REGIONAL GIS MEETING
December 14, 2022 – 9:30am – 4:00pm
Tarrant County College – Trinity River Campus
TRTR 4008 - Energy Auditorium

MORNING SESSIONS

9:30am   **Welcome –** Shelley Broyles – NCTCOG

9:35am   **Public Health Profiling through Community-based Learning –** Katsuhiko "Kirk" Oda, PhD & Student Cohort – Tarrant County College

This presentation covers how the GIS students of Tarrant County College implemented a geospatial visualization and analysis of health-related variables to provide their local communities with insights for health promotion. Specifically, student groups investigated their surrounding neighborhoods in terms of the following residents' well-being: health service accessibility, food desert, and built environment for active living. Then, as deliverables, they constructed web maps assisting the creation of public health policy. In students' projects, they immersed themselves in the continuum between volunteering as citizens and the practicum they do in their community as GIS professionals.

10:05am   **Asset Inventory Strategies for Transportation & Public Work Infrastructure –** Justin Hoffman – City of Fort Worth

The Transportation Public Works department at the City of Fort Worth recently completed a city-wide asset inventory of existing surface transportation infrastructure. This presentation will discuss the city's approach and strategy to this asset inventory effort such as planning data collection, ensuring compatibility to existing data architecture, developing processes for data deliverables, QA/QC strategy and process, and final database upload. The intent is to educate those considering an asset inventory on how to be prepared prior to data collection, understand the challenges receiving and evaluating data deliverables, and ensuring data is the most value-added and advantageous to the organization.

10:35am   **Striping Team Inventory App –** David Allen & Nicholas Willette – City of Euless

To track street lane painting; which roads have been painted recently and what they should expect to do in the next year, the Euless Public Works department created a custom app which will be discussed in this presentation. The app is used to log all painting projects, inspect existing striping for consideration in the next year's painting program, and help determine an annual painting budget.

11:05am   **The Role of GIS in Law Enforcement Crime Reduction Strategies** – Heather Lane – City of Grand Prairie

The Grand Prairie Police Department utilizes GIS in many of our evidence-based policing, crime reduction strategies. In this specific example, we utilize GIS for implementing the Koper Curve Theory or visibility policing. ESRI ArcGIS Pro is used to identify our "hot streets" for targeting problem areas within the city and utilize ESRI ArcGIS Online dashboards and maps to keep our initiative on track.

11:35am Emerging Spatial Analytics – Briley Barnwell – ESRI

This presentation will discuss the growing demand for enterprise spatial analytics within the real-time, big data and graph space, and how Esri is building specific capabilities to address each of these needs. Will share high level opportunity areas ESRI has seen within each capability, and how they work well together.

AFTERNOON SESSIONS

1:30pm Collaborative Chemical Planning Using GIS Applications – Bernardo Salazar – Dallas County

Location accuracy is a significant limitation when working with chemical facility data. Addresses must be verified and updated to use the data within emergency planning. Using a series of spatial processes, we identified possible locations needing verification and used ArcGIS's Experience Builder to distribute the workload across Dallas County Emergency Management offices.

2:00pm Building a Meaningful Disaster Preparedness App & the Associated Data Challenges – Maya Shaw – City of Plano

This presentation will cover how to overcome emergency management challenges, especially with understanding, gathering, and visualizing data for Tier II Facilities (hazmat sites) as well as other data collection and presentation challenges. Through this process, I have provided a solution to the EM team so that they can assess and analyze impact and/or potential threat to infrastructure and the community in the event of an emergency or disaster, and then communicate out plans and decisions quickly and easily to all involved in the response and recovery.

2:25pm Public Safety: Target Hazard Analysis for ESRI Fire Accreditation – Colson Blair – City of Denton

Target Hazard Analysis can be used to identify properties and buildings that could result in a loss of life, or have a negative impact on the community, if a fire were to occur. The Target Hazard Analysis solution delivers a set of capabilities that help you calculate a hazard score for each building or property and understand where a fire may negatively impact a community. This presentation will be on the GIS methods used to perform this analysis.

3:00pm Fire Redistricting & Drivetime Analytics: Using Network Analyst Extension in ArcGIS Pro – Abigail Burns – Town of Prosper

This presentation covers utilizing the Network Analyst extension within ArcGIS Pro; the deliverables for this project was a series of maps depicting drive time zones for current and future fire stations. This is a guide showing the lifecycle of this project and includes an in-depth explanation of setting up the network, crafting formulas, creating barriers, and covers the back-and-forth nature of working with our Public Safety team in Prosper, Texas.

3:25pm GIS Applied: Economic Development & Event Optimization – Shane Smith – Downtown Fort Worth, Inc.

This presentation will cover how Downtown Fort Worth Inc. uses GIS applications for a broad range of applications, from public event planning and execution to tracking and measuring economic development in the Downtown core area. These GIS tools include ArcGIS Pro 3 and Survey 123.

Join us for a Mappy Hour after the meeting! Hosted by SCAUG & URISA
Flying Saucer, 111 E 3rd St, Fort Worth