

Invited Speakers

KEYNOTE

Daniel Reed

Daniel A. Reed is Vice President for Research and Economic Development, as well as University Chair in Computational Science and Bioinformatics and Professor of Computer Science, Electrical and Computer Engineering and Medicine, at the University of Iowa. Previously, he was Microsoft's Corporate Vice President for Technology Policy and Extreme Computing, where he helped shape Microsoft's long-term vision for technology innovations in cloud computing and the company's associated policy engagement with governments and institutions around the world. Before joining Microsoft, he was the Chancellor's Eminent Professor at UNC Chapel Hill, as well as the Director of the Renaissance Computing Institute (RENCI) and the Chancellor's Senior Advisor for Strategy and Innovation for UNC Chapel Hill. Prior to that, he was Gutgsell Professor and Head of the Department of Computer Science at the University of Illinois at Urbana-Champaign (UIUC) and Director of the National Center for Supercomputing Applications (NCSA). He was also one of the principal investigators and chief architect for the NSF TeraGrid. He received a bachelor's of science from the University of Missouri, Rolla and a Masters of Science and PhD in computer science from Purdue University. Dr. Reed served as a member of the President's Council of Advisors on Science and Technology (PCAST) and the President's Information Technology Advisory Committee (PITAC).

MEDIA COMMUNICATIONS

Richard Lewis

"Research communications: It's your livelihood, not just an elective"

Richard Lewis is Senior Research Writer and Editor for the University of Iowa's office of Communication and Marketing. He fills a new position, created by the vice presidents of Strategic Communications and Research and Economic Development. He directs research communications for the university, including story coverage. His charge is to elevate the UI's research profile locally, nationally and internationally. Previously, he was a science writer for Brown University, a newsman for the Associated Press in New England, and a reporter for the Ames, IA Tribune. He also was the editor and publisher for the first weekly English language paper in the Slovak Republic. He graduated with a bachelor of arts from Duke University and a masters of arts at Columbia University - Graduate School of Journalism.

ENTREPRENEURSHIP PANELISTS

David Conrad

David Conrad is Deputy Director of Economic Development in the Office of the Vice President for Research and Economic Development. Previously, he was Executive Director of NUtech Ventures—an affiliate of the University of Nebraska that connected inventors and entrepreneurs with the people and resources they needed to start their own companies. Before NUtech, he worked in technology commercialization at the Iowa State University Research Foundation. David was a chemist in corporate, government, and academic labs before concluding that experiments involving people and organizations were more rewarding than those involving chemicals. They were safer too. His quest to become a lifelong student ended after a B.S. in Chemistry from the University of North Carolina at Chapel Hill, a Ph.D. in Chemistry from the University of Illinois at Urbana-Champaign, postdoctoral research at the California Institute of Technology, and an MBA from Duke University. David's interests are entrepreneurship, innovation, behavioral economics, game theory, and negotiation. His passion is empowering all the inventors, creators and makers who work hard every day to build the things that change the world.

Paul Dymerski

Paul Dymerski is Associate Director of New Ventures & IP Assessment at University of Iowa Research Foundation. He has experience in a wide range of technology commercialization and new venture creation projects in an academic environment as an Executive Mentor for the Entrepreneurial Center in the Fisher School of Business at The Ohio State University. He also has extensive experience as entrepreneur, creating a number of new ventures in the biotech, software, IT, environmental, and pharmaceutical services industries. As CEO of Applied Biomolecular Technologies, Inc., Paul was involved in proof-of concept, prototype development and commercialization road-mapping for numerous biotechnology clients. Paul has a PhD in chemistry from Case Western Reserve University and a MS from the University of Idaho. He received his bachelors of science from Duquesne University. He performed research at the University of Toronto, Cornell University, and the State of New York Health Dept.

Paul Heath

Paul Heath is Director of the UI Small Business Development Center. Previously, he F. W. Woolworth Company where he remodeled stores, opened stores, closed stores and ran various retail stores throughout the Midwest. He then became operations manager for a company headquartered in Charles City that had several retail operations across Northern Iowa. In 1984 he became Regional Director of the University of Iowa Small Business Development Center. Paul Heath is a CMA, CPA and a Certified Business Advisor. He received a bachelor of science from Morningside College and a masters of business administration from the University of South Dakota.

ACADEMIC PANELISTS

Ryan Carnahan

Ryan Carnahan is a Clinical Associate Professor of epidemiology at the University of Iowa where he serves as the Co-Principal Investigator of the Iowa Geriatric Education Center and Associate Director of the Health Effectiveness Research Center. He also works with the Food and Drug Administration's active medical product safety surveillance program, Mini-Sentinel. He completed a Pharm.D., a M.S. in epidemiology, and a three-year post-doctoral fellowship in clinical psychopharmacology at the University of Iowa. Previously, he was an assistant professor at the University of Oklahoma College of Pharmacy—Tulsa where he also served as the pharmacy consultant and director of research for OU-IMPACT, a program of assertive community treatment for people with severe mental illnesses. He is a board certified psychiatric pharmacist. His research interests center around prescribing practices and safety of psychotropic medications, as well as drug-induced cognitive impairment in the elderly, particularly those with dementia. He is currently working on research and educational projects to optimize management of behavioral and psychological symptoms of dementia, as well as delirium screening and management.

Craig Just

Craig Just is an assistant professor in the Department of Civil and Environmental Engineering and an assistant research engineer at IIHR – Hydroscience & Engineering. He has served the College of Engineering at the University of Iowa since 1993. He earned a masters degree in chemistry from the University of Northern Iowa in 1994 and a Ph.D. in environmental engineering and science from the University of Iowa in 2001. He is also the Coordinator of Sustainability Programs for the College of Engineering. His lab pursues research areas involving the use of sensors to measure water quality at rapid time-scales, the use of mussels as living biosensors, the fate of pharmaceuticals in non-conventional wastewater treatment systems, and human exposures to PCBs resulting from industrial dredging operations.

Catherine Musselman

Catherine Musselman is an assistant professor in the department of Biochemistry. She obtained her PhD at the University of Michigan and then went on to complete a Fellowship at the University of Colorado. Her lab is interested in deciphering mechanisms of chromatin structure modulation and how misregulation of these pathways is associated with disease. Specifically, their goal is to elucidate, on the molecular level, the details of how cofactors target nucleosomes, especially in response to histone modification, and how this leads to the regulation of genes. Such knowledge will enhance fundamental understanding of chromatin biology as well as reveal the etiology of many human diseases with the aim of eventually aiding in the development

of targeted therapeutics. They employ NMR spectroscopy, X-ray crystallography as well as a variety of other biophysical and biochemical techniques to approach these questions.

Rajan Sah

Rajan Sah is an Assistant Professor in the department of Internal Medicine and Cardiology at the University of Iowa. He obtained a PhD from the University of Toronto in 2002 and MD in 2004. He then completed a clinical and research fellowship at Howard Hughes Medical Institute Children's Hospital/Harvard Medical School. His lab studies heart failure and cardiac arrhythmias which are common clinical problems affecting millions of patients world-wide. The lab uses a combination of mouse genetics, cell biology, molecular techniques, protein biochemistry, electrophysiology and fluorescence imaging techniques to study the molecular function of TRPM7 and other TRP channels in human diseases, including cardiovascular disease.

Sarit Smolikove

Sarit Smolikove is an Assistant Professor in the department of Biology at the University of Iowa. She graduated at 2004 from Tel-Aviv University, and moved to Harvard Medical School, where she was a post-doctoral fellow for 5 years. She has been at the University of Iowa since August of 2009. Her lab is interested in chromosomes behavior during a specialized cell division named meiosis. Specifically she uses the model system of *C. elegans* to study two main topics: 1) regulation of assembly and dis-assembly of the synaptonemal complex (complex that holds chromosomes during meiosis), 2) the decision between different mechanisms of DNA damage repair in the germline.