

# Spatial Technology Talks

*This is a semi-regular series, hosted by [spatial@ucsb](mailto:spatial@ucsb), which aims to promote discussion and interaction within the university's spatial technology community and also share tools and techniques for mapping and spatial analysis.*

## Mobile Mapping

**Paul Wilson**

November 29, 2012

Mobile mapping technology and its evolution from specialized tool to ubiquitous consumer app was the topic of this lunch. **Paul Wilson** (General Electric Digital Energy) discussed trends and advances in hardware and software spanning nearly four decades of mobile mapping applications. As a pioneer in geospatial technology since the 1970s, Wilson shared his unique perspective on a field that continues to evolve.

## Grassroots Aerial Imagery and Mapping

**Kevin Wengler, Steve Miley, and Kitty Currier**

October 25, 2012

**Kevin Wengler, Steve Miley, and Kitty Currier** shared their enthusiasm for grassroots aerial imagery and mapping, the theme of this lunch. Wengler discussed applications and legal issues surrounding unmanned aerial vehicles (UAVs). Miley explained how he built and continues to improve his quadrotor helicopter (or quadcopter), and Currier presented a background on kite and balloon aerial photography for mapping. Also featured were hands-on equipment displays and a post-lunch quadcopter demonstration.

## Esri's Cloud-based GIS

**Scott Prindle**

January 25, 2013

**Scott Prindle**, a Senior Support Analyst on the Server Usage team at Esri, presented on cloud-based GIS and collecting volunteered geographic information (VGI). Scott demonstrated examples of uploading and sharing data via ArcGIS Online and discussed some of the service's components. Also representing Esri were **Josh Jones**, who manages hiring processes for Support Services, and Lara McLaughlin, who is part of Esri's University Program team.

## UAVs for Mapping

**Marko Peljhan**

April 29, 2013

Professor **Marko Peljhan** of the Department of Art and the Media Arts and Technology program led a discussion of unmanned aerial vehicles (UAVs) and their applications to mapping, orthophotography, and surveying. Peljhan presented work with the C-ASTRAL BRAMOR system, which he and his colleagues developed as part of an art/tactical media initiative. He shared updates from some of his recent projects, including mapping Ultima Esperanza in Patagonia in late March and a longer initiative with unmanned systems in collaboration with local populations in the Arctic.

# Participatory Mapping in South Sudan

**Chris Macdonald**

May 24, 2013

**Chris Macdonald** reflected on his experiences as the lead GIS consultant for the South Sudan Rural Land Governance Project, funded by the USAID. He described using participatory mapping techniques, mobile data collection, and historical maps to build a spatial decision support system for land and property management in South Sudan, the world's newest country.