

## 26<sup>th</sup> Annual International Submerged Lands Management Conference

### Building the Multipurpose Marine Cadastre

**Speakers:** Jim Fulmer and David Stein

**Abstract:** The Multipurpose Marine Cadastre is a multi-year, inter-agency effort to build a GIS-based marine information system for the outer continental shelf and state waters that will provide the necessary data and supporting information to inform decision making on a range of issues. At its core, the MMC will contain marine cadastral data encompassing the spatial extent, usage, rights, restrictions, and responsibilities of marine areas; as well as other regionally-specific data needed to support planning, management, and conservation of submerged lands and marine spaces. The combination of marine cadastral and issue-specific data will provide users with the spatial context needed to address issues such as alternative energy siting, aquaculture, submerged lands leasing, and marine conservation. To achieve this vision for the nation, the Marine Boundary Working Group (MBWG) has begun organizing the underlying framework data and forming key partnerships with stakeholder groups. The MBWG's responsibility in this project will be to provide the authoritative marine boundary data, internet mapping tools, and supporting cadastral information. The utility of the MMC will be explored through key partnerships and case studies.

**Speaker Information:** Jim Fulmer is a Cartographer at the Department of Interior's Minerals Management Service. He has a bachelor's Degree in Geography from George Mason University and is currently studying for a Master's in GIS at Penn State University. Jim has over 15 years of experience in mapping and GIS, and has focused the last few years building and deploying Internet web mapping systems using both ArcIMS and Open Source Software such as Geoserver and Mapbuilder.

During his tenure at the U.S. Geological Survey, Jim led a team that designed, built, and deployed USGS's Eastern Region Geography's implementation of the *National Map*, and also was the lead and web developer for The National Interagency Fire Center's Fire Plan web page, <http://www.forestsandrangelands.gov/NFP/index.shtml>, and the USGS West Nile Virus web site (expanded to monitor other diseases), <http://diseasemaps.usgs.gov/>.

Jim enjoys jumping out of perfectly good airplanes!

**Speaker Information:** David Stein began his career at the South Carolina Office of Ocean and Coastal Resource Management as a field technician and cartographer. For the past 11 years, he has been employed at the NOAA Coastal Services Center in Charleston, South Carolina as a spatial analyst and project manager working on a variety of technical and policy oriented projects. His main responsibilities include working with the coastal resource management community to build GIS and mapping capacity in the areas coastal hazards and ocean governance; and working with the Federal Geographic Data Committee to build the coastal and ocean national spatial data infrastructure. He is a specialist in GIS, spatial data standards, maritime boundary delimitation, and coastal

hazards. David also serves as the executive secretary of the Federal Geographic Data Committee's (FGDC) Marine and Coastal Spatial Data Subcommittee and Marine Boundary Working Group. He received a Bachelor's Degree in Political Science from the College of Charleston and a Master's Degree in Geography from East Carolina University, specializing in geospatial technology and natural hazards. David is a native of Charleston, South Carolina. He enjoys spending time with his family; and is an avid surfer, fisherman, and saltwater enthusiast.