

Southeastern Minnesota GIS Users Group

Meeting Minutes

Goodhue County Historical Society, Red Wing, MN June 20, 2017 8:45 am-12:00 pm

Attendees:

Alan Laumeyer, Goodhue County
Leanne Knott – Goodhue County
Chad Hanson – Goodhue County
Kate Meixell – OPU
Frankie Mpagi – Winona County
Ryan Moore – RPU
Matt Sapola – Olmsted County
Blaine Hackett – RESPEC
Ruth Betcher – MnDOT
Dan Ross – MnGeo
Teresa Ennis – Rice County

Gordon Robertson - RPU
Nick Meyers – Bolton & Menk
Dave Wavrin – OPU
Michelle Trager – Rice County
Rubin Seifert – City of Owatonna
Kurt Berge – People's Energy Cooperative
Ashley Ignatius - MPCA
Dave Hart – Continental Mapping
Geoff Maas – MetroGIS
Beau Kennedy – GC SWCD
Greta Poser – St. Mary's University

9:15 am Meeting Started

Goodhue County Environmental Permitting and Tracking Suite

Leanne Knott & Chad Hanson, Goodhue County

- Leanne Knott and Chad Hanson presented on their Goodhue County Environmental Permitting Track Suite: Esri-Leica Smart Communities Challenge Grant project. The grant was an open call for demonstration projects that supported ground-breaking ideas of state and local government.
- Leanne described the business case, grant application process, and project design. Charts showing both the previous well and septic inspection process and the improved workflow were included. The new process allows for data to be stored geographically, allows for indexing, and enables accuracy and functionality of data share by associated agencies that require reporting by statutes for funding.
- Chad discussed the Esri software suite utilized by grant recipients, including ArcGIS Online, Collector, Navigator for ArcGIS, and Survey123. Operations Dashboard and a customized Esri Web AppBuilder Developer Edition app were also identified as platforms for mobile demonstration project distribution.
- There was a brief overview description of the Leica Geosystems Equipment utilized by grant recipients including the Zeno 20 Android CDMA or UTMS, Zeno Connect on Android, L1.L2 GPS/GLONASS, and a two-year Zeno Connect Bronze CC.

- Leanne discussed Mobile Demonstration Project Distribution including a public-faced Web AppBuilder app showing wells and septic points and the use of Operations Dashboard as a cross-agency platform.

1800's Bicycle Shop Locations in Minneapolis & St. Paul Using Open Source GIS

Alan Laumeyer, Goodhue County

- Alan Laumeyer presented on a project to map historic bicycle shops in St. Paul and Minneapolis utilizing free, open source software including QGIS, OpenOffice, Google Streetview and library research.
- The process included gathering bicycle shop listings, creating tabular data, using an open source geocoder to create point data, verify the bike shop addresses, and finally format for cartographic output.
- Alan discussed general history of cycling in Minnesota during the late 1800's and described how his maps are now displayed at the Cycling Museum of Minnesota.

Data Standards Status and Development

Geoff Maas, MetroGIS

- Geoff Maas shared a presentation updating MetroGIS regional projects and Free + Open Data efforts in the state of Minnesota.
- MetroGIS is responsible for maintenance functions of regional datasets, development of data + data standards, and advocacy and outreach. The MetroGIS Policy Board is made up of delegates from regional counties, Metro Watershed district, and Metropolitan Council.
- Taking a regional approach serves agencies whose work and data needs transcend established boundaries. Examples of regional datasets include Emergency Services, recycling & waste, watershed, school district boundaries.
- Current projects include Address Point data, Road Centerline data, Park and Trail System data, Stormwater System data.
- Geoff described the importance of standards based on stakeholder input and explained the standards development process. The Parcel Data Transfer Standard was also discussed.
- Free + Open Data was reviewed, including previous history and a map showing counties now participating in free and open data.

Mobile LiDAR and 360° Imagery

Dave Hart, Continental Mapping

- Dave Hart of Continental Mapping presented on a project for MnDOT to inventory and assess barrier end treatments using mobile LiDAR technology. The project began as a result of a negligence lawsuit filed against a motorist who hit a defective guardrail and lost a limb in the accident.

- Goals for the project include collecting and assessing all barrier end treatments and guardrails along 15,000 centerline miles. The project has since been expanded to include multiple other assets.
- Data collection and processing was described, along with the challenge of handling very large point-cloud datasets.
- Dave demonstrated a mobile app and described lessons learned from the project to date.

Barn Bluff UAV Drone Flight Demo

Nick Meyers, Bolton Menk

- Nick Meyers described a process to capture imagery generated by a drone flight for the City of Red Wing Barn Bluff Master Plan. He described Bolton Menk's UAV background qualification and how a UAV was best suited to collect the data to minimize impacts to cultural resources.
- Outputs for the project included orthomosaics of the bluff, digital terrain model, and 3D model. Outputs will be utilized by City of Red Wing staff for evaluating trail erosion and cultural resources on Barn Bluff.

Steering Committee Business Meeting

- Steering Committee elections were completed in March – please see the Steering Committee member list below.
- **Owatonna Public Utilities will be hosting a joint meeting with South Central MN GIS Users Group on Thursday October 26, Steering Committee members will be working to plan for that joint meeting later this summer and early fall.**

12:00 pm Meeting Adjourned

** Members are encouraged to present at a future meeting and to offer suggestions of vendors or other agencies to present. Please contact a Steering Committee member or the next meeting's host if you are interested in presenting.

Jay Forstner

GIS Coordinator

JForstner@RPU.ORG

Rochester Public Utilities

Phone: (507) 280-1609

Nick Flatgard

GIS Coordinator

gisdept@co.steele.mn.us

Steele County Land Use & Records

Phone: (507) 444-7489

Leanne Knott

GIS Systems Specialist

Leanne.Knott@ci.red-wing.mn.us

City of Red Wing

Phone: (651) 385-3619

Michelle Trager

GIS Coordinator

mtrager@co.rice.mn.us

Rice County

Phone: (507) 332-5950

Ashley Ignatius

GIS Analyst - MPCA

Ashley.Ignatius@state.mn.us

Resource Analysis Dept. (GIS)

Phone: (507) 206-2614

Rubin Seifert

GIS Analyst

rubin.seifert@ci.owatonna.mn.us

Owatonna Community Development

Phone: (507) 774-7320