasson

Sukhdip Singh, Yesenia Ibarra and Alam Hasson, “Branching ratios for the reaction of hydroperoxy radicals with propionyl peroxy and butionyl peroxy radicals”, Spring National Meeting of the National American Chemical Society, New Orleans LA, April 6th _ 10th, 2008.

Phillip Alanis, Mark Sorenson, Dale Sullivan, Brian Shamp, Koua Cha and Alam Hasson, “Measurements of Volatile Fatty Acid Emissions from California Dairies”, Spring National Meeting of the National American Chemical Society, New Orleans LA, April 6th - 10th, 2008.

Kennedy Vu, Enrique Lopez, Myeong Chung, Christina Sabado, Dora Rendulic, Mark Sorenson, Laiky Nor and Alam Hasson, “Size-segregated measurements of organic compounds in particulate matter in Central California”, Spring National Meeting of the National American Chemical Society, New Orleans LA, April 6th - 10th, 2008.

Dianne Lim, Kennedy Vu, Akihiro Ikeda, Tim Tyner and Alam Hasson, “Investigation of quinones as biomarkers for exposure to air pollution”, Spring National Meeting of the National American Chemical Society, New Orleans LA, April 6th - 10th, 2008.

Kennedy Vu, Dianne Lim, Akihiro Ikeda, Christina Sabado, Tim Tyner and Alam Hasson, “An investigation of quinones as biomarkers for exposure to air pollution”, SACNAS National Meeting, Kansas City MO, October 11th - 14th 2007

Kennedy Vu, Jarrad Merriman, Tim Tyner, Victor McCray, Kent Yamaguchi, Dianne Lim, Mukesh Misra and Alam Hasson, “Diesel Exhaust Chemicals Identified in

Cerebrospinal Fluid and Possible Effects in Various Regions of the Brain in a Rodent Model”, Annual Biomedical Research Conference for Minority Students, Austin Convention Center, Austin TX, November 7th - 10th 2007

Alam Hasson, “The Atmospheric Chemistry of Peroxy Radicals”, NOAA-ISET Seminar Series, NCA&T University, November 8th, 2007.

Presentations (Other)

Akihiro Ikeda, Dianne Lim, Kennedy Vu, Tim Tyner and Alam Hasson, “Investigation of Biomarkers as a Measure of Exposure to Air Pollutants”, 29th Annual Central California Research Symposium, California State University Fresno, April 16th, 2008.

Kennedy Vu, Dianne Lim, Akihiro Ikeda, Tim Tyner, Jose Joseph and Alam Hasson, “An Investigation of the Relationship between Air Pollutants and Lung Function”, 29th Annual Central California Research Symposium, California State University Fresno, April 16th, 2008.

Darius Khorshidchehr, Kennedy Vu, Enrique Lopez, Akihiro Ikeda, Myeong Chung, Maria Woodcock and Alam Hasson, “Investigation of levels and sources of organic chemicals in particulate matter in Central California”, 29th Annual Central California Research Symposium, California State University Fresno, April 16th, 2008.

Samuel Hernandez, Sukhdip Singh, Yesenia Ibarra and Alam S. Hasson, “Smog Chamber Studies of the Reactions of Butanal and Pentanal with Chlorine Atoms”, 29th Annual Central California Research Symposium, California State University Fresno, April 16th, 2008.

Sukhdip Singh, Yesenia Ibarra, Samuel Hernandez and Alam Hasson, “Branching ratios for the reaction of hydroperoxy radicals with propionyl peroxy and butionyl peroxy radicals”, 25th Informal. Symposium on Kinetics and Photochemical Processes in the Atmosphere, UCLA, February 20th, 2008 and 29th Annual Central California Research Symposium, California State University Fresno, April 16th, 2008.

Phillip Alanis, Mark Sorenson, Brian Shamp and Alam Hasson, “Quantification of Volatile Fatty Acid Emissions from California Dairy Facilities”, 25th Informal. Symposium on Kinetics and Photochemical Processes in the Atmosphere, UCLA, February 20th, 2008 and 29th Annual Central California Research Symposium, California State University Fresno, April 16th, 2008.

Kennedy Vu, Dianne Lim, Akihiro Ikeda, Christina Sabado, Tim Tyner and Alam Hasson, “An investigation of quinones as biomarkers for exposure to air pollution”, 25th Informal. Symposium on Kinetics and Photochemical Processes in the Atmosphere, UCLA, February 20th, 2008.

Kennedy Vu, Jarrad Merriman, Tim Tyner, Victor McCray, Kent Yamaguchi, Dianne Lim, Mukesh Misra and Alam Hasson, “Diesel Exhaust Chemicals Identified in

Cerebrospinal Fluid and Possible Effects in Various Regions of the Brain in a Rodent Model”, 20th Annual CSU Biotechnology Symposium, Oakland CA, January 11th - 13th 2008.

Krish Krishnan

E. Reese* and V.V. Krishnan, “Convergent evolution of antifreeze proteins”, Central California Research Symposium, California State University Fresno, Fresno, April 2007 (Best Poster Award).

J. Singh*, G. Ghotra*, R. Jayakumar, Y. Duan and V.V. Krishnan, “Influence of mutations on the folding transitions of proteins: FSD-1 as a model system”, Central California Research Symposium, California State University Fresno, Fresno, April 2007.

M.E. Colvin, E.Y. Lau, V.V. Krishnan and M. Rexach, “Molecular dynamics simulations of natively unfolded nucleoporins”, Biophysical Journal, 399A-399A Suppl. S (2007).

K.S. Venkateswaran, A. W. Fowler, D. J. Carbonell, V. V. Krishnan, K. G. Oliver, R. O. Dillman and S. R. Selvan (2007). “Application of xMAP Technology for Personalized Medicine and Immune Monitoring of Cancer Vaccine Therapy”, Luminex, XMAP symposium. Donna Point, CA, February 2007.

K. Janatpour, I.H. Khan, R. Ravindran, R. Gosselin, V. V. Krishnan and P. A. Luciw (2007). “Multiplex Assay for Antibody Detection and Profiling Plasma Protein Biomarkers for Improved Diagnosis and Prognosis of Heparin Induced Thrombocytopenia (HIT)”, University of California School of Medicine Research Symposium. Tahoe City, Tahoe, CA.

Khan, I. H., R. Ravindran, L. Ziman, J. Kendall, S. Frazer, V. V. Krishnan and P. A. Luciw (2007). “Serodetection of Mouse Infectious Pathogens by Multiplex Immunoassay”, Luminex, XMAP symposium. Donna Point, CA

Invited Talk:

V.V. Krishnan, Y. Yeh, W.H. Fink and Y. Duan, Antifreeze Glycoproteins to function as intrinsically unstructured proteins, American Chemical Society, Boston, August 19-23, 2007.

Kevin Miller

Guest speaker at Café Scientifique: Topic was personal identification.

Kin Ng

“Toward Nanoscale Chemical Imaging: Investigation of Tip-Enhanced, Near-Field Optical Methods for Desorption/Ionization Mass Spectrometry at Atmospheric Pressure”, Douglas E. Goeringer, Kent A. Meyer, Olga S. Ovchinnikova, and Kin Ng, The 56th ASMS Conference on Mass Spectrometry, Denver, Colorado, June 1-5, 2008.

“Single Photon Emission Behavior from Indium Phosphide Nanoparticles”, K. Meyer, W.

Whitten, R. Shaw, K. Ng, and T. Zeng, The 235th ACS National Meeting, New Orleans, LA, April 6-10, 2008.

Eric Person

“Effect of Hematocrit Concentrations on Forensic Blood Alcohol Analysis”, Savopolos J*, Person EC. 2008 Apr 16; 29th Annual Central California Research Symposium (Fresno, CA).

“Effects of Evaporation and Sampling in the Forensic Analysis of Fire Debris Evidence”, Woodcock M*, Person EC. 2008 Apr 16; 29th Annual Central California Research Symposium (Fresno, CA).

“Automated Identification of Ignitable Liquid Residues in Fire Debris”, Yates S*, Person EC. 2008 Apr 16; 29th Annual Central California Research Symposium (Fresno, CA).

“A Simple Practical Method of Assessing In-Class Participation in Quantitative Problem Solving Is Predictive of Student Performance on Exams”, Person EC, Savino E*, Ivie J. 2008 Mar 28; Regional Conference on Excellence in Teaching and Learning (Fresno, CA).

“CSI Exposed: The Real World of Forensic Science”, Person EC. 2008 Mar 7; California State University Stanislaus Biology Department Seminar (Turlock, CA).

“The Role of the Chemist in Clandestine Laboratory Investigation”, Person EC. 2008 Mar 5; San Jose State Forensic Science Program Seminar (San Jose, CA).

“The Role of the Chemist in Clandestine Laboratory Investigation”, Person EC. 2008 Feb 12; University of the Pacific Chemistry Department Seminar (Stockton, CA).

“CSI Exposed: The Real World of Forensic Science”, Person EC. 2008 Feb 1; California Polytechnic Institute Biology Department Seminar (San Luis Obispo, CA).

“Extraction Conditions for Phenylephrine in Clandestine Laboratory Case Samples - Project Update”, Person EC, Scott S*, Sunderson N*. 2007 Sept 8; Clandestine Laboratory Investigating Chemists 17th Annual Technical Training Seminar (Las Vegas, NV).

“Assessing Uncertainty in Forensic Measurements: A review of definitions, concepts, assumptions, and methods relevant to the interpretation for forensic data”, Person EC. 2007 Sept 7; Clandestine Laboratory Investigating Chemists 17th Annual Technical Training Seminar (Las Vegas, NV).

“Sample Preparation Techniques: A review of techniques, theory, and application to the analysis of forensic drug and clandestine laboratory evidence”, Person EC. 2007 Sept 5; Clandestine Laboratory Investigating Chemists 17th Annual Technical Training Seminar (Las Vegas, NV).

“Chemistry Refresher for New Drug Analysts - Part II (2 hours)”, Person EC. 2007 June 26; California Criminalistics Institute (Fresno, CA).

“Chemistry Refresher for New Drug Analysts - Part I (2 hours)”, Person EC. 2007 May 15; California Criminalistics Institute (Fresno, CA).

Computer Science Department

Presentations

Dr. Brent Auernheimer

B. Auernheimer, M. Tsai, M. Feist. A Fresno State approach to video over IP. 11th Annual CATS conference, March 2008, Sonoma.

B. Auernheimer. The changing landscape of learning management systems. Annual Conference on Excellence in Teaching and Learning. Fresno State, March 2008.

B. Auernheimer. M. Tsai, M. Feist. A Fresno State approach to video over IP. Annual Conference on Excellence in Teaching and Learning. Fresno State, March 2008.

Ming Li

“Adaptive Frame Concatenation Mechanism for QoS in Multi-rate Wireless Ad Hoc Networks”, *IEEE INFOCOM 2008*, Phoenix, Arizona, April 2008.

“On Supporting High Quality 3D Geometry Multicasting over IEEE 802.11 Wireless LANs”, *IEEE Broadnets*, September 13, 2007.

Earth and Environmental Science Department

Presentations

Anglen, John Jeffrey; Lehman, Thomas M. ; and Wagner, Jonathan R. Taphonomy of a *Deinosuchus riograndensis* Quarry in the Aguiá Formation (Upper Cretaceous), Big Bend National Park, Texas

Anglen, John Jeffrey; Chatters, James C.; and Dundas, Robert G. honomy of Isolated Skeletal Elements from the Fairmead Lilldfill Locality (Pleistocene, Irvingtonian Madera County, California)

Wonderly, A., and K. Putirka (2007) Olivine crystallization and mantle potential temperatures beneath Yellowstone, Abstracts, American Geophysical Union, fall meeting, V53B-I324.

Putirka, K., and Busby, C..!. (2007) High K volcanism in the Sierra Nevada: A signal for the initiation of Walker Lane Faulting, and range uplift, not lithosphere delamination, Abstracts, American Geophysical Union, fall meeting, T33A-II46.

Busby, C.L., Hagan, J., and Putirka, K. (2007) Geologic evidence for eruption of voluminous high-K magmas at the onset of Walker Lane transtensional faulting, central Sierra Nevada: birth of a plate margin, not root delamination, Abstracts, American Geophysical Union, fall meeting, T33A-II45.

Busby, C.L., Hagan, J., Putirka, K., Wagner, D., and Gans, P. (2007) Birth of a plate boundary: voluminous high- K magmatism and transtension along the central Sierra range front, California, Geol Soc. Am. Penrose Conference.

Putirka, K. (2006) Petrologic evidence that most ocean islands derive from thermally driven mantle plumes, Abstracts, American Geophysical Union, fall meeting, V33D07.

Fresno County Planning Department (8/28/2007) @

Fresno County Water Advisory Board

@CSU Long Beach, invited seminar (3/19/2008)

- Central valley Regional water Quality Control Board - CV Salt Technical Advisory Committee meetings
- Lawrence Berkeley National Laboratory (10/11/2007)
- American Geophysical Union Fall Meeting, December 10, 2007.

Tiburon City Planning Department Design Review Board, public comment (4/17/2008)

- Invited participant in a conference titled "Pollen-Mediated gene flow in the Environment", an EPA Research Workshop, held at the Crowne Plaza Washington National Airport, Arlington VA from July 23 to 24, 2008. Asked to contribute to a final "White Paper" report.
- Traveled to San Jose State University to give an invited lecture for the Department of Geology seminar series.

1. Geological Society of America Annual Meeting, October 2007. As lead author (Wakabayashi and DiIek, 2007, in publication list) 2. Geological Society of America Annual Meeting, October 2007. As second author (Snow et al., 2007, in publication list)

1. Wang, Z., Louis A. Tesseo (Poster). Upper San Joaquin River: A Geostatistical Analysis of the Snowpack water yield in the upper San Joaquin River watershed. GIS Day at Fresno State, Fresno, CA, Nov. 14, 2007.
2. Ori Sartono, Nelson F. Bernal, C. John Suen, Zhi Wang (Poster). Groundwater Flow through a Fractured Rock Aquifer in the Sierra Nevada Foothills of California. AGU 2007 Fall Meeting, San Francisco, California, December] 0-14, 2007.
3. Wang, Z., Louis A. Tesseo (Oral presentation). Spatial Analysis of Snowpack Water Resources in Sierra Nevada for San Joaquin River. International Annual Meetings of the American Society of Agronomy, Crop Science

- Society of America, and Soil Science Society of America in New Orleans, Louisiana. Nov. 4-8, 2007.
4. Xinxiao Yu, Derong Su, Yuan Tian, Zhi Wang (Oral presentation)., Performance of ridge and furrow water-harvesting system in Loess Plateau of China. International Annual Meetings of the American Society of Agronomy. Crop Science Society of America, and Soil Science Society of America in New Orleans, Louisiana. Nov. 4-8, 2007.
 5. Qli Sartono, Zhi Wang, C. John Suen, and K. D Schmidt (Poster). Parameterization of a fractured hard rock aquifer in western foothills of the Sierra Nevada, California, GSA Annual Meeting and Exposition. Denver, Colorado, Oct 28-31, 2007.

Mathematics Department

Amarasinghe, R. & Premadasa K., "Encouraging teachers to conduct lesson studies: A Californian and an International experience," *The Seventh Annual Lesson Study Conference*, May 8–10, 2008 in Chicago, IL

Amarasinghe, R. & Premadasa K., "Conducting a Mathematics Professional Development Workshop Across the World over Video Conference Facilities," *Society for Information Technology & Teacher Education (SITE) International Conference*, March 2008, Las Vegas, Nevada.

Amarasinghe, R., A. Tuska and P. Tannenbaum, "Curricular Innovation for Student Success: Fostering Student Engagement and Deep Learning in the Exploring Mathematics Course," *2008 Regional Conference on Excellence in Teaching and Learning*, CSU Fresno, March 28, 2008.

Caprau, Carmen, "The universal $sl(2)$ -link cohomology via webs and foams," *American Mathematical Society Sectional Meeting*, Claremont McKenna College, Claremont, May 2008.

Caprau, Carmen, *Link homologies via webs and foams*, (2 lectures and 2 seminar presentations), University of Iowa, Iowa City, April 2008

Caprau, Carmen, "On the Khovanov-Rozansky cohomology," *American Mathematical Society Sectional Meeting*, Louisiana State University, Baton Rouge, March 2008.

Caprau, Carmen, "On a generalized version of the Khovanov-Rozansky Homology for $n = 2$," *Workshop on Knots and Quantum Computing*, University of Texas at Dallas, December 2007.

Caprau, Carmen, "*The universal $sl(2)$ -link cohomology via webs and foams*," *Knotting Mathematics and Art: International Conference in Low Dimensional Topology and Mathematical Art*, University of South Florida, Tampa, November 2007.

Caprau, Carmen, "On the universal $sl(2)$ -link cohomology," *Cascade Topology Seminar*, Boise State University, October 2007.

De Leon, Doreen, "A New Wavelet Multigrid Method Applied to the Incompressible Navier-Stokes Problem," *Joint Meeting of American Mathematical Society and Mathematical Association of America*, San Diego, Jan. 2008.

Nogin, Maria, "Braids, knots, and links (Trenzas, nudos, y cadenas)", *Second CSUCI-UAEH Joint Meeting*, California State University Channel Islands, Camarillo, CA, June 2007.

Nogin, Maria, "WeBWorK, a Web-based Homework System", *2008 Summer Technology Institute*, Fresno City College and California State University, Fresno, CA, May 20, 2008.

Nogin, Maria, "Dynamic Topological Logic of the Real Line", *American Mathematical Society Spring Western Section Meeting*, Claremont, CA, May 3, 2008.

Piotrowski, Andrzej, "Distributions of Zeros of Polynomials," *Joint Meeting of American Mathematical Society and Mathematical Association of America*, San Diego, Jan. 2008.

Tuska, Agnes, "The Effects of Participating in Lesson Studies on Practices of Teaching Mathematics," *The Mathematics Education into the 21st Century Project's International Conference*, Charlotte, North Carolina, September 7-12, 2007.

Tuska, Agnes, "Instructional Innovations for Improved Student Learning," *California Mathematics Council, Southern Session Annual Conference*, Palm Springs, November, 2007.

Tuska, Agnes, "Instructional Innovations for Improved Student Learning," *California Mathematics Council, Northern Session Annual Conference*, Asilomar, December, 2007.

Ke Wu, "Minimum Distance Estimation in Two-Sample Scale Problem Under the Partial Koziol-Green Model", *2007 Joint Statistical Meetings (JSM)*, Salt Lake City, Utah, August 2007.

Physics Department

Manfred Bucher

"Universal model of superconductivity," CSU Fresno Physics Department Colloquium talk, April 4, 2008.

Yongsheng Gao

"Electron efficiency and fake rates using $Z \rightarrow e+e-$ reflections" ATLAS Electron/Photon Combined Working Group meeting, CERN, August 30, 2007.

“*TauRec with HPTV and 12.0.6 using $Z \rightarrow e+e-$ and reflections,*” ATLAS Tau Working Group meeting, CERN, September 18, 2007.

“*Road to discovery of ATLAS/LHC,*” Physics Colloquium, CSU Fresno, February 8, 2008.

“*Road to discovery of ATLAS/LHC,*” Physics Colloquium, CSU Dominguez Hills, May 5, 2008.

Ray Hall

“*Demarcation: Is There a Sharp Line Between Science and Pseudoscience?*”, “What Physicists Do” Lecture Series, California State University, Sonoma, March 3, 2008, Sonoma, CA.

“*Deep Time: The Amazing Age of the Earth and Universe,*” Central Valley Cafe Scientifique, May 5, 2008, Fresno, CA.

Pei-Chun Ho

P.-C. Ho, T. Yanagisawa, N. P. Butch, W. M. Yuhasz, C. C. Robinson, A. A. Dooraghi, and M. B. Maple, “*A comparison of the normal and superconducting state properties of $Pr(Os_{1-x}Ru_x)_4Sb_{12}$ and $Pr_{1-x}Nd_xOs_4Sb_{12}$,*” poster at **SCES’07 (the International Conference on Strongly Correlated Electron Systems)**, May 13-18, Houston, Texas; Program and Abstracts, p. 39, Poster Session I-76-Superconductivity-Unconventional non-High T_c (2007)

T. Yanagisawa, W. M. Yuhasz, P.-C. Ho, M. B. Maple, H. Watanabe, Y. Yasumoto, Y. Nemoto, T. Goto, Z. Henkie, and A. Pietraszko, “*Ultrasound study of the filled skutterudite compound $NdOs_4Sb_{12}$,*” invited talk at **SCES’07 (the International Conference on Strongly Correlated Electron Systems)**, May 13-18, Houston, Texas; Program and Abstracts, p. 138, Heavy fermion II-1 (2007).

J. Singleton, P.-C. Ho, W. M. Yuhasz, T. Yanagisawa, T. A. Sayles, N. P. Butch, M. B. Maple, P. Goddard, A. Pietraszko, R. Wawryk, Z. Henkie, and H. Harima, “*Fermi-surface topology and field-dependent effective masses in the filled skutterudite $PrOs_4As_{12}$,*” invited talk at **SCES’07 (the International Conference on Strongly Correlated Electron Systems)**, May 13-18, Houston, Texas; Program and Abstracts, p. 139, Heavy fermion II-3 (2007).

P.-C. Ho, J. Singleton, M. B. Maple, P. Goddard, and T. Yanagisawa “*High-field de Haas-van Alphen investigation of the filled skutterudite compound $NdOs_4Sb_{12}$,*” contributed talk at **Annual APS March Meeting 2008**, March 10-14, New Orleans, Louisiana; Abstract # P12.00005 (2008).

R. Baumbach, P.-C. Ho, T. Sayles, M. B. Maple, R. Wawryk, T. Circhorek, A. Pietraszko, and Z. Heinkie, “*Non-Fermi liquid behavior in the filled skutterudite*

compound $CeRu_4As_{12}$,” contributed talk at **Annual APS March Meeting 2008**, March 10-14, New Orleans, Louisiana; Abstract # P12.00006 (2008).

N. Kurita, H.-O. Lee, Y. Tokiwa, E. D. Bauer, J. Thompson, Z. Fisk, P.-C. Ho, M. B. Maple, and R. Movshovich, “*Low-temperature thermal and transport properties of single-crystalline $Ce_4Pt_{12}Sn_{25}$* ,” contributed talk at **Annual APS March Meeting 2008**, March 10-14, New Orleans, Louisiana; Abstract # P12.00007 (2008).

M. M. Qazilbash, G. O. Andreev, D. N. Basov, P.-C. Ho, M. B. Maple, M. Brehm, F. Keilmann, A. V. Balatsky, B.-G. Chae, B. J. Kim, S. J. Yun, and H.-T. Kim, “*Mott transition in vanadium dioxide (VO_2) observed by infrared spectroscopy and nano-imaging*,” contributed talk at **Annual APS March Meeting 2008**, March 10-14, New Orleans, Louisiana; Abstract # V12.00004 (2008).

D. G. Romero and P.-C. Ho, “*Progress towards growth and characterization of rare-earth nanoparticles using the inverse micelle method*,” Poster presentation at **Annual APS March Meeting 2008**, March 10-14, New Orleans, Louisiana; Abstract # K1.00092 (2008).

Pei-Chun Ho, “*Study of Unconventional Superconductivity in $PrOs_4Sb_{12}$ via Chemical Substitution*”, colloquium presentation at Fresno City College, Fresno, California, Apr. 4, 2008.

Amir Huda

T. Kurimoto, J.V. H. Constable, S. Hood, and A. Huda, “*Response of *Arabidopsis thaliana* to Ionizing Radiation*,” Oral Presentation at the Fourth International Summer School on Nuclear Physics Methods and Accelerators in Biology and Medicine, Prague, Czech Republic, July 8-19, 2007; AIP Conference Proceedings pages 290-1.

M.A. Thomas, N. Rajakumar, S. Lipnick, G. Verma, R. Kumar, A. Huda, et. al. “*Diffusion Tensor Imaging and Three-dimensional MR Spectroscopic Imaging of Low Grade Hepatic Encephalopathy*,” Oral Presentation at the RSNA Annual Meeting in Chicago, IL, November 25-30, 2007.

Frederick Ringwald

Ringwald, F. A. 2008, colloquium, Department of Physics, California State University, Hayward, “Research Opportunities for Students at Fresno State’s Observatories” (April 4)

Douglas Singleton

“*Hawking and Unruh radiation as tunneling*” 23rd Pacific Coast Gravity Meeting, CalTech, CA March 2007.

“*Hawking and Unruh Radiation Made Easy*”, Physics Seminar, CSU Pomona, CA April 2007.

“*Phantom energy from graded algebras*”, Symmetry 2007, Kyiv, Ukraine June 2007.

“*Relationship between Unruh and Sokolov-Ternov effects*”, APS, CA section Meeting, LBNL Berkeley, CA October 2007.

“*Hawking Radiation 101*” Physics Colloquium, CSU Fresno, CA February 2008.

“*Hawking and Unruh Radiation made Simple*”, CSU Sacramento, CA March 2008.

Daqing Zhang

“*Experimental Study of Electrical Properties of ZnO Nanowire Random Networks for Gas Sensing and Electronic Devices*”, Daqing Zhang, Sirisha Chava, Chris Berven, Anirbaan Mukherjee, and Vanvilai Katkanant, APS March Meeting, New Orleans, LA, March 10-14, 2008.

“*CO Gas Sensing with ZnO Nanowire Mat*”, Sirisha Chava, Daqing Zhang, and Chris Berven, APS March Meeting, New Orleans, LA, March 10-14, 2008.

Psychology Department

Ivie, J. L. (April, 2008). Affects of test taking strategies on computer adaptive test scores. Paper presented at the Western Psychological Association: Irvine, CA.

Jones, C. (2007). Trajectories of psychological health from age 14 to 76: A finite mixture modeling analysis. The Gerontological Society of America.

Levine, R. (2007, May). A geography of time. Invited lecture, Second International School on Mind, Brain and Education, Erice, Sicily.

Levine, R. (2008, April). The Kindness of Strangers. Invited “Teaching Award Address” at the meeting of the Western Psychological Association, Irvine, California.

Mortimer, A. (2008, May). Empirically based treatments for Post Traumatic Stress Disorder. Invited talk presented at the predoctoral internship training program, Adult Mental Health, Kaiser Permanente, Fresno, CA.

Mortimer, A. (2008, May). Empirically based treatments for Panic Disorder. Invited talk presented at the predoctoral internship training program, Adult Mental Health, Kaiser Permanente, Fresno, CA.

Nesbit, S. M., & Conger, J. C. (November 2007). Differential Cognitive Responses to Provoking Driving Situations Using the ATSS Paradigm. Poster presented at the 41st Annual Convention of the Association for Behavior and Cognitive Therapy in Philadelphia, PA.

Oswald, K. M. (2007, July). *Identification of participant-created facial composites across delay*. Paper presented at the first International Conference on Psychology, Athens, Greece.

- Sharps, M.J., Janigian, J., Hess, A.B., Tuy, S., & Hayward, B. Categories of error in eyewitness identification. Western Psychological Association, Irvine, CA, April 10, 2008.
- Sharps, M.J. Careers and recent trends in experimental forensic psychology. Invited address, Center for Advanced Research and Technology, Clovis School System, Clovis, CA, October 24, 2007.
- Sharps, M.J. Experimental forensic psychology: Challenges and opportunities in modern context. Invited address, Center for Advanced Research and Technology, Clovis School System, Clovis, CA, October 24, 2007.
- Sharps, M.J., & Hess, A.B. Eyewitness identification in context: Toward a taxonomy of eyewitness error. Society for Police and Criminal Psychology, Springfield, MA, September 29, 2007.
- Sharps, M.J., & Price-Sharps, J.L. Cognitive processing and substance abuse in adults with ADHD tendencies. American Psychological Association, San Francisco, CA, August 19, 2007.
- Sharps, M.J., Hess, A.B., & Raney, B. Decision making and contextual information in environmental issues. American Psychological Association, San Francisco, CA, August 17, 2007.
- Triona, L. & Callanan, M. (2008, July). *Science Play: Comparing Children Alone, with Peers, and with Adults*. Poster to be presented at the annual meeting Cognitive Science Society, Washington, DC.
- Wilson, M. & Krating, M. A. (2008). *Roles of School Psychologists as Reflected Through Professional Publications*. Convention of National Association of School Psychologists: New Orleans, LA.
- Wilson, M. (2008). *Reading Interventions: the Second Time Around*. Convention of National Association of School Psychologists: New Orleans, LA.
- Zelezny, L. Efficacy of HeartMath Intervention to Improve Remedial Math Performance among College Students. Paper presented at the annual meeting of the Western Psychological Association, May 2008.
- Zelezny, L. Educational Efficacy of Applied Graduate Experience to Address Real World Problems. Paper presented at the annual meeting of the Western Psychological Association, May 2008.

Honors 2007-2008

Honors 2007-2008

Biology Department

Calderón-Urrea

Andreoli Biotechnology Service Award. CSU System-wide Award presented during the Awards Session at the 20th Annual CSU Biotechnology Symposium on January 12, 2008, at the Oakland Marriott City Center.

Faculty mentor of student receiving the Cobb Student Travel Award to attend the 5th International Congress of Nematology from Society of Nematologists in Brisbane, Australia. National Award from USDA-ARS.

Crosbie

President Northern California Parasitologists (regional affiliate of the American Society of Parasitology).

Earley

Nominated for Outstanding Advisor Award

Nominated for Marquis Who's Who in America

Research highlighted in textbook *Principles of Animal Behavior* (Lee Alan Dugatkin)

Kovacs

Professional Science Masters Program Director Representative, Panel Presentations for the "National Governors Association Policy Academy: State Strategies to Meet Emerging Workforce Needs through the Professional Science Masters Program", June 2, 2008, Sacramento, CA

National Advisory Board Member for the Professional Science Masters Programs (2006-present), Council of Graduate Schools, Washington, DC

Rawat

Biology Department Best Faculty Publication from 2007. Honored at Madden Library Reception, March 7, 2008

Riley

Faculty Mentor for Biotechnology Graduate Student Nominee for Graduate Recognition Week –Sarath Peddu^G

Research Experience for Undergraduates participant at University Alaska, Faculty Mentor for Rosemary Luzania^U

Central California Science Fair Award Winner - Kush Das (Buchanan High School)

Tsukimura

Certificate of Recognition for Scholarship, College of Science and Mathematics, California State University, Fresno, August, 2007.

Invited Professor to Chinese Academy of Science, Institute of Oceanology, Qingdao, China, October, 2007.

The Crustacean Society, Executive Board Officer, Liaison to the SICB, 2004 – present.

Wright

Received the Outstanding Faculty Award for Advising, Teaching and Advocating from the Ronald E. McNair Post-Baccalaureate Achievement Program, the Division of Graduate Studies, and the Division of Student Affairs.

Chemistry Department

Saeed Attar

Recipient of the Excellent Service Award □ from the American Chemical Society, San Joaquin Valley Local Section (October 2007).

Recipient of the 2007-08 Provost Award in Graduate Teaching and Mentoring □ at the California State University, Fresno (April 2008).

J P Choi

Recipient, College Faculty/Staff Performance Award, 2007.

Alam Hasson

Awarded 2008 USDA E. (Kika) de Garza Research Fellowship

Computer Science Department

Dr. Brent Auernheimer

President's Award of Excellence. California State University, Fresno. January 2008.

Earth and Environmental Science Department

Research Focus article (by Corneilia Class) related to Putirka (2008) (Geology, v. 36, no.4, April Issue in press).

News Item in *Geotimes* (Dec. 2007 issue) related to Putirka and Busby (2007), volcanism and tectonics of the Sierra Nevada

News Item in *Nature-Geosceince* related to Putirka and Busby (2007), volcanism and tectonics of the Sierra Nevada

U.S. Environmental Protection Agency: Selected by the Science Advisory Board of

the US. El',l to serve on the expert review panel for the "Report on the Environment".
(Featured on CSU System website [http://W\Y.l:Y~"0cbtatc,9sju/fgcuItLl@m](http://W\Y.l:Y~))

Chosen by the EES department to submit a paper to the Madden Library as an outstanding faculty publication titled "Long-distance GM pollen movement of creeping bentgrass using modeled wind trajectory analysis."

College of Science and Mathematics, Performance Award for 2007/20078 Award for attending the October 2007 Annual GSA Meeting. College of Science and Mathematics Scholarly and Creative Activity Award Assigned Time for Award 2008/2009

1. Provost's Research Activity Award (\$25,000), March 2008.
2. International Conference Session chair: Session #34 I: Surface, Subsurface Hydrological Processes and the Impact of Land Use Changes. Centennial ASA-CSSA-SSSA International Annual Meetings in New Orleans, LA, Nov. 4-8,2007.
3. Selected Scientist on E-print Network ([W\Y.l:Y~"0cbtatc,9sju/fgcuItLl@m](http://W\Y.l:Y~)), US Department of Energy, Office of Scientific and Technical Information (2006-)
4. Membership of Professional Organizations: American Geophysical Union (AGU), American Society of Agronomy (ASA), Soil Science Society of America (SSSA)

Mathematics Department

NONE

Physics Department

Ray Hall

Member Smittcamp Honors College Faculty. Fall of 2007 and Spring of 2008: Taught the upper-division GE Honors GE course *Revolutions in Science and Social Science* (Honors 102).

Gerardo Muñoz

Winning Thesis Chair, California State University, Fresno Division of Graduate Studies, May 2008. Thesis by Daniel Tennant, "Scattering of Light in Born-Infeld Electrodynamics" received the university's Outstanding Thesis Award for 2007-2008.

Psychology Department

Ivie, J. Tom Breen Professor of the Year, 2007-2008, Department of Psychology, California State University, Fresno

Jones, C: Served as a reverse site reviewer for a National Institute on Aging Program Project grant in Bethesda, Maryland.

Lachs, L, Outstanding Psychology Mentor, 2007-2008, Department of Psychology, CSU Fresno.

Levine, R. 2007 Western Psychological Association Outstanding Teacher of the Year Award (WPA)

Levine, R. 2007 Provost's Award: University Outstanding Teacher of the Year (California State University, Fresno)

Levine, R. 2007 Awarded Fellow status in the Western Psychological Association

Levine, R. 2007 Awarded Fellow status in the American Psychological Association (via Division One: General Psychology)

Nesbit. Campus Advisors Network Outstanding Advisor Award recipient for 2007 – 2008 academic year.

Sharps, Matthew, Fellow of the American College of Forensic Examiners Institute, 2007

Sharps, Matthew, Society for Police and Criminal Psychology Congress Award for Best Student Research Paper (Mentor and Co-Author), 2007

Yockey, R. Outstanding Faculty Publication (SPSS Demystified), Department of Psychology.

Zelezny, Lynnette, Professional Certificate, Management Development Program, Harvard University, June, 2007/

Zelezny, Lynnette, American Council of Education Fellow, 2008-2009

Grants 2007-2008

Biology Department

Andrews

Awarded

National Science Foundation \$500,000
Andrews, D. (2007). National *Project for the Recruitment of Science and Math Educators*.

National Science Foundation. Subcontract from CSU Chancellor's Office \$180,000
Andrews, D. (2007). *Thinking Locally, Linking Globally*.

Blumenshine

Awarded

CALFED-CA Dept. (Subcontract via Madera Co. Dr. Z. Wang Co-PI) \$187,000
Blumenshine, S. (2008-2009). Water Resource: Fresno River Watershed Assessment

Bush

Awarded

California State University, Fresno, NIH-RIMI \$4,405,208
Principal Investigators: Echerverria, Krishnan, Zelezny, **Bush** and Calderon-Urrea
(2007). "Developing Biomedical Research Infrastructure for California's Central Valley."

CSUF, NIH-RIMI subproject \$225,000
Bush, J. (2007). "The effects of Central Valley pesticides on breast epithelial cells in Hispanic/Latina farmworkers."

CSU-Fullerton, CSUPERB-Workshop \$15,000
Patel, N., Bush, J. (2007). "Development of Stem Cell Laboratory courses in the CSU system."

Pending

CSUF, NCI \$872,200
Bush, J., Vuori, K. (2008). "A CSUF-BIMRCC Partnership: Cancer Research and Training for Central California."

California Cancer Registry, American Cancer Society \$400,000
Mills, P., Bush, J. (2008). "Prostate Cancer, Pesticides and Polymorphisms in Metabolizing genes."

Not Funded

CSUF, NIH-AREA \$210,630
Bush, J. (2007). "Implementation of an Integrative Cell Culture and Stem Cell Laboratory Course at California State University, Fresno."

CSUF, Komen Foundation. \$49,999
Bush, J. (2007). "Biomarker screening of node+ vs node- breast cancer patients in Fresno County"

CSUF, HHMI-USEP. \$1,559,634
Bush, J. (2007). "Howard Hughes Undergraduate Biomolecular Screening (HHUBS) program."

CSUF, DoD-CDMRP. \$107,233
Bush, J. (2007). "Effects of a fatty acid synthase inhibitor on multidrug-resistant ovarian cancer cells."

CSUF, NSF-CCLI \$148,165
Bush, J. (2007). "Implementation of an Integrative Cell Culture and Stem Cell Laboratory Course at California State University, Fresno."

CSUF, NCI \$705,598
Bush, J., Vuori, K. (2007). "A CSUF-BIMRCC Partnership: Cancer Research and Training for Central California."

Cailliet

Continuing and New

North Pacific Research Board (NPRB) \$149,995

Ebert, D., G.M. Cailliet, J. Bizzarro, and W. Smith (2006-2008). Project No. 621. "Diet and trophic ecology of skates in Gulf of Alaska (*Raja* and *Bathyraja* spp.): foundational ecological information for ecosystem-based management of demersal resources." National Marine Fisheries Service, Southeast Regional Office via Mote Marine Laboratory. \$201,000

Cailliet, GM, D. Ebert, J. Bizzarro and W. Smith (2007-2008). "Highly Migratory Shark Fisheries Research by the National Shark Research Consortium (NSRC), Pacific Shark Research Center (PSRC; Moss Landing Marine Laboratories Component)." California Sea Grant, R/F-202. \$133,332

G. M. Cailliet and A. H. Andrews (2007-2009). "Determination of red (*Haliotis rufescens*) and white (*H. sorenseni*) abalone age and growth using the bomb radiocarbon signal and lead-dating."

North Pacific Research Board Project #715. \$135,274
Ebert, D.A. & Cailliet, G.M. (2007-2009). “Life History and Population Dynamics of Four Endemic Alaskan Skates: Determining Essential Biological Information for Effective Management of Bycatch and Target Species”

National Marine Fisheries Service, Southeast Regional Office, via Mote Marine Laboratory. \$319,634
Cailliet, GM, D. Ebert, and J. Bizzarro (2008-2009). “Highly Migratory Shark Fisheries Research by the National Shark Research Consortium (NSRC), Pacific Shark Research Center (PSRC; Moss Landing Marine Laboratories Component).”

Pending

NSF Proposal \$898,401
Ebert, D.A., Bizzarro, J.J., Cailliet, G.M., & Greene, H.G. “Resource utilization of central California chondrichthyans: baseline information for monitoring and management”.

Calderón-Urrea

Continuing

California State University, Fresno, NIH-MBRS. \$1,200,000 ~ \$300,000 per year
Calderón-Urrea, A (PI), A. Wright, J. Prince and S. Attar (2005). “RISE Program at Fresno State.”

New

NIH-RIMI (5 year) \$4,405,208
Echerverria, Krishnan, Zelezny, Bush and **Calderón-Urrea (Co-PI)** (2007). “Developing Biomedical Research Infrastructure for California’s Central Valley.”

Pending

California State University, Fresno, ARI-CATI \$174,000
Gour S. Choudhury (PI), **Calderón-Urrea, A. (Co-PI)**, Alice Wright (2007). “Biofuel From Food Processing Wastewater”.

Not Funded

NIH \$175,740 (to Fresno State)
Campbell, C., D.P. Romero, P.J. Sperry, B.A. Burke, **A. Calderón-Urrea (Co-PI)**, K.L. Hanna, Y. Shimidzu and P. Letourneau (2007). “Bridges to the Doctoral Degree Program.” University of Minnesota Medical School, Minneapolis, MN; California State Polytechnic University, Pomona, CA; California State University, Fresno, Fresno, CA.

Crosbie

Continuing

NSF-EID 0525731. \$101,511 (of overall \$2,000,000 grant).
Crosbie, P. (2005-2008). Identifying the flow and control of
pathogens from the land to the sea: tracking *Toxoplasma* from cats
to sea otters.

Earley

Awarded

Whitehall Foundation, Inc. \$30,000

Earley, R. (Grants-in-Aid; awarded 12/3/07) - (1 year) *Exploring behavioral variability
through neuroepigenetics.*

CSUPERB

\$15,000

Earley, R. (awarded 12/07) Faculty-Student Collaborative Research Seed Grant Program
Receptor-mediated shifts in serotonin metabolism: implications for aggressive behavior

Pending

National Science Foundation

\$159,651

Earley, R. (2 years); submitted 1/08. *Stress hormones and contest performance:
reciprocal
actions.* Research Initiation Grant

Katti

Not Funded

National Science Foundation (*being resubmitted July 2008*) \$767,342

Rappole, J., S. Renner, M. Katti, P. Rasmussen and J. Dumbacher (2008). "Bird Survey of
the
South-East Himalayan Region: Relevance for Major Zoogeographic Regions and
Biodiversity
Hotspots India, Burma, China, USA"

Returned (for resubmission July 2008)

National Science Foundation CAREER Program \$1,189,554

Birds in the City: Developing and Testing a Theory of Urban Population Dynamics.

Kovacs

Pending

Alfred P. Sloan Foundation \$474,090 System-wide;

Shirley Kovacs, Subproject PI (2009) \$20,055 CSUF subcontract

"Advancing Professional Science Masters Programs in the California State
University System: A Systemwide Proposal with Regional Consortia: CSU
System." Re-submission for the 3rd year funding for award funded for two of
the three requested years.

US Department of Education \$250,000 System-wide;
Shirley Kovacs, Subproject PI (2009-2012) \$45,000, CSUF subcontract
“Fund for the Improvement of Postsecondary Education (FIPSE)
Comprehensive Program (Fiscal Year 2008): Meeting Internship Demands of
a Growing PSM Community via an Online Delivery System.”

Continuing

National Institutes of Health, NIGMS \$867,000
Kovacs, S. (PI/PD) Lachs, M. Rawat (Project PI) (2005-2009).
“MBRS-SCORE Program at California State University, Fresno.”

Alfred P. Sloan Foundation \$997,658 System-wide;
Shirley Kovacs, PI. (2007-2008) \$46,228 CSUF subcontract
“Advancing Professional Science Masters Programs in the California State
University System: A System-wide Proposal with Regional Consortia.”

Müller

Pending

NSF-MRI proposal \$ 311,414
Müller, U., Principal Investigator; Yu Cao, Co-investigator; Joy Goto, Co-
investigator(CSU Fresno); (submitted January 24, 2008)

Prince

Continuing

Agricultural Research Institute \$168,000; Year 3 \$57,555
J.P. Prince. (2005-2008) “Virulence Gene Mapping in *P. capsici* and Marker-
Assisted Selection for Root Rot Resistance.”

Pending

Agricultural Research Institute \$255,684 requested
Prince, J.P., Bañuelos, G., and LeDuc, D. (2008 – 2011) “Role of genes and molecular
markers for identifying boron and salt tolerant poplar tree clones.”

USDA NRI/CAP \$349,880 requested
for CSUF part of project
Havey, M, Cramer, C, Town, C, Schwartz, H, Prince, J, Jensen, L, Mutschler, M,
Schmidt, N, and Torrance, R. “Translational Genomics of the Alliums.”

Riley

Awarded

CSUPERB: \$13,500
Proteomic Analysis of Glucose Metabolism in Tilapia. Role: PI.

Continuing

National Science Foundation \$174,960
Riley, L. G. (2006). "Investigations into ghrelin's role as a regulator of glucose metabolism using the tilapia (*Oreochromis mossambicus*) as a model."

Pending

National Science Foundation: Collaborative Research \$256,879
Riley, L.G. (submitted January 15, 2008) Comparative approach in investigating muscle energy utilization using the rainbow trout and tilapia: the role of ghrelin and myostatin.

Not Funded

Howard Hughes Medical Institute Undergraduate Science Education Program: \$1,595,000
Riley, L.G. HHUBS – Howard Hughes Undergraduate Biomedical Screening. Co-PI.

National Ocean and Atmospheric Association (NOAA): \$212,610
Riley, L.G. Does Fish Oil Diet Replacement Alter the Endocrine Mechanisms Regulating Growth and Metabolism in the Tilapia (*Oreochromis mossambicus*). (2007).

CSUPERB \$1000
Travel Award to Larry G. Riley

Tsukimura

Awarded

US Fish and Wildlife Service \$335,000
Tsukimura, B. (2007 - 2011). CESU: Supporting Primary Priorities for Research and Development of Management options for *Eriocheir* (mitten crabs)

US Fish and Wildlife \$50,000
Tsukimura, B. (2007). Chinese Mitten crab population dynamics

Continuing

California Agriculture Insititue of Technology \$67,980
Tsukimura, B. (2005 - 2007). Production of treatment against tadpole shrimp in rice fields

California Rice Board \$5,000
Tsukimura, B. (2006 -present). Inhibition of reproductive processes in tadpole shrimp

Wright

ARI grant # 07-2-019-12 \$85,000
Title: Dual Detoxification
Wright and M. Rawat (2008) Purpose: To study detoxification of Mercury and 2,

4-Dichlorophenoxyacetic acidPIs A.

Zechman

Awarded

Visiting Scientist Award, Ghent University, Belgium EU\$5800
U. Ghent's Bijzonder Onderzoeksfonds
Molecular Phylogenetics of Siphonous Green Algae

Visiting Scientist Award, University of Groningen, The Netherlands EU\$5400
Dutch National Science Foundation, Nederlandse Organisatie voor Wetenschappelijk
In Collaboration with Jeanine Olsen, University of Groningen
Population Genetics of the North Atlantic Seaweed, *Ascophyllum nodosum*

Chemistry Department

Saeed Attar

External

Co-wrote, along with Drs. Krish Krishnan (PI) and Mamta Rawat (Co-PI), a proposal to NSF's Major Research Instrumentation (MRI) program for funds (about \$630 K) to purchase a new multinuclear 500-MHz NMR spectrometer; Submitted in Jan. 2008; Status: pending as of the time of this report

Award of 3 WTUs of release time from NIH for serving as the Undergraduate Coordinator for the MBRS-RISE program during the 2007-08 academic year

Internal

CSM's Performance Award of \$1,200 to attend and present at the 235th National Meeting of the American Chemical Society in New Orleans (April 2008); awarded 10/07

Award of 3 WTUs of Assigned Time for Research during the 2008-09 academic year through the CSM's College Scholarly and Creative Activity program; awarded 11/07

Award of \$1,500 to undergraduate research student Leo Vydro to purchase materials and supplies through the CSM's Faculty Sponsored Student Research Award; awarded 12/07

Award of \$1,030 to undergraduate research student Charles Grove to attend and present research at the 235th National Meeting of the American Chemical Society in New Orleans (April 2008) through the CSM's Faculty Sponsored Student Research Award; awarded 12/07

Award of \$1,030 to undergraduate research student Bao Vue to attend and present research at the 235th National Meeting of the American Chemical Society in New Orleans (April 2008) through the CSM's Faculty Sponsored Student Research Award; awarded 12/07

J P Choi

Faculty Start-up Awards, \$30,000 requested, Camille and Henry Dreyfus Foundation, Submitted on 5/08/2007, Not accepted.

Participant, HHMI's Undergraduate Science Education program, \$1,600,000 requested, Howard Hughes Medical Institution (HHMI), Submitted on 10/17/2007, Not accepted.

Claude C. Laval Jr. Award, \$5,000 requested, CSU-Fresno, Submitted on 2/08/2008, Not accepted.

Melissa Golden

\$10,000 from the Camille and Henry Dreyfus Foundation

Joy Goto

CSUF College of Science and Mathematics Faculty Performance Award (2007-2008)
\$1,200 to attend a Neurobiology of Drosophila workshop in Cold Spring Harbor
Laboratory. June-July 2008

CSUF College of Science and Mathematics Scholarly and Creative Activity Award
\$3,300 for the Department of Chemistry seminar series (2007-2008)

CSUF College of Science and Mathematics Instructional Equipment Award
\$10,000 for UV-visible spectrometers for the Department of Chemistry (2007-2008)

Alam Hasson**Funded External Grants**

2007-11 “Developing Biomedical Research Infrastructure for California’s Central
Valley” □Funded by: National Institutes of Health (\$4,400,000); Role: Pilot Project
Principle Investigator (Budget: \$225,000)

2007-9 “Effects of Air Pollution and Viral Infection on Asthma in the San Joaquin
Valley; Funded by: San Joaquin Valley Air Pollution Control District (\$256,000)
Role: Sub-Project Principal Investigator (Budget: \$46,000)

2006-11 “Interdisciplinary Scientific Environmental Technology Co-operative
Science Center; Funded by: National Oceanic and Atmospheric Administration
(\$12,500,000); Role: Project Principal Investigator (Budget: \$445,852)

2006-9 “Oxidation of Organics in the Atmosphere at Low Temperatures” □
Funded by: National Aeronautics and Space Administration (\$506,745)
Role: Collaborator

2006-9 “An Evaluation of the Use of Canola-Based Biodiesel as an Environmentally
Friendly Alternative Fuel for Farm Equipment. □
Funded by: Agricultural Research Initiative (\$206,000)
Role: Co-Investigator

Krish Krishnan

Echeverria, J. and Krish Krishnan (2007-2012). Developing Biomedical Research
Infrastructure for California’s Central Valley. Fresno State, Research Infrastructure for
Minority Institutions (RIMI), National Institute of Health (NIH). \$4,405,208.00.

Krish Krishnan. and A. Hasson (2008-2011). Air quality and immunoproteomics. Fresno
State, Research Infrastructure for Minority Institutions (RIMI), National Institute of
Health (NIH). \$325,000.

Lee, C. and Krish Krishnan (2007 with yearly renewal). An integrated Nano-DSC for a
single point absolute temperature sensing. Fresno State, Defense Advanced Research
Projects Agency (DARPA). \$200,000.

Krish Krishnan (2008-2009). Membership and Participation in Protein Society meeting. Department of Chemistry, CSM Dean's office. \$1,200.

Krish Krishnan. and A. Hasson (2008-2009). Experiments for the Physical Chemistry Laboratory. Requisition for a Raman Spectrometer. Department of Chemistry, CSM Dean's office. \$15,000.

Reese, E. and Krish Krishnan. (2007-2008). Convergent Evolution of Antifreeze Proteins: Bioinformatics of the genes and proteins. Department of Chemistry, CSM Dean's office. \$500.00.

Silveria, J. and Krish Krishnan. (2007-2008). Selective Fluorescence Quenching of Polycyclic Aromatic Hydrocarbons in Charged Micelles. Department of Chemistry, CSM Dean's office. \$1,500.00.

Kevin Miller

CSUF College of Science and Mathematics Scholarly and Creative Activity Award; 3WTU granted to develop research with UC Davis.

CSUF College of Science and Mathematics Faculty Performance Award; \$1,200.00 to purchase refurbished computers for the Violent Crimes Case Review Project.

CSUF College of Science and Mathematics International Activity Award; \$3,395.00 for “Project FORWARD (Forensic Work And Reconciliation Development), helping Rwanda’s reunification effort through forensic education”.

CSUF Provost Research Activity Award; \$25,000.00 for “Establishing the Forensic Biotechnology Institute of California (FBIC) as a Regional Crime Laboratory in the Central Valley” □.

CSUF Service Learning; \$500.00 for service learning development.

CSUF Graduate Division; \$10,000.00 for graduate student stipends.

Eric Person

Uncertainty in Clandestine Drug Laboratory Capacity Estimates (\$151,431), National Institute of Justice, collaboration with Paul Price (not funded)

Computer Science Department

Dr. Yu Cao

US National Science Foundation – “*MRI: Acquisition of a High-speed Camera System to Record Animal Movements in Three Dimensions*”, 2008-2011, (Co-PI, \$311,414, pending, with Dr. Ulrike Muller (PI, Department of Biology, Dr. Joy Goto (Co-PI, Department of Chemistry))

CSU Fresno, Provost Research Activity Award – “*Three-dimensional Motion Patterns of Animal Locomotion*”, 2008-2009 (PI, \$25,000, with Dr. Ulrike Muller, Department of Biology)

Richter Center for Community Engagement and Service-Learning, “*Service-Learning Curriculum Development Grant*”, 2008-2009 (Co-PI, \$6,000, with Dr. Shih-His Liu, Department of Computer Science)

CSU Fresno, Grant for Enhancing Learning and Teaching – “*Computer-Supported Collaborative Learning*”, 2008-2009 (PI, \$5,000, with Dr. Shih-His Liu, Department of Computer Science)

CSU Fresno, *Faculty Sponsored Student Research Award*, 2007-2008 (PI, \$7,000)

CSU Fresno, International Activities Award – “*International Research Collaborations Between CSU Fresno and Hunan University, P.R. China*”, 2007-2008 (PI, \$3,500)

Dr. Alex Liu

Bilateral International Scientific Cooperation Between the Republic of Slovenia and the United States of America, 2008-2010

“A Domain-Specific Language for Parameter Settings in Evolutionary Algorithms”

Co-PI (PI: Dr. Marjan Mernik, University of Maribor, Slovenia)

(Under review)

NSF Computer Systems Research (CSR)

“Tools for software system testing automation and safety assessment”

Co-PI (PI: Dr. Mikhail Auguston of Naval Postgraduate School)

(under review)

NSF Broadening Participation in Computing (BPC)

“Triple-M: Multi-semester, Multi-course, Multi-disciplinary Computer Science Education Program”

Co-PI (PI: Dr. Wilson, Co-PIs: Drs. Cao, Li, Seki)

(under review)

CSU Awards for Research, Scholarship, and Creative Activity

“A Domain-Specific Language for Parameter Settings in Evolutionary Algorithms”

PI, (accepted with 3 WTUs)

Service-Learning Curriculum Development Grants

“Software Engineering via Service-Learning”

PI, (with Dr. Yu Cao)

Amount: \$6000.00

2007 – 2008 Grants for Enhancing Learning and Teaching

“Active Learning with Collaborative Software: Computer-Supported Collaborative Learning (CSCL) Instructional Design”

Co-PI, (PI: Dr. Yu Cao)

Amount: \$5000.00

Service-Learning Seminar Mini-Grant

“Observing and Realizing Software Needs via Service-Learning”

Amount: \$400.00

Graduate Faculty/Program Enhancement Awards

Co-PI, (PI: Dr. Todd Wilson. Co-PIs: department faculty)

Amount: \$6,100.00

Earth and Environmental Science Department

Harmsen, F.J., Establish a New Cooperative Science Center (Yr 2 of 5). National Oceanographic and Atmospheric Administration, **\$87,418**. (total **\$445,000**)

Harmsen, F.J., Paleontologic Mitigation for Fresno 180 West (2007-2008). CSU Chancellor's Office (caltrans pass-through), **\$202, 190**

Dundas, R., and. Harmsen, F. J., Paleontological Monitoring Fairmead Landfill. Madera County (Yr 1 of 5), **\$155,924** (total **\$844,589**)

Putirka, K 2007-2009 NSF - Collaborative: Collaborative Research: Origin and Significance of High Potassium Volcanism: Insights from the Ancestral Cascades, California. Award: **\$157,804**. Award II NSF-EAR 071 I 150

Suen, J. *California EPA, State Water Resources Control Board -- "Central Valley salinity study Data collection and system modeling"*, **\$249,014**. (*Funded .for FY 06-08*).

Suen, J. *California Department of Pesticide Regulations - "Isotope study of nitrate in ground water"*, **\$47,999** (*FY 06-08*).

Suen, J. *CalifimIia Department f Pesticide Regulations - "Investigation of vertical transport and leaching under field conditions"*, **\$99,235** (*FY 06-08*).

Wang, Z Principal Investigator (with S. Blumenshine, Biology Dept), Fresno River Hensley Lake Water Quality monitoring Modeling. Funded by California Department of Water Resources, 2008-2010. (Total funding \$400,000, Funding to CSUF **\$271,000**).

Wang, Z. PI, NSF proposal, Measurement and Modeling of Unstable Flow in Soils, 2008-10 pending. Total requested \$450,000. Not funded but was encouraged to reapply. Collaborators: Jiri Simunek at UC Riverside and Atac Tuli at UC Davis).

Mathematics Department

Amarasinghe, Rajee, co PI (with Marcus Johnson, Sanger and Kings Canyon Unified school districts). *Central Valley Mathematics Research Project*. Funded for 2008-2011, \$600,000/ year, by California Mathematics and Science partnership (CaMSP)

Amarasinghe, Rajee, co PI (with Melanie Wenrick). *Mathematics Understanding, Learning and Teaching Present Project (MULT)*. Funded for \$291,534, by California Post Secondary Education Commission.

Nogin, Maria, and Tuska, Agnes, co-PIs. *Tensor-SUMMA* grant for *Establishing Mathematics Circles*. Funded for 2008-2009, \$6000, by the Mathematical Association of America.

Tannenbaum, Peter, Mathematics Diagnostic Testing Project (MDTP). Funded for July 2007-Sept. 2008, \$40,160, by University of California Office of the President.

Tuska, Agnes, co-PI, *California Mathematics and Science Partnership project with Washington Union*. Funded for 2007-2011, \$378,611, by California Mathematics and Science Partnership (CaMSP).

Tuska, Agnes, co-PI and co-Director, *San Joaquin Valley Mathematics Project Supporting Teachers to Increase Retention (SJVMP STIR)* project. Funded for Feb. 1, 2007-Jan. 31, 2008 for \$396,030.

Physics Department

Yongsheng Gao

Department of Energy (DOE) “Search for New Physics at LHC with Performance Based and Statistically Optimal Method” (\$622,024/5 years, pending).
Performance Award (\$1,200).

CSM College Scholarly and Creative Activity Award Assigned Time (3 WTU).
Special funding from CSM (\$145,000) to build up the new ATLAS research program.
Graduate Faculty/Program Enhancement Award (\$4,000 shared with Dr. Doug Singleton).

CSU Provost Award Assigned Time for Research, Scholarship, and Creative Activity (\$5,000) to build up the new ATLAS research program.

Ray Hall

National Science Foundation RUI: “Investigation of Possible Physics Beyond the Standard Model through Studies of Rare Processes with the DZero Detector” (\$15,000, 5/2005- 07, funding extended to 2008).

CETL 2007–2008 Grants for Enhancing Learning and Teaching: “Critical Thinking General Education Subarea A3: Defining core course content and developing effective outcome assessment including the production of a general final exam test bank” (\$2,500).

Pei-Chun Ho

Experimental Support from the User Program at National High Magnetic Field Laboratory at Los Alamos National Laboratory (\$755.40).

Travel Support from American Physical Society for attending Professional Skills Development Workshop, New Orleans, March 9, 2008 (\$793.63).

CSM/CSU-Fresno Performance Award (\$1759).

College Scholarly and Creative Activity Award Assigned Time for 3 WTU of release time in the 2008/09 academic year.

Amir Huda

R25 MH066082-01A1, Huda (PI, 50%), 09/01/03-07/31/08, National Institute of Mental Health (direct costs: \$673,374), The Physics of Neuroimaging, to start a new undergraduate training program to attract and motivate students to pursue careers in quantitative neurosciences. Role: Principle Investigator.

Vanvilai Katkanant

Received \$1,200 College of Science and Mathematics Performance Award.

Gerardo Muñoz

Performance Award, College of Science and Mathematics. \$1,200.

College Scholarly and Creative Activity Release Time for 2008-09 (3 WTU).

Douglas Singleton

Fulbright Scholars Grant to research at ITEP in Moscow in Spring semester 2009.

Performance Award (\$1200).Seminar Grant (\$3300) to fund the Physics Department's Colloquium.

International Activity Grant (\$3000) to host Dr. Vladimir Folomeev from National Academy of Science, Kyrgyz Republic.

CSU Awards for Research, Scholarship, and Creative Activity (\$5000) to host Dr. Emil Akhmedov from ITEP, Moscow for a research visit.

Graduate Program enhancement grant (\$4000).

Charles Tenney

Performance Award (\$828)

College Scholarly and Creative Activity Release Time (3 WTU).

Steven White

"Science on a Sphere at the Downing Planetarium," National Oceanic and Atmospheric Administration, \$98,841, Not Funded.

Daqing Zhang

Fresno State, College of Science and Mathematics Performance Award 2007-08, *"Attend American Physical Society Meeting, New Orleans, LA, March 08"* (\$1,200).

Fresno State, College of Science and Mathematics College Scholarly and Creative Activity Award Assigned Time (3WTU).

Psychology Department

Mortimer, Amanda

National Institute of Health

Research Infrastructure grant for Minority Institutions

1P20MD002732-01 Echeverria (PI)

Major project funded 09/07 – 09/12

Subproject 3 funded 09/09 – 09/12

Marital Caregiving Interactions in Alzheimer's disease.

This study explores the relationship between marital interactions and stress in caregiving for patients with Alzheimer's Disease, in both Latino and Caucasian populations.

Role: PI of Subproject 3

Wilson, Marilyn. Principal Investigator: U.S. Department of Education: Office of Special Education Programs (2007-2011). *Culturally Competent Practice in School Psychology: Preparation of Personnel in Minority Institutions*. \$746,000 over 4 years: First year 2007-2008: \$176,000.

Wilson, Marilyn, Co-PI with Constance Jones: *Recruitment grant for Graduate programs in Psychology through Division of Graduate Studies 2007-2008* (\$9,000). Activities included recruitment trip to UC Davis, evening recruitment meetings, development of brochures, updating website, development and implementation of interviews as part of application

Zelezny, Lynnette, Co-Director of \$4.5 million dollar National Institute of Health Biomedical/Behavioral Science grant for Research Infrastructure for Minority Institutions. 5 year grant

Volunteer Service 2007-2008

Biology Department

Andrews

Government

National Science Foundation (<i>Grant Reviews</i>)	100 hr
CSU Chancellor's Office (<i>Science Education Centers of Excellence</i>)	50 hr

Blumenshine

Non-Profit

San Joaquin River Parkway and Conservation Trust (<i>Aquatic Biology Advisor</i>)	20 hr
San Joaquin River Restoration Program (<i>Fisheries Management Technical Feedback Group</i>)	25 hr

Bush

Government

California State University, Fresno Ethics Center (<i>Bioethics Group</i>)	20 hr
California State University Program for Education and Research in Biotechnology—CSUPERB (<i>Grant Reviews, Stem Cell Group</i>)	30 hr
University of California, San Francisco, Fresno (<i>Stem Cell Group</i>)	15 hr
Regional Science, Math and Engineering Fair (<i>Senior Division Judge</i>)	4 hr
Dog Days Orientation (<i>Advisor</i>)	2 hr

Non-Profit

California Cancer Registry (<i>Cancer Biology Advisor</i>)	20 hr
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Cailliet

Non-Profit

Monterey Bay National Marine Sanctuary (<i>Sanctuary Advisory Council, Research Advisory Panel, Science Committee for the Sanctuary Integrated Monitoring Network</i>)	85 hr
International Union for the Conservation of Science (<i>Vice-Chair, Shark Specialist Group for the Eastern Pacific</i>)	15 hr
Alaska Marine Science Society (<i>Symposium</i>)	20 hr
Western Groundfish Council (<i>Symposium, Northern Pacific Research Board</i>)	20 hr
Otolith Society (International Conference Organizing Committee)	60 hr

Calderón-Urrea

Government

California State University Program for Education and Research in Biotechnology—CSUPERB (<i>Symposium</i>)	40 hr
National Institutes of Health—Minority Biomedical Research Support (<i>Annual Biomedical Research Conference for Minority Students</i>)	50 hr

Constable

Government

National Science Foundation (<i>Grant Reviews</i>)	40 hr
Regional Science, Math and Engineering Fair (<i>Senior Division Head Judge</i>)	5 hr
High School Student Science Fair Project (<i>Scientific Advisor</i>)	20 hr
Dog Days Orientations (<i>Advisor</i>)	6 hr

Crosbie

Non-Profit

Central Valley <i>Café Scientifique</i> (<i>Sponsor, Parasitology Advisor</i>)	15 hr
Central Valley Science Teachers (<i>Workshop Organizer</i>)	25 hr
Northern California Parasitologists (<i>President</i>)	20 hr

Government

Dog Days Orientation (<i>Advisor</i>)	2 hr
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Earley

Non-Profit

Thirteen Scientific Societies (<i>Publication Peer-Reviews</i>)	200 hr
Three Scientific Granting Groups (<i>Grant Reviews</i>)	100 hr

Government

CSU-Fresno Louis Stokes-Alliance for Minority Programs (<i>Sponsor</i>)	20 hr
Dog Days Orientation (<i>Advisor</i>)	2 hr

Katti

Non-Profit

Central Valley <i>Café Scientifique</i> (<i>Co-Founder, Co- Organizer, Webmaster</i>)	30 hr
Citizen Science (<i>Fresno Bird Count Organizer and Webmaster</i>)	100 hr
New Ornithology Foundation (<i>Editorial Board for "Indian Birds"</i>)	200 hr

Government

California State University, Fresno Ethics Center (<i>Environmental Ethics Group</i>)	10 hr
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Kern

Non-Profit

Tree Fresno (<i>Planting 200 trees</i>)	50 hr
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Kovacs

Non-Profit

Council of Graduate Schools (<i>PSM National Advisory Board</i>)	50 hr
Alfred E. Sloan Foundation (<i>Grant Review</i>)	25 hr
National Governors Association Center for Best Practices (<i>Panelist</i>)	15 hr
Phi Kappa Phi (<i>Scholarship Committee</i>)	10 hr

Government

CSU Chancellor's Office (<i>Professional Science Masters [PSM] Programs</i>)	40 hr
California State University Program for Education and Research in Biotechnology—CSUPERB (<i>Symposium</i>)	20 hr

California State University System—BioCouncil (<i>Member, Writer</i>)	95 hr
CSU-Fresno PSM in Biotechnology (<i>Advisory Board,</i> <i>Interim Director</i>)	8 hr 250 hr
CSU-Fresno NIH-RISE Program (<i>Advisory Board</i>)	2 hr
Regional Science, Math and Engineering Fair (<i>Senior Division Judge</i>)	3 hr
Dog Days Orientations (<i>Advisor</i>)	8 hr

Müller

Non-Profit

Central Valley Café Scientifique (<i>Co-Founder, Co- Organizer</i>)	20 hr
Seven Scientific Societies (<i>Publication Peer Reviews</i>)	150 hr

Government

German Federal Ministry of Education and Research—BMBF (<i>Grant Review</i>)	80 hr
Regional Science, Math and Engineering Fair (<i>Senior Division Judge</i>)	4 hr

Prince

Non-Profit

Madera Arts Council (<i>Events Facilitator</i>)	180 hr
Yosemite High School Choir (<i>Parent Volunteer</i>)	60 hr
Pi Kappa Alpha (<i>Faculty Sponsor</i>)	60 hr
Solanaceae Genome (<i>International Workshop Organizer</i>)	50 hr
Various Scientific Societies (<i>Publication Peer-Reviews</i>)	40 hr
Plant and Animal Genome (<i>Symposium Volunteer</i>)	20 hr

Government

California State University Program for Education and Research in Biotechnology—CSUPERB (<i>Faculty Consensus Group,</i> <i>Symposium, Grant Reviews</i>)	70 hr
Dog Days Orientation (<i>Advisor</i>)	4 hr

Rawat

Non-Profit

Two Scientific Societies (<i>Publication Peer-Reviews</i>)	50 hr
American Society for Microbiology (<i>Student Membership Committee</i>)	20 hr
Central California Research Symposium (<i>Judge of Student Posters</i>)	4 hr
University High School (<i>Parent Volunteer</i>)	40 hr

Government

Regional Science, Math and Engineering Fair (<i>Scientific Review Committee</i>)	4 hr
California State University Program for Education and Research in Biotechnology—CSUPERB (<i>Grant Reviews, Symposium</i>)	30 hr
CSU-Fresno NIH-SCORE Program (<i>Advisory Board</i>)	2 hr
CSU-Fresno Louis Stokes-Alliance for Minority Programs (<i>Sponsor</i>)	20 hr
McNair Pre-Doctoral Program (<i>Sponsor</i>)	20 hr

Riley

Non-Profit

Endocrine Society (*Publications Peer-Reviewer*) 30 hr

Society for Integrative and Comparative Biology (*Student/Post-Doc
Advisory Committee Chair, Symposium Facilitator*) 50 hr

Government

Regional Science, Math and Engineering Fair (*Senior Division, Head Judge*) 5 hr

High School Student Science Fair Project (*Scientific Advisor—Awardee*) 40 hr

Schreiber

Non-Profit

Central Valley Café Scientifique (*Co-Founder, Co-Organizer*) 20 hr

Government

Central California Entomology Museum (*Collections Curator, Contributor*) 300 hr

Smittcamp Family Honors College (*Policy Committee*) 20 hr

CSU-Fresno Alcohol Safety Committee (*Member, Student Advisor*) 15 hr

Tsukimura

Non-Profit

Society for Integrative and Comparative Biology—SICB (*Program Committee*) 120
hr

The Crustacean Society (*Executive Board Officer; Liaison to the SICB*) 80 hr

LEAP—Leadership Education for Asian-Pacifics (*Campus Liaison*) 60
hr

City/County Boy's High School Allstar Game (*Event Host*) 15 hr

Government

California Sea Grant (*Mitten Crab Consultant*) 5 hr

Oregon Sea Grant (*Mitten Crab Consultant*) 5 hr

US Environmental Protection Agency (*Mitten Crab Consultant*) 5 hr

Interagency Ecological Program (*Mitten Crab Team Project*) 5 hr

Fresno State Men's Volleyball Team (*Head Coach*) 500 hr

Men's Water Polo Club (*Advisor*) 10 hr

Women's Bulldog Water Polo Club (*Advisor*) 30 hr

Regional Science, Math and Engineering Fair (*Scientific Review Committee*) 4 hr

Regional Science, Math and Engineering Fair
(*Coordinator of Senior Division Judges*) 25 hr

Dog Days Orientation (*Advisor*) 2 hr

Wright

Non-Profit

Society for the Advancement of Chicano/Chicana and Native
American Scientists [SACNAS] (*Conference Sponsor*) 20 hr

American Society of Microbiologists [ASM] (*Conference Sponsor*) 45 hr

Government

McNair Pre-Doctoral Program (*Sponsor*) 20 hr

CSU System-Wide, Agricultural Research Initiative [ARI] (*Grant Reviews*) 30 hr

Zechman

Government

California State University Program for Education and Research
in Biotechnology—CSUPERB (*Symposium*) 12 hr
California State University System—BioCouncil (*Member*) 20 hr

Chemistry Department

J P Choi

Chemistry graduate program representative, GRAD EXPO 2007, CSU-Fresno, 1 hr
(4:30 ~ 5:30 pm), 11/01/2007.

David Frank

Suitcase Science Program: This spring we piloted the program in four one hour presentations at three schools. Two of our upper division science students brought the program to Manchester Gate School, 5th and 6th grades, to an 8th grade class at Scandinavian School, and to 6th grade class at VASA (Valley Arts and Sciences Charter School.) The activity we piloted involves students calculating the amount of vinegar and baking soda required to produce enough carbon dioxide to just fill, but not pop open, a closed zip-lock bag (a stand-in for an automatically filling life preserver.)

Joseph Gandler

Tulare County Teacher Training Program--consultant

Melissa Golden

Judging Science Projects for CART (~3 hrs)

Wacky Science kids' day camp at Woodward Park Baptist Church (~50 hrs)

Secretary of the Local Section of the American Chemical Society (~10 hrs)

Advisor for the Student Affiliate of the American Chemical Society at CSUF (~10 hrs)

Grant Reviewer for the National Science Foundation (~5 hrs)

Kevin Miller

High School Forensic Science Programs Dr. Miller continues to consult with area high schools on the development of forensic science programming. This year, he worked with Bullard High on their new magnet program.

CART Science Fair Dr. Miller served as a judge for the fair, held in January, 2008.

DNA audits Dr. Miller's service on audit teams in 2008-2009 was limited by his injury in January. However, he was able to provide service to the following institutions:

- i) Identity Genetics, South Dakota
- ii) Office of the Inspector General provided assistance to the office

in their audit of the national assessment process.

Testimony: Dr. Miller was contacted by the FBI to testify in a federal murder trial, and is waiting to see if he will be summoned to appear in court.

Consultation Dr. Miller provided ongoing pro bono consultation to the Fresno County Sheriff's Office Forensic Laboratory.

Eric Person

Technical Review of the Journal of Clandestine Laboratory Investigating Chemists Association, 5 hours

Seminar Committee Member for the Clandestine Laboratory Investigating Chemists Association, 10 hours

Content Expert for K12 Alliance, Tulare Teaching Learning Cooperative, 10 hours

CADRE for K12 Alliance, Tulare Teaching Learning Cooperative, 40 hours

Science Demos at Dry Creek Elementary School, 40 hours

Computer Science Department

Dr. Brent Auernheimer

Program Committee member, 8th Sakai conference, December 2007, Newport Beach. (40 hours).

Board member and secretary, Pacific Mennonite Aid Society (40 hours).

Earth and Environmental Sciences

Geology Field Trip Chaperone for Fresno City College at King's Canyon National Park, Fall 2007, 10 hours

Paleontology and Stratigraphy Field Trip Docent for CSU-Stanislaus at Fairmead Landfill and CSU-Fresno, Fall 2007, 8 hours

Volunteer Docent for Sierra Foothill Conservancy at McKenzie Creek Preserve, Spring 2008, 15 hours

Initiated a local chapter of the Association of Environmental and Engineering Geologists (AEG) within the Sacramento Section. Will alternate meetings with the Groundwater Resource Association of California (GRAC) beginning September, 2008.

At the request of the CS&M Dean's office, coordinated development of curriculum in the Environmental Sciences Program for options in Biology, Plant Science,

Environmental Engineering, and Earth Science. So far, Earth Science and Biology have completed their materials for submission to the Undergraduate Curriculum Committee .

Completed conceptual plan to convert Enterprise Canal west of Palm and south of Gettysburg Avenues to an urban greenway. Held meetings with Wawona Intermediate School, Fresno irrigation District, and Fresno Metropolitan Flood Control District regarding implementation and funding.

Robert G. Dundas, Chair, Subcommittee on Establishing a Madera County Fossil Repository, Madera County Board of Supervisors, Paleontology Dig Oversight committee.

Robert G. Dundas, Member, Madera County Board of Supervisors, Paleontology Dig Oversight committee.

Geology Field Trip Chaperone for Fresno City College at King's Canyon National Park, Fall 2007, 10 hours

Paleontology and Stratigraphy Field trip Docent for CSU-Stanislaus at Fairmead Landfill and CSU-Fresno, Fall 2007, 8 hours

Volunteer Docent for Sierra Foothill Conservancy at McKenzie Creek Preserve, Spring 2008, 15 hours

Tulare Science and Mathematics Education Project, which brings together K-12 Science teachers with College teachers to work on lesson plans. I went Nov. 1 and 2, 2007.

I-hour talk in front of middle school pupils during Science Week entitled "The History of Ships, Navigation, and discoveries in Oceanography."

55th Annual Central California Science and Engineering Fair, March 31 as a Science Fair Head Judges.

Central California Democratic Convention - Invited panel speaker for the "State of the Valley" forum, November, 2007.

U.S. Environmental Protection Agency. Science Advisory Board - serve on the expert review panel for the "Report on the Environment".

Serve as water resources advisor to Sierra and Foothill Citizens Alliance
Interviewed by Channel 30 ABC affiliate on the presence of pharmaceuticals in the water supply, 3/11/2008.

Interviewed by KTVU radio on water resources, 11/29/2007.

Serve as I-lead Judge for the Central California Science Fair: Senior Division Environmental Science and Earth and Space Science categories.

Technical consultant for River Ranch Farm

Coauthor of Water Policy Resolution for the *California Democratic Party Convention*, 2008 .

Presentation on Sierra Geology to the Smittcamp Honors College Retreat at Huntington Lake. 2.5 hours of travel time. 4 hours total of lectures and interaction with the students (approximately 40) .

Juniperus asheii is one of the most allergenic pollen species in the atmosphere of the southern Great Plains during the winter. In conjunction with Dr. Estelle Levetin (University of Tulsa, Tulsa OK). I forecasted the atmospheric characteristics for the region on a daily basis between December 15,2007 and January 31,2008. The forecasts were posted on the web at <http://htjpipollen.utulsa.edu/mcforecast.html> for residents to be warned of impending high concentrations of pollen in their area so they can take prophylactic actions to minimize the allergenic effect. Approximately 3 hours per day, 32 days of forecasting for a total of 96 hours.

1. Identified rocks for various private citizens. One of these was a visitor to my office. Two others sent photos by email.

2. Offered feedback for various ideas on teaching high school Earth Science to Scott Dickerman, who teaches at Lowell High School in San Francisco.

3. Gave presentation on various minerals to a kindergarten class at Maple Creek Elementary School, Fresno. January 2008.

- I. Coordinator, the Joint BS in Environmental Science program between CSUF and UCR
2. Member, Central Sierra Watershed Committee (2003-), 60 hours involving 2 faculty members and 5 students.
3. Member, Western Regional Soil Physics Research Project W-1188 (2002-). 30 hours, 3 students.
4. Equal Employment Officer (EEO), Faculty Search committees. Department of Industrial Technology and Department of Viticulture and Enology (2007 and 2008 consecutive years). 20 hours, about 15 faculty members, and many students.

Leukemia and Lymphoma Society . ~~m~~ Team in Training Mentor
City of

Fresno Bicycle Pedestrian Advisory Committee · Chair Fresno
County Bicycle Coalition ···Board of Directors

Frequent appearances on TV radio and newspaper reports

Presentation to Smittcamp Family Honors College students -- South Pacific Semester

Mathematics Department

Cusick, Larry, Board Member, *University High School* .

De Leon, Doreen, Head Judge, Math and Computer Science, Senior Division, *55th Annual Central California Regional Science, Mathematics and Engineering Fair*, March 31, 2008.

De Leon, Doreen, Judge, Best Student Poster, at the *Student Poster Session at the Joint Mathematics Meetings*, January 2008.

De Leon, Doreen, member of the *TCSU review pool*, Fall 2006–Spring 2008.

Forgacs, Tamas, initiated a program called "Wheels of Support". This program would provide cheap vehicles to needy families in the Valley. At this stage he is working with the IT department on developing a service learning course that would be a building block of the program. Has applied for and received a service learning grant through the IT department to move the project forward.

Piotrowski, Andrzej, Science Fair Judge, *55th Annual Central California Science and Engineering Fair*, March 31, 2008 (4 hours).

Tannenbaum, Peter, Member and Chair, College Mathematics Test Development Committee, *College Level Examination Program (CLEP)*, Educational Testing Service (40 hours).

Tuska, Agnes, *International GeoGebra Institute Advisory Board* member (30 hours)

Tuska, Agnes, National Advisory Board Member of *National Curve Bank*, funded by NSF (10 hours).

Tuska, Agnes, Advisory Board Member of *Science and Mathematics Education Center* at CSU Fresno (8 hours).

Tuska, Agnes, Teacher Education Working Group Leader, *Mathematics Education into the 21st Century Project* (15 hours).

Wu, Ke, Board Member, *Central California Chinese Cultural Association*, June 2007 – May 2008.

Physics Department

NONE

Psychology Department

Jennifer Ivie, Elected Secretary, Spring 2007 to present, Cognition and Assessment Special Interest Group, American Educational Research Association

Jennifer Ivie, Proposal Reviewer, Summer 2007, Division D – Measurement and Research Methodology, American Educational Research Association

Jennifer Ivie, 7th Grade Head Judge, Spring 2008, Behavioral & Social Sciences division, Central California Regional Science, Mathematics & Engineering Fair

Jennifer Ivie, Statistical Consultant, Summer 2007 to Fall 2007, Wellness Challenge Evaluation, University Health Center, California State University, Fresno

Jennifer Ivie, Statistical Consultant, Spring 2007 to Fall 2007, Wellness Program Evaluation, College of Health Sciences, California State University, Fresno

Constance Jones served as a Head Judge for 6th grade at the Central California Science Fair.

Levine, R. Poverello House, Board of Directors

Amanda Mortimer volunteers at Kaiser Permanente Adult Mental Health.

Sharps, Matthew. Invited lectures to high school students in Clovis School System advanced classes (see Presentations above);

pro bono consultation on criminal case to District Attorney's Office, Fresno County; continued as

pro bono Research Consultant to Fresno Police Department, currently working on research to apply cognitive principles to training for hazard identification for law enforcement personnel.

Marilyn Wilson

Reviewer for *The California School Psychologist (CSP)* (10 hours/semester)

Board of local school psychologists' organization, Central Valley Association –California Association of School Psychologists (CVA-CASP), as past president. (4 hours/month)

Elected to the national board for Trainers in School Psychology (TSP) affiliated with National Association of School Psychologists (NASP) (4 hours/month)

Reviewer for applicants to National Certification in School Psychology (NCSP) (20 hours/semester)

NASP-NCATE program reviewer (20 hours/semester)

Lynnette Zelezny, Chair of the Council of Chairs at Fresno State.

Lynnette Zelezny. Served on numerous Presidential Committees: Athletic Finances, NCAA accreditation, and University Wellness

Lynnette Zelezny, Advisory Board, McNair program, Fresno State.

Lynnette Zelezny, Advisory Board, MBA program, Fresno State.

Lynnette Zelezny, Vice President, Leadership Fresno.