



Global Forum on Urban
and Regional Resilience

**Building Resilient Cities:
How Cities Can Harness the Power of Urban Informatics**
A workshop presented by
The Global Forum on Urban and Regional Resilience at Virginia Tech

PRESENTER BIOGRAPHIES

James Bohland
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James (Jim) Bohland is the Co-director of the Global Forum on Urban and Regional Resilience. In that capacity he is involved in coordinating global partnerships and collaborative research programs related to community resilience.

He previously served as Vice-President, he works with the Virginia Tech senior management team to develop and implement new strategic directions for the university in the National Capital Region (Washington DC), including a new major research initiative on resiliency that is part of the University's five year plan. Dr. Bohland served as chair of the Urban Affairs and Planning program from 1984 to 1995. He was the founding director of the School of Public and International Affairs and served in that capacity until the spring of 2001. From August 2000 to August 2001 he served as interim provost for Virginia Tech and in September 2001, he was appointed Senior Fellow for Biomedical, Bioengineering, and Health Projects by the university, a position he held until 2005. From 2000 to 2008, he served as director of the Institute for Community Health. He earned a Ph.D. in geography from the University of Georgia and accepted a position at the University of Oklahoma, where he stayed until joining the faculty at Virginia Tech in 1980.

Dr. Bohland's research interests are community and population health, in the social aspects of information technology, and in approaches to building resiliency across sectors and regions. Bohland has authored more than 85 referred articles, book chapters and technical reports on topics ranging from community health, digital divide, and resiliency. He has received grants from NSF, Exxon, National Telecommunications and Information Agency, NIH and NASA.

Charles Catlett
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Charlie Catlett is a Senior Computer Scientist at Argonne National Laboratory, a U.S. Department of Energy scientific research laboratory. Catlett is also a Senior Fellow at the Computation Institute of the University of Chicago and Argonne National Laboratory, and a Visiting Artist at the School of the Art Institute of Chicago. His current research focus areas include urban data science, cyber security and privacy, mobile devices and social networks, and the use of mobile and embedded computing to create intelligent infrastructure. He served as Argonne's Chief Information Officer from 2007-2011.

From 2004 through 2007 he was director of the TeraGrid Initiative, a national-scale facility supported by the National Science Foundation.

In 1999 Charlie co-founded the Global Grid Forum, (now Open Grid Forum) serving as its founding chair from October 1999 through September 2004. Concurrently, he directed the State of Illinois funded I-WIRE optical network project, deploying dark fiber and transport infrastructure to ten institutions in Illinois. I-WIRE today provides over 200 Gb/s of lambda and dark fiber resources to major projects including TeraGrid, the Starlight international optical network hub, Optiputer, and ESnet.

Prior to joining Argonne in 2000, Charlie was Chief Technology Officer at the National Center for Supercomputing Applications (NCSA). As part of the original team that established NCSA in 1985, Charlie participated in design,

deployment, and evolution of NSFNET, which was one of several early national networks that collectively evolved into today's Internet. Beginning in 1992 his team designed and operated NCSA's web infrastructure during the exponential growth of the web following NCSA's release of the Mosaic web browser.

Arrietta Chakos

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Arrietta Chakos, Policy Advisor, is an expert in urban disaster resilience, risk reduction and public policy consultation. Her professional summary includes: public policy consulting on urban resilience, disaster readiness and climate change adaptation; assessment and management of community and regional comprehensive risk; development of culturally-appropriate hazard mitigation and recovery solutions; executive-level experience in local government management and public finance; strategic program implementation in complex political and social environments.

Ms. Chakos consults with public sector groups, lifeline firms, local jurisdictions on urban policy and comprehensive resilience management. Recent clients include City & County of San Francisco; Association of Bay Area Governments; California Energy Commission; City of Palo Alto; and the University of California, Berkeley.

As a member of the Disasters Roundtable at the National Academies, she advises on national level resilience and disaster recovery efforts. Ms. Chakos currently advises on municipal and regional resilience planning initiatives, enterprise risk management, and energy assurance programs. She earned the MPA degree from the Harvard Kennedy School, Harvard University.

Cyndy Comerford

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Cynthia Comerford, MA is the Planning and Fiscal Policy Manager for the Environmental Health Section. Her work focuses on planning and developing programs to incorporate public health considerations into federal, state and local planning decisions. She directs the organizational, policy and fiscal functions of the Environmental Health Section, which includes developing and evaluating policy and budgets, analyzing proposed statutes, regulations, and legislation, and developing strategic plans. Cynthia is a key leader in the Department's Program on Health, Equity and Sustainability and supervises multifaceted assessments of environmental conditions and directs complex research and statistical mapping of environmental data. She has been a leader, individual contributor, and advocate for many San Francisco Open Data Initiatives across city departments, non-profits and technology organizations to promote the publication and use of open data sets. Cyndy is currently directing the department's Climate and Health Program, a health impact assessment (HIA) to improve the health of residents in Single Resident Occupancy (SROs) Hotels and working on efforts to reduce Human Trafficking. She is also involved in several initiatives to advance green building design to improve health outcomes. Cyndy serves on several national, regional and local advisory committees and currently represents the San Francisco Department of Public Health on the Municipal Green Building Task Force and the Mayor's Task Force on Human Trafficking.

Margaret Cowell

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Margaret Cowell, PhD is an Assistant Professor of Urban Affairs and Planning at Virginia Tech in Alexandria, Virginia. She received her Doctorate in City and Regional Planning from Cornell University and previously worked as an Assistant Regional Economist at the Buffalo Branch of the Federal Reserve Bank of New York. Dr. Cowell is a member of the John D. and Catherine T. MacArthur Foundation-funded research project, "Building Resilient Regions," a national analysis of metropolitan resilience in the face of various challenges. She is also part of a team of researchers assessing the potential of the homeland security economy for community economic development and revitalization at the St. Elizabeth's Hospital site in Southeast Washington, DC. Other recent research endeavors include several publications on deindustrializing regions across the United States, regional resilience, and polycentrism. Dr. Cowell's research has been funded by the MacArthur Foundation, National Association of Counties, and the United States Economic Development Administration.

Lynn Goldstein
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Lynn A. Goldstein is the Chief Data Officer at CUSP. Prior to joining NYU, Lynn was the Chief Privacy Officer and Privacy General Counsel for JPMorgan Chase from 2004 to 2013 and was the Chief Privacy Officer for Bank One from 2003 to 2004. From 2001 to 2004, Lynn was General Counsel for Bank One's credit card company, and from 1983 to 2001, she was Head of Litigation for Bank One, First Chicago NBD and First Chicago. Prior to joining JPMorgan Chase and predecessor entities, Lynn was in private practice and clerked for a federal judge. Lynn is an attorney and a Certified Information Privacy Professional and a frequent speaker on privacy topics.

Steven Gray
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Steven Gray joined CASA in September 2009, working as part of the NeISS project which aims to provide a platform to meet the demand for powerful simulation tools by social scientists, public and private sector policymakers. Since then he has designed and built various systems at CASA such as Tweet-o-Meter, QRator, Tall Tales and is a regular presenter on The Global Lab podcast.

Previously, Steve worked at the University of Glasgow as a Research Assistant with the Glasgow Interaction and Systems Group (GIST - Computing Science) as part of the EPSRC funded Open Interface project.

His current research interests include Human Computer Interaction, mobile development, accessible web development with a focus on Social Media, Web based Mapping and Ubiquitous Computing.

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John (Jack) Harrald is the Associate Director for the Global Forum on Urban and Regional Resilience at the Virginia Tech. He is the Director Emeritus of The George Washington University Institute for Crisis, Disaster, and Risk Management. Dr. Harrald is a member and Chair of the National Research Council Disasters Roundtable Steering Committee. He was the founding Executive Editor of the electronic Journal of Homeland Security and Emergency Management and is the immediate Past President, The International Emergency Management Society (TIEMS). He has been engaged in the fields of emergency and crisis management and maritime safety and security and as a researcher in his academic career and as a practitioner during his 22 year career as a U.S. Coast Guard officer, retiring in the grade of Captain. Dr. Harrald received his B.S. from the U.S. Coast Guard Academy, a M.A.L.S. from Wesleyan University, a M.S. from the Massachusetts Institute of Technology where he was an Alfred P. Sloan Fellow, and an MBA and Ph.D. from Rensselaer Polytechnic Institute.

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Sallie Keller, Ph.D., is professor of statistics and director of the Social and Decision Analytics Laboratory within the Virginia Bioinformatics Institute at Virginia Tech. Formerly she was professor of statistics at University of Waterloo and Academic Vice-President and Provost. Previously, she was the director of the IDA Science and Technology Policy Institute in Washington, D.C. In addition, Dr. Keller was professor of statistics and the William and Stephanie Sick Dean of Engineering at Rice University. Her other appointments include head of the Statistical Sciences group at Los Alamos National Laboratory, professor and director of graduate studies in the Department of Statistics at Kansas State University, and statistics program director at the National Science Foundation. Dr. Keller has served as a member of the National Academy of Sciences Board on Mathematical Sciences and Their Applications, has chaired the Committee on Applied and Theoretical Statistics, and is currently a member of the Committee on National Statistics. Her areas of research are uncertainty quantification, computational and graphical statistics and related software and modeling techniques, and data access and confidentiality. She is a national associate of the National Academy of Sciences, fellow of the American Association for the Advancement of Science, elected member of the International Statistics Institute, and member of the JASON advisory group. She is also a Fellow and past president of the American Statistical Association. She holds a Ph.D. in statistics from the Iowa State University of Science and Technology.

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Paul Knox is Co-Director of the Global Forum and is also a University Distinguished Professor and Senior Fellow for International Advancement, reporting directly to the university President. Between 1997 and 2006 Dr. Knox served as Dean of the College of Architecture and Urban Studies. In 2009 he served as Director of the Virginia Bioinformatics Institute. Recent books include *Palimpsests: Biographies of 50 City Districts* (BirkhäuserVerlag, Basel, 2012), *Urbanization* (3rd ed., Prentice Hall, 2011), *Cities and Design* (Routledge, 2010), *Small Town Sustainability* (BirkhäuserVerlag, Basel, 2009), and *Metroburbia, USA* (Rutgers University Press, 2008). He is a member of the editorial board of seven international journals and has served as Co-Editor of *Environment and Planning A*, Co-Editor of the *Journal of Urban Affairs*, and book review editor for *Environment & Planning C: Government & Policy*. He is a Trustee Emeritus of the Virginia Center for Architecture and a member of Virginia Tech's *Ut Prosim* Society. Knox has received numerous honors and awards, including the founding National Honor Roll of the Urban Affairs Association, the 2008 Distinguished Scholarship Award of the Association of American Geographers, the Textbook Excellence Award for the Humanities and Social Sciences, Text and Academic Authors Association, for *World Regions in Global Context: Peoples, Places, and Environments*, with Sallie Marston and Diana Liverman in 2005; honorary membership in the American Institute of Architects, for services to the profession in 2000; the Textbook Excellence Award for the Humanities and Social Sciences, Text and Academic Authors Association, for *Human Geography*, with Sallie Marston in 1999; the Association of Collegiate Schools of Architecture Service Award in 1999; and the Virginia Social Science Association Scholar Award "For Expanding Horizons of Knowledge in Geography" in 1998. Dr. Knox may be contacted at knox@vt.edu

Reinhard Königreinhard.koenig@arch.ethz.ch

Reinhard König studied architecture and urban planning. He completed his PhD thesis in 2009 at the University of Karlsruhe. Dr. König has worked as a research assistant and appointed Interim Professor of the Chair for Computer Science in Architecture at Bauhaus-University Weimar. He heads research projects on the complexity of urban systems and societies, the understanding of cities by means of agent based models and cellular automata as well as the development of evolutionary design methods. Current research interests of Reinhard König are applicability of multi-criteria optimisation techniques for planning problems and correlations of computed measures of spatial configurations with human cognition and usage of space

Michael Meitmeit-michael@norc.org

Michael Meit serves as Program Area Director in NORC's Public Health Research department and as Co-Director of the NORC Walsh Center for Rural Health Analysis. He is responsible for NORC projects in the areas of rural health, public health systems research, and public health preparedness. He has recently led efforts to develop rural preparedness modeling and planning tools focused on urban-to-rural evacuation as well as evaluations of rural community-based health activities and tribal health professions training programs; he has also led public health systems research projects in the areas of accreditation, performance improvement, and financing.

Meit has nearly 20 years of experience in public health systems and rural health. His experience includes work at both the state and national levels, first with the Pennsylvania Department of Health and then with the National Association of County and City Health Officials (NACCHO) in Washington, D.C. Following his tenure at NACCHO, he served as the founding director of the University of Pittsburgh Center for Rural Health Practice and as the co-director for rural preparedness for the University of Pittsburgh Center for Public Health Preparedness. Meit served on the National Advisory Committee for Rural Health and Human Services from 2004 to 2008, and serves on the boards of directors for the National Rural Health Association and the Maryland Rural Health Association.

Peter Nuo

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Mr. Peter Nõu, is Program Manager at VINNOVA's Services and IT Industry Department. He has a PhD in Engineering Physics and Computational Dynamics from Stockholm Royal Institute of Technology (KTH) and University of Florida, Gainesville. Prior to joining VINNOVA in January of 2009, Mr. Nõu has 15+ years of professional experience in Applied IT Management and CIO positions in various industries, as well as in product development and innovation management roles. Early in his career, Mr. Nõu worked at the Swedish Office for Science and Technology at the Swedish Consulate of San Francisco, CA, US.

Smart and Sustainable Cities and Information Society are two domains within the Vinnova grants program 'Societal Challenge-Driven Innovation' [<http://www.vinnova.se/en/Our-activities/Cross-border-co-operation/Challenge-driven-Innovation/>] program where he is most active. In the International arena, Mr. Peter Nõu is Swedish National representative in the EU 'Future Internet Forum', where European core IT sector research is challenged and put to use in various societal application areas. His professional focus has been the potential for productivity gains that modern IT based systems approaches facilitates, particularly at the intersection between different industries. Lately, different aspects of and approaches in Big Data and Internet of Things has entered into almost all applications Vinnova receive.

Stephanie Shipp

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Stephanie Shipp, Ph.D., is the deputy director and research professor at the Social and Decision Analytics Laboratory (SDAL) at the Virginia Bioinformatics Laboratory at Virginia Tech. The goal of SDAL is to advance the development of statistical methodology and tools for using big data to address social science policy questions quantitatively. Dr. Shipp's work spans topics related to innovation and competitiveness with recent emphasis on creation of smart cities, use of big data to advance policy, social network analysis and evaluation of education grant programs, advanced manufacturing, the role of federal laboratories, and funding of high-risk/high-reward research. From 2007 to 2013, she was a senior researcher at the Science and Technology Policy Institute, where she led studies on advanced manufacturing, innovation and competitiveness, technology transfer at federal laboratories, big data, evaluation of public health programs, and evaluation of education programs. As a member of the federal Senior Executive Service from 2001 to 2008, Dr. Shipp was the director of the Economic Assessment Office in the Advanced Technology Program at the National Institute of Standards and Technology. Previously, she led economic and statistical programs at the Census Bureau, the Bureau of Labor Statistics, and the Federal Reserve Board. She is a fellow of the American Statistical Association (ASA) and has held several leadership positions within ASA. She was a member of the international advisory board for *VerketFörInnovationssystem*(VINNOVA), Sweden's innovation agency. She led an expert panel to evaluate the Swedish Research Council's Linnaeus Grants in 2012 and will do so again in 2014. She has a Ph.D. in economics from The George Washington University.