Abstracts in this Session

**Using GIS for Space and Occupancy Management**  
Dan Jensen, Idaho National Laboratory, Idaho Falls, ID

**Abstract text:** The Idaho National Laboratory, headquartered in Idaho Falls, ID, has been using GIS for various environmental monitoring and emergency management purposes for over 20 years. In 2012, INL saw an opportunity to improve their management of building space through GIS. They aggregated building floor plans for over 600 floors into a single seamless rooms view. They then integrated the polygon rooms to their Space and Occupancy Management database, Archibus. Why did they do this? What has been the benefit? What are the challenges? What is the next step? This presentation will describe the reasons, benefits and challenges of using GIS for Space and Occupancy Management at Idaho National Laboratory.

**Indoor Mapping For Your Organization**  
Aaron Cheuvront, University of Washington, Seattle, WA  
Kevin Brown, GISi, Birmingham, AL

**Abstract text:** Indoor Mapping is becoming a more accessible technology for many organizations. By leveraging their current GIS technology they are able to secure indoor technology. During this presentation, learn how individuals can leverage the use of Indoor Technology.

**Creating A GIS Application for King Abdulaziz University Campus Planning**  
Abdulkader Murad, PhD, King Abdulaziz University, Jeddah, Saudi Arabia

**Abstract text:** King Abdulaziz University (KAU) was established in 1967 as a national university aiming at spreading higher education in the western area of Saudi Arabia. The university enjoys a unique position as one of the top universities in the country. In King Abdulaziz University, there is an increasing demand for building a geospatial database that covers university facilities and infrastructure. To achieve this objective, ArcGIS was used in the vice presidency for projects in KAU to produce a GIS application that helps university planners in analyzing university campus buildings and infrastructure network. In order to build this application, a survey was made to cover all buildings and utilities. The result was a virtual 2D/3D mapping environment and a user friendly web-based application for data query and analysis that covers university buildings (exterior and interior)with attributes, underground infrastructure (storm water, fiber optics, telecom cables, electricity, water, and wastewater), points of interests, road network, parking areas, planted areas, trees and palms. All departments in the vice presidency for projects in KAU are benefiting from the created application by having easy and quick access to up-to-date spatial data of the campus base-map. In addition, the application helps university planners to reach quick decisions related to Space Management in KAU.