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## SCIENCE OF TEAM SCIENCE CONFERENCE

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Wyndham Chicago  
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### SCIENCE OF TEAM SCIENCE



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**GABRIELE BAMMER, PHD**, is professor and director of the National Centre for Epidemiology and Population Health, ANU College of Medicine, Biology and Environment, The Australian National University. She is also a research fellow at the Program in Criminal Justice Policy and Management at Harvard University's John F. Kennedy School of Government and the convenor of the ARC Centre of Excellence in Policing and Security's Integration and Implementation research program. She is developing the new discipline of Integration and Implementation Sciences to improve research strengths for tackling complex real-world problems through synthesis of disciplinary and stakeholder knowledge, understanding and managing diverse unknowns and providing integrated research support for policy and practice change (see <http://i2s.anu.edu.au>). Her publications include the following books: *Uncertainty and Risk: Multidisciplinary Perspectives* (co-editor), *Research Integration Using Dialogue Methods* (co-author), *Dealing with Uncertainties in Policing Serious Crime* (editor), *Bridging the 'Know-Do' Gap: Knowledge Brokering to Improve Child Wellbeing* (co-editor) and the forthcoming *Disciplining Interdisciplinarity: Integration and Implementation Sciences for Researching Complex Real-World Problems* (author).



**CRAIG BOARDMAN, PHD**, is currently an assistant professor in the John Glenn School of Public Affairs, an evaluator for the National Science Foundation Industry/University Cooperative Research Centers program, an adjunct in both the Science and Technology Policy Institute, Washington, DC (Institute for Defense Analyses) and the Research Value Mapping Program (Georgia Tech, Arizona State University). Professor Boardman earned his doctorate in 2006 from the School of Public Policy at the Georgia Tech. His research is focused on boundary-spanning and knowledge-based coordinated problem solving, which occurs at the intersection of public policy implementation, organizational and network behavior, and management and leadership. Thus far his research has addressed the implementation of national policies promoting scientific and technical innovation with which to address social and economic problems. His work has been published in leading science policy journals including *Research Policy*, *Energy Policy*, *Technovation*, and *The Journal of Technology Transfer*, as well as in leading public affairs journals including *Journal of Policy Analysis & Management* and *Journal of Public Administration Research & Theory*. Boardman's work on governance in cooperative research has been discussed in scientific journals including *Nature*.



**VERONICA BOIX-MANSILLA, PHD**, is a Senior Research Associate at the Harvard Graduate School of Education, where she directs the Interdisciplinary Studies Project. Drawing on cognitive psychology, epistemology and sociology of knowledge, her research examines the conditions that enable experts and young learners to produce quality interdisciplinary work addressing problems of contemporary significance. Veronica's group studies the challenges of evaluating interdisciplinary research, programs and collaborations. Working within a novice-expert psychological paradigm, she builds on an empirical understanding of the work of experts in exemplary institutions to develop practical tools to design and evaluate quality interdisciplinary education and learning.

Veronica is the founder of *L@titud* the Latin American Initiative for Understanding and Development and the *Project Zero Forum for the Future of Education* a HGSE seminar held from 2005 to 2008. She chairs the Future of Learning Institute at Harvard and has

taught at the University of Buenos Aires and the Harvard Graduate School of Education. Veronica is the author of *Teaching for Interdisciplinary Understanding in the Middle Years Program (2010)* Cardiff: International Baccalaureate Press. *Educating for Global Competence: Preparing our youth to tackle significant global issues of our times (2011)* with Tony Jackson CCSSO press; and *The Point of Integration: Pivotal reflections on quality contemporary interdisciplinarity (2012)*.



**NOSHIR CONTRACTOR, PHD**, is the Jane S. & William J. White Professor of Behavioral Sciences in the McCormick School of Engineering & Applied Science, the School of Communication and the Kellogg School of Management at Northwestern University, USA. He is the Director of the Science of Networks in Communities (SONIC) Research Group at Northwestern University. He is investigating factors that lead to the formation, maintenance, and dissolution of dynamically linked social and knowledge networks in a wide variety of contexts including communities of practice in business, translational science and engineering communities, public health networks and virtual worlds. His research program has been funded continuously for over a decade by major grants from the U.S. National Science Foundation with additional current funding from the U.S. National Institutes of Health (NIH), Air Force Office of Research Support, Army Research Institute, Army Research Laboratory and the MacArthur Foundation.



**STEPHEN CROWLEY, PHD**, is an Associate Professor of Philosophy at Boise State University. He is a graduate of Indiana University (Bloomington) where he was part of a rich interdisciplinary community (philosophers, computer scientists, psychologists, and biologists) working on issues in animal cognition and a founding member of the philosophy departments' Empirical Epistemology Laboratory (a group focused on applying methods from the social sciences to issues within the theory of knowledge in particular as well as philosophy more generally).

Since arriving at BSU, Dr. Crowley's research has focused on the twin issues of providing a coherent intellectual framework for empirical philosophy and the study of epistemic barriers to cross-disciplinary inquiry. He has combined those interests via participation (as co-PI with colleagues at the University of Idaho) in a major NSF funded project (SES - 0823058), which is testing a workshop based method for improving communication in cross-disciplinary research.



**YING DING, PHD**, is an Assistant Professor at the School of Library and Information Science, Indianan University. Before she worked as a senior researcher at the University of Innsbruck, Austria and as a researcher at the Free University of Amsterdam, the Netherlands. She completed her Ph.D. at the School of Applied Science, Nanyang Technological University, Singapore. She is the ontology team lead of the NIH funded VIVO project. She has been involved in various European-Union funded projects: research-oriented EU projects (EASAIER, OntoKnowledge, IBROW, SWWS, COG, Htechsight, Esperonto, SEKT, DIP, Triple Space Computing), thematic network (Ontoweb, knowledgeweb), and Accompanied Measurements (Multiple). She has published 100+ papers in journals, conferences and workshops. She serves as a Program Committee member for 100+ international conferences and workshops. She is co-author of the book *Intelligent Information Integration in B2B Electronic Commerce* published by Kluwer Academic Publishers. She is also co-author of book chapters in the book *Spinning the Semantic Web* published by MIT Press and *Towards the Semantic Web: Ontology-driven Knowledge Management* published by Wiley. Her current interest areas include Webometrics, Semantic Web, citation analysis, information retrieval, knowledge management and application of Web Technology.



**LESLIE DECHURCH, PHD**, is Associate Professor at the Georgia Institute of Technology in Industrial/Organizational Psychology. Her research program explores what makes effective team leaders, how teams successfully collaborate across boundaries, and how leadership and team dynamics are sustained in virtual organizations. Professor DeChurch's research has appeared in top journals including the Journal of Applied Psychology, Journal of Management, Leadership Quarterly, Journal of Applied Social Psychology, Group Dynamics: Theory, Research, & Practice, Small Group Research, Educational and Psychological Measurement, and the International Journal of Conflict Management, and she serves on the editorial boards of the Journal of Applied Psychology, the Journal of Business and Psychology, and Small Group Research. Her research has been funded by the National Science Foundation and the Army Research on the Social and Behavioral Sciences.



**DAVID EICHMANN, PHD**, is the Associate Director for Biomedical Informatics and an Associate Professor of Information Science in the School of Library and Information Science, with a joint appointment in the Department of Computer Science. He is a member of the Health Informatics Steering Committee and a member of the Executive Council for the Center for Bioinformatics and Computational Biology. From July 2002 to June 2006, he also served as Director of SLIS.

Dr. Eichmann received his PhD in Computer Science from The University of Iowa in 1989, with a dissertation in database theory. He has been on the faculty at Seattle University, West Virginia University and most recently at the University of Houston - Clear Lake, where he chaired the Software Engineering program and was Director of Research and Development for the NASA-funded Repository Based Software Engineering project. MORE, one of the systems developed as part of RBSE, received a NASA Group Achievement Award in 1998 from Johnson Space Center and was nominated in 1998 by JSC for the NASA Software of the Year Award. Since his return to Iowa in 1997, Dr. Eichmann been working on information retrieval and intelligent agents, particularly with respect to information filtering, extraction of named entities and multimedia clustering.



**HOLLY J. FALK-KRZESINSKI, PHD**, is a Research Assistant Professor and the Director of Research Team Support & Development at the CTSA-supported Northwestern University Clinical and Translational Science (NUCATS) Institute, where she engages in navigation and support for clinical and translational collaboration, cross-disciplinary research, research teams, and grantsmanship for collaborative opportunities. Focusing on the 'praxis' of team science (the practical aspects of science performed in teams) and the 'science' of team science (empirical research on scientific teams), Dr. Falk-Krzesinski serves as a conduit to help translate empirical research findings about team science into evidence-based effective practices for scientific teams and funders of team science. Her expertise in team science and the science of team science (SciTS) is evidenced by her graduate-level Team Science course and the Annual International Science of Team Science (SciTS) Conference, which she chairs, through which she is working to develop a strong, interdisciplinary community of practice for team science and SciTS. In addition, Dr. Falk-Krzesinski is a recognized expert on research networking tools within the CTSA Consortium, Dr. Falk-Krzesinski has been an active member of the Informatics KFC Research Networking Tool Affinity Group.

In her earlier role as founding director of Northwestern's central Office of Research Development (ORD), she fostered numerous major multi/inter/transdisciplinary, team-oriented research initiatives spanning structural genomics of infectious diseases to cancer nanotechnology to regenerative medicine to oncofertility to art history to bioenergy to solar energy, securing over \$140M in collaborative federal grants and contracts. In 2008, Dr. Falk-Krzesinski launched a national network of research development professionals, which evolved into the National Organization of Research Development Professionals (NORDP). She currently serves as the immediate past president of NORDP and membership chair and is spearheading the organization's initiative to advance research collaboration nationally.



**STEPHEN M. FIORE, PHD**, is faculty with the University of Central Florida's Cognitive Sciences Program in the Department of Philosophy and Director of the Cognitive Sciences Laboratory at UCF's Institute for Simulation and Training. He earned his Ph.D. degree in Cognitive Psychology from the University of Pittsburgh, Learning Research and Development Center. He maintains a multidisciplinary research interest that incorporates aspects of the cognitive, social, and computational sciences in the investigation of learning and performance in individuals and teams. He is co-Editor of recent volumes on Shared Cognition (Forthcoming), Macrocognition in Teams (2008), Distributed Learning (2007), and Team Cognition (2004), and he has co-authored over 100 scholarly publications in the area of learning, memory, and problem solving at the individual and the group level. As Principal Investigator and Co-Investigator he has helped to secure and manage approximately \$15 Million in research funding from organizations such as the National Science Foundation, the Office of Naval Research, the Air Force Office of Scientific Research, and the Department of Homeland Security.



**ROBERT FRODEMAN, PHD**, is Professor of Philosophy and former Chair of the Department of Philosophy and Religious Studies at the University of North Texas (UNT), where he specializes in environmental philosophy, the philosophy of science policy, and the philosophy of interdisciplinarity. He served as a consultant for the US Geological Survey for eight years, was the 2001-2002 Hennebach Professor of the Humanities at the Colorado School of Mines, and was an ESRC Fellow at Lancaster University in England in the spring of 2005. In addition to more than 60 published articles and \$1.7M in grants, Dr. Frodeman is the author of *Geo-Logic: Breaking Ground between Philosophy and the Earth Sciences* (2003), co-editor of the *Encyclopedia of Environmental Ethics and Philosophy* (2008), chief editor of the *Oxford University Press Handbook of Interdisciplinarity* (2010) and chief editor of the *English/Chinese volume Peer Review, Research Integrity, and Governance of Science: Practice, Theory, and Current Discussions* (forthcoming May 2012, Remnin Press). Frodeman is the founding director of the Center for the Study of Interdisciplinarity at UNT ([www.csid.unt.edu](http://www.csid.unt.edu)).



**DENISE GALLOWAY, PHD**, is a Member (Professor equivalent) at the Fred Hutchinson Cancer Research Center in Seattle, WA. She is currently the Interim Director of the Human Biology Division and is also a Member of the Public Health Sciences Division at the FHCRC. She is a Research Professor in the Microbiology Department at the University of Washington School of Medicine. Her laboratory studies the role of human papillomaviruses (HPVs) and polyomaviruses (HPyVs) in human cancer. Her research spans basic mechanisms of viral carcinogenesis to molecular epidemiologic approaches. She is supported by grants from the National Institutes of Health, including head of a Program grant and previously received a prestigious MERIT award. Dear Galloway is the Chair of the Virology study section at NIH, and previously chaired the National Cancer Institute's panel on Basic and Pre-clinical Program Grants. She is an associate editor and on the editorial board of several journals. Dr. Galloway was the Team Leader of the Seattle HPV Team, which won the 2011 Team Science Award from the American Association for Cancer Research. Their group contributed to providing proof of an association between HPVs and anogenital cancers, gained mechanistic insights into how HPVs cause genetic instability, and did initial research that aided in the development of vaccines to prevent HPV infections and disease.



**BARBARA GRAY, PHD**, is a Professor of Organizational Behavior, Exec. Programs Faculty Fellow, and Director of the Center for Research in Conflict and Negotiation at The Pennsylvania State University. She received her PhD in Organizational Behavior from Case Western Reserve University. She has held visiting appointments at the Darden School (University of Virginia), Harvard Law School, and several European universities. Dr. Gray has published three books and over eighty articles on topics including work on multiparty collaborative alliances and partnerships,



organizational and interorganizational conflict, intercultural and interdisciplinary team dynamics, and institutional change. Her research has been funded by NSF, EPA, NIH, and the Hewlett Foundation. Her current research includes studying collaboration among scientists in the ATLAS project at CERN, diversity and performance of academic research teams, and leadership in transdisciplinary teams. She consults worldwide to public, private, not-for-profit and NGO organizations on team building, negotiations, conflict management, leadership and organizational change.



**KARA HALL, PHD**, is a health scientist in the Office of the Associate Director of the Behavioral Research Program in the Division of Cancer Control and Population Sciences (DCCPS) at the National Cancer Institute (NCI) working in the areas of behavioral science, dissemination and implementation science and the science of team science. During her career, Dr. Hall has participated in a variety of interdisciplinary clinical and research endeavors. Her research has focused on the development of behavioral science methodologies such as the design of survey protocols, meta-analytic techniques for health behavior theory testing, as well as on applications of health behavior theory to multiple content areas and the development of computerized tailored interventions to foster health promotion and disease prevention behaviors. Additionally, Dr. Hall leads the DCCPS Science of Team Science Team, focused on advancing the field by developing new metrics, measures and models for understanding and evaluating transdisciplinary research, collaboration and training - specifically in the context of large research initiatives. Dr. Hall served as a co-chair for the 2006 conference “The Science of Team Science: Assessing the Value of Transdisciplinary Research” and co-editor for the recent American Journal of Preventive Medicine Special Supplement on the Science of Team Science. Dr. Hall earned her Master’s and Ph.D. in Psychology at the University of Rhode Island.



**JOANN KEYTON, PHD**, (The Ohio State University, 1987) is Professor of Communication at North Carolina State University. Her current research examines the collaborative processes and relational aspects of interdisciplinary teams, participants’ use of language in team meetings, the multiplicity of cultures in organizations, and how messages are manipulated in sexual harassment. Her research is field focused and she was recently honored with the 2011 Gerald Phillips Award for Distinguished Applied Communication Scholarship by the National Communication Association. In addition to publications in scholarly journals and edited collections, she has published three textbooks for courses in group communication, research methods, and organizational culture in addition to co-editing an organizational communication case book. Keyton was editor of the *Journal of Applied Communication Research*, Volumes 31-33, and founding editor of *Communication Currents*, Volumes 1-5. Currently, she is editor of *Small Group Research*. She is a founder and vice-chair of the Interdisciplinary Network for Group Research. (INGRoup)



**JULIE THOMPSON KLEIN, PHD**, is Professor of Humanities in the English Department and Faculty Fellow in the Office for Teaching and Learning at Wayne State University. She has also held visiting positions in Japan, New Zealand, and Nepal, and was Senior Fellow at the Association of American Colleges and Universities. Klein is a recipient of the Kenneth Boulding Award for outstanding scholarship on Interdisciplinarity, the Ramamoorthy and Yeh Transdisciplinary Distinguished Achievement Award, and the Joseph Katz Award for Outstanding Leadership in General and Liberal Education. Her authored, (co)edited books include *Interdisciplinarity: History, Theory, and Practice* (1990), *Interdisciplinary Studies Today* (1994), *Crossing Boundaries* (1996), *Mapping Interdisciplinary Studies* (1999), *Transdisciplinarity* (2001), *Interdisciplinary Education in K-12 and College* (2002), *Promoting Interdisciplinary Research* (2005), *Humanities, Culture, and Interdisciplinarity* (2005), *Creating Interdisciplinary Campus Cultures* (2010), and *The Oxford Handbook of Interdisciplinarity* (2010). She is also co-editor of the University of Michigan Press series *Digital Humanities@digitalculturebooks*.



**STEVE KOZLOWSKI, PHD**, is a recognized authority in human learning, team effectiveness, and multilevel theory. His research is focused on the design of active learning systems and use “synthetic experience” to train adaptive skills, the development of systems to enhance team learning and team effectiveness, and the critical role of team leaders in the development of adaptive teams. Dr. Kozlowski is the Editor (and a former Associate Editor) for the *Journal of Applied Psychology* and serves as the Editor for the *Oxford Series in Organizational Psychology*. He serves on the Editorial Boards of *Current Directions in Psychological Science* and the *Journal of Management*, and he has previously served on the Editorial Boards of the *Academy of Management Journal*, *Human Factors*, the *Journal of Applied Psychology*, and *Organizational Behavior and Human Decision Processes*. He is a Fellow of the American Psychological Association, the Association for Psychological Science, the International Association for Applied Psychology, and the Society for Industrial and Organizational Psychology. Dr. Kozlowski received his B.A. in psychology from the University of Rhode Island, and his MS and PhD degrees in organizational psychology from The Pennsylvania State University.



**JACOB LEVIN, PHD**, is the Assistant Vice Chancellor for Research Development at UC Irvine. He coordinates the preparation and submission process for major interdisciplinary grant proposals across campus, and has been instrumental in the development and funding of multiple campus research centers, cross-School initiatives, capital projects, graduate and undergraduate degree programs.

Dr. Levin also sits as a voting alternate on California’s Independent Citizens’ Oversight Committee, the governing board of the \$3 billion California Institute for Regenerative Medicine (CIRM), spearheaded the establishment and serves on the Oversight Board of two on-campus business incubators, is on the board of BIOCUM San Diego ([www.biocom.org](http://www.biocom.org)), and is a founding board member and

current President of the National Organization of Research Development Professionals ([www.nordp.org](http://www.nordp.org)). Previously, Dr. Levin was Chief Technical Officer of an MIT spin-off biomedical research startup company, Physics Faculty at Santa Ana College, and a Research Scientist at the MIT Picower Center for Learning and Memory. He received his BA in Physics and Math from Cornell University, an MA in Physics from UC Berkeley, a PhD in Molecular and Cell Biology from UC Berkeley, and was a Postdoctoral Fellow in the MIT Department of Brain and Cognitive Sciences.



**Laurie Lewis, PhD**, is an Associate Professor in Rutgers' School of Communication and Information. Dr. Lewis earned her doctoral degree in Communication from the University of California at Santa Barbara in 1994. She received her MA in Communication from the University of Illinois and her BA from the University of Washington. She has held faculty positions at The Pennsylvania State University and The University of Texas at Austin. She teaches and conducts research in areas of organizational change, stakeholder communication, nonprofit organizations, and interorganizational collaboration. She is also the Director of the Master of Communication and Information Studies program at Rutgers.

Dr. Lewis is a recognized expert in collaborative communication processes. Her theoretical work on collaborative interaction appears in the 2006 Communication Yearbook. Other published work in the areas of collaboration and stakeholder communication appears in *Communication Monographs*, *Human Communication Research*, *Management Communication Quarterly* among others. She recently published her first book *Organizational Change: Creating change through strategic communication*.

She is an active member of the National Association of Communication, International Association of Communication, Academy of Management, Association for Research on Nonprofit Organizations and Voluntary Action, and the National Association of Planning Councils. Dr. Lewis has consulted and done training for a number of for-profit, nonprofit and governmental organizations including Habitat for Humanity, USAID, Internal Revenue Service, Austin Presbyterian Theological Seminary, Community Action Network, Frito Lay, Merrill Lynch, University of Phoenix, The Center for Disease Control Center for Global Health, and Kraft Foods among many others. She is currently a Research Associate for LifeStory Research and a member of the training team for Rutgers Center for Management Development since 2006. Prior to her academic career, Dr. Lewis worked for the Seattle-King County Chapter of the American Red Cross in Human Resource Management.



**Linda Sprague Martinez, PhD**, is the Assistant Director of the School of Arts and Sciences Community Health Program, and an Assistant Professor of Public Health and Community Medicine with the School of Medicine at Tufts University. She is also a member of the Program for Aligning Researchers and Communities for Health within the Tufts Clinical and Translational Science Institute (CTSI) leadership team. Having formerly worked across municipal and state governmental departments/divisions implementing disparities related policies and initiatives, and as a mental health provider, her research is focused on the intersection between socio-environmental community-level factors and health. More specifically Dr. Sprague Martinez is interested in examining how the built environment and the social context by which is surrounded both directly and indirectly influence the health and trajectories of children, youth and families; and more importantly how assets can be both recognized and leveraged to improve life chances. She has expertise in community engaged research; urban minority health; community assessment and mobilization; and qualitative research methods and analyses. She currently directs a NIMHD-funded community based participatory intervention research grant focused on reducing health disparities among urban minority youth. In addition, she co-directs a community engaged intervention research study funded by the Boston Foundation to increase physical activity among Caribbean immigrants, and a community engaged NIMHD funded science education grant targeting urban minority middle school students. Dr. Sprague Martinez completed her doctoral studies in Social Policy at the Health School for Social Policy in Management at Brandeis University in 2009.



**Deborah McGuinness, PhD**, is the Tetherless World Professor of Computer and Cognitive Science, and the founding director of the Web Science Research Center at Rensselaer Polytechnic Institute. Deborah is a leading authority on the semantic web and has been working in knowledge representation and reasoning environments for over 25 years. Deborah's primary research thrusts include work on explanation, trust, ontologies, escience, open data, and semantically-enabled schema and data integration. Prior to joining RPI, Deborah was the acting director of the Knowledge Systems, Artificial Intelligence Laboratory and Senior Research Scientist in the Computer Science Department of Stanford University. Deborah is also widely known for her leading role in the development of the W3C Recommended Web Ontology Language (OWL) and her work on earlier description logic languages and environments. She has built and deployed numerous ontology environments and ontology-enhanced applications, including some that have been in continuous use for over a decade at AT&T and Lucent, and two that have won deployment awards for variation reduction on plant floors and interdisciplinary virtual observatories. She has published over 150 peer-reviewed papers and has authored granted patents in knowledge based systems, ontology environments, configuration, and search technology. Deborah received her Bachelor's degree in Math and Computer Science from Duke University, her Masters degree in Computer Science from University of California at Berkeley, and her PhD in Computer Science from Rutgers University.



**William Newell, PhD**, is Professor of Interdisciplinary Studies in the Western Program at Miami University, where he has taught interdisciplinary courses full time since 1974 and the senior project workshop almost exclusively since

1995. He holds a PhD in economics from the University of Pennsylvania and an AB in philosophy from Amherst College. Newell has edited two books and two special volumes of journals in interdisciplinary studies. He has published over 30 articles and chapters in interdisciplinary studies and has served as a consultant or external evaluator in interdisciplinary higher education well over 100 times. The founding president of the Association for Integrative Studies, he has served as secretary-treasurer and then as executive director since 1983.



**LISA OSBECK, PHD**, is an active member of the Cognition and Learning in Interdisciplinary Cultures (CLIC) research team based at the Georgia Institute of Technology. Under the direction of Nancy Nersessian and Wendy Newstetter, with funding from the National Science Foundation, this interdisciplinary team has conducted a multi-year ethnographic investigation of two innovation-focused biomedical engineering research laboratories and is currently investigating two integrative systems biology laboratories. Based on the BME study, Lisa and colleagues recently co-authored *Science as Psychology: Sense-making and Identity in Science Practice* (Osbeck, Nersessian, Malone, & Newstetter, 2011, Cambridge University Press). The book explores the richness of scientific reasoning through an analysis of emotional, social, and cultural dimensions of problem solving in the laboratories investigated. Lisa holds a PhD in general psychology from Georgetown University where she specialized in the history and philosophy of psychological science. Lisa is a Fellow of APA and Fellow and Associate of the Center for Philosophy of Science, University of Pittsburgh. She is a past recipient of the Sigmund Koch Award for Early Career Contributions to Psychology bestowed by the Society for Theoretical and Philosophical Psychology and is active on the executive committee of the division. Her full time appointment is as Professor of Psychology at the University of West Georgia, but she will spend the 2012-2013 as a visiting research scientist at with the CLIC group at Georgia Tech.



**MICHAEL O'ROURKE, PHD**, is a Professor of Philosophy, faculty member in Neuroscience and Environmental Science, and Director of the Toolbox Project at the University of Idaho. His research interests include the nature of epistemic integration and communication in collaborative CDR and the nature of linguistic communication between intelligent agents. He has published extensively on the topic of communication, both within philosophy and within the field of robotic agent design. Since 1998, he has served as co-director of the Inland Northwest Philosophy Conference, an interdisciplinary conference on philosophical themes held annually on the campuses of UI and WSU, and since 2000, as co-editor of the *Topics in Contemporary Philosophy* series published by the MIT Press



**DEANA PENNINGTON, PHD**, is an interdisciplinary scientist with a PhD in Physical Geography and a post-PhD Graduate Certificate in Adult and Organizational Learning, located in UTEP's CyberSHARE Center of Excellence. Her research is focused on enabling interdisciplinary teams investigating human/environmental systems and global change, especially understanding knowledge co-creation and synthesis in these complex interdisciplinary research efforts. Recently her research has focused on understanding collaboration processes as knowledge ecosystems; interdisciplinary teams as distributed cognitive systems; use of spatial metaphors for analysis of shared conceptual spaces; and development of models of cross-disciplinary learning and collaboration. She also investigates the application of collaboration and semantic technologies that enable interdisciplinary research. Deana is PI on the new, National Science Foundation funded (Cyberinfrastructure) CI-Team Project: The Virtual Learning Commons: STEM Research Communities Learning about Data Science, and has had two prior NSF grants for empirical studies of science and technology teams.



**SARA PEPPER, MA, MPH**, facilitates the development of large-scale, cross-disciplinary grant proposals at Washington State University in Pullman, WA. She earned her B.S. in Human Development at Cornell University, her M.A. in Anthropology at UCLA, and M.P.H. at the University of Arizona. Prior to starting at WSU in 2010, she operated Community Health Partnerships, working with diverse teams of stakeholders to form community-based coalitions and to develop and fund collaborative, public health programs. Her emphasis was on translating research-based programs for implementation in rural community settings. At WSU she has worked successfully with teams of researchers, educators, and outreach specialists across a variety of disciplines including engineering, plant sciences, communication, nutrition, veterinary microbiology and pathology, anthropology, chemistry, animal sciences, and others, to develop collaborative proposals related to sustainable bioenergy, food safety, childhood obesity, antibiotic resistance, climate change, and more. Ms. Pepper worked with Dr. Michael O'Rourke and others to adapt the University of Idaho's Toolbox Project to Improve Cross-Disciplinary Communication for use by teams of translational medicine professionals.



**CHRISTIAN POHL, PHD**, earned his doctoral degree in environmental sciences and is currently co-director of the transdisciplinarity-net of the Swiss Academies of Arts and Sciences and lecturer at the Department of Environmental Sciences at ETH Zurich. He studied environmental sciences, followed by a doctoral thesis on uncertainty in environmental assessments. As a post-doc he moved to the field of science studies where he did a comparative analysis of the collaboration of natural and social sciences in Swiss and Swedish environmental

research. His current research interest is the analysis and design of transdisciplinary research as a means to connect science and society, specifically in the field of sustainable development.



**ALAN PORTER, PHD**, is Director of R&D for Search Technology, Inc., Norcross, GA. He is also Professor Emeritus of Industrial & Systems Engineering, and of Public Policy, at Georgia Tech, where he continues as co-director of the Technology Policy and Assessment Center ([//tpac.gatech.edu](http://tpac.gatech.edu)). He is author of some 275 articles and books, including *Tech Mining* (Wiley, 2005) and *Forecasting and Management of Technology* (2d edition, Wiley, 2011).

He and colleagues are pursuing bibliometric measures, text mining, and science overlay maps to assess interdisciplinarity and research knowledge diffusion. The text mining software that we use in these tasks, various papers, and research assessment applications appear at: [//theVantagePoint.com](http://theVantagePoint.com). Interactive science overlay maps are available at: [//www.idr.gatech.edu](http://www.idr.gatech.edu).



**LYNN M. SCHNAPP, MD**, is the Professor of Medicine, Adjunct Professor, Department of Biobehavioral Nursing and Health Systems. Dr. Schnapp is a physician-scientist in Division of Pulmonary and Critical Medicine at University of Washington, Seattle WA. She has an active research program that focuses on molecular mechanisms of lung injury and repair. Dr. Schnapp is also involved in faculty development and mentoring programs both locally and nationally. She is part of the leadership team of the University of Washington CTSA program, where she is developing programs to enhance team science, translational research, and career development opportunities throughout the

WWAMI region, Washington, Wyoming, Alaska, Montana, Idaho Consortium.



**BONNIE SPRING, PHD**, earned her doctorate degree in psychology from Harvard University and is Professor of Preventive Medicine, Psychology, and Psychiatry & Behavioral Sciences, Director of Behavioral Medicine, and Co-Program Leader in Cancer Prevention at Northwestern University. She is a past president of the Society of Behavioral Medicine (SBM) and recipient of SBM's Distinguished Research Mentor award. She is also a Fellow of the American Psychological Association, member of the Academy of Behavioral Medicine Research, and holds the American Board of Professional Psychology's Diplomate in Clinical Health Psychology. An advisory editor for the *Journal of Consulting and*

*Clinical Psychology*, *Journal of Clinical Psychology in Medical Settings*, and *Journal of Social and Clinical Psychology*, she is founding editor and editor-in-chief for *Translational Behavioral Medicine: Practice, Policy, Research*. Her NIH-funded online learning modules about the science and praxis of team science are disseminated throughout the nationwide network of CTSA's and are available free of charge at [www.teamscience.net](http://www.teamscience.net).



**DANIEL STOKOLS, PHD**, is Chancellor's Professor of Planning, Policy, and Design, Psychology and Social Behavior, and Dean Emeritus of the School of Social Ecology at the University of California, Irvine. He is also Professor of Public Health and Epidemiology in the College of Health Sciences at UCI. Dr. Stokols earned his BA degree at the University of Chicago and his MA and PhD degrees at the University of North Carolina, Chapel Hill. Dr. Stokols is past President of the Division of Population and Environmental Psychology of the American Psychological Association (APA) and is a Fellow of Divisions 9, 27, 34, and 38 within APA and of the American Psychological Society. He serves as a Section

Editor of the *American Journal of Health Promotion*, a member of the Editorial Boards of the *Journal of Environmental Psychology* and the *Journal of Architectural and Planning Research*. Dr. Stokols was recipient of the Annual Career Award of the Environmental Design Research Association in 1991, the UC Irvine Lauds and Laurels Faculty Achievement Award and the Chancellor's Award for Excellence in Fostering Undergraduate Research in 2003. His recent research has examined contextual factors that influence the success of transdisciplinary research and training programs. Additional areas of Dr. Stokols' research include the design and evaluation of community and worksite health promotion programs, the health and behavioral impacts of environmental stressors such as traffic congestion and overcrowding, and the application of environmental design research to urban planning and facilities design. Dr. Stokols currently serves as Scientific Consultant to the National Cancer Institute, Division of Cancer Control and Population Sciences, and as a member of NCI's Science of Team Science (SciTS) team; and as a Team Science Evaluation Consultant for the National Academies of Sciences-Keck Futures Initiative (NAKFI).



**DAVID A. STONE, PHD**, holds two interdisciplinary degrees (MA and PhD) from the University Professors Program at Boston University, the former combining studies in law, psychiatry, phenomenological philosophy and the latter combining philosophy of science, philosophy of technology, economics, sociology of work, organizational behavior, cognitive science, and expert systems. Over the past 20 years, Dr. Stone has served as an academic research scientist (public policy, health services, public health, clinical medicine) at the Harvard School of Medicine, the Harvard School of Public Health, the Tufts University School of Medicine, and Sheffield University (UK). He has also served as

founding director of the South East European Research Center (Greece), co-founder of the Pediatric and Adolescent Research Center at Tufts University, and as director of the Fenway Health Center Research Department in Boston. As an interdisciplinary researcher and team scientist, Dr. Stone has published in seven disciplines ranging from philosophy to clinical medicine. His most recent work examines the role of the tacit in interdisciplinarity. He currently serves as the Associate Vice President for Research at Northern Illinois University.





**JESSICA THOMPSON, PHD** is an assistant professor in the Human Dimensions of Natural Resources Department at Colorado State University. She completed her doctoral degree in Communication at the University of Utah in spring 2007. During her graduate studies she earned certificates in conflict resolution and facilitator training and an interdisciplinary certificate in Adaptive Management of Environmental Systems, which focuses on integrated and participatory modeling in stakeholder processes. In 2008, she published her first book, entitled, *Interdisciplinary Research Team Dynamics: A Systems Approach to Understanding Communication and Collaboration in Complex Teams*. Additionally, she has published numerous articles in many peer-reviewed journals, including *Science Communication*, *Environmental Communication*, *Journal of Applied Communication Research* and *Society & Natural Resources*. Her current research and teaching focus is on communicating, educating and managing environmental conflict about complex ecological issues – such as global climate change and natural resource conservation. She currently is the principal investigator on two multi-million dollar NSF projects investigating the role of collaboration and communication in climate change research in Mongolia and in America's National Parks and Wildlife Refuges.



**CAROLINE S. WAGNER, PHD**, is the Ambassador Milton A. and Roslyn Z. Wolf Chair in International Affairs at the John Glenn School of Public Affairs at The Ohio State University. Dr. Wagner also serves as the Director of the Battelle Center for Science and Technology Policy at Ohio State. Dr. Wagner is the first scholar to hold the Wolf Chair at Ohio State. For three decades prior to joining academic life, Dr. Wagner worked as a policy analyst. The longest tenure was as a staff member with The RAND Corporation where she served as the deputy director of the Science & Technology Policy Institute—a research center established by Congress to serve the White House Office of Science and Technology Policy. Dr. Wagner also served at RAND Europe (Netherlands) as an analyst working on projects for the European Commission, while earning her doctorate at the University of Amsterdam.

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**GRIFFIN WEBER, MD, PHD**, is an Assistant Professor of Medicine and the Chief Technology Officer of Harvard Medical School, whose vision is to break down the silos that exist in biomedical research, by using computer science techniques to connect scientists across different institutions and disciplines and to help them analyze the countless clinical and biological datasets that remain inaccessible to most investigators. To accomplish this goal, he has developed several open source software applications that are used in universities and hospitals around the world. One of these, named Harvard Catalyst Profiles (<http://profiles.catalyst.harvard.edu>), automatically locates information about scientists on the Internet and discovers how their research is connected. The software has numerous applications, ranging from helping individual investigators find collaborators to understanding the dynamics of an entire research community. Another program, Informatics for Integrating Biology and the Bedside (i2b2; <http://www.i2b2.org>), is a web-based platform that enables a variety of functions related to clinical research, including queries of large data repositories, visualization of temporal data, and identification of random matched cohorts. He also created the Shared Health Research Information Network (SHRINE), which is a federated query tool that connects i2b2 databases at different hospitals, enabling researchers to perform large cohort trials and to study rare diseases. Dr. Weber studied biomedical engineering as an undergraduate at Harvard, and he stayed at Harvard to complete medical school and a PhD in computer science.



**FERN WICKSON, PHD**, is a researcher at GenØk Centre for Biosafety in Tromsø, Norway. Her primary research interest is in the ecological governance of emerging technologies. Her current research project interrogates the meaning of environmental harm and seeks to integrate the philosophy of environmental ethics and the science of ecotoxicology to promote ecologically responsible governance of bio- and nanotechnologies. With a long-standing interest in the theory and practice of cross-disciplinary research, Fern undertook a Bachelor of Arts/Bachelor of Science double degree at the Australian National University and attained a first class Honours degree in Environmental Politics from the University of Tasmania. She completed a cross-disciplinary PhD across the Schools of Biological Sciences and Science and Technology Studies at the University of Wollongong, with a thesis on Australia's environmental regulation of genetically modified crops. Fern then worked as a postdoctoral researcher at the Centre for the Study of the Sciences and the Humanities at the University of Bergen, where she conducted interdisciplinary research on social and ethical aspects of nanotechnology, including the different narratives about the relationship between nanotechnology and nature, and critical perspectives on the discourse and practice of public engagement as a governance tool. Since then, Fern has worked as a researcher on a number of European projects related to risk and public engagement in the governance of nanotechnologies and serves as an expert delegate in the negotiations of the International Organization for Standardization (ISO) and the European Committee for Standardization (CEN) in technical committees dealing with nanotechnologies. Dr. Wickson has published extensively in both social and natural science journals and is



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**ANITA WILLIAMS WOOLLEY, PHD**, is an Assistant Professor of Organizational Behavior and Theory at the Tepper School of Business. She has a PhD in Organizational Behavior from Harvard University, where she also earned Bachelor's and Master's degrees. At the Tepper School of Business, she teaches MBA and undergraduate courses on managing groups and teams in organizations.

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