



Honolulu District Science Fair

Saturday, February 8, 2014

8:00 a.m. - 3:00 p.m.

Kapi'olani Community College - `Ohi`a Cafeteria



2014 Honolulu District Science and Engineering Fair Senior Research Division Awards

Overall Awards



1st Place

Stephanie Spear, Kaiser High School, Grade 11
Rocks of the Rainbow



2nd Place

Cherrysse Ulsa, Farrington High School, Grade 10
InVitro Biochemical Analysis of Post Translation Modification to the Parkinson Disease

3rd Place

**Hiu Shan Au & Bao-Xin Liang, McKinley High School,
Grade 10**
The Effect of Oyster Mushroom Compost on Meloidogyne



Incognita Infested Soil

Honorable Mentions



Asayena Viengmany & LiAnn J.H. Tokuda, McKinley High School, Grade 11
Candy Confusion



Matthew Dufale, Farrington High School, Grade 9
Soil Amendmtns and Ambient CO2 Concentration Impact the Balance of Green House Gases



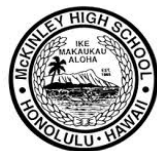
Katriel Wong, Kaiser High School, Grade 11
Inhibitory Effects of Bamboo Extract on Breast Cancer

Best of Category Awards



Animal Sciences

Rajeev Jha, Roosevelt High School, Grade 10
Occurrences of Melanoma in Hawaiian Farmed Chinese Catfish (Clarius fuscus)



Behavioral and Social Sciences

Asayena Viengmany & LiAnn J.H. Tokuda, McKinley High School, Grade 11
Candy Confusion



Biochemistry

Darlene Mamon & Jane Raquinio, Farrington High School, Grade 12
In Vivo Analysis of LRRK2 Activity Using Fluorescence Fluctuation Spectroscopy



Cellular and Molecular Biology

Cherrysse Ulsa, Farrington High School, Grade 10
InVitro Biochemical Analysis of Post Translation Modification to the Parkinson Disease

Chemistry

Shania Custodio-Velasco & Arwyn Yim, McKinley High School,



Grade 10
Measuring Saturated Fats in Oils



Computer Science

Christopher Nguyen, Farrington High School, Grade 12
P.I.P.E. Programming in Pure English - The Conversion of English-Language Sentences into Compliant Code



Earth & Planetary Science

Jasmine Santiago, Farrington High School, Grade 9
Planetary Data Analysis of Simple Impact Craters on the Swift Planet



Engineering: Electrical & Mechanical

Kyle Chan & Yash Vyas, McKinley High School, Grade 11
Battle of the Robotic Lifts



Environmental Management

Matthew Dufale, Farrington High School, Grade 9
Soil Amendments and Ambient CO2 Concentration Impact the Balance of Green House Gases



Energy & Transportation

Jackson Xu, Roosevelt High School, Grade 9
Does Temperature Affect an Acid's Electrical Production?



Environmental Sciences

Hiu Shan Au & Bao-Xin Liang, McKinley High School, Grade 10
The Effect of Oyster Mushroom Compost on Meloidogyne Incognita Infested Soil



Medicine & Health Sciences

Katriel Wong, Kaiser High School, Grade 11
Inhibitory Effects of Bamboo Extract on Breast Cancer



Microbiology

Tomomi Kohno & Chunru Zheng, McKinley High School, Grade 10
The Dark Side of Water Fountains

Physics & Astronomy



Stephanie Spear, Kaiser High School, Grade 11
Rocks of the Rainbow



Plant Sciences

Germiniano Sarmiento III, Roosevelt High School, Grade 11
Comparing the Growth Rates of Areca Palm Seedlings Being Treated With Red Tilapia Water and Tap Water

**2014 Honolulu District Science and Engineering Fair
Junior Research Division Awards**

Overall Awards

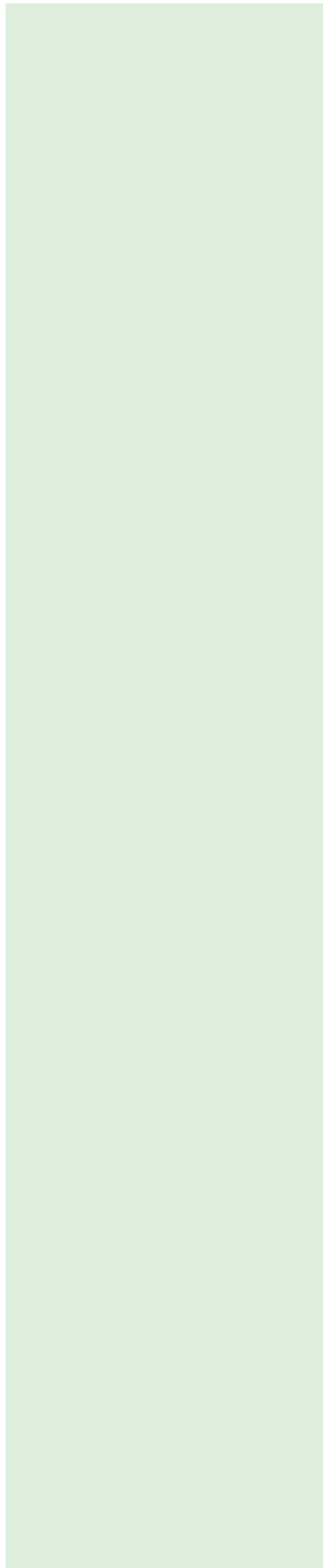
	<p><u>1st Place</u> <i>Tyler Maruno, Stevenson Middle School, Grade 7</i> <i>Keeping It Cool Testing Insulation Materials for Retention of Temperature</i></p>
	<p><u>2nd Place</u> <i>Claudia Tang, Niu Valley Middle School, Grade 7</i> <i>Cupcakes For People Who Are Allergic To Gluten</i></p>
	<p><u>3rd Place</u> <i>Jacob Heberle, Niu Valley Middle School, Grade 8</i> <i>London Bridges Falling Down</i></p>







Honorable Mentions




	<p>Tenielle Ellis, Kalakaua Middle School, Grade 8 <i>Take Out The Salt</i></p>
	<p>Ahn Quach, Washington Middle School, Grade 8 <i>Bokashi Compost vs Compost Fertilizer</i></p>

Best of Category Awards

	<p><u>Animal Sciences</u></p> <p>Jimmy Kyles, Niu Valley Middle School, Grade 8 <i>Comparing Homemade Lures to Store Bought Lures When</i></p>
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	<p style="text-align: center;"><i>Fishing for Barracuda</i></p>
	<p style="text-align: center;"><u>Behavioral and Social Sciences</u></p> <p style="text-align: center;">Justina Bui and Khatlyn Mae Bautista, Kalakaua Middle School, Grade 8 <i>Facial Symmetry</i></p>
	<p style="text-align: center;"><u>Chemistry</u></p> <p style="text-align: center;">Ricky Ma, Niu Valley Middle School, Grade 8 <i>Fat Chloroplast</i></p>
	<p style="text-align: center;"><u>Earth & Planetary Science</u></p> <p style="text-align: center;">Anya Wu & Michelle Yim, Washington Middle School, Grade 8 <i>Intensity of UV Rays in Sunny Days vs Partly Cloudy</i></p>
	<p style="text-align: center;"><u>Engineering: Electrical & Mechanical</u></p> <p style="text-align: center;">Jacob Heberle, Niu Valley Middle School, Grade 8 <i>London Bridges Falling Down</i></p>
	<p style="text-align: center;"><u>Engineering: Materials & Bioengineering</u></p> <p style="text-align: center;">Tyler Maruno, Stevenson Middle School, Grade 7 <i>Keeping It Cool Testing Insulation Materials for Retention of Temperature</i></p>
	<p style="text-align: center;"><u>Environmental Management</u></p> <p style="text-align: center;">Brandon Paulino & Al Jebrin Antonio, Kalakaua Middle School, Grade 8 <i>Is It Getting Hot In Here</i></p>
	<p style="text-align: center;"><u>Energy & Transportation</u></p> <p style="text-align: center;">Keilani Kim, Washington Middle School, Grade 8 <i>Wind Power Small vs Large Blades</i></p>
	<p style="text-align: center;"><u>Environmental Sciences</u></p> <p style="text-align: center;">Tenielle Ellis, Kalakaua Middle School, Grade 8 <i>Take Out The Salt</i></p>
	<p style="text-align: center;"><u>Medicine & Health Sciences</u></p> <p style="text-align: center;">Claudia Tang, Niu Valley Middle School, Grade 7 <i>Cupcakes For People Who Are Allergic To Gluten</i></p>

	<p style="text-align: center;"><u>Microbiology</u></p> <p style="text-align: center;">Robb Chun, Niu Valley Middle School, Grade 7 <i>How to Keep the Beast in the Yeast</i></p>
	<p style="text-align: center;"><u>Physics & Astronomy</u></p> <p style="text-align: center;">Priscilla Hsu, Niu Valley Middle School, Grade 8 <i>Correlations Between CMEs and Solar Flares</i></p> <p style="text-align: center;">Joshua Kay, Niu Valley Middle School, Grade 8 <i>Solar Speed Racer</i></p>
	<p style="text-align: center;"><u>Plant Sciences</u></p> <p style="text-align: center;">Ahn Quach, Washington Middle School, Grade 8 <i>Bokashi Compost vs Compost Fertilizer</i></p>

**2014 Honolulu District Science and Engineering Fair
Junior Display Division Awards**

Overall Awards

	<p style="text-align: center;"><u>1st Place</u></p> <p style="text-align: center;">Paige Basillio & Remi Tsunoda, Kaimuki Middle School, Grade 6 <i>Coding Is It Simple or Hard to Do?</i></p>
	<p style="text-align: center;"><u>2nd Place</u></p> <p style="text-align: center;">Kaylen Kawakami, Niu Valley Middle School, Grade 7 <i>The Effects of Non-PointSource Pollution on Beluga Whales</i></p> <p style="text-align: center;">Tara Morisato, Niu Valley Middle School, Grade 6 <i>Disastrous Debris</i></p>
	<p style="text-align: center;"><u>3rd Place</u></p> <p style="text-align: center;">Mika Ishii, Kaimuki Middle School, Grade 6 <i>The Laurentide Glacier Ancient Sculptor of North America. Has the Work Really Ended?</i></p>

Honorable Mentions

	<p style="text-align: center;">Angel Grabow, Ashley Laybon & Keith Reyes, Kaimuki Middle School, Grade 7 <i>Support the Pink</i></p>
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Haley Churchill & Sydney Saldana, Kaimuki Middle School,
Grade 6
First Came Apes, Then Came Humans?

Best of Category Awards



Animal Sciences

Kaylen Kawakami, Niu Valley Middle School, Grade 7
The Effects of Non-Point Source Pollution on Beluga Whales



Behavioral and Social Sciences

Matai Suitonu & Devina Malaluan, Jarrett Middle School,
Grade 7
How Do Optical Illusions Trick the Brain?



Computer Science

Landon Murai, Niu Valley Middle School, Grade 7
Biometrics



Earth & Planetary Science

Mika Ishii, Kaimuki Middle School, Grade 6
*The Laurentide Glacier Ancient Sculptor of North America.
Has the Work Really Ended?*



Energy & Transportation

Colleen Kagawa, Jade Frank & Charlotte
Nguyen, Kaimuki Middle School, Grade 6
Hydropower at Hoover Dam



Environmental Sciences




Tara Morisato, Niu Valley Middle School, Grade 6
Disastrous Debris



Mathematical Sciences

Paige Basillio & Remi Tsunoda, Kaimuki Middle School,
Grade 6
Coding Is It Simple or Hard to Do?

Medicine & Health Sciences

	<p>Noela Tuguro & Kelsie Nakashima, Kaimuki Middle School, Grade 6 <i>Too Cold to Play? No Way!</i></p>
	<p><u>Microbiology</u> Kawai Kaneakua-Rauschenburg, Anuenue School, Grade 8 <i>Microorganisms in Different Types of Water</i></p>
	<p><u>Physics & Astronomy</u> Jazzlyn Luke & Aleeyah Lemons, Kaimuki Middle School, Grade 6 <i>Little Lights in the Night</i></p>

**2014 Honolulu District Science and Engineering Fair
Art Contest Awards**

	<p align="center"><u>Grand Prize</u></p> <p>Cara Shauf, Grade 8, Washington Middle School</p>
	<p align="center"><u>2nd Place</u></p> <p>Hieu Huynh, Grade 8, Washington Middle School</p>
	<p align="center"><u>Honorable Mention</u></p> <p>Nasya Boneza, Grade 6, Stevenson Middle School Asialynne Hahn, Grade 7, Washington Middle School Jiaying Liang, Grade 8, Stevenson Middle School</p>

Meet this year's judges...

Ms. Marie Aguilar

My Bachelor's is in Exercise Science and my Master's is in Educational Psychology. I have taught Physical Education, Health, Strength and Conditioning, Religion and Psychology. I have taught K-12 professional development classes for teachers and college classes.

Dr. Ethan Allen

Pacific Resources for Education and Learning, STEM Director

PROFESSIONAL PREPARATION

B.A., State University of New York at Binghamton, Biology, 1973

Ph.D., University of Oregon, Systems & Integrative Biology, 1983

APPOINTMENTS

2010-present Director, Science, Technology, Engineering, and Mathematics, Pacific Resources for Education and Learning, Honolulu, HI.

2004-2010 Education & Outreach Manager: Center for Nanotechnology and Genetically Engineered Materials Science and Engineering Center, University of Washington.

1998- 2003 Director, Educational Partnerships: Institute for Systems Biology (2002-2003); Dept. Molecular Biotechnology University of Washington (1998-2002).

1994-1997 Associate Director for Policy and Planning: Teachers Academy for Mathematics and Science, Chicago.

1991-1993 Science Exhibit Developer: Museum of Science and Industry, Chicago.

1990-1991 Research Associate: Institute of Neuroscience, University of Oregon.

1987-1990 Postdoctoral Fellow: Zoology Department, University of Texas.

1983-1987 Postdoctoral Research Associate: Psychology Department, University of Oregon.

Dr. Austin Anderson

Mathematics Instructor at Kapi`olani Community College

PhD in Mathematics from UH Manoa, 2011; BS in Mathematics from University of New Mexico, 2003; Mathematics Instructor, Kapiolani Community College, 2011-present

Alexis N Anjomshoaa

I am currently a graduate student at UH Manoa studying in the department of Natural Resources and Environmental Management. I graduated from the University of California Santa Barbara with a BA in Spanish and Communications. After graduating I volunteered with Americorps and was a teaching assistant for an inner city school in San Jose, CA. Then I went on to teach ecology on Catalina Island, scientific methodology in the Bahama, and sustainable gardening practices on the Big Island.

Dr. Jinan Banna

Jinan Banna holds a B.A. in Psychology with a minor in Health/Exercise Science from the University of California, Santa Barbara and a Ph.D. in Nutritional Biology from the University of California, Davis. She is also a Registered Dietitian, and completed a dietetic internship at New York Presbyterian Hospital, New York City, where she received practical training in the clinical, community and foodservice areas. She was previously working as a research scientist at the Instituto de Investigaci—n Nutricional in Lima, Peru, where she was exploring the dietary habits of adolescents in a periurban community. Her research interest is in exploring the dietary habits of minorities domestically and internationally and developing tools to assess food behaviors and dietary intake, particularly in Spanish-speaking populations. She is now focused on cultural attitudes and beliefs and association with weight and dietary intake in a multiethnic population in Hawaii as an Assistant Professor at the University of Hawaii at Manoa, where she also teaches nutrition courses.

Ms. Corrin Barros

Ms. Corrin Barros is a Senior Specialist with PREL. She currently serves as a Co-Project Manager for the Pacific Island Climate Education Partnership, a K-14 climate education initiative funded by the National Science Foundation. She is also working with the Pacific Regional Comprehensive Center as the Education Policy Analyst. Her research interests and experiences include food and food policy, energy and energy policy, and traditional ecological knowledge in science education. Prior to joining PREL, Ms. Barros served as a Research Assistant with the Hawai'i Energy Policy Forum at the University of Hawai'i and has worked with the Hawai'i Association of Conservation Districts as a Conservation Planner and a Program Manager. Ms. Barros holds a Bachelor's Degree in Biology from Linfield College and a Master's Degree in Urban and Regional Planning from the University of Hawai'i at Mānoa.

Mr. Charles Bering

Charles Bering is currently a doctoral candidate seeking a PhD in Business Administration. His dissertation is exploring Appreciative Inquiry Theory as a theoretical framework to develop self-advocacy in dyslexic persons pursuing employment opportunities. He also has over 26 years of experience serving the U.S. Navy as an Information Warfare professional both as an active duty officer and as a civilian. His areas of expertise includes computer science, electronic engineering, human resource management, and organizational development.

Philip Blackman

MS Engineering Degree, MIT. Robotics mentor and developer.

Mr. Thomas S. Borgioli

- BS Biology from UH Manoa
 - Medical Technologist certified ASCP 1977
 - Histology Technician certified ASCP 1972
 - Medical Laboratory Technician 1969 to 1977
 - MA Organizational Mangement University of Phoenix 2000
 - Medical Technologist 1977 to 1980
 - Supervisory Medical Technologist 1980 to 1994
 - Laboratory Manager 1994 to present
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Joanne Boyd

- Bachelor's Degree of Science in Biology, University of Waikato, New Zealand
 - Master's Degree in Biology, University of Guam, Marine Science
 - Currently science coordinator at Kamiloiki Elementary
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Dr. Jerry M. Brennan

I have been a State Science Fair Senior judge for the past 10 years. I taught statistics and research methods at the University of Hawaii at Manoa for 10 years in Sociology, Psychology, Economics, and Education departments. I wrote and marketed a statistics package for computers. I am a clinical psychologist in private practice now. I was a court appointed custody evaluator for many years. I was Vice President for the Hawaii School of Professional Psychology which is now Argosy University.

Holly Campbell

I graduated from the University of California with a BS in Cell, Molecular, and Developmental Biology, after which I worked as teacher within an elementary school after school program for at-risk children. I am now a graduate researcher in the Anatomy, Biochemistry, and Physiology Department of the John A. Burns School of Medicine at the University of Hawaii at Manoa. I am working on my graduate degree in Developmental and Reproductive Biology, specifically in cardiovascular development. I am also a teaching assistant for an upper level undergraduate Human Anatomy and Physiology course at UH Manoa.

Dr. Kimberly Carl

Lecturer at Kapiolani Community College and West Oahu College

Lecturer at Kapiolani Community College and University of Hawaii, West Oahu 2013
Human Biology (Bio 100, 3 credits, two sections = 6 credits total) - Spring and Fall

Lecturer, Spring 2013

Kapiolani Community College, Department of Science and Mathematics
Introductory Biology Laboratory (Bio 101L, 1 credit) - Spring
Introductory Biology - Fall

Teaching Assistant/Intern, Spring 2010 - Spring 2011

UH Manoa, Department of Cell and Molecular Biology/Department of Biology
Genetics, Evolution and Society (Bio 340), Directed Studies (Bio 399), and Cell and Molecular Biology (Bio 275)

Mr. Delwin Ching

Retired civil engineer, worked 37 years at Honolulu Board of Water Supply. Currently working part time at Austin, Tsutsumi & Associates. BS civil engineering, BA mathematics from University of Hawaii. MS civil engineering major, math minor, Oregon State University.

Ms. Katharine Clukey

I received my undergraduate degree from Florida Atlantic University Honors College in Environmental Science in 2007. Since graduating, my work has been focused on sea turtle and marine conservation, research and education in Florida, the Caribbean, Central America and Africa. I am currently a graduate student in the Natural Resource and Environmental Management program at University of Hawaii with my research thesis project focusing on plastic contamination in Pacific sea turtles.



HervŽ Collin

Aloha! My name is HervŽ Collin and I am a Physics instructor at Kapi`olani Community College. I am pursuing a PhD in Biomedical science at the University of Hawaii at Mānoa and am especially interested in frequency decomposition of sleep architecture, chaos theory, implications and formalism of quantum mechanics, computer hardware, and computational algorithms. I am particularly involved in undergraduate research in our STEM program at Kapi`olani Community College, which includes: Cansat, UROV, Solar tracking, educational Web software development, and sleep research. I came to Hawai`i in 1992 and have lived on this beautiful island ever since where I enjoy hiking, reading, programming, physics, mathematics, and working for our local students.

Edwin J. Colon-Rivera

UH- WRRC Research Support - Assist the Water Resources Research Center (its Director and other faculty members as assigned by the Director) in ongoing and planned research projects. Work with fabrication and modification of equipment for field and laboratory experiments. Develop work plans, in consultation with faculty for the conduct of experiments and collection of data. Analyze data and work with the faculty in the interpretation of research data. Prepare reports of the results of the experiments and work with the faculty for the publication of the results in appropriate journals and conference proceedings.

RCUH-ARL Environmental Engineering Specialist - Work with Civil and Environmental Engineering Principal Investigator in their research. Responsible for designing, building, implementing, and conducting experiments on the fate and transport of pollutants in tropical soils and marine sediments. Performs daily maintenance and data collection of laboratory experiments. Responsible for reporting to other laboratory staff and principal investigator. Collaborates with scientists within ARL to conduct and analyze other studies on the fate and transport of pollutants.

Dr. John Corboy

Dr. Corboy has practiced ophthalmology for 30 years in Honolulu and now delivers medical and surgical eye care to the South Pacific and Southeast Asia as President of the Hawaiian Eye Foundation. He teaches business at St. Louis High School and has judged at science fairs for over 20 years.

LT Phil Davis

LT Phil Davis a Nuclear Engineer with Pearl Harbor Naval Shipyard
Twenty years of service in US Naval Nuclear Power Program. I have had experience on

submarines and aircraft carriers. Currently, I work at Pearl Harbor Naval keeping the ships and submarines "Fit to Fight."

Mr. Brian M. Dote

Tech Lead; REcake LLC.; Jay, OK - June 2013 to current

¥ Tech lead for an early stage startup in the technology and real estate space.

¥ Responsible for development of the iPhone application, web server infrastructure, CMS, API, and parsing toolset.

Tech Lead; Vidiem Inc.; San Jose, CA -March 2013 to current

¥ Tech lead for an early stage startup in the social network and music space.

¥ Responsible for development of the web server infrastructure, CMS, HTML5 front-end, mobile browser player, and native iOS app.

Co-Founder and Engineering Lead; Menuie, LLC.; Honolulu, HI - July 2012 to current

¥ Co-founder of a startup building visual mobile menus for the iOS platform.

¥ Responsible for user experience, iOS development, and CMS and API backend.

Co-Founder; Viimodo, LLC.; Honolulu, HI - July 2012 to current

¥ Co-founder of a startup building educational games and applications for the iOS platform.

¥ Responsible for user experience, branding, gameplay, and concept design.

¥ Shipping 2 games in 2012.

Chief Technology Officer; KamaaŌina Realty, LLC.; Honolulu, HI - May 2012 to current

¥ CTO of a real estate company building mobile applications for realtors.

¥ Engineering lead for software development, website application development, branding, and design.

Owner and Designer/Developer; Tapiki, LLC.; Honolulu, HI - Mar 2011 to current

¥ Built and shipped more than 30 iOS applications and over 50 websites for clients worldwide.

¥ Lead designer for visual interface, GUI, and user experience design.

¥ Responsible for engineering project management role for various clients.

¥ Other roles include software engineering, quality assurance, architecture design, and team management.

¥ Served as technical consultant/subject matter expert in mobile app and web for various clients.

Dr. Ronald Dunn

Professor of Physiology and Anatomy at Kapi`olani Community College

Mrs. Stephanie Ericksen

Education and Outreach Specialist with Department of Land and Natural Resources, Division of Forestry and Wildlife

Education: MEd in Curriculum Studies 2013, BS in Marine Science 2004.

Work experience: DLNR-DOFAW Education & Outreach Specialist, HPU Windward Campus Science Lab Assistant, National Audubon Society Tavernier Science Center Field Technician, Florida Fish & Wildlife Conservation Commission Biologist I, NJ Department of Environmental Protection Field Biologist.

Mr. Kenneth Fisher

C4IT Project Manager with US Coast Guard. 13 years working in electronics and information technology for the US Coast Guard. Started career as an IT technician, now a project manager for multiple USCG IT and electronics systems. BS in Computer Networking.

Dan Goemans

Mr. Goemans is a software architect at Hawaiian Telcom, currently working on the development of master data management systems. His expertise also includes work on enterprise systems, real-time control systems, mesh networking, and distributed storage.

His areas of interest include software design and architecture, cryptography, and game theory. Outside of work, he enjoys sailing, chess, intense amounts of coffee, and playing Minecraft with his son. He holds a Bachelor's degree in computer science from the University of Wisconsin.

Mr. Les Goto

Retired DOE physics/chemistry teacher, VP, IT telecommunications systems specialist. BS in Mechanical Engineering. M Ed in Secondary Science Ed.

Mr. Luke A. Grim

Fifteen+ years in the US Army; B.S. in Applied Arts and Science from the University of the Incarnate Word; almost complete with Masters in Political Science; Mathematical experience comes from overall knowledge and tutoring teenagers and adults in geometry and algebra for the last 6 years for both HS and College; I have a fun Dalmatian dog.

Mr. Joshua Gurr

Currently, I am a first year graduate student in the chemistry department at UHM. Prior to this, I was a research associate for three years at Synthetic Genomics Inc. in San Diego, CA. My role there as a chemist was to assist in the development of a next generation biofuel from micro algae. Prior to this role, I worked at various pharmaceutical companies with high throughput preparative HPLC to purify drug candidates.

Dr. Angelos Hannides

Dr. Angelos Hannides is a marine scientist with broad-ranging research interests, varying from benthic ecosystem function, to coastal and deep-sea biodiversity and biogeochemical benthic-pelagic coupling. He has worked extensively on the interaction of chemical conditions and biological processes, mainly in marine sediments but also in most of the other marine habitats: the euphotic zone (surface) of the water column, river-ocean margins, estuaries, hard substrate communities, coral reefs, and deep-sea chemosynthetic habitats. He studied at the Univ. of Miami (Florida), Stony Brook Univ., and the Univ. of Hawaii, from which he received my PhD in 2008. He then spent four years in my country of origin, Cyprus, where he worked as a government scientist, as a consultant for the private sector, and as a lecturer and researcher at the Univ. of Cyprus. He is currently a post-doctoral researcher at the Dept. of Oceanography of the Univ. of Hawaii

Mr. Michael Hirakami

Mr. Hirakami retired from General Electric Company. His expertise is in Electric Utility Power Systems Engineering and has done research, development, and application of engineering studies, new products, and industry standards for utility power systems both nationally and internationally. He holds an MSEE, has several written technical publications, is a registered Professional Engineer in New York and Hawaii, and is a Life Senior Member of IEEE.

Ms. Heidi Hirsh

Natural Resources Manager with NOAA

Develop and implement management plans for three Pacific Marine National Monuments in collaboration with multiple agencies, state and territorial governments, stakeholders, and non-government organizations. Work in partnership with the NOAA Pacific Islands Fisheries Science Center on scientific research needs to manage the marine national monuments. Have been employed as a natural resources manager for all of my career.

Dr. Robert L. Hubbard

Full professor at Naval Postgraduate School 1 year. Taught short courses in analytic methods for Catholic University. I have a PhD in physics. I have judged at the Hawaii State Fair every year since 1986 and have been Chief Judge for Junior Research since 1999. I have annually served as Chief Judge in Senior Research with HAIS since 1987. I have judged at Windward District in all but two years since 1986 (Chief Judge SR twice, Chief Judge JR 4 times).

Dr. Michael R. Hdmack

Michael received his Ph.D. In physics from from the University of Hawai`i at Manoa in 2012 and is presently a postdoctoral fellow in the Free-electron Laser Group at the University of Hawai`i at Manoa. He specializes in the development of compact sources of x-ray and

gamma radiation using lasers and advance optical technologies as well as the development of diagnostic instrumentation for particle accelerators.

Mr. David Itano

Recreational Fisheries Coordinator with NOAA Sustainable Fisheries Division

I am employed by NOAA, National Marine Fisheries Service as the Recreational Fisheries Coordinator for the NMFS Pacific Islands Regional Office. The PIR includes Hawaii, American Samoa, Guam and the Commonwealth of the Mariana Islands. I coordinate all aspects of non-commercial fisheries (data collection, outreach, socio-economic studies, improvements to, etc.) between NOAA and the recreational/non commercial fishing communities of the region.

Mr. Lester Iwamasa

BSEE 1977 University of Hawaii at Manoa. 35 years of experience in aerospace computing and information technology at The Boeing Company in Seattle in both defense and commercial business segments. Retired in December 2012 as a senior manager in information technology.



Dr. Rajesh Jha

I am broadly trained Animal Scientist, with specialization in Nutrition and Health. For more information, please visit: <http://www.ctahr.hawaii.edu/hnfas/individualPages/jha.html>

Mr. Robert Wayne Jones, retired

Dr. Regina Jorgenson

Research Scientist with Institute for Astronomy at University of Hawaii-Manoa

Dr. Prakash Kabbur

Neonatologist with Kapiolani Medical Center for Women and Children

Dr. Shidong Kan

- Physics instructor at Honolulu Community College (2012-present); teach Technical Physics, Physical Science and Astronomy; develop Physical Science and Technical Physics Laboratories
 - Physics instructor and coordinator at UH Maui College (2011-2012); Completely updated the Physics Laboratory equipment (applied and received ~\$45,000); prepared documents for the Physics Lab and the Machine Shop of the New Science Building; taught College Physics, Physical Science and Electromagnetism for Engineers; developed College Physics and Physical Science Laboratories; updated Physics courses curriculum; recurred physics lecturer
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Ms. Lauren Johanna Kaupp

Lauren is a Science Specialist with the Curriculum Research & Development Group in the College of Education at the University of Hawaii at Manoa. Prior to her current position, Lauren taught 10th grade Physics and 11th grade Chemistry at the University Laboratory School in Honolulu. Lauren is a doctoral candidate in Education Leadership at the University of Southern California and holds a M.S. in Oceanography from the University of Hawaii at Manoa and a B.S. in Chemistry from the University of Maryland, Baltimore County.

Mr. Michael Korman

Currently serve as humanitarian assistance subject matter expert overseeing global multinational training operations designed to improve health emergency management, disaster preparedness, and civil-military coordination for crisis response among the United States, partner nations, and the international humanitarian community. Served 20+ years as Business Operations Manager and Certified Management Consultant providing critical thinking and creative problem solving expertise for multi-million dollar government and commercial contracts, including health and human services, information technology, manufacturing, and national defense. Operational experience includes: IT Project Management, Business Process Engineering, Change/Risk Management, Security Operations, Finance/ Project Accounting, Business Development, and Strategic/ Financial Planning. University Faculty member with 10+ years teaching health care administration, human services, humanities, ethics, and business. Military experience includes serving as a helicopter pilot, aircraft commander, operations manager, and senior staff director. Top Secret clearance.

Dr. Mukesh Kumar

Instructor/Associate Director with University of Hawaii

Dr. Kumar has research experience in biomedical science, microbiology, virology, and diabetes. He has been a graduate assistant in the University of Hawaii Department of Tropical Medicine, and has experience in Medical Microbiology, Pharmacology, and as a veterinary surgeon.

Michael Y. Magaoay

- President and Electrical Engineer with MYM Services
 - Graduated from UH-Manoa with a BSEE
 - Worked in the Electrical Engineering field over 30 years in design, construction, & project management.
 - Former State of Hawaii House of Representative for 10 years
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Dr. Janice Marsters

Dr. Janice Marsters is a Senior Environmental Engineer with the Hawaii office of Kennedy/Jenks Consultants, where she manages the office's environmental consulting practice. She also heads Kennedy/Jenks's Federal Environmental Business Development Group. She has worked in the engineering profession in Hawaii for 20 years as a principal or senior project manager. Her areas of expertise include storm water management and engineering, environmental planning and permitting, environmental investigation, and sustainability.

Janice has Bachelor and Masters degrees in Civil and Geotechnical Engineering from the Technical University of Nova Scotia, and a Ph.D. in geology and geophysics from the University of Hawaii. Prior to coming to Hawaii, she worked for several years in the marine geotechnology research. After graduating from UH, she was a partner in a Hawaii small business environmental consulting/ geotechnical engineering firm for 17 years.

Janice is Past President of the American Council of Engineering Companies (ACEC) of Hawaii, and current chair of ACEC's national Business Risk Management Committee. She has provided engineering and environmental expertise to numerous community policy and planning committees, including the Oahu Metropolitan Planning Organization, the Department of Transportation's Complete Streets Task Force, and the City of Honolulu's Landfill Site Selection Committee.

Dr. Vanessa Michelou

Postdoctoral researcher with University of Hawaii, Manoa Center for Microbial, Oceanography: Research and Education.

I came to the University of Hawaii's Center for Microbial Oceanography: Research and Education (C-MORE) as a postdoc last year, and was interested in education and outreach activities right away. Throughout my academic career, I have always been involved with outreach and education programs. I recently joined the C-MORE Professional Development Training Program (PDTP), which is composed of graduate students, post-docs and the C-MORE Education Director. The objective of the PDTP is to equip C-MORE graduate students and post-docs with the skills and experiences needed to maximize their potential and succeed in their professional careers.

I have a long-term commitment to broadening participation. I have served as a mentor in C-MORE's REU program for underrepresented minorities, participated in teleconferences to learn strategies about recruiting and retaining individuals with disabilities into STEM fields, and have also participated in numerous outreach events aimed at broadening participation. As a Latina (from Colombia), I have always shown a particular commitment to serving as a role model for young Hispanic women. Having won numerous scholarships and fellowships from minority-serving organizations (e.g. Hispanic Scholarship Fund and the Minority Fellowship for Research) I believe I am now mentoring the next generation of minority scientists so that they, too, can qualify for these awards.

Ms. Kara Miller

Federal Program Officer with National Marine Fisheries Services

Scope of work: marine biology, marine, environmental and fishery resource management and policy. Education: BA, University of San Diego; MS, UH Manoa. Work: NOAA/NMFS, fishery policy analyst and program officer. Focus: collaborating with and supporting communities in employing effective conservation and management strategies for Hawaii on local and regional levels.

Robert Moeng

Aloha all! My name is Bob Moeng. I go by Dr. Bob since pronouncing my last name is always a challenge. I am an Associate Professor of Math and Sciences at Kapi'olani Community College. I currently teach Anatomy and Physiology online. In the past, I taught a variety of other Biology and Zoology courses both here at KCC, UH Mānoa and elsewhere. I am also Coordinator for the STEM Center, a facility that supports student success in the various math and science disciplines. Finally, I am the contact person for the START UP Scholarship (thanks to NSF) that funds students pursuing math or science-related careers.

Though I was born on the mainland, I've lived in Hawaii much of my life. There is no place better in the world. For almost 10 years prior to joining the KCC faculty, I was involved in developing educational software. I do love to learn new ways of utilizing computer technology. I spend leisure time either in or near the ocean or doing projects around the house'oh and at least a week a year boarding in the snow (the frozen ocean).

Dr. Dora Nakafuji

Dora is the Director of Renewable Energy Planning at Hawaiian Electric Company (HECO). Her division spearheads many of the renewable integration initiatives including wind and solar characterization, ramp event forecasting, distributed generation impact analysis and workforce training/development. She has been working in the area of renewable energy research and wind integration over the past 12 years. Formerly she was a staff researcher at Lawrence Livermore National Laboratories focused on critical infrastructures in energy and transportation security. She also served as the Technical Lead for the Wind Energy R&D and Renewable Integration at the California Energy Commission. Dora is a graduate from the University of California at Davis with a Ph.D. in Aeronautical and Mechanical Engineering with a multi-disciplinary background in experimental and computational analysis. She is also an adjunct professor at the UH Manoa in the Electrical Engineering Department.

Mr. Jason Nakasato

Mr. Nakasato is a Power Plant Engineer with Hawaiian Electric Company and USCG licensed.



Mr. Michael Nassir

Michael A. Nassir is a full-time Instructor in the Department of Physics & Astronomy at the University of Hawaii at Manoa, where he primarily teaches large undergraduate physics courses. He is also the supervisor and coordinator for UH Manoa's introductory astronomy lab, and an academic advisor for the Physics department. In 2005 & 2010, he received UH awards for excellence in undergraduate teaching. Mike is also active in public outreach and summer programs with UH's Institute for Astronomy.

Mr. Phuong Nguyen

Graduate Student and Teaching Assistant at the University of Hawaii at Manoa

I got my BS in chemistry at Central Washington University. Currently, I am pursuing PhD degree in Chemistry, specialization in Inorganic Chemistry - Hydrogen Storage in the lab of Dr. Jensen.

Kathleen Ogata

I am part of the chemistry teaching faculty at Kapi`olani Community College and am involved in student research and service-learning to increase student engagement. Past and present research and community projects: production of biodiesel from waste cooking oil (joint project of STEM and culinary department); water quality of Waikalua Loko (Hawaiian fishpond); and involvement in service-learning pathway (Malama i na Ahupua`Oa) that helps with community partners to care for the land and Hawaiian traditions. Possible future projects: chemistry of Hawaiian food and medicinal plants and production of biodiesel from algae.

Dr. Aaron Ohta

Associate Professor of Electrical Engineering with the University of Hawaii, Manoa.

I have been with the UH Dept. of Electrical Engineering for four years, and I have expertise in the broad areas of electrical engineering and biomedical engineering.

Ms. Kelsie H. Okamura

Kelsie earned her Masters Degree in Clinical Psychology from the Univeristy of Hawaii at Manoa. She is currently a doctoral candidate and her research interests include youth anxiety, dissemination of evidence-based practices (EBP), and therapist characteristics as moderators of EBP adoption. Kelsie's clinical training focuses predominantly in evidence-based assessment and treatment of youth anxiety, depression, ADHD, and oppositional behavior. Kelsie has published and presented her research and clinical activities in various journals and conferences.

Brandon Onishi

Brandon Onishi joined Hawaiian Telcom in 2001, and is currently the Senior Manager of the Emerging Technologies group. At Hawaiian Telcom, Brandon leads a team of engineers to identify and adapt technical innovations to further develop Hawaiian Telcom's leadership in the high-tech arena. Throughout his career in tech, he has held various responsibilities in network engineering, sales engineering, and government account management. In his spare time, he volunteers as a guest lecturer at the Kapiolani Community College's ITS program and participates on the University of Hawaii's IT Advisory Board. He holds several technical certifications and is a proud graduate of the University of Hawaii.

Dr. Nicholas G. Opie, DC

Retired Chiropractor

BS degree in Biology, 1977, Pacific University, Forest Grove, Oregon; Doctor of Chiropractic (DC) 1980, Western States Chiropractic College, Portland, Oregon; Private Practice Honolulu 1981-1984; Private Practice Kailua 1984-2009

Ms. Risa Oram

Science Operations with NOAA

Risa Oram works for the National Oceanic and Atmospheric Administration in the Pacific Islands Fisheries Science Center. Ms. Oram's professional interests include coral reefs,

watershed management, land based pollution, marine managed area science and social science research. Ms. Oram earned a Masters of Marine Affairs from the University of Washington in Seattle and a Bachelors in Environmental Studies and Applications from Michigan State University.

Dr. Naresh Pandya

Dr. Naresh Pandya earned his B.Sc. (Honors) in Chemical Physics from Sussex University in England, M.Sc in Chemistry from Brock University in Canada and Ph.D. in Chemistry from University of Hawaii at Mānoa. Over the past thirteen years he has been an instructor in Chemistry at Kapi`olani Community College.

His research background includes: X-crystallography, Fourier Transform Infrared Spectroscopy, Raman Spectroscopy, High Temperature Mass Spectrometry and high vacuum adsorption/desorption studies.

Dennis Perusse

I received my master's degree from the University of North Florida in Mathematical Sciences. My interests include Number Theory, Computer Programming, Quantum Chemistry, Lasers, and Cognitive Psychology.

Dr. Dexter Poon

Senior Scientist with Oceanit Laboratories, Inc.

Dr. Poon received his doctorate from the University of Cincinnati (Dept. of Molecular Genetics, Biochemistry, and Microbiology) where he studied Herpes Simplex Virus type 1 genes that contributed to neuronal pathogenesis. Dr. Poon completed post-doctoral training in retrovirology at Harvard Medical School and the National Cancer Institute in Frederick. He has authored peer-reviewed articles investigating HSV, HIV, Mouse Mammary Tumor Virus (MMTV), Murine Leukemia Virus (MLV), and Adenovirus. Dr. Poon has been with Oceanit for 2 years.

Mr. Blake Rabe

I am an Operations Supervisor with Monsanto. I grew up in Vandalia, Illinois. I graduated from Lake Land College in Mattoon, Illinois in 2008 with a AS degree. I transferred to Illinois State University in Normal, Illinois and graduated in December 2009. I started as a production trainee with Monsanto in January 2010 in Waterman, Illinois, working at a seed corn production plant. I transferred to Kunia, Hawaii in December 2012 and work with foundation corn on the island of Oahu.

Ms. Whitney Ray

I am currently a graduate student at the University of Hawaii at Manoa obtaining a degree in Natural Resources and Environmental Management. I am also a research assistant working in the field of plant and soil science with an undergraduate degree in Biology and Anthropology.

Ms. Nora Robertson

I graduated from University of Hawaii at Manoa with a Bachelors and a Masters degree in Biological Engineering. During my college career, I had the fortunate opportunity to work as a Science Laboratory Student Intern at Tissue Genesis, Inc. on the NASA funded Bioculture System project to understand the effects of growing cells in a microgravity environment. After graduation, I was hired by Tissue Genesis as a Biological Engineer to continue working on the Bioculture System.

Ms. Rachel Roper

I studied Civil and Environmental Engineering at UH Manoa as a Regent Scholar from 2003 - 2007. Upon graduating, I accepted a job with the Department of Transportation, Highways Division and have worked there for 6 years. In 2012, I received my professional engineering license.

Dr. Carolyn Sue Ross

PEARSON School Achievement Services - Hawaii Project Manager: July 2013 to Present

Superintendent of Schools - Churchill County School District, Fallon, Nevada: 2005 Ð 2012

American Association of School Administrators National Governing Board Member	2010 - 2012
Fallon Rotary 2003 Ð Present)	2005 - Present
Rotary Club Member since 1998 (Director of Youth Services, Fallon Daily Bread (Serving food to the Hungry)	2003 - Present
U. S. Navy League, Naval Air Station, Fallon, Nevada	2003 - Present
Churchill County Economic Development Advisory Board	2003 - Present
Western Nevada Community College Advisory Board	2003- Present

Dr. Donald W Rostow, MD

Dr. Rostow is a retired pediatrician. He has the following degrees from Rutgers University AB 1970, University of Pittsburgh School of Medicine MD 1974, Vanderbilt University Hospital Pediatric Internship 1974-75, Montefiore Hospital & Medical Center (Bronx, NY) Pediatric Residency and Fellowship 1975-78, Private Pediatric Practice in Southern California 1978-2011

Dr. Brent K. Rubio

Curriculum Vitae can be found at www2.hawaii.edu/~brubio

Mr. Kevin Ruddell

1985 graduate of the United States Military Academy. Masters in Computer Resources and Information Management from Webster University. Served in the US Army for 26 years. Returned to Hawaii in 2011. CompTIA A+, Security+, Network +.

Dr. Ty Samo

Postdoctoral Fellow at University of Hawaii, Manoa

I am currently a postdoc conducting research on microbial oceanography. Specifically, I observe the activities of individual cells using microscopy and relate the observations to dynamics in nutrient cycling in the Pacific Ocean. I received my Ph.D. in marine biology in 2012 and M.S. in marine biology in 2010, both from the Scripps Institution of Oceanography. I received a B.S. in cell biology & biochemistry in 2004 from UC San Diego.

Ms. Hope T. Sartain

Chemistry Graduate Student and Teaching Assistant at University of Hawaii at Manoa.

US Air Force 2000-2004 position: cryptologist; Associates Degree in Science from Grand Rapids Community College 2010; Bachelors of Science in Chemistry from Grand Valley State University 2013; currently an inorganic chemistry graduate student on a PhD tract at the University of Hawaii at Manoa.

Ms. Meghan Shaw

I am a Master's student with the University of Manoa Natural Resources and Environmental Management Department (NREM) program at University of Hawaii where I am looking into more of the hydrology and environmental policy program areas. I completed my undergrad at Monmouth University, New Jersey where I obtained a BS in Marine and Environmental Biology and Policy with a minor in Public Policy.

Paul Sherard

Assistant Professor at Honolulu Community College (August 2007-present); teaching introductory physics for Career Technical Education (CTE), Liberal Arts and programs at HCC; teaching all general physics laboratory courses; taught both Physics and Astronomy Distance education (online) courses; developed a Principles of Technology course specifically for the Computer, Electronics and Networking Technology (CENT) program; utilized online technology such as Laulima, Mastering Physics, and Web Assign to allow students to access class material and homework assignments; purchased Laboratory equipment through a Perkins Grant and

set up electronic-based physics labs using Vernier equipment interfaced with PCs.

Worked for a research group at the Lunar and Planetary Labs (LPL) at the University of Arizona for over four years. During this time I was involved numerous activities involving spectroscopic experiments. We observed airglow from a local ground-based observatory on Mt. Lemmon in Tucson. We also observed the Space-Shuttle exhaust plumes at the Maui Air Force Observatory in Hawaii. This was done for two separate shuttle flights. Finally, I participated in an experiment that flew aboard the Space Shuttle. This instrument observed the airglow of the Earth from space.

Dr. Christine Shulse

Postdoctoral Scholar with C-MORE, University of Hawaii at Manoa

Dr. Shulse has a B.S. from Georgetown University, where she double majored in Biology and Spanish, and a Ph.D. in Biology from the University of California San Diego. Currently she is a postdoctoral scholar at the Center for Microbial Oceanography: Research and Education (C-MORE) at the University of Hawaii at Manoa where her research focuses on bacterial community structure and metabolism in marine environments ranging from coral reefs to the deep sea.

Mr. Jeremy R. Seitz

Teacher at Wallace Rider Farrington High School

Mr. Arthur Seki

Mr. Seki has over 36 years of experience in the renewable energy field. Mr. Seki spent 14 years at the University of Hawaii's Hawaii Natural Energy Institute and 22 years at HECO conducting renewable energy research, development and demonstration projects related to biomass, geothermal, solar, wind, hydroelectric, ocean energy, hydrogen, fuel cell, and others. As the Director of Renewable Technology at HECO, Mr. Seki continues to monitor renewable energy projects; evaluate and assess or participate in various studies related to renewable resources and technologies; and developing and installing a number of renewable demonstration projects. Mr. Seki holds MS in Civil Engineering from the University of Hawaii and BS in Chemical Engineering from Arizona State University.

Mr. Eric Shaw

BS Electrical Engineering, MS in Physics, Physics teacher at HCC for 4.5 years

Captain Marc Stegman

District 14 Chief of Response with the U.S. Coast Guard

CAPTAIN MARC D. STEGMAN currently serves as the Chief of Response, U.S. Coast Guard District Fourteen where he directs Maritime Safety, Security, and Law Enforcement Operations in response to transnational threats across the District Fourteen's 12 million square mile area of responsibility. Prior to this assignment, Captain Stegman served as the Deputy Sector Commander, USCG Sector San Juan Puerto Rico. As Deputy Sector Commander, he led approximately 650 active duty, reserve and civilian men and women to conduct Coast Guard missions in the Eastern Caribbean including Search and Rescue, Counter Drug, and Alien Migration Interdiction Operations. Prior seagoing assignments have included tours as Commanding Officer of USCGC ACUSHNET (WMEC 167) homeported in Ketchikan, Alaska, Commanding Officer of the Juniper Class buoy tender, USCGC KUKUI (WLB 203) homeported in Honolulu, Hawaii, Executive Officer of USCGC SASSAFRAS (WLB 401) also in Honolulu, Commanding Officer of USCGC POINT HOPE (WPB 82302) in Sabine Pass, Texas, and Deck Watch Officer aboard USCGC BASSWOOD (WLB 388) in Guam. Prior staff assignments have included duty as the Director of Systems Solutions Division detailed to U.S. Customs and Border Protection, Washington, D.C., Deputy Division Chief, PACAREA Operational Planning Division in Alameda, California, Seventh Coast Guard District Chief of Aids to Navigation and Waterways Management Branch, Program Reviewer in the Office of Programs at Coast Guard Headquarters in Washington, D.C., and Search and Rescue Controller at the Joint Rescue Coordination Center in Honolulu, Hawaii. Captain Stegman is a 1983 graduate of the University of Florida and was commissioned in 1986 upon completion of Officer Candidate School in Yorktown, Virginia. He holds a Master of Science Degree in Electrical Engineering

from the University of Minnesota, Twin Cities.

Mr. Zack Stoecker-Sylvia

Zack Stoecker-Sylvia received his bachelor's and master's in Computer Science from Worcester Polytechnic Institute, with a focus on machine learning and artificial intelligence. He has 10 years of work experience at companies performing research for the defense and intelligence industries and currently works in Honolulu for Oceanit Laboratories, writing automated signal classification algorithms and working with coworkers to merge his knowledge of machine learning with other scientific disciplines. He has an active interest in scuba diving, robotics, astronomy, and photography, and volunteers as a judge for the Hawaii State Science Fair and the FIRST Robotics Lego League.

Dr. Matthew Tuthill

Matthew received his B.A. in biology from the University of Hawaii at Hilo, and his Ph.D. in cellular and molecular biology from the University of Hawaii at Mānoa. His post-doctoral research focused on human and mouse cancer models at the Cancer Research Center of Hawaii. For the past 15 years he has conducted research centered upon the regulation of gene regulation, expression and biotechnology with human DNA at UHH, UHM, Kapiʻolani Community College and the University of Minnesota. Matthew is currently a full-time instructor at KCC and teaches courses in microbiology and molecular biology.

Mr. Ken Walter

Network Security Engineer with Space Warfare Systems Command
Certified Network Security Engineer, Information Systems
Certified Incident Handler, Information Systems
Also an avid home gardener and science buff

Dr. Chad Walton

2011-present Assistant Professor, Department of Medicine, Center for Cardiovascular Research, University of Hawaii, Honolulu, Hawaii (July 1, 2011 start date)

My overall personal goal is to bring novel technologies and approaches to life science and biological research in order close the gap that exists between the bench and the bedside. I am trained in numerous animal surgical models as well as advanced molecular techniques. I have a demonstrated record of successful and productive research projects.

Connie Winterstein

Connie Winterstein is a Natural Resource Management Specialist at SWCA Environmental consultants and is currently working on a state-wide invasive species prevention project in Hawaii. She graduated with an M.S. in Natural Resource and Environmental Management from UH Manoa in May 2013 with a focus on marine management and has over ten years of project management.

Mr. William R. Wright

Graduate Student at the University of Hawaii, Manoa

Bill Wright is a grad student in computer science at UH Manoa, working on inferring human personality through features extracted from text written by the subjects.

Amy Patz Yamashiro

Amy Patz Yamashiro graduated from the Kinesiology program at UH Manoa in 2005 with a specialization in Exercise Science. She also earned an Advanced Certificate in Gerontology. Her master's thesis, published in 2006, involved biomechanical analyses of the UH swimmers' flip turns using high speed video and motion analysis software. Amy's career has focused on applying scientific principles to sports and fitness. She was a varsity and master's swim coach at UH Manoa, coached triathletes, designed exercise and wellness programs for seniors, and was a personal trainer. She has been teaching Anatomy & Physiology and Exercise and Sport Science classes at KCC since 2006.



Mr. Garret Zakahi

Garret Zakahi is the Vice-Principal at Central Middle School. He's taught 7th grade Life Science for 15 years at S.W. King Intermediate School. Also in the past, Zakahi has worked as a Teacher Mentor with new teachers in the Farrington Complex. Additionally, he's worked as a master instructor and mentor for Solving Problems And Reaching for Knowledge (SPARK) program with teachers and 5th grade and middle school gifted students in the Farrington and Kaiser Complexes.

Zakahi has a deep rooted passion for teaching science. He enjoys working with students and teachers to find ways to involve them in the process. "When everyone is involved in the learning process, a deeper and common understanding is attained."

Dr. Halina M. Zaleski

Extension Specialist working with swine producers state-wide and internationally. Started with a BS Honors in Chemistry, then ran a pig farm, and followed up with a PhD in Animal Science (reproductive physiology and statistics). Teach (you guessed it) Swine Production, Field Experience, and a graduate class in Experimental Design. Run marathons.