Class of 2013-2014: New tenured/tenure-track faculty joining Oregon State University

College of Agricultural Sciences

Massimo Bionaz

Massimo Bionaz, Assistant Professor, joined the Department of Animal and Rangeland Sciences in November 2012. Dr. Bionaz completed his PhD in physiopathology of dairy cows at the Universitá Cattolica del Sacro Cuore, Piacenza, Italy, in 2004, and was a Post-doctoral Scholar at PennState University in 2005 where he began to study nutrigenomics in dairy cows; from 2006 to 2012 he was a Post-doctoral Research Associate at University of Illinois at Urbana-Champaign working for 3 years in nutriphysiogenomics in dairy cows and the other 3 years in stem cells for maxillofacial bone regeneration. Dr. Bionaz is a dairy scientist with expertise in nutrigenomics, system biology, stem cell biology, and lactation biology. His current research focus on three areas: 1) nutrigenomics in dairy cows using a system biology approach; 2) wellbeing of dairy cows and performance; 3) effect of dairy products on stem cells involved in bone regeneration using pig as model. His research will include both in vivo and in vitro experiment spanning basic and applied research. His overall scientific goal is to investigate the possibility of fine-tuning the metabolism of animals by specific nutrients and maximize animal welfare in order to improve efficiency of milk production and quality of dairy products for human health. He teaches Dairy Management Systems and will teach Lactation Biology.

David Kling

David Kling joined the Department of Applied Economics as an assistant professor in September 2013. His research employs dynamic optimization and econometrics to study the use and conservation of natural resources. David’s dissertation addressed the management of marine invasive species, the optimal control of a biological invasion in the presence of invader-environment feedback, and spatial policies for conserving species threatened by climate change. He received his Ph.D. in Agricultural and Resource Economics from the University of California, Davis. While at UC Davis he was a 2011-2013 NMFS/ Sea Grant Marine Resource Economics Fellow. In his free time he enjoys cycling, cooking, and exploring Oregon.
Alec Kowalewski

Alec Kowalewski received his PhD in Crop and Soil Science from Michigan State University. Dr. Kowalewski’s primary responsibility is teaching and advising the Turfgrass Management undergraduate and graduate students in the Department of Horticulture. His secondary responsibility, which is partially funded by the Giustina Turf Endowment, is extension and outreach with an overall goal of improving the environmental and economic sustainability of turfgrass management. Topics of interest related to this include, but are not limited to, the utilization of sustainable turfgrass varieties and cultivars. Quantifying the impact of environmental stewardship certified golf courses is also an extension/outreach interest. Improving fertility and irrigation efficiency, and the development of carbon neutral turfgrass systems are also key factors in the development of sustainable turfgrass management. Finally, he is also involved in the development and implementation of integrated pest management programs designed to reduce pesticide use.

David Lewis

David Lewis is associate professor in the Department of Applied Economics (formerly Agricultural and Resource Economics). He is an environmental economist and his research focuses on various economic aspects of land and ecosystem. Dave holds a PhD in Agricultural and Resource Economics from Oregon State University (2005), an MS from the University of Maine, Orono, and a BS from the University of Colorado, Boulder. He has also held faculty positions at the University of Wisconsin-Madison and the University of Puget Sound. Dave lives in west Corvallis with his wife Amy and his son Henry (6) and daughter Rose (2).

Paul Marquardt

Paul Marquardt is an OSU Extension Service Cropping Systems agronomist house in Linn County. He began in March and works through the southern Willamette Valley. Paul earned an undergraduate degree in biology in 2003 from Pacific Lutheran University in Tacoma, Wash and holds a master’s degree in entomology and PhD in weed science from Purdue. He is quite familiar with the PNW and is excited to be back in the area. Paul brings a
strong background in field-based research to his position as well as specific training in integrated pest management in field crops. His scientific ties to the Midwest will be of great value as markets for Oregon-grown seeds continue to grow in the region.

Lesley Morris

Lesley Morris joined the Oregon State University Agriculture and Natural Resources Program at Eastern Oregon University as an Assistant Professor of Rangeland Sciences in July of 2013. Dr. Morris received her PhD in Ecology from Utah State University and then served as a Post-doctoral Research Associate with the Agricultural Research Service, Forage and Range Research Laboratory. Dr. Morris specializes in Historical Ecology, which employs both archival and biological methods to determine how ecosystems change over time. For her dissertation, she explored new methods using soil phytolith analysis to examine historical changes in vegetation. Phytoliths are microscopic silica casts of plant cells that remain in sediments long after plants decay. Her current research is on how land-use legacies from historical cultivation and rangeland re-seeding projects affect recovery and restoration efforts. Her studies show these land uses can alter rangeland vegetation and soils for nearly a century in the Great Basin. Dr. Morris will be teaching undergraduate courses for the program in rangeland ecology and management on the Eastern Oregon University campus while advising graduate students at Oregon State University.

Carlos Ochoa

Carlos Ochoa is an Assistant Professor in the Department of Animal and Rangeland Sciences. He received both, his PhD in Range Science and his MS in Agricultural Economics from New Mexico State University. He obtained his BS in Animal Science from the Universidad Autónoma de Chihuahua in Mexico. Before joining OSU in the summer of 2013, Carlos worked for ten years in watershed management and riparian hydrology research activities in the state of New Mexico. His research interests include the topics of rangeland hydrology, surface water and groundwater interactions, vadose zone hydrology, landscape hydrologic connectivity, and watershed and riparian systems management.

Stuart Reitz
Stuart Reitz joined the Department of Crop and Soil Sciences as a professor and cropping systems extension agent in August 2012. Dr. Reitz is based at the Malheur County Extension Office where he is working to develop economically and environmentally sound methods for insect pest and disease management in vegetable and other row crops in eastern Oregon. He also delivers information on agriculture and natural resources to growers, crop consultants and the general public through training workshops, extension publications and one-on-one consultations. Dr. Reitz came to Oregon State University after serving 13 years as a research entomologist with the USDA Agricultural Research Service in Tallahassee, FL where he conducted research on the ecology and management of thrips and other insect vectors of plant pathogens. He comes to Oregon State with natural affinity for orange, having graduated with a Ph.D. in entomology from Clemson University.

Sagar Sathuvalli

Vidyasagar (Sagar) Sathuvalli, Assistant professor, joined the Department of Crop and Soil Science in December 2012. He is based at the Hermiston Agricultural Research and Extension Center. He leads the OSU’s potato breeding program. His research focuses on Potato Breeding and Germplasm improvement using traditional, molecular and genomic tools. The main objectives of his program are to 1) Develop new stand-alone potato varieties for traditional fresh market, processing, chipping, and specialty enterprises with efforts in each sector mirroring existing markets in Oregon, 2) Identify and incorporate genetic resistance to various production problems into new potato cultivars and 3) Develop state of the art breeding techniques to increase breeding efficiency. His lab is currently focusing on developing “Russet-All” association mapping panel to identify marker-trait associations. He is also the inaugural holder of the Oregon Potato Research/Extension Professorship established in 2012. Prior to his appointment he worked at OSU as a post-doctoral research associate in hazelnut breeding and genetics. A native of India, he earned doctoral and master's degrees in horticulture (Plant Breeding & Genetics) from Oregon State.

James Sterns

James Sterns is a newly appointed Associate Professor in the Applied Economics Department, where he will be teaching and conducting research in the general areas of agribusiness marketing and management. For the past 12 years, he has been a member of the faculty of the Department of Food and Resource Economics, University of Florida. While at UF, Dr. Sterns advised over 40 graduate students and taught 70 sections across 16 different courses in the department's undergraduate, masters and PhD programs, including an annual study abroad course to France. Dr. Sterns’ research program focuses on the interface of agribusiness management, economic development and
entrepreneurship. Recent applied research has addressed these issues in Haiti, Ecuador, Mali, Malawi and Tanzania. Additional work has examined product attributes and consumer choices in U.S. food markets. In 2009/10, he had a 12-month sabbatical leave, working as a researcher at the Escuela Superior Politécnica del Litoral (ESPOL) in Guayaquil, Ecuador. He earned his Ph.D. in Agricultural Economics from Michigan State University in 1997, and then worked at MSU in support of an extension program serving Michigan's apple and tart cherry industries, followed by an 18-month assignment as a member of a research team at the Institut National de la Recherche Agronomique – Centre de Montpellier, France.

William Stubblefield

William “Bill” Stubblefield is an internationally recognized expert in the field of environmental toxicology, with a research focus on the area of aquatic toxicology and ecotoxicology. Previously an research faculty member, Dr. Stubblefield has recently joined the department of Environmental and Molecular Toxicology as a full time tenure track faculty. He will be continuing his research in the general area of environmental toxicology and the effects of chemicals and/or environmental stressors on ecological receptors. Ongoing research activities in his research group focus on the evaluation of metals and hydrocarbons in terrestrial and aquatic environments. Dr. Stubblefield’s current projects are targeted toward conduct laboratory-based studies to determine the mechanistic basis for the effects of metals on aquatic organisms. This data is then utilized to develop deterministic models that can be used to predict toxicant bioavailability and potential effects on receptor organisms. The long term goal for Dr. Stubblefield to help lead an initiative to establish a Center of Excellence in the field of Environmental Toxicology and Risk Analysis at OSU. Dr. Stubblefield will continue to participate in the training of graduate students (M.S. and Ph.D.) in the general fields of environmental toxicology and risk assessment, and serve as major professor and mentor graduate students. He will also train undergraduate students in the general fields of environmental toxicology and risk assessment (didactic and experiential learning environments) in his research laboratory. Dr. Stubblefield will also continue to teach didactic courses in the general fields of environmental toxicology: Environmental and Molecular Toxicology (411/511; 412/512;413/513); Environmental Forensic Toxicology (TOX 455/555); Environmental Toxicology and Ecotoxicology Seminar (TOX 607).

Monique Udell
Monique Udell joined the Department of Animal and Rangeland Sciences as an Assistant Professor of the human-animal bond in March 2013. Her research focuses on animal behavior and social cognition, including lifetime factors that facilitate social bonds between humans and other species. Although Dr. Udell has worked with many species including wild cats, ferrets, horses, megachiropteran bats, coyotes, foxes, mice, birds and non-human primates, for the last several years her work has primarily focused on the social development and cognition of domestic dogs and captive wolves. As the first domesticated animal, and one of our closest non-human companions in the Western world, dogs have provided a model for the relative contributions of species-specific traits, genetic domestication, and lifetime experience in the development of cross-species bonds, as well as several possible cognitive and behavioral outcomes of human-animal interactions. Dr. Udell plans to extend her work to other areas including the social development and cognition of captive animals, including livestock, and the selection, use and well-being of animals employed in therapy and other working roles. Dr. Udell earned her M. S. and Ph. D. in psychology from the University of Florida where she specialized in animal behavior and learning, and co-founded the Canine Cognition and Behavior Lab. Prior to her current position at Oregon State, Dr. Udell taught at the University of Oregon as a Psychology Faculty Fellow, and was previously an Assistant Professor of Psychology at Flagler College, located in her native state of Florida.

**College of Business**

**Chris Akroyd**

Chris Akroyd joins the OSU College of Business from The University of Auckland Business School, New Zealand. He received his M.Com from The University of New South Wales, Australia, followed by an MBA from Kobe University, Japan and a Ph.D. from The University of Auckland. Akroyd teaches management accounting and conducts research on management control systems, revenue management, product development management, target cost management, and sustainability management. He has published in Accounting & Finance and Qualitative Research in Accounting and Management.

**Jonathan Arthurs**
Jonathan Arthurs joins OSU as an Associate Professor in Strategy and Entrepreneurship in the College of Business. He graduated from Texas A&M University with a BBA and was a commissioned officer in the U.S. Army. After leaving the military, he worked as a bookstore manager before going back to Texas A&M to earn his MBA. Upon graduation he worked in the finance department of a large corporation and then on an internal consulting team reporting directly to the top management team. Next, he attended the University of Oklahoma and completed his Ph.D. with a focus in strategy and entrepreneurship. He spent nine years at Washington State University where he was also the doctoral program coordinator for the management track. He teaches strategy and entrepreneurship courses and his research focuses on governance and innovation, particularly in new ventures.

**Jeff Barden**

Jeff Barden joined the Strategy and Entrepreneurship group in the College of Business in September 2013. Barden received a Ph.D. from the Fuqua School of Business at Duke University, an MBA from the Kelley School of Business at Indiana University, and a B.A. in economics from the University of North Carolina. Barden’s research focuses on inter-organizational relationships, exchange, entrepreneurship and technology. Barden teaches strategy to MBA and undergraduate students.

**Inga Chira**

Inga Chira joined Oregon State University in September 2013 as an Assistant Professor of Finance. She completed her Ph.D. in May 2013 at Florida Atlantic University, where she taught corporate finance and financial institutions. Prior to pursuing her Ph.D., Chira was a full-time instructor at Jacksonville University in Jacksonville, Fla., where she taught courses in corporate finance, financial statements analysis, financial markets and institutions, investments, financial management, international finance, security analysis and venture finance. In addition to her academic career, Chira has industry experience in corporate finance and financial systems analysis at CitiStreet, ING, UPS and CSX. Chira’s research is focused on empirical corporate finance and is concentrated on mergers and acquisition and the efficiency of financial regulation. Her future plans include pursuing a CFP certification and working towards promoting financial literacy and education.
Peter Frischmann

Peter J. Frischmann is an Associate Professor of Accounting. He is a Certified Public Accountant and received his B.S. in Accounting from Utica College of Syracuse University; his M.B.A. from the University of Michigan; and his Ph.D. from Arizona State University. Before pursuing his academic career, Frischmann was a manager with Ernst and Young in Phoenix, Ariz. Frischmann’s research focuses on taxation and the interaction of taxation and financial reporting. He has been named as an outstanding faculty member by Business Week’s Best Business Schools and has published in such journals as the Journal of Accounting and Economics, the Journal of the American Taxation Association and National Tax Journal. His work has been honored by the Financial Accounting Standards Board as research addressing issues relevant to the FASB and containing conclusions likely to benefit their decision-making process.

Aimee Huff

Aimee Huff joins the College of Business as an Assistant Professor of Marketing. Huff recently completed her Ph.D. at the Ivey Business School at the University of Western Ontario, Canada. She earned her M.B.S. in Food Marketing at the University College Cork, Ireland, and her B.Com. at the University of Guelph, Canada. Huff’s research explores the intersection of consumer experience, consumer culture and family in contexts that involve complex, emotional decisions. Her dissertation examined the experiences of new mothers choosing care for their infants, the experiences of elderly individuals and their adult children choosing elder care facilities, and the experiences of adult males purchasing commercial intimacy. Huff’s research has been published in Journal of Consumer Affairs, and presented at multiple conferences of Association for Consumer Research and Consumer Culture Theory. Huff will teach Marketing Management in the MBA program, and Advertising Management at the undergraduate level.

Anthony Klotz

Anthony Klotz, Assistant Professor of Management, joined Oregon State’s College of Business in June 2013. He completed his Ph.D. at the University of Oklahoma in 2013 and earned his MBA from Creighton University in 2009. Klotz’s primary research areas are in organizational citizenship behavior, counterproductive work behavior, team conflict and employee resignations. His research has been published in the Academy of Management Review, the Journal of Applied Psychology, the Journal of Management, and the Journal of Organizational Behavior. Prior to pursuing his Ph.D., Klotz
spent five years in managerial roles with General Mills at the company’s Albuquerque, N.M., Lodi, Calif., and Midland, Ontario, manufacturing facilities, and operated a small business for three years.

Guanyi Lu

Guanyi Lu is an Assistant Professor of Global Business Analysis. He earned his B.S. in Management Information Systems from the Nanjing University of Aeronautics and Astronautics, his M.S. in Business and his Ph.D. at the Mays Business School at Texas A&M University. In 2012 he received the Outstanding Teaching Award at Mays Business School. Prior to his studies, he served in a leading Asia-based original equipment manufacturer (OEM) as an assistant supply chain manager for three years. His current research interests focus on the antecedents and consequences of supply chain security programs. To help managers realize the value of security oriented practices and strategies, he employs both qualitative and quantitative methods to derive in-depth insights. He is also interested in behavioral operations management, supply chain integration, and information and communication technology.

Charles Murnieks

Charles Murnieks is an Assistant Professor of Strategy and Entrepreneurship in the College of Business at Oregon State University. He received his Ph.D. in Strategy and Entrepreneurship from the University of Colorado, Boulder in 2007. He also received a B.S. in Civil Engineering from the U.S. Air Force Academy and an MBA from the University of California, Los Angeles. He has served as an officer in the U.S. Air Force and as an instructor at the Air Force Academy in Colorado Springs, CO. His research interests surround entrepreneurs and their passion, emotions and cognitive processes with respect to opportunity discovery and evaluation.

Bonnie Scranton
Bonnie Scranton will join the School of Design and Human Environment faculty in the COB as a tenure-track Instructor of Design Foundations. She is currently working on contract for Harvard Business Publishing as an information designer. Her previous work experience includes Graphics Director and Senior Art Director for Newsweek Magazine, Designer for Edward Tufte’s Graphics Press, Assistant Art Director for Richard Saul Wurman’s The Understanding Business. Bonnie has taught for three years as a tenure-track Assistant Professor at the University of Nevada Reno, and as a visiting instructor at Yale University and the University of Washington. She has an MFA in Graphic Design from Yale University and a BFA in Graphic Design from the University of Washington. Her research interests include Information Design and Data Visualization. http://www.bonniescranton.com/.

**College of Earth, Ocean and Atmospheric Sciences**

**Kim Bernard**

Kim Bernard is a new Assistant Professor in high-latitude oceanography. Bernard received her PhD in 2007 from Rhodes University, South Africa, focusing on Southern Ocean zooplankton ecology. Following a three-year stint developing South Africa’s first official coastal International Long-Term Ecological Research (I-LTER) site, she joined the Palmer Antarctica LTER working as a Post-Doctoral Research Associate at the Virginia Institute of Marine Science (VIMS). Bernard’s research currently focuses on zooplankton community dynamics, trophic interactions at various levels of the food web, and the physical and biological drivers that affect these.

**Anders Carlson**

Anders Carlson of the University of Wisconsin, Madison, will be an Associate Professor in high-latitude processes, especially in the area of paleoclimate. Anders has made important contributions to the reconstruction of the history of the Laurentide and Greenland ice sheets with implications for possible future sea level rise. He has also worked on freshwater fluxes and ocean conditions in the North Atlantic. Anders received his PhD in 2006 from OSU, working with Peter Clark.
**Louise Copeman**

Louise Copeman is a new Assistant Professor joining the Ocean Ecology and Biogeochemistry group. Louise’s research has focused on the analyses of lipid classes and specific lipid biomarkers in relation to marine tropic ecology, fisheries and aquaculture nutrition. During her postdoctoral research with the Cooperative Institute for Marine Resource Studies at the Hatfield Marine Sciences Center (HMSC, OSU) in Newport Oregon she developed a Marine Lipids Laboratory. She will maintain her research program at the HMSC and develop a growing research presence with colleagues in Corvallis. Louise received her PhD in Marine Ecology in 2011 from Memorial University’s Ocean Sciences Center located outside of St. John’s, Newfoundland, Canada.

**Robert Cowen**

Robert K. Cowen, a marine biologist and administrator from Miami, Fla., has been named director of Oregon State University’s Hatfield Marine Science Center in Newport. Cowen holds the Robert C. Maytag Chair of Ichthyology at the University of Miami’s Rosenstiel School of Marine and Atmospheric Science, where he has served on the faculty since 1998. He previously was on the faculty of State University of New York at Stony Brook and conducted research as a doctoral student at Scripps Institution of Oceanography in San Diego, Calif. Cowen’s studies range broadly, encompassing such issues as coastal fish ecology, fishery oceanography, larval transport and connectivity of marine organism populations. He has served on numerous national committees and panels, and is affiliated with the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO), a multi-institutional research effort led by OSU. He also has served as associate dean for research at the Rosenstiel School of Marine and Atmospheric Science.

**Byron Crump**

Byron Crump of the Horn Point Laboratory of the University of Maryland Center for Environmental Science will be an Associate Professor in microbial ecology. He has broad interests that span freshwater and marine systems, as well as tropical and polar systems. He received his PhD from the University of Washington in 1999.
Tony Grubesic

Tony Grubesic of Drexel University will be Associate Professor in geospatial intelligence and planning, leading this new effort in the College. Tony received his PhD in Geography from Ohio State University in 2001. Interests include spatial epidemiology and urban health, transportation infrastructure, and technology policy.

Jenny Hutchings

Jenny Hutchings of the International Arctic Research Center at University of Alaska, Fairbanks, is a new Assistant Professor in high-latitude processes. Jenny is a leader in the field of sea-ice dynamics and kinematics. She received her PhD in 2000 from the University College, London.

Eric Kirby

Eric Kirby of Pennsylvania State University is a new Associate Professor in Earthquake Geology and Active Tectonics, the position, known as the Yeats Chair. Eric received his PhD from MIT in 2001, and his interests span a broad range from the interaction of tectonic and surficial processes during the evolution of active mountain ranges to the rate, motion, and mechanics of active faulting. He does field work in areas ranging from Tibet to California, and he has funding from NSF, NASA, and USGS, among other agencies.
Justin Wettstein

Justin Wettstein of the University of Bergen and NCAR will be an Assistant Professor in regional-scale climate modeling. Justin received his PhD from the University of Washington in 2007. His interests range from theory-based studies of observations and large-scale circulation models, to the sensitivity of the climate system to large-scale forcing, to climate modeling on a range of spatial scales. In addition to PhD and MS degrees in atmospheric sciences, he has a Master’s in Public Administration, where he studied the incorporation of climate variability into economic models.

COLLEGE OF EDUCATION

Lucy Arellano

Lucy Arellano conducts research on persistence, retention, and degree completion for emerging majority students. Concepts of diversity, campus climates, campus engagement, and student co-curricular involvement ground her work. Furthermore, she examines campus environments and how institutional agency influences student success. Her current and future work also investigates student mobility across multiple colleges/universities and varying institutional types. Prior to her arrival at Oregon State, she served as the Research and Assessment Specialist in the Office of the Vice Chancellor for Students at the University of Hawai‘i at Mānoa. She also taught in the Higher Education Administration and Policy Program at the University of California, Riverside. Dr. Arellano earned her Ph.D. from the Higher Education and Organizational Change division at UCLA and her M.A. and B.A. from the University of Michigan.

Julie Gess-Newsome

Julie Gess-Newsome has devoted her academic career to the preparation and support of teachers and received recognition from the National Association of Science Teachers, the Association for Science Teacher Education, and the American Education Research Association for her work. Her work has attracted more than $14 million in state and federal research and education grants. With support from the National Science Foundation, Gess-Newsome is leading an international research effort to better define and improve science teacher knowledge and classroom practice. Gess-Newsome, a professor of science
education, was most recently dean of the Graduate School of Education at Willamette University in Salem, Ore. Prior to her tenure at Willamette, Gess-Newsome served as the J. Lawrence Walkup Distinguished Professor of Science Education at Northern Arizona University’s Center for Science Teaching and Learning for more than a decade. She is a member of the board of the Biological Sciences Curriculum Study and a past president of the Association for Science Teacher Education. Gess-Newsome, who will begin her duties on August 2, will oversee the Human Health and Wellness division at OSU-Cascades as it expands its degree offerings, increases enrollment, and builds a regional reputation for the work of its faculty, students and graduates.

Kok-Mun Ng
Kok-Mun Ng joins the faculty of the College of Education at OSU as Professor of Counselor Education. Prior to joining OSU, Kok-Mun had taught for 11 years in the Department of Counseling at UNC Charlotte. His counseling training includes a master’s degree in community counseling from the University of North Texas and a PhD in counseling from Texas A&M University-Commerce. He has a BS in applied geology from the University of Malaya in Kuala Lumpur, Malaysia. Kok-Mun’s research interests include multicultural and cross-cultural issues in counseling; attachment theory; emotional intelligence and well-being; post-modern counseling approaches; internationalization of counseling training and practice; and couples, marriage, and family issues. Kok-Mun has published many articles in national and international journals. He is actively engaged in community and professional services domestically and internationally.

COLLEGE OF ENGINEERING

Líney Árnadóttir
Ph.D., Chemical Engineering, University of Washington, 2007
Líney Árnadóttir uniquely combines theoretical chemistry and experimental surface science to study reactions on catalysts for renewable energy applications. Specifically, she examines the role of surface defects and electronic structure in activating water dissociation reactions on novel materials such as nanodimensional noble metal clusters and metal oxides. Understanding how the water dissociation reaction energy correlates to surface properties will lead to more efficient and sustainable catalytic processes. Árnadóttir begins her appointment at Oregon State at an advantaged position with a grant from the American Chemical Society-Petroleum Research Fund, a donated X-ray photoelectron spectroscopy system, and a funded instrumental and computation user proposal at Pacific Northwest National Laboratory.

David Blunck
David Blunck’s primary research interest is assessing technical challenges and developing scientific investigations to improve fundamental understanding of combustion technologies, including gas turbine combustors, micro-combustors, and catalytic combustion. Prior to his appointment at Oregon State, he was the leading fundamental combustion researcher related to deflagration within gas turbine combustors for the Combustion Branch at Air Force Research Laboratory (AFRL). His research there led to scientific breakthroughs in the areas of reacting boundary layers, trapped vortex combustors, and pollutant formation from burning alternative fuels.

Daniel Borello

Ph.D., Civil Engineering, University of Illinois at Urbana-Champaign, 2013

Dr. Borello’s research combines experimental testing and numerical simulations to study the behavior of large structures, particularly steel buildings. He is interested in sustainable infrastructure and mitigating the impact of earthquakes through innovative, replaceable structural systems including steel plate shear walls, self-centering systems, and supplemental energy dissipation devices. By facilitating economical yet resilient materials and systems, Borello aims to enhance the life cycle and safety of large structures while improving access to such structures in developing countries. His passion for teaching steel design and structural engineering placed him in the top 10 percent of instructors while teaching at the University of Illinois at Urbana-Champaign.

Shane Brown

Ph.D., Civil Engineering, Oregon State University, 2005

Dr. Brown’s research interests are in cognition and learning, with a particular emphasis on conceptual change and situated cognition. His conceptual change research examines why concepts are harder to learn than others and how to develop environments that facilitate understanding, particularly within transportation and solid and fluid mechanics. His situated cognition research explores differences in ways of knowing and using engineering concepts between students, faculty, and practitioners. His efforts to develop and assess research-based educational interventions aim to enhance student success and improve how they assimilate complex engineering concepts. Brown has more than five years of professional engineering experience. He has been recognized for both his research and teaching expertise, with a National Science Foundation CAREER Award and the prestigious ASCE ExCEED National New Faculty Excellence in Teaching Award.
Matthew Campbell

Professor, Mechanical, Industrial and Manufacturing Engineering
Ph.D., Mechanical Engineering, Carnegie Mellon University, 2000

Campbell’s research in design automation uniquely combines artificial intelligence, graph theory, and computational geometry to develop software that automates difficult engineering design decisions. He also seeks to understand how well computers can design or create artifacts independently. By diverting the more tedious fabrication processes to a computer, designers can streamline manufacturing planning, increase productivity, and focus on the creative and challenging aspects of system behaviors and performance. With 13 years at the University of Texas at Austin, Campbell is considered one of the leaders of computational design synthesis, an area within design automation that earned him an NSF CAREER Award.

Larry Cheng

Ph.D., Electrical Engineering, University of Michigan at Ann Arbor, 2008.

Larry Cheng’s research exploits the unique physical properties associated with the nanoscale to investigate novel materials and develop integrated medical devices for diagnostics. In one recent project, Cheng developed biosensors for virus and pathogens detection and is progressing to find new applications for early cancer detection. The project led to three journal publications with another two in preparation, two patent disclosures, and more than five conference presentations. By exploring the intersection between nanomaterials and microfluidics, his work is key to developing sensitive molecular detection platforms that could drastically improve biomedical research and diagnostic technology.

Daniel Dig

Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 2007.

Danny Dig's software engineering research is focused on interactive program transformations that enable programmers to interactively, safely, and more economically update large programs. His research is driven by two key questions: 1) what software changes occur most often in practice and 2) how can those changes be automated to improve programmer productivity, software quality, and development costs. His work has opened the area of interactive refactoring for parallelism and is contributing to software evolution, testing, and end-user programming. The co-author of more than 35 journal and conference papers, Dig has collaborated with industry partners that include IBM, Intel, Microsoft, Boeing, Oracle, and others. He released the world’s
first open-source refactoring tool, and some of the techniques he developed are shipping with the official release of the popular ECLIPSE and NETBEANS development environments and are used by millions of Java programmers.

**Bryony DuPont**

Assistant Professor, Mechanical, Industrial and Manufacturing Engineering

Ph.D., Mechanical Engineering, Carnegie Mellon University, 2013

Bryony DuPont’s primary research is in mechanical design, where she explores methods to optimize novel sustainable energy systems. She is particularly interested in creating computational optimization algorithms for wind farms, wave energy conversion systems, and hybrid energy systems to widen their applicability and improve their performance and design. Her work in wind farm micrositing and turbine geometry selection was the first to realistically model installation costs and the effects of site-specific wind and atmospheric conditions on prospective wind farms.

**Daniel Gillins**

Ph.D., Civil Engineering, University of Utah, 2012

Dr. Gillins’s current areas of research include geospatial data management, land tenure systems, boundary surveys and law, and geologic hazard mapping. Recently, he has developed new liquefaction hazard mapping techniques to estimate the probability and uncertainty of liquefaction-induced ground failure under funding provided by the USGS National Earthquake Hazard Reduction Program. He was also instrumental in mapping site-specific strong ground motions during an assessment of seismic vulnerability of the University of Utah buildings, a project funded by FEMA and the Utah Department of Homeland Security. As a result of his research accomplishments, he received the Wayne Brown Fellowship, the largest fellowship bestowed by the College of Engineering at the University of Utah. In addition, Gillins has more than ten years of practical experience working in cadastral surveying where he led numerous large-scale and complex geodetic control and land-line survey projects for the Bureau of Land Management and the U.S. Forest Service.

**David Hendrix**

Ph.D., Physics, University of California at Berkeley, 2007.

David Hendrix brings together computational biology, bioinformatics, and statistical physics to study the different facets of regulatory programming in developmental biology, including enhancers, core promoters, microRNAs, and other non-coding RNAs. Hendrix’s work at the University of California at
Berkeley led to the discovery of novel regulatory regions called “shadow enhancers” and a new class of RNA called “moRs,” among other findings. His work at MIT focused on novel interactions between RNA and chromatin, including a model whereby small RNAs direct the activity of Polycomb to transcriptionally silence genes in human embryonic stem cells. Hendrix has four publications in Faculty of 1000 Biology, which identifies research trends and highly regarded papers as recommended by more than 2,300 leading researchers in the biological sciences.

Sal Hernández
Ph.D., Transportation Infrastructure Systems Engineering, Purdue University, 2010

Hernández’s research and teaching interests encompass transportation and infrastructure systems, including large-scale freight networks. Specifically, he uses mathematical and econometric modeling to understand the safety, security, environmental impacts, and corresponding policy implications within the transportation sector. He is developing novel modeling and assessment tools that will integrate traffic safety early in the transportation planning process to mitigate crashes and reduce infrastructure costs. In addition to his research efforts, Hernández has served in leadership positions for the Institute of Transportation Engineers (ITE), Institute for Operations Research and Management Science (INFORMS), and the Society of Hispanic Professional Engineers (SHPE). At the University of Texas at El Paso, he was the co-principal investigator for a multi-million dollar, USDA-funded research partnership aimed at increasing opportunities for Hispanic students pursuing careers in sustainable energy.

Geoffrey Hollinger
Assistant Professor, Mechanical, Industrial and Manufacturing Engineering
Ph.D., Robotics, Carnegie Mellon University, 2010

Hollinger focuses on decision-making problems and learning techniques for autonomous robots. His research enables robotic vehicles to optimize sensing actions for problems such as ocean monitoring, aerial surveillance, precision agriculture, and facility inspection. In particular, his work in machine learning for inspection and classification with autonomous underwater vehicles explores sensor networks to improve communication in underwater environments that will facilitate monitoring of phenomena such as algal blooms and seismic activity. He comes to Oregon State with an NSF National Robotics Initiative grant that supports his research in collaborative planning for human-robot science teams.

Rajiv Malhotra
Malhotra specializes in the discovery, development, and integration of flexible multi-material and energy-efficient manufacturing processes. His recent work focuses on a completely die-less sheet metal forming process called Double Sided Incremental Forming, which allows greater process flexibility at reduced cost for rapid fabrication of low volume sheet metal parts. Malhotra’s research is supported by the NSF and DOE, among others, and he holds patents for his breakthrough work in Incremental Forming. By creating novel approaches towards manufacturing processes through a combination of basic physics as well as fundamental experimental and computational work – his research will reduce the time and expense inherent in conventional manufacturing and enable low-cost commercialization of new technologies.

Devlin Montfort
Ph.D., Civil Engineering, Washington State University, 2011

Devlin Montfort conducts research in engineering education, focusing on conceptual change and understanding, personal epistemology, and adoption of innovations. His work examines the ways in which peoples’ assumptions, previous knowledge, and personal epistemologies influence their learning. Understanding how people incorporate new ideas and ways of thinking is critical to helping students develop into innovative, highly skilled, and well-rounded engineers and citizens. Montfort is the author of dozens of refereed journal articles, book chapters, and conference proceedings. He is co-principal investigator on a National Science Foundation-supported project that is developing research-based curricular materials to improve conceptual understanding in engineering education.

Amir Nayyeri
Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 2012.

Amir Nayyeri studies theoretical computer science – including design and analysis of algorithms and their applications. His theory research includes combinatorial optimization in computational topology and geometry, specifically optimization problems on surface-embedded graphs, geometric surfaces, and simplicial complexes. One problem he examines is defining and computing distance measures between curves lying on surfaces, which can be useful in matching coastlines over time or comparing melodies in music information retrieval, among other applications. Collaborating with researchers from the Toyota Technological Institute in Chicago, Nayyeri developed the first O(log n)-approximation algorithm to measure the similarity between curves on surfaces.
Tyler Radniecki

Ph.D., Chemical and Environmental Engineering, Yale University, 2005

Tyler Radniecki uses molecular techniques in combination with traditional microbial and engineering methods to study biological processes in sustainable wastewater treatment systems and reuse applications. He examines 1) the fate of nanoparticles in wastewater treatment plants and their toxicity to beneficial wastewater bacteria, 2) the propagation of antibiotic resistance in bacteria exposed to pharmaceutical-containing wastewater effluent used for irrigation, and 3) how wastewater treatment plants can become net energy producers through the anaerobic transformation of fats, oils, and greases into methane. These studies will create a more robust, safer, and sustainable form of wastewater treatment that will ensure the production of safe and clean water for reuse purposes, and provide renewable energy solutions. Radniecki begins his appointment at Oregon State University having already secured grants from the National Science Foundation and the Department of Agriculture to pursue his research interests.

Michael Rosulek

Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 2009.

Mike Rosulek’s research interests include cryptography, secure computation, computing on encrypted data, computational complexity, algorithms, and effective use of visualizations in computer science education. Much of his work has focused on a problem domain in cryptography known as secure computation, or how to perform arbitrary computations without seeing the data and compromising privacy. Existing approaches use low-level programming language to express the desired computation as code before iteratively evaluating that code. Rosulek is investigating new paradigms to construct efficient and secure protocols that are not based on source-code representation, thereby making secure computation more practical and reducing computational overhead while also maintaining privacy. He brings a National Science Foundation CAREER Award to Oregon State to further his research in secure computation.

Krystina Tack
Krystina Tack’s research focuses on radiobiological model correlation with patient outcomes, Permanent Prostate Brachytherapy, and prostate cancer clinical trials. In 2012, she joined Oregon State University as the director of the graduate program in medical physics and has since quadrupled enrollment and streamlined operations between the joint program between two of Oregon’s largest teaching institutions – Oregon State University and the Oregon Health & Science University. Previously she served as the director of medical physics at the Chicago Prostate Center, which is an LDR prostate brachytherapy facility that performs nearly 1,000 surgical seed implants per year. There, she was active in research on seed types, implant techniques, diagnostic tools, dosimetry, and planning. A native Oregonian, Tack directs a local prostate cancer support group for patients and their families.

Arash Termehchy

Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 2012.

Arash Termehchy’s research interest focuses on data and information management, including large-scale data management, data mining, and information retrieval. In a recent project, he demonstrated that current data exploration methods inadequately satisfy users’ information needs, as they over-rely on the representational details of the data set rather than the information the data set contains. He introduced the concept of design independence, which specifies that a query interface must return the same results for a query over a data set, regardless how the query and data set are represented. He has developed novel and design-independent query interfaces, and, using real-world data sets, showed these to be more effective than other similar methods. By creating large-scale systems with principled foundations, Termehchy’s research helps users of data-intensive applications more easily explore and better understand information. Termehchy has received several honors for his work, including ICDE Best Student Paper Award in 2011 and the Yahoo! Key Scientific Challenges Award in 2011.

Julie Tucker

Assistant Professor, Mechanical, Industrial and Manufacturing Engineering

Ph.D., Nuclear Engineering & Engineering Physics, University of Wisconsin – Madison, 2008

Julie Tucker’s research combines experimental and computational approaches to understand materials degradation and development for nuclear systems. One of her recent projects examines transformations and other degradation mechanisms in Fe- and Ni-based alloys, which are essential in power production industries such
as nuclear, coal, natural gas, biomass, and concentrated solar. Predicting materials degradation in base-load power plants is critical for operating safely, minimizing costly inspections, ensuring plant-life extensions, and avoiding unplanned outages. As a former principal scientist at the Knolls Atomic Power Laboratory, Tucker will be spearheading a new program in integrated computational materials engineering (ICME), an emerging field that combines modeling techniques at various length scales to accelerate the development of new materials.

**Travis Walker**

Ph.D., Chemical Engineering, Stanford University, 2013

A vast number of manufacturing practices and biological materials involve highly structured and rheologically complex multi-phase systems. Travis Walker combines experiment and theory to understand the flow physics of miscible, often non-Newtonian, liquids and complex fluids. Two examples of problems he investigates are exploring an expanded range of fluid mechanical operating conditions and fluid properties to uncover new morphological regimes, and examining how rheological changes in mucus affect cilia transport in patients with cystic fibrosis. Walker joins Oregon State following a productive doctoral program at Stanford that included five publications, 16 presentations, teaching experience, and multiple national awards.

**Eric Walkingshaw**

Ph.D., Computer Science, Oregon State University, 2013.

Eric Walkingshaw specializes in programming language design and implementation. He studies formal languages, type systems, functional programming, visual languages, and designing languages for domain experts who are not professional programmers. His research is based on the principle that clear and expressive languages are essential to understanding difficult problems. His most active research area is formal languages that deal with variability in software, such as software product lines and generative programming. In that realm, he co-created calculus choice, a formal language for representing variation in software and other structured artifacts that can be applied to feature modeling, change pattern detection, property preservation, and the development of variation-aware IDEs. Walkingshaw received the Best Paper Award at the 2009 IFIP Working Conference for his work in domain-specific languages and joins Oregon State as an ARCS Scholar and author of numerous publications, including three journal articles, 13 peer-reviewed conference and workshop papers, and two peer-reviewed book chapters.
Haori Yang

Ph.D., Nuclear Engineering and Radiological Sciences, University of Michigan at Ann Arbor, 2009

Haori Yang’s research interests include non-destructive interrogation techniques, development of innovative radiation sensors, and general applications of nuclear engineering. He is developing an interrogation technique based on photon-induced fission to measure plutonium content in spent nuclear fuel. In addition, Yang is investigating low-cost, high-performance radiation detection with nanostructured radiation sensors and spintronics devices as alternatives to traditional detectors. The revolutionary improvement of radiation detection has significant impact in areas beyond nuclear material detection, including medical imaging, high-energy physics, and nondestructive testing. Prior to his appointment at Oregon State, Yang was a research scientist at Canberra Industries where he was co-inventor of an innovative neutron sensor based on LiI scintillator and Si diodes.

COLLEGE OF FORESTRY

Sara Robinson

Sara Robinson is an artist and assistant professor of the anatomy of renewable materials in Wood Science & Engineering. She studied woodworking during her undergraduate years, wood science for her masters and PhD, and now spends her time turning wood crazy colors with fungus. Robinson travels abroad throughout the year, both for international art shows and to collect new fungi in exotic locales. She is also an avid woodturner.

COLLEGE OF LIBERAL ARTS

Roland Eisenhuth
Roland Eisenhuth is joining the School of Public Policy at OSU as Assistant Professor of Economics. Roland completed his undergraduate studies in Economics at the University of Bonn in Germany in 2008 before he continued his education at Northwestern University from which he graduated with a Ph.D. in Economics in 2013. Roland’s research interests lie at the intersection of Psychology and Economic Theory.

Drew Gerkey

Drew Gerkey is an ecological anthropologist whose research focuses on the emergence and stability of cooperation and collective action. He has conducted research primarily with communities of salmon fishers and reindeer herders on the Kamchatka Peninsula in Northeast Siberia, and he has recently initiated several research projects across the Pacific in Alaska. His research combines qualitative and quantitative ethnographic methods to examine subsistence activities, market expansion, natural resource use, social networks, institutions, and social movements. Drew completed a Ph.D. in anthropology at Rutgers University in 2010. Prior to joining OSU, he completed postdoctoral fellowships at the University of Maryland’s National Socio-Environmental Synthesis Center (SESYNC) and the University of Washington’s Department of Anthropology. In his spare time, Drew enjoys playing soccer and basketball, hiking, canoeing, and photography.

Colin Hesse

Colin Hesse, Assistant Professor, joined the Department of Speech Communication at Oregon State University in September 2013. Colin completed his Ph.D. At Arizona State University in 2009, and spent the last four years teaching at the University of Missouri. His research focuses on the links between interpersonal communication and both psychological and physiological health. Specific communication processes include the communication of affection, jealousy, and family communication. His dissertation focused on the relational impact of alexithymia, examining differences in perceptions of attraction in an initial encounter. Colin will teach undergraduate and graduate courses in health communication, interpersonal communication, communication theory, and family communication. He will also oversee the introductory interpersonal communication course for the department.
Tim Jensen

Tim Jensen, Assistant Professor of English, joins the faculty of the School of Writing, Literature, and Film this fall as our Director of Writing. Dr. Jensen completed his Ph.D. at Ohio State University (BA Miami University of Ohio), where he received The Ohio State University’s highest recognition of exceptional teaching by graduate instructors and won several awards for digital media design in English instruction and first-year writing. His scholarship focuses on the rhetoric of social movements and emotional appeals, including environmental rhetorics. In 2013-14, he will be teaching graduate and undergraduate courses in current composition theory and practice in the teaching of writing.

Nana Osei-Kofi

Nana Osei-Kofi is Director of the Difference, Power, & Discrimination Program and Associate Professor of Women, Gender, & Sexuality Studies. Prior to coming to OSU, Osei-Kofi was Associate Professor and Director of the Social Justice Studies Certificate Program in the School of Education at Iowa State University. Her scholarship focuses on critical and feminist social theories and pedagogies, the politics of American higher education, and visual cultural studies/arts-based inquiry. Osei-Kofi holds an M.A. in Applied Women’s Studies and Ph.D. in Education from Claremont Graduate University.

Ronald Mize

Ronald L. Mize is Director of the Center for Latino/Latina Studies and Engagement (CL@SE) and Associate Professor in the School of Language, Culture, and Society. He previously taught at Humboldt State University, Cornell University, University of Saint Francis, California State University San Marcos, University of California San Diego, Southwestern College, and University of Wisconsin Rock County. He earned his Ph.D. in Sociology and Rural Sociology at University of Wisconsin Madison. He is the co-author of Consuming Mexican Labor: From the Bracero Program to NAFTA (2010, University of Toronto Press), Latino Immigrants in the United States (2012, Polity Press), and over 40 scholarly publications. His research focuses on the historical origins of racial and class oppression in the lives of Mexicanos/Mexicanas residing in the United States and the degree to which contemporary immigrant labor is informed by the political economy and cultural incorporation of Latinos/Latinas in the United States.
Adam Schwartz

Adam Schwartz (Ph.D., University of Arizona) joins the faculty as an assistant professor of Spanish in the Department of Foreign Languages and Literatures. His research specializes in Spanish language education in the U.S. and U.S.-Mexico borderlands, and constructions of culture, borders, foreignness, race and privilege both in and outside textbook-centered classrooms. He has taught Spanish at the middle school, high school and university levels. Adam has also worked with pre-service teachers and undergraduates from across all disciplines as an instructor of educational foundations courses. Prior to his arrival at OSU, Adam was an assistant professor of Foreign Language/ESOL Education in the Department of Secondary Education at the University of South Florida (USF). In addition, Adam held a postdoctoral fellowship in the Department of Modern Languages and Literature at the University of Texas-Pan American, serving as an assistant director and educational consultant for the Medical Spanish for Heritage Learners program.

COLLEGE OF PHARMACY

Adriane Irwin

Adriane Irwin, MS, PharmD joins the Department of Pharmacy Practice as a Clinical Assistant Professor after completing her Ambulatory Care fellowship with Kaiser Permanente in Colorado. Previously, she received her Bachelor’s degree from Oregon State University, a Masters degree (Pharmaceutical Sciences) and PharmD from the University of New Mexico, and completed a general residency at The Ohio State University. Adriane will have direct patient care activities in ambulatory care with the Benton County Community Health Centers and teach both didactically and in experiential rotations in the professional program. She served as the American Pharmacists Association-Academy of Student Pharmacists National President and has remained very involved professionally. Her current scholarship interests are broad and revolve around evaluation of patient-related health outcomes.

Benjamin Philmus
Benjamin (BJ) Philmus received his Ph.D from the University of Hawai‘I at Manoa and conducted postdoctoral research at Texas A&M University. His research is centered on the discovery of natural products for the treatment of bacterial infections and natural products biosynthesis. He is interested in finding new drug leads that will target pathways previously ignored and is currently focusing on the trans-translation pathway in bacteria which is important for virulence in Mycobacterium tuberculosis and Helicobacter pylori. He joins an active group of faculty in drug discovery within the Department of Pharmaceutical Sciences. Having just moved to Corvallis he is enjoying the summer weather for hiking and biking and eagerly awaits the arrival of winter for the experience of snow shoeing.

COLLEGE OF PUBLIC HEALTH AND HUMAN SCIENCES

Sangeeta Ahluwalia

Assistant Professor Sangeeta Ahluwalia received her BA at UC Berkeley, her MPH at UCLA, and her MA and PhD at Berkeley. She joins the Health Management and Policy faculty. Dr. Ahluwalia’s research examines barriers and facilitators to palliative care for patients with serious progressive illness, with the goal of improving integration of palliative services into routine care. Her most recent work has centered on identifying opportunities for improving patient-provider communication regarding advance care planning in heart failure. Dr. Ahluwalia has additional expertise in implementation science, and as a National Palliative Care Research Center Career Development Awardee, she is studying the implementation and evaluation of an intervention to improve routine conduct of family meetings in the ICU. Dr. Ahluwalia’s primary policy interests are in understanding the role of interest groups and framing effects on health policy implementation and adoption.

John Geldhof

John Geldhof, Assistant Professor of Human Development and Family Sciences, received his Ph.D. in Developmental and Quantitative Psychology from the University of Kansas. He then completed a postdoctoral fellowship in the Institute for Applied Research in Youth Development at Tufts University. His current research focus is the development of self-regulation across the life span. He is especially interested in the relationship between intentional self-regulation and positive development, and his long-term
research goal is to couple a nuanced understanding of self-regulation with applied interventions. He is also interested in quantitative methodology, both as a research domain and as a tool for optimizing empirical research on self-regulation. As a substantive research domain, his quantitative research focuses on expanding knowledge of latent variable and multilevel models in novel ways.

**Bridget Hatfield**

Bridget Hatfield, Assistant Professor of Human Development and Family Sciences comes to Oregon State from University of Virginia, where she was a postdoctoral research associate at the Center for Advanced Study of Teaching and Learning. Bridget is interested in physiological and biological indicators of stress and emotion regulation in early childhood; influences of classroom quality and the teacher-child relationship. She received her B.A. in Psychology from Transylvania University, her M.S. in Child and Family Studies from the University of Tennessee and her PhD in Human Development and Family Studies from the University of North Carolina Greensborough.

**Perry Hystad**

Perry Hystad, Assistant Professor in Environmental and Occupational Health/Safety. BS, MS University of Victoria; PhD in Epidemiology, School of Population and Public Health, University of British Columbia. Research interests: environmental epidemiology, spatial exposure assessment, air pollution, interactions between social and environmental health determinants, and global health and climate change. His most recent research used a Canadian population case-control study to investigate the spatial epidemiology of lung cancer in relationship to air pollution and the social context of neighborhoods, which represents the largest such study to date. He also has conducted a number of health studies on a diverse range of social and environmental factors associated with place, including radon, greenness, walkability, community belonging, and neighborhood deprivation.

**Gloria Krahn**

Gloria Krahn is the new *Barbara Emily Knudson Chair in Family Policy, Director of External Relations*. Dr. Krahn comes to the CPHHS from the Centers for Disease and Control and Prevention, where she served as the director of the Division of Human Development and Disability in the National Center for Birth Defects and Developmental Disabilities. She previously held positions as a research associate at the University of Pittsburgh, and several positions at the Oregon Health & Science University in Portland including professor of pediatrics in Public Health and Preventive Medicine, director of the Oregon Institute on Disability &
Development/University Center of Excellence in Developmental Disabilities, director of Rehabilitations and Research Center on Health of People with Long Term Disabilities, and associate director of the Child Development and Rehabilitation Center. She earned a master’s degree and a PhD in psychology from the University of Manitoba, Canada, an MPH from the University of California, Berkeley, and completed a postdoctoral residency at the Oregon Health Sciences University. Her work is grounded in intellectual and developmental disabilities, and she has found that health disparities provide a valuable lens for a public health approach to disabilities.

Robert Stawski

Dr. Stawski’s research focuses on links between stressful experiences, health, well-being and cognition with three main foci: understanding the psychological and biological pathways linking stressful experiences, health, well-being and cognition; how stressful experiences influence health, well-being, and cognition in the contexts of individual development (aging), family relationships, and the work/family interface; and the use of integrated longitudinal and intensive repeated measures (e.g., measurement burst) designs for examining the proximal, cumulative, and prospective effects of stressful experiences on health, well-being and cognition. Rob earned his PhD at Syracuse University. He joins the Human Development and Family Sciences faculty as an Associate Professor.

College of Science

Patrick De Leenheer

Patrick De Leenheer joined the OSU Departments of Mathematics and Zoology Department in September 2013 as a full professor hired through the Biological Informatics and Genomics cluster hiring initiative. Patrick was born in Belgium and earned an MS degree in electro-mechanical engineering in 1995 and a PhD in Applied Sciences in 2000 from Ghent University. His research interests are in mathematical biology, differential equations, and control theory. He has been a postdoctoral research fellow of the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS) in 2003-04, and held a professorial faculty appointment at the University of Florida since 2004.
Michelle Dolgos

Michelle Dolgos, Assistant Professor, joined the Department of Chemistry in September 2013. She completed her PhD at The Ohio State University in 2009 and was a post-doctoral researcher at the University of Liverpool from 2009-2012 and in the Center for Sustainable Materials at Oregon State from 2012-2013. Her research interests lie in the synthesis and characterization of new, improved materials for energy applications as well as for electronic applications, with a focus on using environmentally benign materials with low toxicity.

Matt Graham

Matt Graham is a new Assistant Professor of Physics who joined the Department in August. He received a B.Sc. degree in Chemical Physics from University of Toronto and his Ph.D. from University of California, Berkeley. He was then named a Kavli Fellow at the Kavli Institute at Cornell for Nanoscale Science where he completed his postdoctoral work studying how electrons lose their energy in a 2D material called graphene. He developed new techniques enabling him to resolve electrons in these materials on the timescales of femtoseconds (10-15 s) with sub-micron (<10-6 m) spatial resolution. He is continuing a similar research direction at OSU by building the Micro-Femto Energetics (mfE) Lab in Weniger Hall. In the mfE Lab, optical and photocurrent signals will be time-resolved to optimize the energy production of emerging materials.

Dipankar Koley
Dr. Dipankar Koley joined the department of chemistry as a new assistant professor in September 2013. Dr. Koley obtained his PhD in chemistry from the University of Texas at Austin in 2011 and was a post-doctoral fellow at the University of Michigan until the summer of 2013. His research interest lies at the intersection of electrochemistry, biology and bioengineering. In OSU, Dr. Koley and his team will be working on developing new electrochemical techniques such as Scanning Electrochemical Microscopy (SECM) to understand the microbial metabolic exchange in biofilm at high spatial and temporal resolution.

David Koslicki

David Koslicki joined the OSU Mathematics Department in September 2013. He received his BS degree in Theoretical Mathematics from Washington State University in 2006 and his PhD in Mathematics from the Pennsylvania State University in 2012. His research area is in mathematical biology, especially genomic mathematics. His mathematical interests include random substitutions, Markov chains, Martin boundaries, symbolic dynamics, applications of compressive sensing, and thermodynamic formalism, while his biological interests include entropy techniques, alignment-free genomic analysis, gene-finding techniques, metagenomics and microbial community analysis. Before arriving at OSU, he has held positions as a postdoctoral researcher at Drexel University in Philadelphia and at the Mathematical Biosciences Institute at the Ohio State University in Columbus.

Elise Lockwood

Elise Lockwood joined the OSU Department of Mathematics in September 2013. She earned her BS in Mathematics in 2004 from Wheaton College in Illinois, her MST degree in Mathematics in 2006, and her PhD in Mathematics Education in 2011 from Portland State University. She came to OSU after two years as a Postdoctoral Fellow at the University of Wisconsin - Madison. Her primary research interest concerns the teaching and learning of combinatorics, and she has focused on students’ combinatorial thinking in solving counting problems.
Sandra Loesgen

Dr. Sandra Loesgen is an Assistant Professor in the Department of Chemistry. Her research focuses on drug discovery through the identification and characterization of bioactive compounds produced by microbial sources. One of her current projects involves the development of new anti-virals using novel screening methods to isolate drug leads, and a suite of biophysical techniques to examine their mechanism of action. Dr. Loesgen obtained her Ph.D in Organic Chemistry and Pharmacology at Göttingen University in Germany, where she examined the bioactive compounds produced by endophytic fungi. She subsequently received a DFG postdoctoral fellowship to identify and characterize novel compounds with anti-tumor activity from the metabolites of marine bacteria in the laboratory of Dr. Fenical at Scripps Institution of Oceanography. She joins us from the Laboratory of Bioorganic Chemistry at the NIH, where she received an intramural research award to examine the interaction of anti-viral compounds with their target proteins.

Sastry Pantula

Sastry is the Dean of College of Science and a professor of Statistics at Oregon State University, since August 30, 2013. He received his B. Stat(Honors) and M. Stat. from the Indian Statistical Institute, Kolkata, India. He joined North Carolina State University (NCSU) as an assistant professor in 1982, immediately after receiving his Ph.D. from Iowa State University, Ames, Iowa. At NCSU, he also served as the Director of Graduate Programs (1994-2002) and the Head of the Department of Statistics(2002-2010). For the past three years, Sastry served as the Director, Division of Mathematical Sciences at the National Science Foundation. He served as the 2010 President of the American Statistical Association. His honors include: Fellow of ASA and AAAS, and a member of the Honor Societies Phi Kappa Phi, Sigma Xi and Mu Sigma Rho. He was also a member of the NCSU Academy of Outstanding Teachers.

Weihong Qiu
Weihong Qiu is an Assistant Professor of Physics. At Oregon State, his research focuses on the mechanism and regulation of intracellular transport using an interdisciplinary approach that integrates molecular biology, biochemistry, single molecule microscopy and DNA-based nanotechnology. Weihong received his BS in Physics and MS in Biophysics from Nankai University, and his PhD in Biophysics from The Ohio State University. Before joining Oregon State, Weihong was an American Heart Association Postdoctoral Fellow at Harvard Medical School.

Thomas Sharpton

Dr. Thomas Sharpton is an Assistant Professor in the Departments of Microbiology and Statistics. He obtained a Ph.D. in Microbiology with a Designated Emphasis in Computational Biology from the University of California, Berkeley, and was subsequently a Postdoctoral Fellow at the J. David Gladstone Institutes. Dr. Sharpton’s laboratory uses biological, computational, and statistical methods to characterize the diversity and function of the microorganisms that live in and on the human body, collectively known as the human microbiome, and how they contribute to health. As this interdisciplinary investigation benefits from collaboration, Dr. Sharpton enjoys interacting with other researchers at OSU.

Su Sponaugle

Su Sponaugle joined Oregon State University in September 2013 as a Professor in the Department of Zoology, College of Science. Dr. Sponaugle is a marine fish ecologist who studies the processes associated with population replenishment, particularly in coral reef fishes. She received MS and PhD degrees from the State University of New York at Stony Brook, and in 1998, she became a Research Assistant Professor at the Rosenstiel School of Marine and Atmospheric Science at the University of Miami. She moved up the tenure ranks to Professor by 2011, while also serving 10 years as the Editor of the Bulletin of Marine Science, an international journal dedicated to the dissemination of research from the world’s oceans. In 2012, Dr. Sponaugle was elected Chair of the Division of Marine Biology and Fisheries, a position she retained until her move to OSU. Dr. Sponaugle will be affiliated with OSU’s Hatfield Marine Science Center.
Stephen Ramsey

Stephen Ramsey is a computational systems biologist who is joining the Department of Biomedical Sciences and the School of Electrical Engineering and Computer Science as an assistant professor. Out of his undergraduate training in mathematical physics at Brown University and his Ph.D. training in theoretical physics at the University of Maryland, Dr. Ramsey developed a career interest in scientific computing and its applications in the study of complex systems. Following a postdoctoral appointment at the University of Washington Genome Center where he worked on computational algorithms for use in the Human Genome Project, Dr. Ramsey joined the Institute for Systems Biology, where he developed integrative systems biology approaches to map and characterize gene regulatory networks. In 2010, Dr. Ramsey received an NIH K25 Career Development Award for a research program that is focused on using a systems biology approach to study the role of macrophages in atherosclerosis. More broadly, Dr. Ramsey’s research program aims to develop and use data-driven, systems biology approaches to understand the immune cell-specific gene regulatory networks that underlie the pathogenesis of both infectious and chronic inflammatory diseases. On the computational side, Dr. Ramsey is interested in applications of machine learning and quantitative modeling approaches in systems biology.

Natalia Shulzhenko

Natalia Shulzhenko, Assistant Professor working on Microbiome Research. Natalia was originally trained as a medical Doctor in Ukraine. Then she moved to Brazil to obtain her Masters and PhD at the Federal University of Sao Paulo, Brazil where she worked in the field of clinical transplant immunology and immunogenetics. After 10 years in Brazil, she went to a post-doctoral position at the National Institutes of Health in Bethesda, Maryland where she studied communications between immune, metabolic cells and microbes in the gut.