

Central Region Newsletter

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Inside this issue:

Conference Notes 2

Event Calendar 3

University of Kansas GIS Day 3

University of Missouri-Rolla Earth Science Week 4

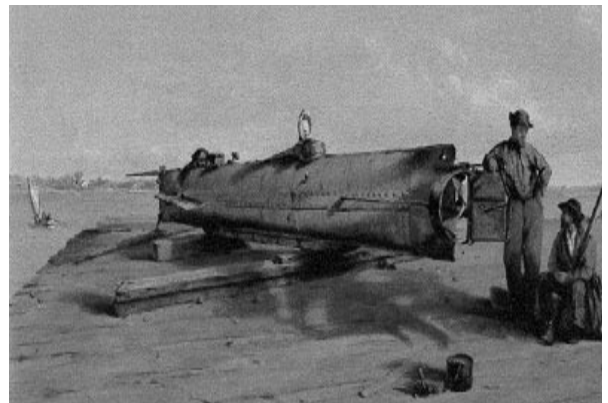
Darryl Williams Wins Dahlberg Award 4

Southwest Missouri State University Student Chapter Recognized 5

Three Dimensional Mapping of Civil War Submarine Draws Interest to Remote Sensing Technologies

On September 27, 2002 the Central Region hosted a technical meeting in the Plaster Student Union at Southwest Missouri State University (SMSU). Over 60 people attended the meeting, which included two technical presentations and the presentation of an honorary award to Professor Elias Johnson of the SMSU Geography Department. Professor Johnson, who retires this year, was recognized for his thirty years of dedicated service as a faculty member and as an advisor and promoter for the ASPRS student chapter at SMSU. His services will be sorely missed. Central Region President, Shelley Silch presented the award to Professor Johnson.

After a brief introduction by Professor James Skinner, head of the SMSU Geography Department, Bob Rinehart of the US Geological Survey (USGS) gave an overview of the internet-based National Map Program that is being coordinated by the USGS. Bob demonstrated some capabilities of the National Map through an on-line display of data that was prepared as a pilot project for the state of Delaware. The USGS projects that internet-accessible National Map data will be available for all parts of the United States by the year 2010. When Bob finished, Doug Devine, the owner of Pacific Survey Supply, provided the highlight presentation, "Mapping the CSS Hunley". Doug flew from Oregon to demonstrate a rather unique, high profile niche in the field of surveying that combines LIDAR, laser, and conventional field surveying observations to build a three dimensional map of an archeological site, referred to as archaeological mensuration. In the case of the recovered civil war submarine, the CSS Hunley, Doug's company used archaeological mensuration methods to generate a three-dimensional model for the surface of the sub. This model provides a highly precise, permanent record for the dimensions of the Hunley that may be referenced during restoration efforts. The presentation



Painting of the CSS Hunley by Conrad Wise Chapman

included an elaborate video portrayal of the sinking of the USS Housatonic by the Hunley and of the recovery of the Hunley from the ocean bottom. In addition to this captivating demonstration, Doug introduced some of his upcoming research efforts, which include mapping of the 9000 year old Kennewick man, and mensuration of Sasquatch from recent video footage.

"Doug's company used LIDAR, laser, and conventional field surveying observations to generate a three-dimensional model for the surface of the sub. "

Overall the meeting was interesting and enjoyable while furnishing some good exposure for ASPRS. Presentations were videotaped and

may be viewed at the Mid-Continent Mapping Center in Rolla, MO. Contact Shelley Silch at ssilch@usgs.gov for more information. Sincere appreciation is expressed to all who assisted with the planning, publicity, and activities for this event.

ASPRS Representative to Renewable Natural Resources Foundation (RNRF) 2002 Congress

I was one of two ASPRS delegates to the RNRF Congress on Control of Non-Point Source (NPS) Water Pollution. ASPRS is one of 15 member organizations of RNRF (www.rnrf.org). RNRF held the congress 18 – 21 September in Baltimore, MD. Mr. Ed Freeborn, President of the Central New York Region of ASPRS and an employee of NY State Technology Enterprise Corp., was the other ASPRS representative. The National Oceanic and Atmospheric Administration (NOAA), the US Environmental Protection Agency (EPA), and the USDA Forest Service sponsored the congress. The congress theme was "Options and Opportunities." Dr. John Dickey, Director of Outreach and Research Support, American Geophysical Union, served as the congress' chairman. Maryland Governor Parris Glendening and Dr. Margaret Davidson, Acting Assistant Administrator for Ocean Services and Coastal Zone Management, NOAA, were the keynote speakers.

The delegates received an excellent set of background briefings, including

- Effects and Efforts on the Chesapeake Bay, by the University of MD Center for Environmental Science, the MD Department of Natural Resources, and Baltimore County.
- National Water Quality Assessment by the US Geological Survey
- Current Federal and State Approaches to NPS by the EPA and the Environmental Law Institute
- Urban Development's Impact on Water Quality by the Center for Watershed Protection

The focus of the congress was on the delegate working groups. Dr. Dickey and Dr. David Moody, Chairman of the RNRF Board of Directors and Former President of American Water Resources Association, set the stage for discussions on exploring options and opportunities for controlling NPS and charged the working groups with their procedures, practices, and assignments. Various delegates chaired the working groups, and faculty and graduate students of the Department of Natural Resource Sciences and Landscape Architecture, U of MD, facilitated the groups. Each delegate participated in four working groups as follows:

- Methods & Strategies of Control & Overcoming Legislative Barriers
- Educating the Public & Defining Their Role
- Roles & Responsibilities of Local, State, and Federal Government and Opportunities for Partnership
- The Education of Resource Professionals in NPS Prevention & Control

After the delegates review the preliminary report, the RNRF will publish a final report on the congress. RNRF will provide this report to all members of the US Congress and each member organization. In addition, the report will be presented at a special symposium of the American Association for the Advancement of Science's annual meeting in Denver in February 2003. If you know any other organization desiring a copy of report, please let me know.

Michael P. Finn

Past President, Central Region



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Upcoming Events

- **February 24-26, 2003:** The Institute for Defense and Government Advancement's Image Fusion conference will feature in-depth sessions on operational experience and cutting-edge imaging technologies presented by key program directors, researchers and scientists. The conference is being held at the Hilton Alexandria Old Town in Alexandria, Virginia
- **March 24-26, 2003: 8th Annual Missouri GIS Conference.** Holiday Inn Executive Center, Columbia, Missouri. <http://msdis.missouri.edu/mogis2003> for more information.
- **May 3-9, 2003: ASPRS Annual Conference,** Anchorage, Alaska
<http://www.asprs.org/alaska2003>
- **October 25-30, 2003: Digital Terrain Data and 3-D Visualization Conference.** Sponsored by ASPRS and MAPPS. Charleston Convention Center, Charleston, South Carolina.

University of Kansas' GIS Day

ASPRS Central Region co-sponsored a GIS Day at the University of Kansas (KU) on 20 November along with ASPRS Sustaining Member Western Air Maps, the United States Geological Survey (USGS), the Kansas Applied Remotes Sensing (KARS) program, the Kansas Data Access & Support Center (DASC), Spatial Data Research, the University of Calgary, the National Aeronautical and Space Administration (NASA) and the KU Geography Department.

Attendees participated in a full day of GIS-related which took place on the KU campus in Budig Hall's Center for Teaching Excellence.

A series of 45 minute presentations comprised the heart of the day's program. The presentations ran from 9:00 AM to 6:00 PM.

Dr. Jerome Dobson, PhD., presented a keynote talk to start things off. His topics included personal GPS positioning systems, the social responsibility of this technology, and the potential for 'geo-slavery'.

Next, Scott Perkins from Western Air Maps, spoke on the benefits of large scale orthorectified imagery and mapping in urban GIS projects.

Scott was followed by Shelley Silch of the USGS who did a presentation on *The National Map*.

DASC did a presentation on the wealth of GIS data now available to the public in Kansas and on the DASC 'free meta data training program'. A key point of interest was the statement that DASC is moving all of its web-based services out of html and into 'xml'.

KARS reported on a new set of imagery of Kansas from LandsAT 7 satellite coverage, and it is tiled by County.

Spatial Data Research presented on their method of using mobile GPS collection to complete geo-addressing for rural county E-911 systems.



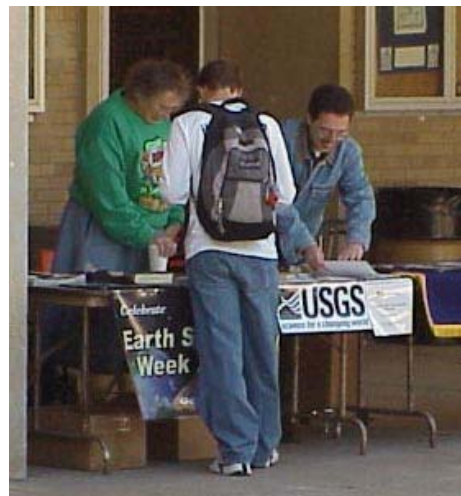
Some of the attendees at KU GIS Day

The afternoon's key speaker was Dr. Kam Lulla, (a double Ph.D. from NASA). Dr. Lulla spoke about 'People Places & Pixels'. He spoke on his role in the International Space Station project, including training astronauts on GIS and the coming impact of UAV's (un-manned aerial vehicles) in remote sensing. Over 75 people attended Dr Lulla's speech.

Scott Perkins concluded the day's events by presenting the ASPRS 2001 scholarship plaque to Monika Moskal on behalf of the ASPRS Central Region and by drawing for a free ASPRS student membership which was won by KU student Peter J. Gogol. There was a reception after the formal activities concluded.


Earth Science Week

October 15th was a great day to demonstrate some of the geography skills of our members and local college students. The Central Region celebrated Earth Science Week on the University of Missouri-Rolla campus with a "Guess This Location?" Game. Testing students' geography skills with Landsat (<http://landsat7.usgs.gov/gallery/index.php>) and TerraServer (<http://terraserver.homeadvisor.msn.com/famous.aspx>) imagery proved very interesting for all



Central Region members Susan Mills and Steve Rich talk with a student.

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participants. Images from around the world were printed and displayed for "guessing." Hints (in the form of lat/long) were given for the Landsat Imagery. This activity was so popular that plans are being made to repeat next year. If you would like to participate in this activity next year - mark your calendars - October 12-18, 2003.

Darryl Williams Presented Dahlberg Distinguished Achievement Award

Darryl S. Williams of the USGS, Mid-Century Mapping Center was presented the Dahlberg Distinguished Achievement Award on November 5, 2002, at the Illinois GIS Association Conference held in Lisle, Illinois. The Dahlberg Distinguished Achievement Award is meant to recognize contributions to the growth of GIS on a statewide basis, career achievements that impact and benefit many people, nominees that reflect Dick Dahlberg's gift to building bridges between people. Only one such award is made each year; it is possible that no award is presented in a given year.

Darryl served as the National Mapping Discipline's representative to Illinois for over ten years starting in 1991. During that time he vigorously represented Illinois interests within USGS, and made sure that Illinois knew about all opportunities for working with USGS. Darryl's gift of service to Illinois extended beyond the already broad scope of the National Mapping Discipline.



Southwest Missouri State University (SMSU) Student Chapter

The Central Region is very pleased to present members of the only Student Chapter in the Region. This active membership co-sponsored the Region's GIS Activities for 2001 and recently hosted a technical presentation on the CSS Hunley. Please join us in congratulating this Chapter on a job well done.



From left to right. Back row: Dave Gipson, Tommy Collins, Dan Loesch, Nathan Huggins, Stephen Wepprich. Front row: Bobby Touzinsky, Chris Jacobs, Patrick DesPres, Daniel Romine, and Tim Bixler.

Central Region Welcomes New Members

The Central Region Board of Directors would like to welcome new members whom have joined ASPRS since the last newsletter was published. Twelve new members, four regular and eight student, have joined the society. They are: Mr. Thomas Beard from Rolla, Missouri; Ms. Carol Finn from Rolla, Missouri; Dr. Mark Micozzi from Norman, Oklahoma; Mr. David Shaver from Rolla, Missouri; Mr. Timothy Bixler from Springfield, Missouri; Mr. Patrick DesPres from Springfield, Missouri; Mr. Stephen Todd Harper from Willard, Missouri; Mr. Dillon Payne from Pauls Valley, Oklahoma; Mr. Matthew D. Reynolds from Fayetteville, Arkansas; Mr. Daniel Romine from Springfield, Missouri; Mr. Patrick Taylor from Lenexa, Kansas; and Mr. Stephen Wepprich from Springfield, Missouri.

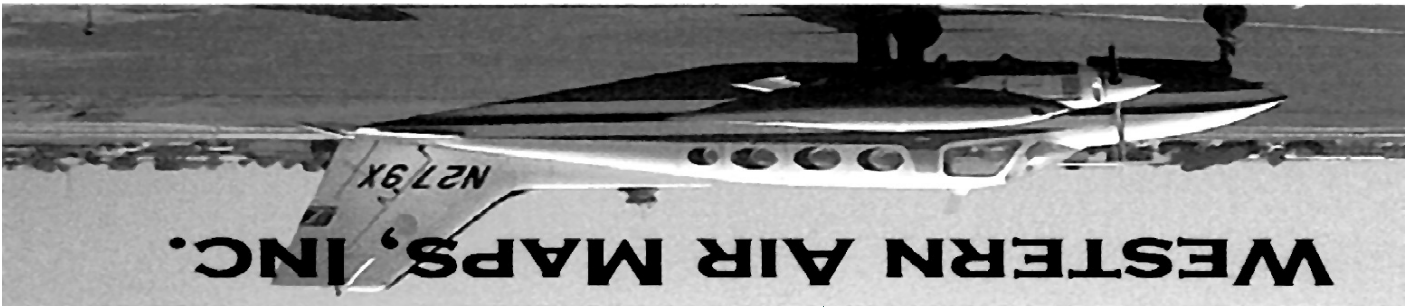




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