NATIONAL INFRASTRUCTURE FOR COMMUNITY STATISTICS
NICS CoP RESEARCH SYMPOSIUM
"The Emerging Tool Kit for NICS"
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SPEAKER BIOGRAPHIES

John Abowd is the Edmund Ezra Day Professor of Industrial and Labor Relations at Cornell University, Director of the Cornell Institute for Social and Economic Research (CISER), Distinguished Senior Research Fellow at the United States Census Bureau, Research Associate at the National Bureau of Economic Research (NBER, Cambridge, MA), Research Affiliate at the Centre de Recherche en Economie et Statistique (CREST, Paris, France), and Research Fellow at IZA (Institute for Labor Economics, Bonn, Germany). He has taught and done research at Cornell University since 1987, including seven years on the faculty of the Johnson Graduate School of Management. Professor Abowd's current research focuses on the creation and use of linked, longitudinal data on employees and employers. In his work at the Census Bureau he provides scientific leadership for the Longitudinal Employer-Household Dynamics Program, which is creating research data integrating demographic surveys, economic surveys, and administrative data. His original and ongoing research on this subject uses data created at the Institut National de la Statistique et des Etudes Economiques (INSEE), the French national statistical institute. Prof. Abowd's other research interests include statistical methods for confidentiality protection of micro data; international comparisons of labor market outcomes; executive compensation, again, with a focus on international comparisons; bargaining and other wage-setting institutions; and the econometric tools of labor market analysis. Prof. Abowd is currently the Principal Investigator or Co-Principal Investigator for multiyear grants and contracts from the National Science Foundation, the National Institute on Aging, the Alfred P. Sloan Foundation, and the U.S. Census Bureau. He has published articles in the *American Economic Review, Econometrica*, the *Review of Economics and Statistics*, the *Quarterly Journal of Economics*, the *Journal of the American Statistical Association*, and other major economics and statistics journals. Prof. Abowd was on the faculty at Princeton University, the University of Chicago, and the Massachusetts Institute of Technology before coming to Cornell. When he is not traveling to Washington and Paris for his research program, he enjoys polishing his French and playing many different sports.

Lawrence Brandt joined the National Science Foundation (NSF) in 1976 as a contracts and grants office buying NSF's mainframe and other computing needs and managing NSF's large contract for logistic support in Antarctica. In 1984 he joined the NSF's Office of Advanced Scientific Computing and stayed with the Supercomputer Centers program for 14 years as a program manager. While working with the supercomputer centers, Larry made several small grants to the software development team at the University of Illinois Supercomputing Center. The team released the first multimedia Web browser (Mosaic) and a related server on an unsuspecting world in January of 1993. To respond to the demand of Mosaic users for further and faster Mosaic development, Larry put together a consortium of interested Federal agencies; 15 agencies agreed to provide funding through NSF. Generalizing from that experience, for the past seven years, Larry has managed the NSF's Digital Government research program, which funds collaboration between university-based researchers and government agencies. The program crosses all computer and information science disciplines and all government domains and missions, from international and Federal agencies to

local levels. The program supports primarily technical projects, but is increasing its emphasis on projects from the social sciences, for example exploring the impact of IT on government organizations, the impact of IT on democracy, and e-voting. The program has funded over 100 research grants, with a current budget of about $10M per year. More about the program can be found at the web site, www.digitalgovernment.org.

Alan Borning is a professor in the Department of Computer Science & Engineering at the University of Washington. He is also co-director of the Center for Urban Simulation and Policy Analysis, adjunct professor in the Information School, and a member of the Interdisciplinary PhD program in Urban Design and Planning (all at the University of Washington), and a Fellow of the Association for Computing Machinery. He received a BA degree from Reed College in mathematics 1971, and a PhD from Stanford University in Computer Science in 1979. After spending a year in Edinburgh, he moved to the University of Washington in 1980. His current research interests are in human-computer interaction, particularly as applied to land use, transportation, and environmental modeling, and in integrating considerations of human values with computer system design. He has also done work in constraint-based languages and systems, other aspects of human-computer interaction, and in object-oriented programming.

Noshir Contractor (www.uiuc.edu/ph/www/nosh) is a Professor in the Department of Speech Communication, Department of Psychology, and the Coordinated Science Laboratory at the University of Illinois at Urbana-Champaign. He is a Research Affiliate of the Beckman Institute for Advanced Science and Technology, Director of the *Science of Networks in Communities* (SONIC) Group at the National Center for Supercomputing Applications, and Co-Director of the *Age of Networks* Initiative at the Center for Advanced Study at the University of Illinois at Urbana-Champaign. His research program, funded continuously for the past decade by major grants from the U.S. National Science Foundation, is investigating factors that lead to the formation, maintenance, and dissolution of dynamically linked knowledge networks in profit, non-profit, government as well as non-government agencies, involved in enabling emergency response networks, transnational immigrant networks, food safety networks, public health networks, environmental engineering networks, community networks, and other networks in the public interest.

His book titled "*Theories of Communication Networks*" (co-authored with Professor Peter Monge and published by Oxford University Press) received the 2003 Book of the Year award from the Organizational Communication Division of the National Communication Association. He is the lead developer of *IKNOW* (Inquiring Knowledge Networks On the Web), a community-ware web-based software (http://iknow.spcomm.uiuc.edu) and *Blanche*, a software program to simulate the dynamics of social networks (http://csu1.spcomm.uiuc.edu/Projects/Teclab/Blanche/).

Sharon Dawes is Associate Professor of Public Administration and Policy and Director of the university-wide Center for Technology in Government (CTG) at the University at Albany/SUNY. Her current research interests include information strategy and management in the public sector, government information policy, interorganizational and intergovernmental information sharing and integration, and collaboration across organizational boundaries.

Prof. Dawes led the development of UAlbany's Government Information Strategy and Management curriculum which focuses on the policy, management, and technology dimensions of information

and technology use in public management, program design, and service delivery. As Director of CTG, she is responsible for applied research programs, projects, and public-private-academic partnerships which encourage innovation, reduce costs, and enhance the quality of government operations and public services. In 1995, the Center was named an *Innovations in American Government Award* winner. Its projects are funded by New York State, the National Science Foundation, the US Dept. of Justice, and others.

A Fellow of the National Academy of Public Administration, Dawes holds a Ph.D. in Public Administration from the Rockefeller College of Public Affairs and Policy at the University at Albany.

Marshall DeBerry has been employed as a statistician at the Bureau of Justice Statistics (BJS) in Washington, DC, since 1984. Mr. DeBerry has been involved in a number of information integration initiatives both within the Department of Justice and across government, and is currently on detail from BJS as the Program Manager for the FedStats web site, the gateway portal to the Federal statistical system. While at BJS, Mr. DeBerry has been involved in efforts to gauge the nature and extent of hate crimes, crimes against the disabled, and the development of a survey instrument to better measure the nature and extent of cybercrime in the United States. As Program Manager of FedStats, Mr. DeBerry works with the Federal statistical community to ensure that statistical information is available to the public via the FedStats web site.

Prior to coming to BJS, Mr. DeBerry was employed at the Bureau of the Census from 1976 through 1984, and was involved in the analysis and preparation of information obtained from the National Crime Victimization Survey (NCVS). He has a Bachelor of Arts degree from Virginia Tech and a Master of Science degree from Syracuse University.

Valerie Gregg is an independent consultant on digital government research issues and community building. She also holds a part-time position at the University of Southern California's Information Sciences Institute. Until January 2005, she was co-program manager for the U.S. National Science Foundation's Digital Government Research Program, there on a long- term appointment from the U.S. Census Bureau to the NSF Computing and Information Sciences and Engineering Directorate. Over her 30 year Federal career, she managed numerous inter-agency re-engineering projects, starting with an intergovernmental mapping project designed to update American Indian Reservation boundaries using low-level aerial photography, to leading teams responsible for redesigning various Census and survey processing, tabulation and publication systems. In 1994, Gregg managed a Census team that built the Bureau's first web site. Starting in 1995, she was actively involved in the strategic management of the Digital Government Consortium (formerly known as the Federal WWW Consortium). In addition to these activities, Ms. Gregg was a leading member of the U.S. Government's Interagency Council for Statistical Policy's Task Force for "One-Stop Shopping" for Federal Statistics.

Eduard Hovy is a Fellow of the Information Sciences Institute (ISI) of the University of Southern California as well as the Director of its Natural Language Research Group. He is also Director for Research of the Digital Government Research Center (DGRC), Deputy Director of ISI's Intelligent Systems Division, as well as a research associate professor of the Computer Science Departments of USC and of the University of Waterloo in Canada. He completed a Ph.D. in Computer Science (Artificial Intelligence) at Yale University in 1987. His research focuses on two principal areas: Natural Language Processing (NLP) and Digital Government. Within NLP, he has worked

on automated text summarization, question answering, text planning and generation, the semi-automated construction of large lexicons and ontologies, machine translation, and information extraction. Dr. Hovy is the author or co-editor of five books and over 150 technical articles. In 2001 Dr. Hovy served as President of the Association for Computational Linguistics (ACL) and in 2001-03 as President of the International Association of Machine Translation (IAMT). Dr. Hovy regularly co-teaches a course in the Master's Degree Program in Computational Linguistics at the University of Southern California, as well as occasional short courses on MT and other topics at universities and conferences. He has served on the Ph.D. and M.S. committees for students from USC, Carnegie Mellon University, the Universities of Toronto, Karlsruhe, Pennsylvania, Stockholm, Waterloo, Nijmegen, Pretoria, and Ho Chi Minh City. Regarding the DG community, Dr. Hovy was a founding member of the NSF's Digital Government Conference series dg.o (see: http://www.dgrc.org/conferences/). He served as program chair in 2001 and 2002 and as co-conference chair in 2003 and 2004. In addition, Dr. Hovy is a founding member of the Digital Government Research Center (DGRC; see http://www.dgrc.org/) located at the University of Southern California and Columbia University, and has served as Director for Research since its inception.   He has participated in discussions at USC to create a university-wide Center for Digital Government.

For more information please see:
   http://www.isi.edu/natural-language/nlp-at-isi.html
   http://www.isi.edu/natural-language/people/hovy.html

Alan Karr is Director of the National Institute of Statistical Sciences (NISS), a position he has held since 2000; prior to that he was Associate Director (1992-2000). He is also Professor of Statistics & Operations Research and Biostatistics at the University of North Carolina at Chapel Hill (since 1993), as well as Associate Director of the Statistical and Applied Mathematical Sciences Institute (SAMSI). Before coming to North Carolina, he was Professor of Mathematical Sciences and Associate Dean of the School of Engineering at Johns Hopkins.

His research activities are cross-disciplinary collaborations involving statistics and such other fields as data confidentiality, data integration, data quality, software engineering, information technology, education statistics, transportation, materials science and E-commerce. He is the author of 3 books and more than 100 scientific papers. Karr is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics, a member of the Council of the latter, a member of the Board of Governors of the Interface Foundation of North America, and served as a member of the Army Science Board from 1990 to 1996.

Tom Kingsley is a senior researcher and research manager in housing, urban policy, and governance issues at the Urban Institute, and is the author of numerous publications in those fields. He served as the Director of the Institute's Center for Public Finance and Housing from 1986 through 1997. He currently directs the National Neighborhood Indicators Partnership--an initiative to further the development of advanced data systems for policy analysis and community building in U.S. cities. He also directs projects using national datasets to analyze neighborhood change across U.S. cities and to develop decision support tools to help guide land market development in five cities. In the 1990s, Mr. Kingsley was co-director of the Ford Foundation sponsored Urban Opportunity Program, which produced four books on urban policy issues in America and worked with HUD Secretary Henry Cisneros on a series of essays on the future of U.S. cities. He has also directed several other major policy research programs, including: testing the market effects of housing

voucher programs (1974-80, the HUD sponsored Housing Assistance Supply Experiment); analyzing the structure and potentials of metropolitan Cleveland's economy (1980-82, for the Cleveland Foundation); and preparing a national urban development strategy for Indonesia (1982-85, for the United Nations). He previously served as Director of the Rand Corporation's Housing and Urban Policy Program and as Assistant Administrator for the New York City Housing and Development Administration. He has also taught on the faculties of the graduate urban planning programs at the University of California, Berkeley, and the University of Southern California.

Alan MacEachren is Professor of Geography and Director of the GeoVISTA Center (www.GeoVISTA.psu.edu) at Pennsylvania State University. He received a PhD from University of Kansas in 1979 and held faculty positions at Virginia Tech and the University of Colorado before joining Penn State in 1985.

Dr. MacEachren is chair of the International Cartographic Association's Commission on Visualization and Virtual Environments. He is also an associate editor of *Information Visualization,* was a member of the 2001-2003 National Research Council (NRC) Computer Science and Telecommunications Board *Committee on the Intersections Between Geospatial Information and Information Technology* (which published their report, *IT Roadmap to a Geospatial Future,* in spring 2003) and the program committee for a workshop on Visualizing Uncertain Information organized by the NRC Board of Mathematical Sciences and Their Applications (BMSA) Committee of Applied and Theoretical Statistics (CATS). He is a current member of the DHS, National Visual Analytics Center (NVAC) Committee to prepare the NVAC research agenda report.

Dr. MacEachren's research foci include: geographic visualization, cartography, geocollaboration, interfaces to geospatial information technologies, human spatial cognition, human-centered systems, and user-centered design. He has been the Principle investigator on two National Science Foundation Digital Government grants (one that concluded in early 2005 and the other running from 2003-2006) – these projects have involved interactions with 17 different government agencies.

Dr. MacEachren is author of Some Truth with Maps (AAG, 1994) and *How Maps Work: Representation, Visualization and Design* (Guilford Press, 1995) as well as co-editor of 2 additional books (the latest is *Exploring Geovisualization*, Elsevier, 2005) and multiple journal special issues, including*,* a special *Geovisualization* issue of *Cartography and Geographic Information Science*, Jan. 2001. In 2004, Dr. MacEachren was named to a 3-year Miller Chair of Geography at Penn State University and received the award for Exceptional Scholarly Contributions to the Practice of Cartography, Canadian Cartographic Association, 2004.

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Brand Niemann received his Ph.D. in Meteorology and Air Pollution Science from the University of Utah and has been with the U.S. Environmental Protection Agency for 24 years and is currently a Computer Scientist and XML and Web Services Specialist in the Office of Environmental Information. He has received awards and recognitions for his work from the U.S. EPA, the U.S. Department of the Interior, the US Geological Survey, LOTUS, and ComputerWorld-Smithsonian. He is the recipient of Vice President Gore's Hammer Award to teams of federal employees and their partners whose work resulted in a government that works better and costs less. He lead a team that

was recognized by OMB Associate Director for Information Technology and E-Government, Mark Forman, and the Quad Council with a Special Award for Innovation in the 2002 CIO Showcase of Excellence for their use of XML in a distributed content network and use of VoiceXML in providing universal access to emergency response information. During 2002-2003, he was chair of the CIO Council's (Architecture and Infrastructure Committee) XML Web Services Working Group (http://web-services.gov) which graduated to become the Emerging Components Activity (http://componenttechnology.org) of the Emerging Technology Subcommittee of the CIO Council's Architecture and Infrastructure Committee. He was recognized with the Emerging Technology / Standards Leadership Award at the SecureE-Biz.Net Summit 2003, from Mark Forman, Associate Director, IT and eGovernment, OMB, and David McClure, VP e-Gov, Council for Excellence in Government: "for ushering in new technology to allow us to conduct e-Business securely to further implement the President's Management Agenda". He was also recently recognized with the EPA Bronze Medal "for outstanding collaboration on EPA's Geospatial Blueprint on the EPA Geospatial Team which outlines the enterprise approach for acquiring, managing, and deploying geospatial data and tools" by EPA's Chief Information Officer, Kim Nelson. He is currently the chair the CIO Council's (Best Practices Committee-Knowledge Management Working Group, http://km.gov) Semantic (Web Services) Interoperability Community of Practice (SICoP) (http://web-services.gov). He currently serves as a member of the E-Gov Institute and FCW Events Program Advisory Board and the XML Conference Planning Committee (2004-2005). He is a member of the EPA Enterprise Architecture Team and can be contacted at niemann.brand@epa.gov.

John Sperling is Manager of Geographic Information Analysis in HUD's Office of Policy Development and Research. He represents HUD on the Federal Geographic Data Committee (FGDC) and the Geospatial One-Stop (Presidential Management Agenda) Initiative and has been active on a number of interagency initiatives. During the past year, he helped develop and fund a MapStats for Cities application through an interagency agreement with the Census Bureau and FedStats that provides easy access to data from multiple federal agencies and quick links to the HUD State of the Cities Data System. Dr. Sperling has authored and reviewed several articles on geographic and statistical issues for several journals and currently serves on the Article Review Board of the Urban and Regional Information Systems Association (URISA) Journal. Prior to joining HUD, he was a leader in the development and maintenance of the Census Bureau's nationwide geographic database called TIGER, which played a major role in the early growth of the GIS industry. Dr. Sperling has over 20 years of experience in the GIS field and has held positions in state and local government, the private sector, and academia.
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Cindy Taeuber is the principal of CMTaeuber & Associates and a Research Associate at the Jacob France Institute at the University of Baltimore where she is responsible for managing and coordinating projects undertaken by the Institute in the area of community statistics and data produced by federal statistical agencies. With 30 years of experience at the U.S. Census Bureau, her work encompassed the development of statistics to address public policy issues and the transformation of demographic and economic data into knowledge for decision-makers. Ms. Taeuber is an acknowledged expert on decennial census data, the American Community Survey, the Local Employment Dynamics program, and the uses of administrative records in community information systems. Ms. Taeuber authored major books and publications on diverse demographic and economic topics including the older population, older workers, and women in the American

economy. She holds a Master's degree in demography from Georgetown University and a Bachelor's degree in political science from the University of Texas.

Susan Turnbull is a senior program advisor in the Office Intergovernmental Solutions (OIS) within the Office of Citizen Services and Communications (OCSC) at the US General Services Administration. OIS collaborates with Federal, state, local, and foreign government and international organizations to establish strong partnerships that advance goals for a citizen-centric government.

Ms. Turnbull is the co-chair, Emerging Technology Subcommittee, Architecture and Infrastructure Committee (AIC) of the Chief Information Officer's Council (http://www.cio.gov). The AIC develops policy, direction, and guidance for the Federal Enterprise Architecture to drive business process improvement, investment management, and technical decisions. The Emerging Technology Subcommittee develops processes and procedures to support the discovery and assessment of maturing technology offerings responsive to E-government goals.

She is also co-chair, Social, Economic and Workforce Implications of IT and IT Workforce Development (SEW) Coordinating Group of the Subcommittee on Networking and Information Technology Research and Development (NITRD) of the National Science and Technology Council and its Committee on Technology (http://www.itrd.gov). The NITRD serves as the internal deliberative organization of the NSTC for IT R&D policy, program, and budget guidance for the Executive Branch.

Ms. Turnbull is also the AIC representative to the Data Reference Model Working Group, led by the Department of Homeland Security. She has led monthly open collaborative expedition workshops (http://www.gsa.gov/collaborate), for the past three years. The open workshops, sponsored by GSA, AIC, and the NITRD allow participants to explore shared purposes toward seamless government. Participants are drawn from governments, industry, academia, non-government organizations and Communities of Practice. They value this "frontier outpost" as a means to open up quality conversations, augmented by information technology, that leverage the collaborative capacity of united and diverse Americans seeking to discover, frame, and act on national potentials.

A key finding of the past year, is the need to apply emerging technology (web services, grid computing, and semantic web) to tune up the innovation pipeline with better linkages among business incubators (state economic development programs), innovation diffusion networks (SBIR, angel investors, etc.) and business intelligence centers with quality information about e-government and e-commerce gaps. Many of the agile business components surfacing in the small business innovation world are not easily discovered by e-government managers, resulting in lost or delayed opportunities for both parties.

Ms. Turnbull was the founder of the GSA Center for Information Technology Accommodation (CITA) that now guides implementation of Federal legislation (Section 508) on equitable access to information resources by people with disabilities. She has received numerous awards for her creativity and leadership in advancing universal access.

Ms. Turnbull holds a bachelor's degree from the University of Michigan and a master's degree from the University of Wisconsin-Madison