

# UCGIS Nominations 2005

January 25, 2005

## President Elect position:

### JOHN P. WILSON

([jpwilson@usc.edu](mailto:jpwilson@usc.edu))

(<http://www.usc.edu/assets/college/faculty/profiles/162.html>)



John P. Wilson is Professor of Geography and Director of the GIS Research Laboratory at the University of Southern California. He received his LLB in Law from the University of Canterbury in 1976, his BS in Geography from the University of Canterbury in 1978, his MS in Geography from the University of Canterbury in 1979, and his PhD in Geography from the University of Toronto in 1986. After 13 years at Montana State University, including seven years as Director of the Geographic Information and Analysis Center, he

moved to Los Angeles in 1997. He has served as the Managing Editor of *Transactions in GIS* from its inception in 1996, and currently serves on the editorial boards of two other journals and book series. His major publications include *Terrain Analysis: Principles and Applications* (2000) and the *Handbook of Geographic Information Science* (2005), and he is the author of some 90 scientific papers on topics ranging from soil erosion and groundwater pollution problems to urban growth modeling and the environmental and social characteristics of places and their impacts on selected health outcomes. He is currently a member of the Board of Directors and Chair of the Research Committee for the University Consortium of Geographic Information Science and he is also an active participant in the UNIGIS International Network, a worldwide consortium of 20+ institutions collaborating on the development and use of geographic information science learning materials for distance and distributed learning. His current research interests center on geographic information science tool development, spatial analysis, and environmental modeling.

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## DAWN WRIGHT

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(<http://dusk.geo.orst.edu>)



Dawn Wright (a.k.a. "Deepsea Dawn") is lead UCGIS delegate from Oregon State University, where she is Professor of Geography and Oceanography, and the director of the Davey Jones' Locker Marine GIS/Seafloor Mapping Laboratory. Her past service to the UCGIS includes Board of Directors, Chair of Communications, Local Arrangements Chair for the UCGIS Summer Assembly in Oregon, Education Committee, Coordinator of the 2nd UCGIS Virtual Seminar, Chair of the Distance

Education Working Group, twice on the presentation team of a UCGIS Congressional Breakfast, and contributor to a chapter in the recent UCGIS book, "A Research Agenda for Geographic Information Science." She is currently on the Membership and Education Committees, and Vice-Chair of Communications.

Dawn's research interests include geographic information science, marine geography, tectonics of mid ocean ridges, and the processing and interpretation of high-resolution bathymetric, video, and underwater photographic images. She has completed oceanographic fieldwork (often with GIS) in some of the most geologically-active regions of the planet, including volcanoes under the Pacific, Atlantic and Indian Oceans, and has had 3 dives in the Alvin submersible. Dawn also serves on the editorial boards of the "International Journal of Geographical Information Science," "Transactions in GIS," and "Geospatial Solutions", and was a member of the National Academy of Sciences' National Needs for Coastal Mapping and Charting Committee. Her recent books include "Marine and Coastal Geographical Information Systems" (Taylor & Francis, 2000), "Undersea with GIS" (ESRI Press, 2002), and "Place Matters: Geospatial Tools for Marine Science, Conservation, and Management in the Pacific Northwest" (OSU Press, Spring 2005). She holds degrees from UCSB (Ph.D. in Physical Geography and Marine Geology), Texas A&M (M.S., Oceanography), and Wheaton College in Illinois (B.S., Geology).

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**2 Board Member Positions – 3-year term, expires 2/1/2008**

**1 Board Member Position – 1-year term, expires 2/1/2006**

## GREGORY ELMES

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(<http://www.geo.wvu.edu/~elmes/> )



Dr. Gregory Elmes is Professor of Geography at West Virginia University where he has taught and performed research for 25 years. He is co-director of the West Virginia State GIS Technical Center, the nexus for providing focus, direction and leadership to users of geographic information systems (GIS), digital mapping and remote sensing within the State of West Virginia. He is the chair of the IGU Commission on Geographical Information Science. He was President of the University Consortium for Geographic Information Science (UCGIS) from 1998 – 2000 and has been chair of the Association of American Geographers' GIS and Energy and Environment specialty groups.

In 1986, while on sabbatical leave, he was awarded one of the first Master of Science in GIS degrees offered at the University of Edinburgh and subsequently brought that experience to bear on his department's research and teaching at WVU. More recently he has been visiting Professor at the University of Linköping, Sweden, and at the University of Rome, La Sapienza. He is currently pursuing research in space-time representations for use in health geography and in emergency response and management. He is part of a team investigating GIS and society implications of digital earth, and is investigating the contribution of GISc. to forensic science. He has recent publications on GIS and Society and GIS in Public Health. Previously, with the USDA Forest Service and multidisciplinary teams from Penn State and Virginia Tech, he helped develop GYPSES; a GIS decision support system for use for gypsy moth, risk / hazard characterization and management in Eastern forests. From 1995 -2000, he was a member of a team that created a series of atlases on heart disease mortality, now available on the Internet. Other current work includes research on the relationship of geographical accessibility to human perception and affective behavior.

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## FRANCIS HARVEY

([fharvey@umn.edu](mailto:fharvey@umn.edu))

(<http://www.geog.umn.edu/Faculty/Harvey.html>)



Dr. Francis Harvey's research encompasses multiple facets of geographic information science, ranging from historical developments to overlay algorithms, with an emphasis on organizational studies of GIS data sharing. His publications have covered a variety of topics including cultural differences in the development of GIS, improved algorithms for overlay, and GIS certification. Previous projects have examined the relationships between private, public, and education sector actors. Recently funded research (with Dr. David Tulloch) focuses on potentials and difficulties for developing the National Spatial Data Infrastructure (NSDI) among local governments. This research has identified fundamental gaps between concepts of data sharing and local government practices. Currently he is studying the modernization of the Polish cadastral infrastructure and its role in agrarian reform following accession to the European Union.

Dr. Harvey serves as editorial board member for the International Journal of Geographic Information Science, URISA Journal, and Cartographica. He is a member of the American Association of Geographers (AAG), Geographic Information Systems Speciality Group, the Association for Computing Machinery (ACM) Computers and Society (SIGCAS) special interest group, and Computer Professionals for Social Responsibility (CPSR). He has taught GIS in Germany, Switzerland, Syria, Malta, and United States and has served as Vice-Chair of the UCGIS education committee since 2000. He also serves on the AAG's Geographic Information Standards Committee. Currently, Dr. Harvey is teaching in the University of Minnesota's geography and Master's of Geographic Information Science programs and will be an instructor in the Fall 2005 UCGIS virtual seminar. He has received numerous grants and awards including National Science Foundation support for his work on semantic interoperability and Federal Geographic Data Committee support for research into US local government geographic information sharing and coordination.

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## MEI-PO KWAN

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Mei-Po Kwan is Professor and Chair of Graduate Studies in the Department of Geography at the Ohio State University (OSU). Her research interests include 3D geovisualization, 3D network data models, geocomputational algorithms for evaluating individual space-time accessibility and qualitative GIS. Her work also seeks to integrate GIS methods with substantive research. Kwan was the coordinator and one of the instructors of the annual CSISS (Center for Spatially Integrated Social Science) workshops on “Accessibility in Space and Time: A GIS Approach” from 2001 to 2003. She is the Principal Investigator for OSU for a multi-institution consortium entitled “Spatial Perspectives on Analysis for Curriculum Enhancement” (SPACE). Funded by the National Science Foundation, the consortium includes UCGIS as a partner and has launched a three-year program that centers on a series of professional development workshops. Kwan was an invited participant of the UCGIS-sponsored Homeland Security Workshop in November 2003. She has conducted research and published on homeland security issues from GIS perspectives.

The high priority of homeland security issues on the national research agenda means that this is an opportune moment for greatly increasing federal and public recognition of the value of GIScience in addressing significant national concerns (as the UCGIS Winter Meeting 2004 amply demonstrated). If I become a UCGIS board member, I will actively contribute to identifying important issues for the strategic planning and future of UCGIS. I will actively participate in the development of new research directions and opportunities for UCGIS. As a coordinator and an instructor of CSISS and SPACE workshops in the past four years, and as the PI for one of the partner institution (Ohio State University) of the SPACE program, I will continue to work together with CSISS and UCGIS in disseminating GIS-based spatial analytical methods to audiences in various social science disciplines. I will actively seek to promote the public profile and influence of UCGIS through these educational workshops and other activities.

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## PIOTR JANKOSKI

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(<http://geography.sdsu.edu/People/Faculty/jankowski.html>)



Piotr Jankowski received Ph.D. in Geography from the University of Washington in 1989 and M.Phil. in Econometrics and Operations Research from Poznan University of Economics in 1979. He is currently a professor of Geography at San Diego State University. Before joining San Diego State University he held faculty appointments in Geography at the University of Idaho and in Geoinformatics at the University of Muenster. His research and teaching areas include GIS, multiple criteria decision methods, and collaborative spatial decision support systems. He is the author and co-author of over 60 publications, a book, and several book chapters on topics of GIS, SDSS, and public-participation GIS. He is also a member of the editorial boards of the *Journal of Geographical Systems* and *Transactions in GIS*. During 1999 - 2001 he was the delegate of the University of Idaho to USGIS.

## D. SCOTT MACKAY

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Dr. Mackay obtained his Ph.D. in 1997 from the University of Toronto (Graduate Department of Civil Engineering). He was a faculty member in the Department of Forest Ecology and Management and with the Institute for Environmental Studies at UW-Madison before joining the Department of Geography at SUNY Buffalo in 2003. He is currently an Assistant Professor, researcher with the NCGIA, NSF IGERT GIScience faculty member, and Director of Graduate Studies for the Department of Geography. His research focuses on spatiotemporal variability of evapotranspiration in forests, hydroecological processes in watersheds, hydrological and ecological modeling, and spatial aggregation issues in process models. His research relies heavily on development of custom GIS tools, remote sensing analysis, spatial statistics, and numerical models. Dr. Mackay has published 23 refereed journal articles and numerous book chapters, given numerous invited lectures at universities, and received major funding from NASA, EPA, and NSF. Findings from one of his recent NASA-funded projects were featured on the cover of *Global Change Biology* (December 2002). He is currently an Associate Editor of *Water Resources Research*, an editorial board member of *Transactions in GIS*, and formerly an Associate Editor of *Journal of Hydrology*. Dr. Mackay has been an active member of UCGIS for many years, serving as a delegate for UW-Madison and for SUNY Buffalo, as a Board member (one-year term), and as current Chair of the Research Projects Committee.

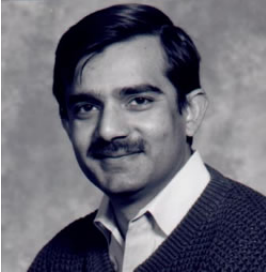
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## SHASHI SHEKHAR

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Shashi Shekhar is currently a Professor of Computer Science the University of Minnesota, Minneapolis, MN, USA. He was elected an IEEE fellow for contributions to spatial database storagemethods, data mining, and geographic information systems(GIS). He is serving as a member of twocommittees of the National Research Council National Academy of Sciences, namely, the committee on mapping sciences and the committee to review the basic and applied research at NationalGeo-spatial Intelligence Agency. He is also serving as a co-Editor-in-Chief of Geo-Informatica: An International Journal on Advances in Computer Sc. for GIS (ISSN 1384-6175); and a member of the steering committee of the ACM Intl. Conference on GIS. He has served as a member of the Boardof Directors of University Consortium on GIS (2003-2004), a member of the editorial boards of IEEE Transactions on Knowledge and Data Engineering, a member of the IEEE-CS Computer Science & Engineering Practice Board, a program co-chair of the ACM Intl. Workshop on Advances in Geographic Information Systems (1996), and a technical advisor to United Nations Development Program (UNDP), Environmental Systems Research Institute (ESRI), and other organizations. His research projects have been sponsored by the NSF, NASA, Army Research Laboratories, USDOT, FHWA, MN/DoT etc. He has co-authored a textbook on Spatial Databases (Prentice Hall, 2003, ISBN 0-13-017480-7) and has published over 150 research papers in peer-reviewed journals, books, and conferences, and workshops. He received a Ph.D. degree in Computer Science from the University of California (Berkeley, CA).