

2010 Federal Geospatial Summit
May 11 and 12, 2010
Silver Spring, MD



Speaker biographies

Ms. Juliana Blackwell, Director, NGS

Ms. Juliana P. Blackwell is the Director of NOAA's National Geodetic Survey. Ms. Blackwell moved into the Director's chair in January 2009 after serving as the Deputy Director and three years prior as chief of the National Geodetic Survey's Observation and Analysis Division where she managed a wide variety of geodetic activities. Prior to that assignment she successfully managed NOAA's height modernization program, which has improved the efficiency and accuracy of height information used in surveying, mapping and modeling nationwide.

Ms. Blackwell is a 1988 graduate of Tufts University where she earned a Bachelor of Science degree in mathematics. She received a master's in business administration from the University of Maryland's Robert H. Smith School of Business in 2007.

Ms. Blackwell joined NOAA in 1990 as an officer of the NOAA Corps. In her NOAA Corps career she served on the NOAA Ship *Ferrel* as a junior officer, and as fourth officer on board the NOAA Ship *Whiting* where she managed hydrographic survey operations prior to joining the National Geodetic Survey full time in 1996.

RADM (ret.) John Bossler, Ph.D, Former NGS and C&GS Director

John D. Bossler is a consultant and a former Director of the Center for Mapping at The Ohio State University (OSU) in Columbus, Ohio where he was also a Professor. The Center was launched with a NASA multi-year, multi-million dollar grant heavily leveraged with State, private industrial and University funds. At the Center Dr. Bossler accomplished research and wrote publications in all aspects of Geodesy, Global Positioning Systems, Remote Sensing and Geographic Information Systems. He has authored over 100 papers in the fields of geodesy, photogrammetry and geographic information systems. Prior to his position at the University, Dr. Bossler was Director of the Coast and Geodetic Survey, National Ocean Service, National Oceanic and Atmospheric Administration (NOAA) under the Department of Commerce, where he held the rank of Rear Admiral in the NOAA Commissioned Corps. While at NOAA, he received the NOAA Corps Commendation Medal, the organization's highest honor, and the Department of Commerce Gold Medal, the DOC's highest honor. As Director, he managed production of the Nation's nautical and aeronautical charts as well as geodetic products and engineering services. Bossler also served as Chief of NOAA's National Geodetic Survey (NGS) from 1981 to 1983, and directed the redefinition of the North American Datum (NAD 83) program.

Dr. Bossler is active in various national and international organizations. He is Past President and Fellow, American Congress on Surveying and Mapping; Fellow, American Geophysical Union (AGU); Fellow, American Society of Civil Engineers; Past President of GITA (Geographic Information Technology Association); Past President, Geodesy Section, AGU. He has served as Chairman, National Academy of Science/National Research Council (NAS/NRC) Advisory Committee on Mapping Science; and was a Board Member of the National Center for Geographic Information and Analysis. He served as the first President of the newly formed University Consortium of Geographic Information Science (UCGIS).

Mr. Dave Doyle, Chief Geodetic Surveyor, NGS

Dave Doyle joined the National Geodetic Survey in 1972, and currently holds the positions of chief geodetic surveyor. He is responsible for the development, technical design and management of plans and programs that enhance the United States National Spatial Reference System. He provides technical assistance in Geodesy to International, Federal, State and local surveying, mapping and GIS agencies. Since joining NGS his experiences have included all phases of geodetic triangulation, astronomic positioning, leveling, GPS data collection, data analysis, datum transformations, network adjustments, and data publication.

Dr. Dan Roman, Research Geodesist, NGS

Daniel R. Roman, Ph.D. (dan.roman@noaa.gov), has been a Research Geodesist with the National Geodetic Survey since 1999. He is the team lead for Geoid Modeling and Research as well as the Principal Investigator for the Gravity for Redefinition of the American Vertical Datum (GRAV-D) Project. He has participated in development of GEOID99, GEOID03, GEOID06, GEOID09 and associated models. He also leads the scientific effort towards a cm-level geoid height model that will replace NAVD 88 and serve as a future vertical datum. He has a B.S. from the University of Southern California in Geology (1985), a M.S. from the Ohio State University in Physical Geodesy (1993), and a Ph.D. from the Ohio State University in Potential Fields Geophysics (1999). He is a member of the International Association of Geodesy, American Geophysical Union, Canadian Geophysical Union, Society for Exploration Geophysicists, International Federation of Surveyors (FIG), American Congress on Surveying and Mapping, and American Association of Geodetic Surveyors.

Dr. Dru Smith, Chief Geodesist, NGS

Dr. Dru Smith has been the Chief Geodesist of NOAA's National Geodetic Survey since 2005. He first entered NGS in 1995 after receiving his Ph.D. in geodetic science from The Ohio State University. From 1995 until 2000 he performed gravity and geoid research, resulting in the GEOID96, CARIB97, MEXICO97 and GEOID99 geoid models. In 2001 he spent a year working for the Executive Secretariat of the Interagency GPS Executive Board, helping shape government GPS policy. In 2001 he returned to NGS and focused his research on using the CORS network to model the ionosphere.

In 2007 he played a central role in getting NGS to develop and adopt both the NGS 10 year plan and the GRAV-D plan, two documents which will have significant impacts on the way NGS performs its mission into the next decade.

He is a member of the Institute of Navigation, the American Geophysical Union, the International Association of Geodesy and has previously served on the Board of Directors for the American Association for Geodetic Surveying.

Dr. Richard Snay, Former Chief of Spatial Reference System Division, NGS (ret.)

Richard Snay served as a scientist with NOAA's National Geodetic Survey (NGS) for 36 years. He managed the National Continuously Operating Reference Station (CORS) program from 1998 to 2007, and he served as Chief of NGS' Spatial Reference System Division from 2003 to 2010. He has published more than 50 articles on various aspects of geodesy; including crustal motion, Global Navigation Satellite Systems, and spatial reference systems.

Mr. Dave Zilkoski, Former NGS Director (ret.)

David B. Zilkoski received a B.S. degree from the College of Environmental Science and Forestry at Syracuse University in 1974 and a M.S. degree in geodetic science from The Ohio State University in 1979. He retired in January 2009 after working 34½ years for the National Oceanic and Atmospheric Administration (NOAA), US Department of Commerce. As a member of the NOAA's National Geodetic Survey (NGS) he participated in the new adjustment of the North American Datum of 1983 and the North American Vertical Datum of 1988. He served as Director, National Geodetic Survey, from October 2005 to January 2009.

During his career with NGS, he was responsible for evaluating and developing guidelines for using new instrumentation and technology to generate geospatial products. Based on instrument testing, he developed and verified new specifications and procedures to estimate classically derived, as well as GPS derived, orthometric heights. He has authored a number of publications on coastal subsidence, surveying, and vertical datum including a chapter in *The DEM Users Manual* (2001, The American Society for Photogrammetry and Remote Sensing, Bethesda, MD, David F. Maune, ed.). Mr. Zilkoski is Chair of the Marine Technology Society (MTS) Marine Geodetic Information System Committee and Chair of the Transportation Research Board (TRB) Committee AFB80 Geospatial Data Acquisition Technologies in Design and Construction, past President of the American Association for Geodetic Surveying, a member of the American Geophysical Union, and a fellow of the American Congress on Surveying and Mapping (ACSM) and the International Association of Geodesy (IAG).