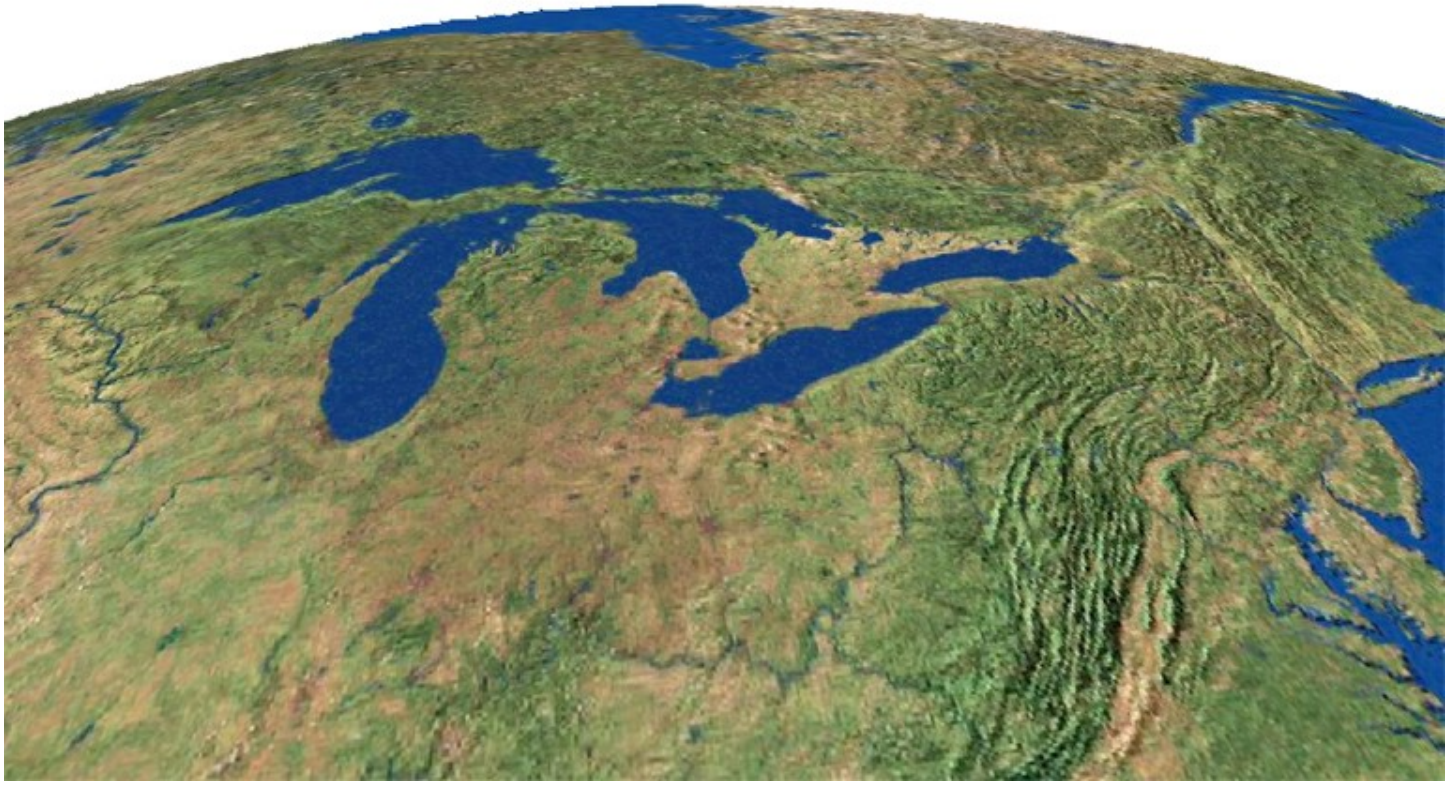
2009 Ohio GIS Conference

Leveraging Your GIS Investments
September 16—18, 2009

Sponsored by: The County Engineers Association of Ohio and the Ohio Geographically Referenced Information Program



Welcome

On behalf of the County Engineers Association of Ohio (CEAO) and the Ohio Geographically Referenced Information program (OGRIP), we would like to welcome you to the 2009 Ohio GIS Conference and Trade Show. This conference is held annually to bring GIS professionals together to learn, network and share knowledge & experiences.

The theme of this year's conference is "***Leveraging Your GIS Investments***."

Geographic Information Systems and geospatial data often represent a significant investment of taxpayer dollars. In the current economic climate, government must identify and exploit opportunities to maximize these investments for the benefit of all. *Leveraging Your GIS Investment* as much as possible is good business and good government and is often part of the business case for developing a GIS in the first place.

We would like to thank you for attending the 2009 conference and for your continued interest in GIS. We express our appreciation to the great line-up of speakers who always bring relevant and timely content to enrich your experience. Special thanks to our keynote speaker Carl Kinkade, Enterprise GIS Coordinator, Centers for Disease Control and Prevention. Thank you to our vendors, exhibitors and all sponsors who help make this conference a success.

As you network with fellow GIS professionals, colleagues and vendors, you are encouraged to explore and share how you've experienced success in *Leveraging Your GIS Investment.* We wish you a successful and educational experience. Enjoy the conference!

Sincerely,
Glenn W. Sprowls, Executive Director
County Engineers Association of Ohio

Stuart R. Davis, Interim Chief Operating Officer
Office of Information Technology/Infrastructure Services Division
Ohio Department of Administrative Services

Conference Schedule

Wednesday, September 16, 2009

Morning

8:00 - 4:00	Registration			
	Cardinal	Pavilion	Salon B & C	Salon E & F
8:30 - 11:30	Workshop 1 - **Leveraging Ohio Lidar Data**, David Fagerman	Workshop 2 - **Working with the ESRI User Community Resource Centers**, Eric Rodenberg	Workshop 3 - **Operational Use of Remote Sensing**, Kevin Czajkowski, James Lein	Workshop 4 - **Intro to USNG for GIS Professionals**, Talbot Brooks
11:00 - 5:30	Trade Show - Ballroom III & IV, Foyers 1 & 2			
11:30 - 1:00	Lunch on your own			

Afternoon

1:00	Ohio GIS Map Gallery - Foyer 1
	Pavilion
1:00	**Introduction/Conference Opening** - Stu Davis, Interim Chief Operating Officer, Ohio DAS/Office of Information Technology/Infrastructure Services Division
1:15	**Keynote Address - The Public Health Distributed Geospatial Intelligence Network** - Carl Kinkade, Enterprise GIS Coordinator, Centers for Disease Control and Prevention
2:15	**International Charter** – Dick Kotapish, GISP, GIS Director, Lake County GIS Department
2:30	Break - Ballroom III & IV
2:45	**OGRIP Update** - Stu Davis - OGRIP Council Chair
4:00 - 5:30	Trade Show Reception - Ballroom III & IV, Foyers 1 & 2

Thursday, September 17, 2009

Morning

7:30 - 1:10	Trade Show - Ballroom III & IV, Foyers 1 & 2			
7:30	Ohio GIS Map Gallery / Registration - Foyer 1			
7:30 - 8:30	Continental Breakfast - Ballroom III & IV			
	Pavilion	Ballroom I & II	Salon B & C	Salon E & F
	Track 1 - *Enterprise Solutions and Data Access*	Track 2 - *Technology*	Track 3 - *Public Safety and Health*	Track 4 - *Natural Resources and Planning*
8:30	**Implementing an Enterprise GIS Infrastructure: City of Cleveland, Ohio** - Chris Davis, City of Cleveland	**Terrestrial 3D Mobile Mapping** - Steve Hatfield, GeoShack Ohio; Dave Henderson, Topcon	**Case Study, Franklin County, Ohio Location Based Response System (LBRS)** - Craig Schorling, Transmap Corporation; Todd Pulsifer, Transmap Corporation	**Assessing Development Pressure** - Scott Snider, Knox County Map Department
9:10	**Enterprise Service Oriented Architecture and GIS** - Joe LaCombe, Woolpert	**District 2's Intelligent Mobile Mapping Pilot** - Fred Judson, Ben Cordes, John Puente, Ohio Department of Transportation	**Next Generation 9-1-1 is now. Is your GIS ready?** - Marc Berryman, Digital Data Technologies, Inc.	**GIS applications for a metropolitan housing authority** - Jung-Wook Kim, AMHA
9:50	**Online Data Distribution** - Joe Merritt, Clinton County Engineers Office	**Integrated GIS, AVL, and Radio Communications: A Case Study of the Holmes County Highway Department** - Erik Parker, Holmes County GIS	**An Example of a Successful State-Wide Enterprise GIS Program and its Impact upon Safety Data Systems** - Jeremiah Glascock, TSASS, Inc.; Ron Cramer, Digital Data Technologies, Inc.	**Central Ohio Bike Users Map** - Bernice Cage, MORPC; Cheri Mansperger, MORPC
10:30	Break / Trade Show			
10:50	**Improving Citizen Service and Access with GIS** - Derek Mair, EMHT, Inc.	**Automated Feature Extraction - More Than The Eye Can See** - Brian Stevens, Woolpert Inc.; Aaron Lawrence, Woolpert Inc.	**GIS and Global Public Health** - Carl Kinkade, CDC	**Real Estate Portal USA: A web mapping platform towards a national seamless parcel layer** - Joseph Harwood, Real Estate Portal USA
11:30	*No session - Pavilion set up time for lunch.*	**CAD and GIS interoperability using FDO (Feature Data Objects)** - Rick Johnston, Autodesk, Inc.	**MECCMap, A Fire Department GIS Mapping Application** - Jason Miller, Plain Township Fire Department	**Practical Applications of LiDAR Data** - Benjamin Houston, GroundPoint Technologies, LLC

Thursday, September 17, 2009

Afternoon

12:10 - 1:10	Buffet Lunch in Pavilion Area **There Is No Spoon** - Brandon Brown, City of Dublin - **(during lunch)** - **Pavilion**			
	Pavilion	Ballroom I & II	Salon B & C	Salon E & F
	Track 1 - *Enterprise Solutions and Data Access*	Track 2 - *Technology*	Track 3 - *Public Safety and Health*	Track 4 - *Natural Resources and Planning*
1:10	*No session - Pavilion tear down time for lunch.*	**ETL for GIS - What's it all about?** - Derek Mair, EMH&T, Inc.	**Meeting NFPA 1710: Using GIS to Model Ideal Fire Station Allocation** - Jennifer Weisser, Deerfield Township; Randall W. Hanifen, University of Cincinnati/Deerfield Township	**GIS for Ohio Conservation** - Aaron Lantz, ODNR - Division of Soil & Water Conservation
1:50	**A Regional Address Management Strategy | Phase I | Buy In** - Xander Mavrides, City of Cleveland	**Web GIS, Taking Advantage of the Cloud** - Daniel Haag, ESRI; Mark Dann, ESRI	**Critical Infrastructure of Muskingum County Schools 360 Degree Program** - Andrew Roberts, Muskingum County; Scott Yoder, Pictometry	**Utilizing the Updated Wetlands Inventory in Ohio to Model Waterfowl Populations and Habitat** - Robb Macleod, Ducks Unlimited
2:30	Break			
2:45	**Enterprise ETL & the Home Again Web Mapping Application: Columbus, Ohio** - Erick Lobao, Nicholas Soltes, Stantec; Sonia Krammes, Robert Parsons, City of Columbus, D.O.T.	**Developing a GIS Portal Using the Flex API** - Joe LaCombe, Woolpert	**CAMEO Suite as GIS** - Alan Finklestein, Strongsville F.D.; Dan Pfeiffer, Nelsonville Fire Dept.	**GIS and Riparian Corridors in Hamilton County** - Samantha Doering, CDM
3:25	**Better Serve Your Community** - Andrew Harrison, The Schneider Corporation	**Creating Web based Thematic Maps using Open Source Platforms** - Kishore Patel, CyberSWIFT LLC.	**A Flood-Warning System for Findlay, Ohio** - Chad Ostheimer, US Geological Survey	**2009 USDA NAIP Statewide Imagery for Ohio** - Jay Arnold, 3001, Inc; Hayes Hubbs, Ohio State Farm Service Agency
4:05	**Metadata for Map Services: Making Geospatial Data and Map Services Available to Larger Audiences** - Sam Wear, Weschester County, NY	**Hybrid GeoSpatial Stack: Combining Open Source & ESRI Technologies for Park Planning and Management** - Stephen Mather, Cleveland Metroparks	**The International Charter** - Richard Kotapish, Lake County	**Stewardship of the National Hydrography Dataset** - Elizabeth McCartney, USGS
4:45	Hospitality Suite - Ballroom III & IV			

Friday, September 18, 2009

Morning

7:30 - 8:30	Continental Breakfast - Foyer 2
7:30	Ohio GIS Map Gallery - Foyer 1
	Ballroom I, II, III, & IV
8:30	**General Session**
	Status of Federal Programs – Charley Hickman, Geographer and National Map Liaison to Ohio, United States Geological Survey **LBRS Panel** **Implementation of the Broadband Data Improvement Act in Ohio** - Katrina Flory, Ohio Department of Administrative Services Office of Information Technology - Executive Director, Ohio Broadband Council
10:15	Break - Foyer 2
10:30	**Closing/Town Meeting** ***Awards given for Ohio GIS Map Gallery*** ***Awards given for OGRIP Best Practices Awards*** ***Acknowledgement of Sponsors*** ***Acknowledgement of Speakers***

Wednesday, September 16, 2009

Track 1 - 8:30

Leveraging Ohio Lidar Data

David Fagerman, Application Engineer
Autodesk

David Fagerman has 30 years experience in dealing with Transportation issues with States, Counties and Cities. Currently Application Engineer for Autodesk; including experience in dealing with Ohio Lidar data.

Abstract:
ODOT has gathered Lidar data for the State of Ohio; the question many at the County and City level have had is "how can I use this data in live projects?" This workshop is designed to address this question. During this workshop you will see how you can:

1. Deal with ½ a billion points in real time panning and creating 3D GIS contour shapes
2. Slope category shading of several million points to create an accurate slope map and using the smart slope data
3. Using GIS based centerline and right of way information to create buffered surface data for usage with several hundred million points active
4. Determining existing roadway superelevation rates using lidar data and GIS table information. Taking this data into Civil 3D as superelevation gradient lines displayed in the superelevation diagrams. This method is used to establish overlay sections automatically, considering the existing roadway conditions.
5. Hazardous conditions locations, utilizing Lidar data
6. Address methods for gathering ground-based Lidar data

Track 2 - 8:30

Working with the ESRI User Community Resource Centers

Eric Rodenberg, Sales Engineer
ESRI

Eric is a Sales Engineer based out of Columbus, Ohio and he has been with ESRI for 7 years. Eric began his career with ESRI as an instructor teaching courses on ArcGIS Desktop and the Geodatabase. Since that time as an instructor, Eric spends his time presenting the ESRI product lines at conferences, seminars and other events. In addition, Eric spends time testing the software for the development teams, building demonstrations and working with customers to help develop workflows and solutions to their GIS business processes.

Abstract:
Early in 2009 ESRI unveiled the Resource Center for Water Utilities Management, the first of many resource centers designed around the needs of specific GIS user communities. This ½ day workshop will provide an overview of the user community resource centers for Water Utilities, Public Safety and Land Records, followed by demonstration of how you can implement the application templates for Land Records using real world data. Prerequisites: Users should have a general understanding of ESRI's Desktop and Server technology.

Track 3 - 8:30

Operational Use of Remote Sensing

Kevin Czajkowski – University of Toledo
James Lein – Ohio University
Other OhioView instructors

Dr. Kevin Czajkowski is Director of OhioView and Associate Professor at the University of Toledo . His research interests include land classification for watershed analysis and thermal remote sensing. **Dr. James Lein** is the former Director of OhioView and Professor at Ohio University . His research interests include the use of GIS and remote sensing to address environmental analysis for policy makers.

Abstract:
This workshop will focus on the operational use of Remote Sensing classification and the management of error and uncertainty. OhioView instructors will present applications throughout Ohio with explanations of data types, software and implementation.

Track 4 - 8:30

Intro to USNG for GIS Professionals

Talbot Brooks, Director
Delta State University

Talbot Brooks is Director of the Center for Interdisciplinary Geospatial Information Technologies at Delta State University, a GIT Branch Chief for the Mississippi Emergency Management Agency, and Deputy Chief of Bolivar County Volunteer Fire Department.

His career started in 1987 with the Wareham Fire Department where he worked as a paid firefighter. He left Wareham to pursue a college degree from the Rochester Institute of Technology through an Army ROTC scholarship and to serve as a volunteer firefighter/EMT in upstate New York.

Upon graduation in 1993, he was commissioned as a second lieutenant in the Medical Service Corps. He was then hired by the US Dept. of Agriculture's US Water Conservation Laboratory in Phoenix, AZ to work on his graduate studies and as a research technician developing remote sensing technologies for agriculture. His work at USDA investigated the potential effects of climate change on food supply and security.

Talbot left USDA to pursue a career as a research scientist for the Department of Geography at Arizona State University in 2000. During his tenure there, he focused on the application of geospatial technologies to public safety, homeland security, and community development. He left ASU in 2005 to join Delta State University in Cleveland, MS where he continues these activities.

Continued...

Track 4 - 8:30 - *Continued*

Talbot's significant projects and accomplishments include:

- Construction of the GIS used for the 2004 Tempe Presidential Debate and one of the base maps for the 2009 Inauguration
- Data collection and integration for the Phoenix Fire Department 911/CAD system
- Started the geospatial response to Hurricane Katrina for the Mississippi Emergency Management Agency
- 2006 ESRI Special Achievement in GIS Award Winner
- Best Speaker Award, 2006 & 2009 GITA Annual Conference
- Named one of the "Top 50 Professionals to Watch" by GPS World in 2007
- Board of Directors, GITA and Chair of the Emergency Response Committee
- Member National Fire Protection Association Data Standards Committee
- Invited speaking engagements to prominent organizations such as the National Fire Academy, National Academy of Sciences Mapping Science Committee, the European Geospatial Defense Conference, the Urban and Regional Information Systems Association, and the Geospatial Information and Technology Association about the application of spatial technologies to emergency management and response.

Developed by the Federal Geographic Data Committee and endorsed by FEMA and the National Search and Rescue Committee, the U.S. National Grid (USNG) is an easy to use system for identifying and determining locations with a USNG gridded map and/or a USNG enabled GPS system. Based on techniques used by the military for more than 50 years, it offers an inexpensive way for all components of the emergency response community to have a common geospatial frame of reference while serving as an "always ready" backup for high-tech systems. This workshop will cover some of the basics of USNG for reading and map production.

Wednesday Afternoon - 1:00

Introduction/Conference Opening

Stu Davis, Interim Chief Operating Officer, DAS/OIT/ISD
State of Ohio

Mr. Davis is the Interim Chief Operating Officer for the State of Ohio Department of Administrative Services Office of Information Technology (OIT) Infrastructure Services Division, overseeing Business Support, Enterprise Mainframe Computing Services , Enterprise Shared Services, Enterprise Windows Services, Multi-Agency Radio Communication System (MARCS) and Unified Network Services. Mr. Davis also serves as the Council Chair for the Ohio Geographically Referenced Information Program (OGRIP), oversees the activities of the OIT GIS Support Center, and is 12 year member and past president of the National States Geographic Information Council.

Stu's career spans 28 years focused on state and local government. He has 12 years of hands on experience in local government, 11 years in state government and 5 years in the private sector where he was a consultant to state and local government.

Wednesday Afternoon - 1:15

Keynote Address - The Public Health Distributed Geospatial Intelligence Network

Carl Kinkade, Enterprise GIS Coordinator
Center for Disease Control and Prevention

Carl Kinkade is the Enterprise GIS Coordinator for CDC in the Division of Applied Informatics Science in the National Center for Public Health Informatics. His undergraduate degree is in Architecture and his master's degree is in Community and Regional Planning from the University of Nebraska. He has been deployed to a number of countries in Africa and Asia for public health and humanitarian emergencies and spent time in Afghanistan building geospatial capacity. He is also a Certified GIS Professional (GISP) from the GIS Certification Institute.

Prior to coming to CDC, he worked as the Team Lead for the GIS Practice at BearingPoint, as a Health Industry Manager for ESRI, owned a consulting firm that specialized in GIS and Public Health working mainly with Nebraska Health and Human Services, and worked as the Assistant Epidemiologist/GIS Coordinator for the Lincoln-Lancaster County Health Department. In addition, he spent two years in the US Peace Corps in the Philippines as a local community development volunteer and twelve years in the US Army Reserves.

Wednesday Afternoon - 2:15

International Charter

Dick Kotapish, GISP, GIS Director
Lake County GIS Department

Mr. Kotapish, a GISP, has 22 years of experience implementing GIS for local govt. including geospatial implementations for the City of Cleveland, Geauga County and Lake County, Ohio. During Katrina, Mr. Kotapish worked for 2 weeks in the Mississippi EOC Control Room with GISCorps. He also is a member of the State of Ohio All-Hazards Type 3 Incident Management Team and is State of Ohio Project Manager for the International Charter. Mr. Kotapish is the leader of the GIS Users of Northern Ohio (GUONO)

Abstract:
International Charter: Space and Major Disasters - The International Charter is an international organization of the world's International Space Agencies which can provide valuable resources at no cost to Ohio for disaster response and recovery.

Wednesday, September 16, 2009

Wednesday Afternoon - 2:45

OGRIP Update

Stu Davis, OGRIP Council Chair
State of Ohio

Mr. Davis is the Interim Chief Operating Officer for the State of Ohio Department of Administrative Services Office of Information Technology (OIT) Infrastructure Services Division, overseeing Business Support, Enterprise Mainframe Computing Services , Enterprise Shared Services, Enterprise Windows Services, Multi-Agency Radio Communication System (MARCS) and Unified Network Services. Mr. Davis also serves as the Council Chair for the Ohio Geographically Referenced Information Program (OGRIP), oversees the activities of the OIT GIS Support Center, and is 12 year member and past president of the National States Geographic Information Council

Stu's career spans 28 years focused on state and local government. He has 12 years of hands on experience in local government, 11 years in state government and 5 years in the private sector where he was a consultant to state and local government.

Track 1 - 8:30

Implementing an Enterprise GIS Infrastructure

Chris Davis, GISP
City of Cleveland

Chris Davis, City of Cleveland, is a Certified GIS Professional with over ten years experience implementing and managing enterprise GIS projects for Public Utilities, State, Local, and Federal Governments. Skilled IT professional with extensive experience in project management, relational database design, system architecture design, application development and system integration.

Abstract:
Designing and implementing a sound GIS infrastructure is vital to the success of all GIS projects. It was especially crucial in the implementation of The City of Cleveland's Enterprise GIS. This presentation will discuss the challenges and constraints faced by the design and implementation teams, the technical design of the system architecture and infrastructure, including the use of virtualization technology and provide an overview of the vast array of software, hardware and data that encompasses Cleveland's Enterprise GIS.

Track 2 - 8:30

Terrestrial 3D Mobile Mapping

Dave Henderson, GIS National Sales Manager
Topcon

Steve Hatfield
Geoshack Ohio

Dave Henderson is The GIS National Sales Manager for Topcon Positioning Systems; Topcon is the worldwide leading developer and manufacturer of precision positioning equipment for precision GPS systems, laser, optical surveying, and machine control products.

Dave's career in the measurement and positioning business spans 25 years. Prior to joining Topcon Positioning Systems, Dave held several industry positions as a District & Regional Sales Manager of Surveying, GPS & GIS Mapping products.

Today Dave's primary business focus is business development and sales of Geospatial Mapping Solutions through Topcon's GIS distribution network.

Abstract:
Join us for this exciting and informative presentation which describes a new revolutionary way to collect accurate GIS data quickly and safely from a vehicle. Using a plug and play combination of sensors including LIDAR, GNSS tracking and positioning, digital imaging and Inertial Measurement Unit (IMU) technology, this flexible IP-S2 system from Topcon acquires accurate 3D "point cloud" data combined with a colorful digital image of the site.
The position data is accurately time stamped and georeferenced and can be used to assign GIS attribute information or make calculations from the comfort of your office. Measure distances between features or the lengths and widths of features on the screen. With the IP-S2, field re-visits are eliminated and field personnel are safe as all data is mapped from inside the vehicle. Data can be exported to a GIS database and taken back into the field on handheld devices for periodical field update and maintenance. The IP-S2 maintains accurate positioning in obstructed areas such as under bridges and through tunnels. Applications include asset management and engineering.

Thursday, September 17, 2009

Track 3 - 8:30

Case Study, Franklin County, Ohio Location Based Response System (LBRS) - Mid -Ohio Regional Planning Commission (MORPC) Project First Legacy Integrated Large Scale LBRS Project

Craig Schorling, GISP
Todd Pulsifer, Operations Manager
Transmap Corporation

Craig Schorling has been in the GIS transportation business for over 12 years. He has also been with Transmap for 11 of those 12 years. He has extensive background and knowledge pertaining to roadway infrastructure. Craig has been part of the GIS community for over 16 years and has received his GISP status. Craig's main focus is helping Cities and Counties track and maintain GIS infrastructure. Craig helped win stimulus funding for Cities and Counties like El Paso, Texas who put to work 171 people with 8 million dollars of stimulus money. Craig is a graduate of the State University of New York, Albany with a major in Geography.

Todd Pulsifer has 10 years of experience implementing GIS and enterprise asset management solutions for Utility and Public Works clients. As Transmap's Operations Manager, Todd ensures Transmap stays abreast of the latest technology trends while working with clients to define user requirements, oversee the development of related datasets, implement QAQC programs, and manage projects to completion. Todd has a B.S. in Geography from George Mason University and a MBA from the University of Richmond.

Abstract:
Transmap has worked with MORPC on a 2 phase centerline and address collection/ verification project which is the first of the LBRS projects to use legacy data collected from local municipalities and the Franklin County Engineers COMBAT project.

Over 5600 centerline miles and 600,000 addresses have been integrated or verified in accordance with the LBRS data specifications. Now Franklin County is the only large scale urban LBRS County done to date in the state of Ohio.

This project was a collaboration of Franklin County and many local municipalities, as well as E911, COTA, and Fire Officials in order to better the Location Based Response System. Once the product is finished, 911 will be able to speed up response time and tie into GPS devices on newer cell phones.

COTA will have the capability of bus routing for Paratransit. The centerline map can help Franklin County and the City of Columbus with snow plow, trash and street sweeper routing. Franklin County is the only county to use Legacy data integration in their LBRS system.

View the Columbus Dispatch Article that was written about the LBRS/MORPC Project.
http://www.dispatch.com/live/content/local_news/stories/2009/02/16/911map.ART_ART_02-16-09_A1_5FCTPU4.html

Track 4 - 8:30

Assessing Development Pressure on Agriculture Land Using Ohio Department of Agriculture's Agricultural Easement Purchase Program Criteria

Scott F. Snider, GISP, GIS Supervisor
Knox County Map Department

Scott Snider is the GIS Supervisor for the Knox County Map Department in Mt Vernon. He is also currently serving as the Vice-chair for the Ohio Chapter of URISA. He earned his GISP credentials in the fall of 2008 shortly after being promoted from GIS Technician II from the same department. Scott earned his M.A. from Ohio University in Geography with focuses in GIS and Environmental Geography and his B.A. from Wittenberg University in Geography and Environmental Science.

Abstract:
Knox County is located in North-Central Ohio and covers 532 square miles of land. Sixty percent (60%) of this land is used in agricultural production, with annual cash receipts totaling $66,001,000 (Source: Ohio County Profiles, Ohio Department of Development).

Agricultural land in Knox County is constantly under pressure to be developed for residential land use due to the outward expansion of people away from cities. The Ohio Department of Agriculture has developed the Agricultural Easement Purchase Program to permanently protect farmland from such development.

In cooperation with the Philander Chase Corporation and the Knox County Soil & Water Conservation Office, the Knox County Map Department has developed a countywide analysis of development pressure by using the scoring criteria of the Ohio Agricultural Easement Purchase Program as a template.

The purpose of this project is to identify farms that could score very high if they applied for the agricultural easement program; these landowners can then be informed about the program and encouraged to apply. In the future it is also possible that Knox County could use this project to develop its own agricultural protection program to further protect its land resources and land-based industry.

Thursday, September 17, 2009

Track 1 - 9:10

Enterprise Service Oriented Architecture and GIS

Joe LaCombe
Woolpert

Mr. LaCombe has 10 years experience in the GIS industry. Joe has spent the last 6 years architecting and developing server-based GIS solutions using technologies such as ArcGIS Server, ArcObjects, .Net and Flex.

Abstract:
Within a local government, regardless of the size, there are numerous systems and environments where information is stored throughout the enterprise - including the GIS. Integration between these systems has become essential as agencies become more digital and automated. GIS can play a critical part in this integration as a way to tie information together. This presentation will focus on how GIS, specifically ArcGIS Server, has been used to develop an advanced Service Oriented Architecture for integrating various systems resulting in a more efficient and effective enterprise.

Track 2 - 9:10

District 2's Intelligent Mobile Mapping Pilot

Fred Judson, GIS Professional
Ben Cordes, GPS Coordinator
John Puente, GIS Coordinator
Ohio Department of Transportation

Fred Judson is a certified GIS Professional from the GISCI. Education includes BS from Excelsior and a Post-baccalaureate Certification in GIS from Pennsylvania State University. Over 8 years experience in Geographic Information Systems. Responsible for the execution and the integration of district's enterprise GIS standards including GIS web implementations and applications. Current affiliations include holding the office of Chair for the Ohio URISA, and various other committees and GIS groups.

Ben Cordes, GPS Coordinator for ODOT district 2: Associate degree in forestry and certificate in GIS from Penn State, certified through the American Congress of Mapping and Surveying and the National Society of Professional Surveyors and current holder of GIS professional certificate. Over 16 years experience in land surveying and construction surveying. 12 years experience in Global Positioning Systems and GIS active member in Urban and regional information systems association (URISA).

John Puente has over 11 years as the ODOT District 1 GIS Coordinator and over 19 years experience in CADD. John is responsible for all GIS related activities in the district. Experienced in data management, desktop and web geospatial application development as well as geospatial analysis. Currently assisting with the development of ODOT wide GIS standards and currently active in various other committees and GIS groups. *Continued...*

Track 2 - 9:10 - *Continued*

Abstract:
This presentation is on the Ohio Department of Transportation District 2's research of an efficient means of collecting assets and streamlining ODOT's business processes through the emerging spatially aware imaging technologies. This presentation will be covering the districts efforts to enhance its services and present its results from the ODOT wide pilot which began on July 20th in District 2. We will cover the integration of spatially aware mobile video with the state-of-the-art pavement sensors into one mobile solution that enables ODOT to operate more efficiently and enhance its services to its customers. Through the use of spatially enabled Imagery, the district will be able to efficiently extract its roadway assets and in effect give everyone a virtual GPS unit on their desktop. By using this tool ODOT will be able to reduce the amount of time spent collecting data and increase savings by eliminating unneeded passes on the highway, reducing equipment needs and more efficient operations.

Track 3 - 9:10

Next Generation 9-1-1 is now. Is your GIS ready?

Marc Berryman, GIS Manager
Digital Data Technologies, Inc.

Marc Berryman joined the DDTI team as 9-1-1 Services Director after working as a GIS consultant for several Fortune 500 companies, and most recently as the GIS Manager for the Greater Harris County 9-1-1 Emergency Network.

Marc has been involved in management and coordination of projects ranging from regional mapping and data sharing, to wireless Phase II implementation and more. Marc serves on many national GIS committees, and regularly instructs GIS courses at conferences across the country.

Abstract:
Does your GIS allow you to get the right information to the right people at the right time? If not, you'll learn how at this must-see session, presented by Marc Berryman, ENP. Your GIS--and how you create, use, maintain and share it--holds the key to 9-1-1 accuracy. Learn how your point-based, field verified address database can withstand the heightened requirements of Next Generation 9-1-1 technology, supporting advanced mapping, routing and tracking functionality.

IP-based incident command applications and three-dimensional mobile routing using your local GIS only work if your GIS data is accurate. Learn about the new norms of address validation and emergency routing databases, plus the proper way to synchronize and maintain changes in emergency service providers, ESZs, roads and sites. As the industry looks forward to this new set of standards to maximize interoperability, the time to prepare is running out.

Thursday, September 17, 2009

Track 4 - 9:10

GIS applications for a metropolitan housing authority

Jung-Wook Kim, Planning and Development Specialist
Akron Metropolitan Housing Authority (AMHA)

As Planning and Development Specialist at AMHA, **Jung-Wook Kim** participated in planning and development projects applying GIS in a variety of planning research, community development, and asset management. He prepared a variety of funding applications and development proposals including HOPE VI and Ohio Green Communities grants. He also applied a GIS-based planning support system (What if?TM) for the analysis and projection of regional land use changes, urban sprawl, and farmland loss in Ohio.

Abstract:
Akron Metropolitan Housing Authority (AMHA) is not only one of the largest HAs, but also a leading HA in this country. AMHA's housing portfolio includes approximately 4,500 low-income public housing units and 4,700 of housing choice vouchers.

AMHA has used GIS to support and streamline a variety of planning, decision-making and management processes. GIS planner supported AMHA with its exceptional functionality including spatial data inventory, spatial analysis, and visual display that provides a geographic location context.

For the last several years, AMHA's planner has employed ArcGIS to create and modify diverse sets of planning information in the process of asset management and neighborhood revitalization planning, resident relocation program, property acquisition management, resident supportive services and program evaluation and monitoring.

The presentation will go over a variety of GIS applications that helped a large public housing authority in planning and assisting decision-making processes in the abovementioned disciplines.

Track 1 - 9:50

Online Data Distribution

Joe Merritt, GIS Manager
Clinton County Engineers Office

After completing a degree in Elementary Education and a brief stint as an elementary school teacher, I began working on a Master's degree in 1988. During this time I began work as an Automated Mapping Technician for a consulting firm whose primary client was Indiana Bell Telephone in Indianapolis, Indiana. After two years, I accepted a position with the City of Indianapolis, Department of Transportation.

Continued...

Track 1 - 9:50 - *Continued*

For five years, I worked as a GIS Analyst on the IMAGIS database with the Department of Transportation, using Synercom's InforMap software. It was during this time that personal computers started to come of age, and I embraced the idea that all of this mapping data could one day be used by anyone on a desktop, personal computer. After a little more than five years with Indy DOT, I took a position as Regional Sales Manager for Hansen Information Technologies, and traveled about the mid-west for two years managing client's accounts and promoting the concept of using a GIS for asset management.

In 1997, Convergent Group a consulting firm based in Englewood CO was awarded a contract with the City of Indianapolis to re-build the city's GIS initiatives. I accepted a position with CVG as a GIS Support Analyst. During my two years with the company, I was part of an excellent team of professionals that took the city's GIS user base from less than 100 to over 500. Shortly after a transfer to the city of Columbus to work on a similar contract, I took the position of GIS Manager for Clinton County, Ohio. I have worked in Clinton County now for more than ten years, and am proud to say that GIS is now an integral part of the day to day work flow of each county office. Our service continues to evolve and grow to meet the challenges facing local governments of the 21st century. It is always important to continue educating one's self and to that end I have recently completed another degree, in Business Administration. I continue to proudly serve the citizens of Clinton County Ohio.

When our GIS Department began more than a decade ago, there were very few tools by which folks could gain access to GIS data. Over the last few years, with the advent of easy to use and easily accessible GIS and mapping applications there is now a plethora of ways that people can gain access to this data. My career in GIS has spanned more than two decades and I have spent the vast majority of this time answering the age-old question of "How can I get this stuff out of my office so people can use it?"

Abstract:
My presentation will focus on how Clinton County distributes and uses GIS data through a multi-tiered approach, utilizing interactive mapping web pages, through the use of applications such as Google Earth, ArcGIS Explorer, ArcReader, etc. and through making all of our data available to the public for download, including thousands of scanned maps ranging from 1810 through to the present. We are all about getting people in a position where they can help themselves answer the questions that they have using the products, tools and support that we provide We have also gone to great lengths to offer our data in formats such as intelligent PDF files, shapefiles, GeoDatabase, and in LiDAR specific data formats, to name but a few. We have found through experience that providing data is not the end of the consumer – government relationship; it is the beginning. My presentation will outline how we have been very successful in accomplishing the missions that each and every GIS Department.

Track 2 - 9:50

Integrated GIS, AVL, and Radio Communications: A Case Study of the Holmes County Highway Department

Erik Parker, GIS Director
Holmes County

Erik Parker has been a GIS professional for the past 15 years having worked on hundreds of projects in both the public and private sector. He is presently the GIS Director for Holmes County, Ohio and Chief Operating Officer of EOC2GO, a firm that specializes in mobile emergency operation centers and continuity of operations solutions. The AVL application discussed at the Ohio GIS conference will be featured in a soon to be nationally released case study by Motorola.

Abstract:
Holmes County GIS has developed a system that integrates its web based GIS and the county's newly installed digital radio system to create a county owned and operated automated vehicle location (AVL) system. The system is presently being tested and refined in the county's highway department, but will soon be utilized throughout the emergency services and other relevant areas of government in Holmes County. The system combines ESRI's ArcGIS Server and Motorola's MOTOTRBO products into one system that allows the Holmes County Engineer to track all the motorized assets of the department. The tracking allows for real-time positional knowledge to ensure accountability to the public, security of expensive equipment, and the safety of employees. This presentation will focus on the development of this integrated system, the practical application of this system, and the planned future enhancements to the system. This presentation is relevant to any agency that is investigating options for developing an in-house AVL system that leverages existing investments in web based GIS technology and/or digital radio systems.

Track 3 - 9:50

An Example of a Successful State-Wide Enterprise GIS Program and its Impact upon Safety Data Systems

Jeremiah Glascock, Crash Data and GIS Manager
TSASS, Inc.

With Traffic Safety Analysis Systems & Services for over four years acting as GIS program lead and currently the Crash Data and GIS Manager, **Mr. Glascock** has over four years experience with the integration of Linear Based Referencing Systems (LBRS) and non-LBRS base files for crash data location processing and is responsible for developing GIS / Web-based Mapping extensions to the Ohio Safety Information System (OSIS).

Continued...

Track 3 - 9:50 - Continued

To date, TSASS scrubs and locates 15 county and three Metropolitan Planning Organizations consisting of Mid-Ohio Regional Planning Commission , Lima-Allen Regional Planning Commission and Erie Regional Planning Commission; all which represent up to half of all crashes per year in the sate of Ohio. Mr. Glascock oversees day-to-day crash data scrubbing and location work on Ohio's statewide crash data. In addition, Mr. Glascock has spoke at several national and local conferences on the importance of a comprehensive LBRS. As a NASA fellow, Mr. Glascock studied Civil Engineering, Surveying and Geomatics Engineering at The Ohio State University where he received his bachelor's degree in 2006.

Ron Cramer, Owner
Digital Data Technologies, Inc.

A founder of Digital Data Technologies, Inc., **Mr. Cramer** assisted in the development of the company's solutions for GIS and E9-1-1, and was a proud collaborator in the original pilot project for Ohio's Location Based Response System (LBRS). To date, DDTI has successfully mapped more than 1.6 million address points and nearly 60,000 centerline miles to meet the high accuracy standards of the LBRS. Clientele across 12 states employ DDTI's proven E9-1-1 solutions, and more than 30,000 users around the world have downloaded DDTI's AccuGlobe GIS software.

Mr. Cramer is actively involved in intelligent transportation systems and was nominated and appointed to the ITS mid-America Executive Committee for the years 1997 to 2003. He has been a guest speaker at numerous conferences discussing topics related to GIS, emergency response location mapping and transportation engineering. Mr. Cramer has chaired the Urban and Regional Information Systems Association (URISA) Street Smart and Address Savvy Conference, which is now known as the URISA and NENA Addressing Conference. Mr. Cramer is a member of URISA, the National Emergency Number Association (NENA) and has affiliations with numerous other organizations. He has written feature articles that have appeared in The Ohio Engineer, Roads & Bridges, Illinois Engineer, Michigan Engineer, P.O.B. and Photo Electronic Imaging.

Mr. Cramer studied Civil Engineering and Computer Science at Michigan Technological University, and has a degree in Business from Eastern Michigan University.

Continued...

Track 3 - 9:50 - *Continued*

Abstract:
The goal of this presentation is to describe the LBRS Data Collection Methodology with respect to Ohio's successful state-wide enterprise GIS Program. We will discuss the many benefits to an LBRS system with respect to Traffic Safety Data. When created at these highest of standards, the data can enhance not only your inventory of roadway assets and address points, but it can provide a funding mechanism for your roadway safety needs enabling you to accurately locate crashes and determine high hazard locations; act as the foundation for reliable mapping in Next Generation E9-1-1 applications; streamline workflow via always accurate data at the fingertips of those who need it; Topics we will discuss: What compels local and county government to develop the Linear Referencing System data the DOT needs How the field-verified centerline and address data is maintained at the local level without versioning issues. Why you can expect to achieve crash data location success rates of 95% or better using an LBRS dataset. Why Ohio expects 100% return on a yearly basis from an estimated increase in its share of FHWA safety dollars. The convincing results when examining a side-by-side comparison of crash data processed with and without an LBRS dataset. How using accurate and complete LBRS data results in more efficient crash data processing and analysis.

Track 4 - 9:50

Central Ohio Bike Users Map

Bernice Cage
Cheri Mansperger, GIS Specialist
Mid-Ohio Regional Planning Commission (MORPC)

An employee of the Mid-Ohio Regional Planning Commission for twenty years, **Bernice Cage** developed the Regional Bikeway that is part of MORPC's 20-year regional transportation plan. Bernice has authored several Best Practices for communities and bicyclists. Bernice Cage, a graduate of The Ohio State University, has been a resident of Franklin County for over 20 years. She is a member of the League of American Bicyclists, Association of Pedestrian and Bicycle Professionals, International Association

Cheri Mansperger has worked for MORPC for 10 years as a GIS Specialist. She has a degree in Geography and has been working in the GIS field for more than 20 years.

Abstract:
MORPC developed a "bike users map" of the greater Columbus area for the City of Columbus and Consider Biking. The map was generated through GIS by assigning "bicycle friendliness" factors to road segments using a published Bike Level of Service (BLOS) model. The original model was a statistically validated model that incorporated speed limits, lanes of travel, traffic volumes, truck traffic, pavement conditions and shoulder widths. The model application was not pure due to limited time and resources to collect accurate data, but the GIS exercise produced a starting point for the expert biking community to have a quantitatively produced map to review. MORPC "borrowed" data from other sources including the ODOT road inventory and the MORPC travel demand model. Quality assurance measures were followed to assure the best results of data transfer. Initial model results did not produce uniformly reasonable results. MORPC post-processed the model results by assigning normalized scores from 0 to 1 to each variable of each segment, and then combining them into one score for each segment using weighted factors. The weights for the four scores were based on a non-scientific survey MORPC conducted to solicit levels of importance of the bike friendliness variables. The segments were assigned Good, Moderate, or Poor based on their value. Finally, workshops were conducted with bicyclists to check the map for validity based on their own real biking experience.

Track 1 - 10:50

Improving Citizen Service and Access with GIS

Derek Mair, Director
EMH&T, Inc.

Mr. Derek Mair is a Computer and Information Science graduate from The Ohio State University and holds a Masters of Information Systems Management from Keller Graduate School. He has been with EMH&T, Inc. since 1988 and is the Director of Geospatial Solutions. Mr. Mair has been applying his skills to both public sector and private sector technology implementations. He is responsible for managing the creation of GIS, EDMS and Asset Management systems for EMH&T's clients.

Abstract:
Attendees will learn how using GIS-based solutions for service requests and work orders can enhance citizen service and access. As a result, asset operation and maintenance programs within their organization are also improved. The seminar will include a City of Hilliard case study. EMH&T will present a framework with which each attendee can logically consider the application of these tools within their own municipality.

Track 2 - 10:50

Automated Feature Extraction - More Than The Eye Can See

Brian Stevens, Project Manager
Aaron Lawrence, Project & Operations Manager
Woolpert Inc.

Brian Stevens is a graduate of the Ohio State University and has a background in GIS, photogrammetry and geography. Brian has been with Woolpert for 13+ years and is currently assigned as the Woolpert Project Manager for the Ohio Statewide Imagery Program.

Aaron Lawrence is a project and operations manager for GIS, survey and remote sensing projects. He is highly regarded as a GIS specialist whose skills span multiple disciplines. As a project manager, he is responsible for managing workflows as well as developing and maintaining budgets, project scopes and quality control procedures. He is also responsible for facilitating communication between team members, management and clients. He interprets specifications from statements of work; organizes projects; performs analysis; and prepares and maintains data.
Aaron has experience using numerous types of GIS and remote sensing software, as well as GPS and conventional survey equipment. Some of these include: ArcGIS, ArcInfo, Map Info, Definiens, ENVI and Erdas. He is also skilled at using: Trimble surveying equipment; Leica surveying equipment; Sight Survey and COGO software; AutoCAD and MicroStation.

Continued...

Track 2 - 10:50 - *Continued*

Abstract:
This presentation will demonstrate automated feature extraction using digital ortho-imagery, LiDAR and existing GIS data. We will discuss how the digital camera sensor and LiDAR capture data which is beyond the visible spectrum, providing an additional level of information not widely used. Using this information, the presentation will demonstrate how impervious surfaces, buildings, landuse/landcover classifications, woodland delineation and many others can now be produced to save time and money.

Track 3 - 10:50

GIS and Global Public Health

Carl Kinkade, GIS Coordinator
CDC

Carl Kinkade is the Enterprise GIS Coordinator for CDC in the Division of Applied Informatics Science in the National Center for Public Health Informatics. His undergraduate degree is in Architecture and his master's degree is in Community and Regional Planning from the University of Nebraska. He has been deployed to a number of countries in Africa and Asia for public health and humanitarian emergencies and spent time in Afghanistan building geospatial capacity. He is also a Certified GIS Professional (GISP) from the GIS Certification Institute.
Prior to coming to CDC, he worked as the Team Lead for the GIS Practice at BearingPoint, as a Health Industry Manager for ESRI, owned a consulting firm that specialized in GIS and Public Health working mainly with Nebraska Health and Human Services, and worked as the Assistant Epidemiologist/GIS Coordinator for the Lincoln-Lancaster County Health Department. In addition, he spent two years in the US Peace Corps in the Philippines as a local community development volunteer and twelve years in the US Army Reserves.

Abstract:
CDC has been using GIS for decades but as the demand for geospatial analysis and visualization grows across the globe, so do the difficulties to meet those demands. Over the past four years, I have traveled the globe responding to events such as the Cyclone that hit Myanmar to the Rift Valley Fever outbreak in Kenya. I have assisted CDC and Ministries of Health build geospatial capacity by training staff through CDC lead initiatives in Uganda, Thailand, and Namibia and universities in Afghanistan through the GIS Corps. In addition, I have help Saudi Arabia set up a mobile surveillance system prior to a few million pilgrims coming to Mecca for Urmrah and the Hajj. This presentation will discuss these trips and how GIS is changing how public health responds to emergencies and prepares for future potential events.

Track 4 - 10:50

Intro to USNG for GIS Professionals

Real Estate Portal USA: A web mapping platform towards a national seamless parcel layer

Joseph Harwood, Co-founder
Real Estate Portal USA

Joe Harwood is a partner with Real Estate Portal USA as well as a partner with Geoplex Consulting LLC, both based out of Cleveland. For the past 9 years, Joe has been in both government and the private sector providing geo-spatial solutions and consulting. Since co-founding Real Estate Portal USA, he has been key in parcel data acquisition, and database integration. As a Masters and Ph.D. student at Kent State University, Joe's research interests include remote sensing and GIS of meteorological phenomena.

Abstract:
Real Estate Portal USA (http://reportallusa.com/) has built a free national web-based mapping site that serves specific markets such as real estate, GIS, lenders, insurance, and government. What began as a local site built to cross Ohio's jurisdictions has grown to cover tens of millions of parcels in hundreds of U.S. counties. Our data architecture solves the problems associated with non-standardized parcel data between counties, regions and states. We import and derive many important attributes from different counties into a normalized database. Our platform presents any user the ability to search on a neighborhood to a national scale. Through our powerful query tool, we customize and present enriched, cleaned data suitable for multi-county, regional, state wide, or even national analysis. Data extraction in both ESRI Shapefile and Google KML, as well as Excel spreadsheets and PDF reports are all types of output available to users. Any search result links to a variety of fully integrated web-based mapping systems e.g. Google StreetView or MS Bing Mapping oblique view, are just a click away. Also, a click on a result will jump to a pre-queried county auditor's page for full parcel detail. Other county resources such as Recorder and GIS sites are direct linked where possible. Additional features such as environmental (Flood zones, Wetlands, & Soils) and demographic (Census blocks and groups) are just a few of the resources included in the mapping system.

Thursday, September 17, 2009

Track 2 - 11:30

CAD and GIS Interoperability using FDO (Feature Data Objects)

Rick Johnston, Geospatial Solutions Specialist
Autodesk

Rick Johnston, based in Bellbrook, Ohio, is a Geospatial Solutions Specialist for Autodesk. With over 20 years of experience in the Engineering and Geospatial industries he has served in various capacities with an AEC firm. Since joining Autodesk over 5 years ago as a member of the Autodesk Geospatial Technical Specialist team he has worked with a wide variety of customers in implementing geospatial solutions that include desktop and web mapping utilizing Autodesk solutions. He is an expert in a variety of databases including database design and implementations (notably Oracle) with Autodesk geospatial products that employ FDO (Feature Data Object) technology.

Abstract:
This presentation will go over the fundamentals of being able to read and edit both CAD and GIS formats using FDO technology. Attendees will see how using FDO we can connect and edit GIS data in formats like .SHP and ArcSDE as well as Oracle and SQL Server. Learn how simple an enterprise solution can be by using tools you already have and leveraging free spatial databases like Oracle XE and SQL Server Express. We will view how you can use free technology to distribute you CAD and GIS data to the field using a FREE Autodesk format called DWF. Also we will see how using traditional GIS datasets we can georeference your legacy CAD data so it can be used with other Geospatial applications.

Track 3 - 11:30

MECCMap, A Fire Department GIS Mapping Application

Jason Miller, GIS/Mapping
Plain Township Fire Department

Jason Miller is a 16 year veteran of the fire service and has been with the Plain Township Fire Department in New Albany for the past 6 years. He also works for the Metropolitan Emergency Communications Consortium (MECC), a regional dispatching agency serving 6 fire departments on the east side of Columbus. He is responsible for GIS/mapping and has developed MECCMap, an in-vehicle GIS mapping application specifically tailored for use in the fire service. Jason resides with his wife Kim and 2 children in Holmes County, Ohio.

Abstract:
In 2005, Plain Township Fire Department and multiple surrounding departments formed the Metropolitan Emergency Communications Consortium (MECC), an effort to regionalize and consolidate fire department dispatching and resource sharing. MECCMap was created from this initiative using Visual Basic and ESRI's ArcReader technology which relied on GIS data available from the Franklin County Auditor, City of Columbus, and other municipalities and agencies. The ArcReader model was used because of the ability to install it on an unlimited number of computers without having to pay additional license fees and distributed to all of the MECC agencies. MECCMap was refined to accommodate data from different counties without having to merge or consolidate GIS data, allowing each county to utilize data in its original form. Further development allowed the sharing of crucial pre-plan data, enabling agencies to obtain information about neighboring jurisdiction's properties in the event of a large emergency.

Track 4 - 11:30

Practical Applications of LiDAR Data

Benjamin Houston, Engineer
GroundPoint Technologies, LLC

Ben Houston is a licensed Engineer in New York, and has worked in a range of engineering and geospatial positions in the Planning, Public Works, and Health Departments at the County level. He also spent 12 years as an Army Officer first as a Topographic Engineer and later as a Public Health Engineer. He has a BS in Geological Engineering and an MS in Hydrogeology and is currently a principal at GroundPoint Technologies, providing LiDAR and terrain based value added GIS services.

Abstract:
LiDAR data presents both opportunities and challenges for GIS Professionals, Engineers, and Surveyors integrating high resolution topographic data into enterprise GIS frameworks as well as into project based analysis and design. This presentation will highlight a range of current and projected uses for LiDAR data beyond the development of DEMs and contours. Examples will include the use of LiDAR derived elevation data in variable source area hydrology (VSA) modeling, urban and suburban stormwater runoff catchment mapping, and in the development of breakline data to support local resolution updates to the National Hydrography Dataset. Finally, the presentation will discuss how the use of LiDAR data to support three dimensional landscape visualization is now becoming more practical and cost effective, bringing the technology within the grasp of most municipalities and local government agencies. At the end of the presentation, the audience will better understand how high resolution elevation data, along with vector and image datasets, now comprise one of the three fundamental pillars of GIS framework data.

Buffet Lunch - 12:10—1:10

There is No Spoon

Brandon Brown, GIS Administrator
City of Dublin

Brandon Brown has been heavily involved with GIS and public service for the past 16 years. He is in his seventh year as The City of Dublin's GIS Administrator. Previous to joining the City, he was employed as a GIS Analyst/Programmer for Livingston County, Michigan and Lucas County, Ohio. Brandon holds a Master of Community Planning degree from the University of Cincinnati and a Bachelor of Science in Geography from Ohio University.

Abstract:
Borrowing a line, and a line of thinking, from The Matrix, we will explore some of the confounding questions that arise when trying to model the real world as GIS data. Join us on this mind bending trip where we will explore some of the following… How did that driveway become a road? If a sign is moved, is it still the same sign? Did we really give that outhouse an address? Where did my stream go? So many land uses, so little land. Hand grenades and horseshoes. Does a place have a tree or a tree have a place? What is more real, what you measure or what you see? Basins, Masons & Jasons? … and more.

Track 2 - 1:10

ETL for GIS - What's it all about?

Derek Mair, Director
EMH&T, Inc.

Mr. Derek Mair is a Computer and Information Science graduate from The Ohio State University and holds a Masters of Information Systems Management from Keller Graduate School. He has been with EMH&T, Inc. since 1988 and is the Director of Geospatial Solutions. Mr. Mair has been applying his skills to both public sector and private sector technology implementations. He is responsible for managing the creation of GIS, EDMS and Asset Management systems for EMH&T's clients.

Abstract:
Extract, Transform and Load (ETL) tools can play an important part in the on-going GIS configuration for organizations. EMH&T will define and demonstrate ETL tools and then present a case study where ETL was critical to achieving the project objectives and how it was configured. If you have never seen ETL tools in action or if you struggle with publishing data from a variety of formats and/or platforms, this presentation would be of interest to you.

Track 3 - 1:10

Meeting NFPA 1710: Using GIS to Model Ideal Fire Station Allocation

Jennifer Weisser, GIS Coordinator
Deerfield Township

Jennifer Weisser is the GIS Coordinator for Deerfield Township in Warren County. She also teaches part-time in the Geography Department at Wright State University. She received her Master's of Public Administration from Wright State and her Master's in Geography from the University of Cincinnati.

Randall W. Hanifen, Lieutenant and Professor
University of Cincinnati/Deerfield Township

Randall W. Hanifen is a Lieutenant for West Chester Fire, an adjunct professor at the University of Cincinnati Fire Science and Emergency Management Program, and a Fire Service Consultant. He has a B.S. in Fire Administration, an M.S. in Fire Service Executive Leadership and is currently pursuing a Ph.D. in Executive Management of Homeland Security. He is the associate author of Disaster Planning and Control. He is beginning a GIS for the Fire Service book with Jones and Bartlett.

Abstract:
The National Fire Protection Association (NFPA) has set time objectives for emergency call responses with a target of reaching 90% of calls within 6 minutes. Through a collaborative GIS/ Fire Department effort, a GIS model based on network distance was created and statistically validated. Various forms of analysis can be performed once the model has been confirmed such as calculating the existing service areas for the current configuration of fire stations, alternative scenarios of fire station arrangements, impact of preempting devices on service areas, evaluation of the borders of the emergency response zones, location allocation, and assisting with the accreditation process.

Track 4 - 1:10

GIS for Ohio Conservation

Aaron Lantz, Soil Information Coordinator
ODNR - Division of Soil & Water Conservation

Aaron Lantz is the Soil Information Coordinator at the Ohio Department of Natural Resources - Division of Soil and Water Resources where he has worked since 2001. He assists Ohio watershed coordinators and county Soil and Water Conservation Districts in the use of GIS and digital soils data. Aaron began his career at ODNR as a field Soil Scientist for the Ohio Cooperative Soil Survey. He has a Bachelor of Science in Natural Resources and a Master of Science in Soil Science from The Ohio State University and GIS certification from Columbus State Community College. Aaron is also a Certified Public Manager and a Certified Professional Soil Scientist.

Abstract:
A web-based enterprise GIS application to service and promote spatial resource sharing among local decision makers is under construction. The application will allow local data to be included alongside State and Federal data and serve as the core for various analysis tools, making the data useful to a variety of conservation and natural resource planners. The Ohio Department of Natural Resources and the State GIS Support Center are building this application on an Arc GIS Server platform. This presentation will detail why the project is being done, how the project is being constructed and what capabilities the application will have when completed in 2010.

Track 1 - 1:50

A Regional Address Management Strategy | Phase I | Buy In

Xander Mavrides, GIS Manager
City of Cleveland

Xander Mavrides is the GIS Manager for the City of Cleveland. He has over 14 years of GIS design, build, and management experience within public, private, and non-profit sectors.

Abstract:
Cleveland Water (CWD) services 640 square miles and provides water to more than 1.5 million citizens. This translates into over 635,000 physical service addresses throughout multiple counties. As one of the nation's 10 largest water utilities, CWD has committed to GIS in managing its distribution system and service-address database. A number of data sources feed the Cleveland GIS address GeoDatabase. Due to complexities in dealing with multiple agencies, database schemas, end-user needs, and politics, Cleveland GIS would like to establish a regional addressing consortium and address management system. The purpose of this presentation is to inform Ohio agencies of CWD's desire to develop a GIS based regional address management strategy & system. This data management and data sharing effort will utilize GeoDatabase replication technology while building on the address data scheme established through the State's LBRS program. The result will provide current and consistent address data while maintaining local and authoritative control.

Track 2 - 1:50

Web GIS, Taking Advantage of the Cloud

Daniel Haag, Technical Sales Manager
Mark Dann, Senior Account Manager
Environmental Systems Research Institute (ESRI)

Dan Haag is a Technical Sales Manager with the Environmental Systems Research Institute (ESRI) and works in the St. Louis Regional Office. Dan has been working with ESRI for nearly 13 years and began his career developing custom GIS applications that leveraged ESRI's Desktop and Server software. In his current position, Dan is responsible for leading a team of sales engineers who work with ESRI sales staff to develop GIS solutions that support customer business requirements. Additionally, Dan is often involved with marketing ESRI technologies and best practices by participating in regional conferences, seminar series and user group meetings.

Mark Dann is the Senior Account Manager for state government for Ohio, Indiana, and Kentucky. Mark is also the local government team lead for the ESRI office in Columbus, Ohio which covers Ohio, Indiana, and Kentucky. Mark has been employed in the GIS industry for over 20 years with ten of those years with ESRI.

Abstract:
This session discusses the most recent pattern for GIS, "Web GIS" and how it compliments existing patterns of a GIS like Desktop and Enterprise. Together, these three fundamental patterns provide a more powerful and complete Geographical information eco system. We will review the key aspects of a Web GIS, how it relates to the other components and the latest technologies, including cloud computing, that have enabled this new concept.

Track 3 - 1:50

Critical Infrastructure of Muskingum County Schools 360 Degree Program

Andrew Roberts, Executive Director
Muskingum County

Andrew Roberts graduated from Ohio University in 2003 with a BS in Geography, moving back to his home county Andrew was able to secure an internship with the fledgling Muskingum County GIS Department. In the spring of 2004 Andrew became the first full time employee of Muskingum County GIS, and in the fall of 2005 was named Director of the department. In the spring of 2006 Andrew was appointed as the Executive Director of the Muskingum County Planning Commission, and has served these duties to date. Mr. Roberts' focus for Muskingum County's GIS program has been one of a progressive nature. With limited funds and more limited man power the Muskingum County GIS Department strives to get the biggest bang out of every action. Andrew's 2009 projects have included: Mapping Historical Annexations, Inventory of Downtown Parking - Zanesville Ohio, Muskingum County Schools Critical Infrastructure, and the Production of Muskingum County Chamber of Commerce Map. Andrew lives in Zanesville, Ohio with his daughter Briana, and is currently running for Zanesville City Council At-Large, in his spare time he enjoys home restoration, camping, hiking, and social events.

Scott Yoder, GISP, Regional Technical Manager
Pictometry International

Scott T. Yoder, GISP is a Regional Technical manager with Pictometry International. As a RTM, Scott provides field technical and sales support to Pictometry’s existing customers and sales force. Scott has a Bachelor of Arts degree in Geography from Bowling Green State University. Scott has been with Pictometry for two years and working in the GIS field for 15 years.

Abstract:
Utilizing an iPIX 360 degree lens on a Nikon P6000, purchased from Pictometry, the Muskingum County GIS Department is collecting 360 degree views of all rooms in our 46 school buildings. At the same time floor plans for the schools (provided by the local Building Department) are being scanned and digitized. Once the pictures are taken they will be linked to the digitized floor plans. Once inside the 360 degree model you are able to maneuver through it by tags on the photos. The proposed uses for this project are emergency response for fire, hostage, or other catastrophe where emergency response need to see in the building without putting personnel at risk. Other uses for the hardware in the future include crime scenes that extend outside one locale, capturing all government owned/ leased buildings, and possibly looking at capturing high risk private sector targets such as banks. Training and support is being provided by Pictometry, and Scott Yoder will be assisting in the presentation.

Track 4 - 1:50

Utilizing the Updated Wetlands Inventory in Ohio to Model Waterfowl Populations and Habitat

Robb Macleod, GIS
Ducks Unlimited

Mr. Macleod oversees the GIS activities in the 18 state Great Lakes/Atlantic Region of Ducks Unlimited. He works closely with the Region's Conservation Planner and Regional Biologists to perform spatial analysis for targeting conservation efforts and planning restoration activities. Education: Masters of Science, Natural Resources (GIS and Remote Sensing emphasis), University of New Hampshire Bachelor of Science, Forestry, Michigan State University

Abstract:
Ducks Unlimited, Inc. (DU) and a consortium of federal, state, and non-governmental organizations have updated and tracked the changes in Ohio's National Wetlands Inventory (NWI). This updated wetlands layer has allowed DU to predict the change in mallard breeding pairs and estimate the change in habitat availability for spring migrating waterfowl in Ohio. The information resulting from this analysis will directly lead to enhancing DU's strategic planning efforts for waterfowl in the Great Lakes. This presentation will focus on the results of the updated NWI and how it is being used to further enhance DU's strategic planning efforts in the Great Lakes.

Track 1 - 2:45

Enterprise ETL & the Home Again Web Mapping Application: Columbus, Ohio

Erick Lobao, GIS Project Manager
Nicholas Soltes, GIS Analyst
Stantec

Erick Lobao earned a B.A. in Geography and Environmental Studies from Ohio Wesleyan University and a Master's in Geography from The Ohio State University in 2003. As a GIS Project Manager in the Columbus office, Mr. Lobao has a wide range of experience performing spatial analysis, developing GIS needs assessments, designing and maintaining enterprise databases, and providing GIS training to individuals with varying amounts of experience in GIS.

Nick Soltes earned a B.S. in Geographic Information Systems from The Ohio State University. He has a strong background in utilizing GIS to create, manipulate, and analyze spatial data. As a GIS Analyst in Stantec's Columbus office, Mr. Soltes has worked with both environmental data, such as floodplains and mines, and infrastructure data, such as fiber-optic lines, providing him with a well-rounded understanding of the needs and challenges associated with a variety of spatial data.

Sonia Krammes, GIS Analyst
Robert Parsons,
City of Columbus, D.O.T.

Sonia Krammes earned a B.S. in Geographic Information Systems from The Ohio State University in 2004. As a GIS Analyst with the City of Columbus, Department of Technology, her role is to provide technical support to Citywide GIS users. Mrs. Krammes is also responsible for creating data models to keep the GIS Repository data current and aids in the creation of GIS web applications that are utilized in departments throughout the City of Columbus.

Abstract:
The City of Columbus's Home Again Initiative is designed to stabilize specific neighborhoods by addressing the issue of vacant houses. Public funds are distributed to private contractors who are tasked with repairing or demolishing vacant homes in targeted neighborhoods. A GIS based solution is ideal for analyzing the distribution of funds as well as the overall success of this initiative.

This presentation highlights the use of ESRI model builder to support an enterprise GIS web mapping application developed to inform decision makers. ESRI's model builder provides basic tools to automate and schedule the extraction, transformation, and loading of data stored in different file formats and maintained by multiple organizations. Leveraging the City's GIS repository within a web mapping Application provides decision makers and political leaders the ability to visualize and analyze spatial patterns associated with the properties impacted by the Home Again Initiative as well as communicate spatial information to the public.

Track 2 - 2:45

Developing a GIS Portal Using the Flex APi

Joe LaCombe, GIS
Woolpert Inc.

Mr. LaCombe has 10 years experience in the GIS industry. Joe has spent the last 6 years architecting and developing server-based GIS solutions using technologies such as ArcGIS Server, ArcObjects, .Net and Flex.

Abstract:
Rich Internet Application (RIA) technology, such as Flash, has been around for a number of years. But it has only been within the last year that ESRI and ArcGIS Server has provided the ability to effectively build a Flash-based GIS viewer. Through the use of the 9.3 Flex API, you can now build highly advanced and interactive GIS web portals that include functionality that was previously extremely difficult or not even possible to provide. This presentation will focus on the recent development of a GIS portal using the 9.3 Flex API as well as the benefits of using this technology.

Track 3 - 2:45

CAMEO Suite as GIS

Alan Finklestein, WMD & CAMEO Instructor
Strongsville F.D.

Lt. Alan Finkelstein is a WMD and CAMEO instructor for Louisiana State University's National Center for Biomedical Research and Training. He has 27 years of experience as a Firefighter and Paramedic and 17 years as a HazMat Technician. His background also includes extensive experience in Emergency Response, Command and Control, and Emergency Planning. Since 1986, Mr. Finkelstein has worked for the Strongsville Fire and Emergency Services Department in Ohio.

Dan Pfeiffer, Station Chief/Training Officer
Southeast Ohio Emergency Medical Services

Dan Pfeiffer is the Nelsonville Station Chief for the Southeast Ohio Emergency Medical Services District. Dan also serves the Nelsonville Fire Department as a part-time firefighter and as its Safety/ Training Officer. He also serves as Public Information Officer for the City of Nelsonville. Dan has been involved with emergency services 26 years.

Abstract:
Presentation will cover the use of the free CAMEO Suite as a complete GIS system, particularly for emergency response and planning. Updates to the suite have enabled the import of shapefiles from other systems such as ArcView. the presentation will consist of an introduction to the CAMEO Suite and a case study from Athens County, Ohio which has developed a an emergency plan using the CAMEO Suite.

Track 4 - 2:45

GIS and Riparian Corridors in Hamilton County

Samantha Doering, CDM

Samantha Doering is an urban/community planner, hydrologist, and geographic information system specialist experienced in land use planning, the interface between land use and storm water, and the evaluation of GIS data to support land use and storm water plans.

Abstract:
The Hamilton County Storm Water District is Ohio's largest NPDES Phase II permittee and is responsible for maintaining permit compliance for its 42 member jurisdictions. One best management practice HCSWD committed to implementing was riparian corridors along streams. An ordinance was passed implementing these corridors along streams that drain 100 acres or greater. The use of spatial data played a significant role in helping public officials determine whether or not to support this ordinance as well as helping to craft the specific elements of this ordinance. Spatial data helped by allowing public officials to visualize several different scenarios to a) determine the upstream extent of the streams protected by the ordinance; b) determine the width of the riparian; and c) visualize the impact this newly protected land might have on future development opportunities.

Track 1 - 3:25

Better Serve Your Community

Andrew Harrison, GISP
The Schneider Corporation

Andrew Harrison is a Certified GIS Professional that serves as the Business Development Manager for The Schneider Corporation. For over 20 years Andrew has been involved in the oversight and development of GIS projects for local government. Andrew is focused on building GIS that has strong corporation, communication and is in an organization that has the education to get the most out of their investment.

Andrew has provided leadership for over 100 GIS projects in Indiana, Ohio, Illinois, Iowa, Minnesota, South Dakota, Missouri, and Arkansas. Andrew also is an elected Board Member for the Indiana GIS Council and participates in numerous committees, as well as repeatedly being invited to speak at GIS conferences throughout the country.

Track 1 - 3:25 - *Continued*

Abstract:
This workshop is an excellent opportunity for county/city employees to see through demonstration, statistics and user testimonials, how offering the public 24/7 web based access to a variety of property records and county GIS (Geographical Information Systems) through an online county portal can offer them significant benefits. By making information available on the internet, counter traffic is greatly reduced, while customer service between the County/Cities and their constituents is considerably improved. Offering this information online allows users to complete tasks on their own time rather than having to rearrange their schedule to coincide with courthouse hours of operation. No longer will employees have to spend large amounts of time face-to-face or on the phone addressing customer information requests, with this advancement they will gain the ability to focus their attention on other initiatives and projects that may have been neglected in the past. Please join us in discovering how utilizing the web to serve your community can help you save significant time, money and resources while generating a healthy Return on Investment for your organization. Topics to be discussed/Timeline of Events: Using the web to save time/money and generate Return on Investment Overview of Usage Statistics Testimonials Question and Answer Session.

Track 2 - 3:25

Creating Web based Thematic Maps using Open Source Platforms

Kishore Patel, President
CyberSWIFT LLC.

Mr. Kishore Patel is the owner and president of the CyberSWIFT, a Columbus based GIS and IT services company having operations in US and India. He has about 15 years of experience in architecting, designing and implementing enterprise applications, including those based on GIS. He has worked as senior consultant with numerous public and private enterprises within US and outside. He has extensive experience with customer interactions at all levels in providing business solutions and services.

Abstract:
Customized web GIS solutions using online mapping platforms such as Google Maps and Microsoft Virtual Earth has become very popular. With the popularity of such platforms, need for thematic mapping to report, review and analyze large and varying type of data has become very prominent. However, creation of thematic maps on these online platforms has been a challenge. Various different open source options such as MapServer, WMS/WFS, KML files, etc. exists to provide thematic mapping functionality for such platforms. Choice of the right method depends on different factors such as static/dynamic nature of underlying theme data, type of source files involved, need for raster or vector based themes, size of source data, etc.

This session will discuss and allow exploring some of the popular open source options to create online theme maps and mashups with existing mapping platforms. Live example to develop such functionality will be demonstrated. Examples of existing theme based sites and a look at upcoming trends in this field will be explored.

Track 3 - 3:25

A Flood-Warning System for Findlay, Ohio

Chad Ostheimer, Hydrologist/Engineer
US Geological Survey

Chad Ostheimer, PE BS in Civil Engineering from OSU, 1996 Chad has been a Hydrologist/Engineer with the USGS since 1996. He has extensive experience with surface-water modeling and GIS, and has been involved in numerous (22) FEMA Flood Insurance Studies, mixing studies, flood-inundation warning networks, dam-breach investigations, and watershed inventories. Chad has authored on topics including Hydrologic and Hydraulic Analyses, Flood-Warning Networks, and Mixing Studies.

Abstract:
The U.S. Geological Survey (USGS) and the City of Findlay, Ohio completed a cooperative study in October 2008 to: (1) enhance the ability of the National Weather Service (NWS) to predict flood-forecasts for the City of Findlay by upgrading an existing stream gage and installing 4 new gaging stations to provide real-time streamflow and river-stage data to emergency managers; (2) provide city officials with the ability to receive automated warnings about flood stage or excessive rates of stage increase directly from the streamflow-gaging stations, (3) estimate the areas of the city that may be in danger of flooding based on NWS flood predictions and detailed GIS flood-inundation mapping overlain on existing orthographic images, and (4) provide city officials with a mechanism to show the public flood-inundation maps of current and/or projected conditions.

The USGS provided the City of Findlay and the NWS with detailed flood-inundation maps for a series of gage-heights corresponding to the 2-year through the 100-year-recurrence interval flood levels. These flood-inundation maps are served by the NWS Advanced Hydrologic Prediction Service (AHPS) and are accessible by the public through the AHPS Web page. The public can see the predicted peak gage-height for the USGS stream gage, view the corresponding flood map for that predicted gage-height, and take appropriate actions if warranted.

Track 4 - 3:25

2009 USDA NAIP Statewide Imagery for Ohio

Jay Arnold, Vice President of Business Development
3001, Inc

Jay Arnold is Vice President of Business Development for 3001, A Northrop Grumman Company. In this role he is responsible for business development and related management activities for 3001's Civil Works and Airborne Solutions business units.

Jay received his Master of Science degree in Geography from Louisiana State University after completing two Bachelor of Arts degrees in Geography and Journalism at LSU, Magna Cum Laude. He has 17 years experience in surveying, mapping, photogrammetry and GIS. He has 12 years experience with airborne LiDAR systems. He is past Vice President of ASPRS, Florida Chapter; a licensed photogrammetric surveyor in South Carolina and Oregon; an FAA instrument-rated pilot with 2,000 flying hours; and an active member of the Rotary Club.

3001 is a leading provider of geospatial data production and analysis, including airborne imaging, surveying, mapping, and Geographic Information Systems (GIS). 3001's products and services are used for domestic and international civilian, defense, and intelligence initiatives, to develop and maintain public and private sector infrastructure, and to better understand the land and its resources.

Hayes Hubbs, Ohio State Farm Service Agency

Hayes Hubbs is the GIS Specialist for the Farm Service Agency in Ohio. Some of his responsibilities include maintaining geospatial information, providing technical support and training to county office users, and relating GIS to FSA programs.

Hayes received his Bachelor of Arts in Historic Preservation and Community Planning from the College of Charleston. He has worked for the Farm Service Agency for nearly five years. The Farm Service Agency is an agency within the USDA. It provides federal program benefits to farmers through various programs such as conservation, commodity price supports, disaster relief, and other agriculture support efforts. The Farm Service Agency uses GIS to maintain farm, tract, and field information for compliance purposes, conservation efforts, and to automate various other program activities.

Continued...

Track 4 - 3:25 - *Continued*

Abstract:
3001, a Northrop Grumman Company, and teammates will deliver 3,049 Digital Ortho Quarter Quads (DOQQs) covering all 43,416 square miles of Ohio this fall under the 2009 USDA NAIP program. The standard product will be 1-meter natural-color digital orthophotography with absolute horizontal accuracy of 6-m in MrSID and GeoTIFF formats. The imagery is being acquired between 1-June to 1-September with the Leica Geosystems ADS platform onboard twin-engine aircraft operating at approximately 17,500 feet above the ground. This presentation will review the acquisition and processing methodologies including flight-planning, ground-control considerations, image processing; the standard products created such as countywide mosaics; and optional products and services that can be created as separate deliverables. These would include color-infrared imagery, impervious surface maps, land-use/land-cover maps, web-hosted imagery, and other products. The overall USDA NAIP program and projections for future activities also will be discussed. Also, the benefits to the state of Ohio and how users from the state, the USGS, and others are applying the imagery to their own projects will be explained.

Track 1 - 4:05

Metadata for Map Services: Making Geospatial Data and Map Services Available to Larger Audiences

Sam Wear, GIS Manager
Weschester County, NY

Sam Wear has been the GIS Manager for Westchester County, New York the past 25 years. Currently on detail with U.S. Geological Survey, Reston, VA. Received B.S from University of Idaho and M.S in Natural Resources Planning from University of Vermont. He is a native of Mogadore, Ohio - east of Akron.

Abstract:
The expansion and growth of map services provides a new and exciting means for government to share and publish large amounts of geospatial data which in previous years was difficult to make available to end users. Current technology offers users a wide range of options to consume data-rich map services such as WMS (Web Map Services), ArcIMS Image or ArcGIS Server services, and other OGC compliant map service formats. Services can be used with either desktop applications or fused with other "live" internet map services covering the same geographic footprint. The growing popularity of viewing clients such as Google Earth, NASA WorldWind, ArcGIS Explorer, Microsoft Virtual Earth, GAIA 3, and OpenLayers provide opportunities for much greater exposure for map services. Metadata provides the conduit towards exposing and making map services (and associated data content) available to end users. Metadata records created for individual map services provide information on the map server URL, map service name, application URL, "key" words describing datasets used in the map service and other pertinent information. This presentation will provide a step-by-step overview of how local governments in the State of Ohio - with particular focus on those sites which currently support public facing map services - can become engaged in contributing metadata records through the Ohio GIS Clearinghouse which are then available through the Geospatial One Stop (GOS) portal.

Track 2 - 4:05

Hybrid GeoSpatial Stack: Combing Open Source & ESRI Technologies for Park Planning and Management

Stephen Mather, GIS Manager
Cleveland Metroparks

Stephen Mather was originally trained in GIS at the College of the Atlantic, where he received his bachelors of Human Ecology in 1999. He went on for an M.A. in Geography and Planning at the University of Toledo, managing the department's GIS and Applied Geographics Lab when it first opened, as well as the GIS lab at the Lake Erie Research Center.

After spending a short time in the public sector, Stephen worked for 2 1/2 years as a Research Associate in the Remote Sensing Lab at Byrd Polar Research Center as part of the Radarsat Antarctic Mapping Project (RAMP) and later the Center for Remote Sensing of Ice Sheets (CReSIS). The RAMP project included generating high resolution mosaics of the Antarctic Ice, and mapping ice stream velocity using repeat imagery.

Starting in January 2008, Stephen moved to Cleveland to be the GIS Manager at Cleveland Metroparks. Cleveland Metroparks has been working in earnest to put together a framework for integrating operational decision making, natural resource management, comprehensive park planning, supported by GIS. The primary objective from a GIS perspective has been consolidating a database of the best available existing datasets and extending datasets where possible for identifying valuable natural resources, using analysis to map and predict quality habitats across Cleveland Metroparks holdings, and beyond to the contributing watersheds and habitat areas.

Abstract:
In 2008, Cleveland Metroparks GIS office, housed in the Planning Division of the park system, began an initiative to rebuild its GIS system. The rebuild has been implemented systematically at all levels, from datasets and data storage to map delivery systems. The aim is to provide a mapping, analysis, and data collection framework to aid decision-making at all levels within the park system, and to do so efficiently with respect to software costs and staff time. In order to control costs, a hybrid Open Source/ESRI software stack has been implemented, in which Open Source software is used for the spatial database, map server, and thin client GIS, while ESRI's ArcGIS desktop continues to be used for most analysis and paper map production. Over the next year, the system will be rolled out for use in the wider park system, high quality print functionality will be added to the thin client GIS, and the quality and number of datasets and maps available to users will increase.

Track 3 - 4:05

The International Charter

Richard Kotapish, GISP
Lake County

Mr. Kotapish, a GISP, has 22 years of experience implementing GIS for local govt. including geospatial implementations for the City of Cleveland, Geauga County and Lake County, Ohio. During Katrina, Mr. Kotapish worked for 2 weeks in the Mississippi EOC Control Room with GISCorps. He also is a member of the State of Ohio All-Hazards Type 3 Incident Management Team and is State of Ohio Project Manager for the International Charter. Mr. Kotapish is the leader of the GIS Users of Northern Ohio (GUONO).

Abstract:
International Charter: Space and Major Disasters The International Charter is a valuable resource for disaster response and recovery in Ohio. This presentation will showcase this international organization whereby most of the world's International Space Agencies provide no-cost remote sensing data to support disaster response. For instance, RadarSat data can show flooding depths, even through cloud cover. GeoEye and DigitalGlobe also participate in this program. Mr. Kotapish is currently the Program Manager for the State of Ohio and has recently returned from training to become authorized to manage and utilize these resources during a major emergency. This presentation will cover the history, operational processes and implementation protocols of the International Charter, show examples from the 200+ activations to date, discuss the multitude of satellite resources and describe the roles of various players in the process.

Track 4 - 4:05

Stewardship of the National Hydrography Dataset

Elizabeth McCartney
U. S. Geological Survey

Elizabeth McCartney has spent the past ten years working at the U. S. Geological Survey in Rolla, Missouri. Her tour of duties include Science Information and Library Services, Commercial Partnerships and NSDI Standards Team, and the National Hydrography Dataset (NHD). Her experience as a contractor and Federal employee provide a keen insight into the development and coordination of products and standards. As a NHD Point of Contact, she provides technical support, stewardship coordination, and training for an eight-state region including Ohio. Elizabeth holds undergraduate degrees in Geography and Biology, and an advanced degree in Biology.

Abstract:
The U.S. Geological Survey mapping efforts continue making the transition from a historically based production model to the stewardship model. Strong partnerships with State and Federal partners are vital to the success of The National Map, and more specifically for this presentation, the National Hydrography Dataset (NHD). The NHD is a seamless dataset used for analysis, mapping, reporting, and tracking of water related issues. As with any real world dataset, changes are constantly occurring. In addition, much of the NHD is derived from sources over 20 to 40 years old. Updating the NHD takes advantage of new imagery and other sources of information. Because of their familiarity of the landscape, local users of the NHD are in the best position to provide updates, maintenance and feedback about the NHD. USGS is working with the OGRIP Ohio Hydrography Framework Task Force, including state agencies and local groups, on expanded stewardship to improve Ohio NHD. This presentation will cover the basics of the NHD and the Stewardship process.

Friday, September 18, 2009

General Session - 8:30

Implementation of the Broadband Data Improvement Act in Ohio

Katrina Flory, Ohio Department of Administrative Services, Office of Information Technology - Executive Director, Ohio Broadband Council

Katrina B. Flory serves as Executive Administrator within the DAS Office of Information Technology. In her current role Ms. Flory has lead efforts to coordinate and communicate the strategic direction of broadband in Ohio, prepare the agency for statewide implementation of an enterprise resource planning system, as well as act as a dynamic change agent related to various initiatives.

Ms. Flory joined the Ohio Department of Administrative Services in 2000 and served as executive assistant to the state Chief information Officer and Assistant Director. Ms. Flory has a bachelor of arts from Miami University in Oxford, Ohio.

Abstract:
The American Recovery & Reinvestment Act (ARRA) provides for $7.2 billion to support broadband deployment across the United States. Broadband funds will be distributed in the form of grants or loans by two federal agencies, the US Department of Agriculture (Rural Utilities Service) and US Department of Commerce (National Telecommunications and Information Administration).

This includes $240 million in funding for the State Broadband Data and Development Grant Program administered by NTIA. The goal of the program is to develop and implement statewide initiatives to identify and track the adoption and availability of broadband services within each State. The State of Ohio in collaboration with Connect Ohio has applied for funding. Through its grant application Ohio anticipates the ability to:

- Support existing spatial data development projects in Ohio
- Provide more accurate and up-to-date base mapping to overlay aggregate provider bandwidth data
- Tie bandwidth data to specific addresses – identifying coverage to a higher degree of accuracy
- Identify gaps in broadband availability for Ohio

Closing/Town Meeting - 10:30

Awards given for Ohio GIS Map Gallery
Awards given for OGRIP Best Practices Awards
Acknowledgement of Sponsors
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2009 Best Practice Winners

Holmes County GIS Consortium

Stark County Auditor's Department

Butler Rural Electric GIS

For descriptions and pictures of Best Practice Winners, please visit the OGRIP website at:

http://ogrip.oit.ohio.gov/Coordination/BestPracticesAward.aspx

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2009 and 2010 OGRIP Forum Meetings and Listserv

2009

No September Meeting

October 26, 2009

November 30, 2009

No December Meeting

2010

January 25, 2010

February 22, 2010

March 29, 2010

April 26. 2010

May 24, 2010

June 28, 2010

July 26, 2010

August 30, 2010

No September Meeting

October 25, 2010

November 29, 2010

No December Meeting

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The OGRIP Forum Listserv facilitates communication amongst individuals interested in spatial technology and GIS issues impacting Ohio. This listserv will also be used to announce meeting dates, conferences and educational opportunities. This listserv is open to anyone wishing to subscribe.

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