Northern Area GIS User Group Meeting

Thursday, April 15, 2021

Microsoft Teams Virtual Meeting

9:00 AM – 3:00 PM

Agenda

9:00 – 10:15: Welcome and Discussion
Breakout Sessions- Share updates on your work/ projects with the group and ask questions for discussion

10:15 – 10:30: Break

10:30 – 11:00: Rock ROBOTIC - LiDAR

Harrison Knoll and Alex Knoll

11:00 – 11:30: Cartography with Maps for Adobe

Sarah Bell, Esri

ArcGIS Maps for Adobe Creative Cloud is Esri's extension for Illustrator. Maps for Adobe has been developed specifically to provide map designers with a familiar experience by enabling them to create maps using software they already know. This presentation demonstrates how cartographers and GIS professionals can integrate Maps for Adobe into their mapmaking workflows using ArcGIS Pro and Adobe Illustrator.

11:30 – 12:00: Notebooks!

Zach Vavra, University of Minnesota Duluth

Notebooks is an intuitive interface that allows users to interact with their GIS and other data using Python. From simple administrative tasks to complex analysis, Notebooks provides a clean space to write and integrate scripts into your GIS work. This presentation will provide an overview of Notebooks and demo some examples of tasks which can be done in a Notebook.

12:00 – 1:00: LUNCH

1:00 – 1:30: Automated Incident Detection on Roads Using ROVER Artificial Intelligence

Roy Tal, Visual Defence

This presentation will cover ROVER Artificial Intelligence, which automatically identifies road deficiencies requiring repair using smart phone cameras deployed in vehicles. It will also provide an overview of how ROVER helps to create actionable GIS data that allows local governments to improve service levels and

operate more efficiently by enabling municipal fleets to gather important data automatically as they go through their day-to-day activities.

1:30 – 2:00: OpenStreetMaps in ArcGIS

Steven Moore, Esri

For over 15 years, OpenStreetMap has been a free and open database of the world for GIS professionals and casual mappers alike. As the quality and quantity of data in the map has increased over the years, it has become an increasingly viable alternative to other commercial data providers. In this presentation, we will cover a brief history of OpenStreetMap, show how Esri is using OSM in our content and software products and how you can access for your work, and discuss how we can collectively contribute to the OSM project as it enters a new era of community participation.

2:00 – 2:15: BREAK

2:15 – 2:45 Automate the Non-Programmer Way

Justin Conner – City of Wisconsin Rapids GIS Coordinator

Sure, there's dozens of programming languages available to automate work but honestly who has time to learn them all? For those of us who know enough to be dangerous, there are ways to automate without programming. I will walk you through a couple scenarios I created using Survey123 and Integromat. The same basic principles apply to Microsoft Power Automate as well. So, whether it be Integromat or Power Automate, I hope this session encourages you to automate workflows without the need of programming.