

IMAGIN PRESENTS:

IMAGINNews

AUTUMN 2018



SPECIAL POINTS OF INTEREST:

IMAGIN's 2019 Annual Conference will be held June 9-11, in beautiful downtown Grand Rapids!

IMAGIN Social Meet-Ups! Hold the evening of January 23, 2019 on your calendar for our next meet-up.

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Launches 3D Development Tracker

The Downtown Detroit Partnership (DDP) is a member-based, non-profit organization committed to “driving engagement, development and programs that benefit businesses, residents, and visitors throughout the Downtown’s urban core.”

DDP recently unveiled a new 3D ArcGIS Online web application at their fall stakeholder meeting in October. Josh Long, Data Program Manager for DDP, recently spoke with IMAGIN about this new tool.

Downtown Detroit, with its many tall buildings, has a lot of verticality. Given that DDP has been doing a lot of analysis on buildings in general and given the pace of construction downtown, it

was becoming more apparent that they need to see how buildings relate to space in three dimensions. Toward this end, DDP contracted Cyber City 3D to create 3D building shells for the downtown area. Long had been planning on using these footprints for internal desktop visualization and analysis and for creating static maps.

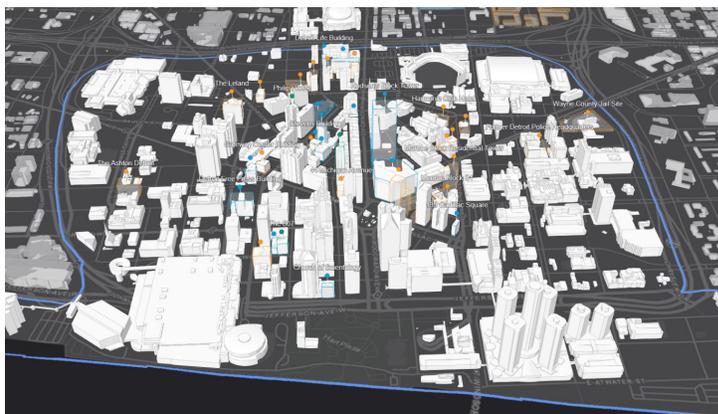
While discussing possible next steps for using these new building models, Garsdale Design Ltd., an integration partner of Cyber City 3D, highlighted the increasing capabilities of online visualization and sharing. At that time, DDP was in the process of creating the latest iteration of their Development Tracker web application, which they

release in conjunction with their fall stakeholder meeting. In years past, this has been a 2D application but DDP decided to partner with Garsdale (GD3D) to transform the application into a 3D scene.

Cyber City 3D, headquartered in Southern California, specializes in creating 3D multipatches from aerial stereoscopic images. They are able to achieve up to six-inch accuracy in their 3D models which, according to their website, are generated by extracting the building features from the stereo imagery to create point clouds. Those points are then fed into their patent-pending CC-Modeler® software to automatically generate the 3D multipatches.

Based in England, Garsdale Design are “a specialist Architecture, Planning, Urban Design, Heritage and Geospatial consultancy founded in 2003.” They recently launched GD3D, a new brand specifically for their 3D streaming geospatial services, which they brand as “the first 3D data service on

(Continued on page 2)



“DDP wants to be useful, and as much as we can help stakeholders with research, analysis, and understanding we would certainly like to.”

DDP 3D App

the Esri platform.” Garsdale and Cyber City 3D have recently worked on projects together in East St. Louis, IL and Miami, FL as well.

The 3D building shells for the downtown area were created using Esri’s CityEngine. The level of detail for these buildings is designed to evoke a sense of place and provide a level of realism to the scene while working within time and budget constraints. They achieved this for the downtown Detroit area in just two to three weeks. Buildings for the rest of the city were created using SEMCOG footprint data by extruding to the building height attribute value.

Over the next two to three weeks, GD3D and Long worked collaboratively to fine-tune the symbology, basemap, feature layers,

camera angles for bookmarks, and other design details in ArcGIS Pro. Once published to AGO, a Story Map Series highlighting twenty-one feature projects was used as the medium for the web scene, employing bookmarks in the scene viewer corresponding to each project description. Long was pleased with how quickly everything came together and said that “it was an educational process and the Esri platform makes it really manageable.”

According to Long, “DDP is always looking for ways to share information and make data more useful.” The main purpose of the application is to give insight into current, upcoming, and recently completed projects from the developers themselves. DDP compiles a list of projects from multiple sources, then sends out surveys to developers to voluntarily fill out. The building attribute data in the application comes directly from developers via this survey. Developers are also given 2 minutes each at the fall stakeholder meeting to present their project. Because this is a voluntary process, some projects may have more limited attribute details.

While the 3D building data cannot be downloaded, the feature service can be used in other AGO applications or brought into desktop software for use with proper citation. “DDP wants to be useful, and as

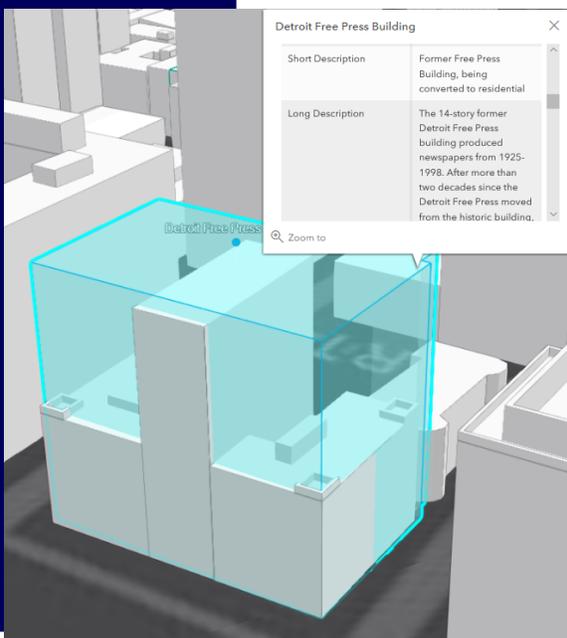
much as we can help stakeholders with research, analysis, and understanding we would certainly like to,” says Long.

Moving forward, he and DDP will now be responsible for maintaining the application, data, and performing future 3D rendering for new projects. Long would like to continue to add at least basic attribute data for all of the buildings in the City of Detroit. He also wants to add more visualizations for greater impact – such as their involvement in the redesign of Capitol Park. He foresees incorporating building owner and management information for internal use. Long would like to collaborate with developers and contractors in the area to provide more detailed building models for downtown.

Long and DDP hope that this application will be useful for employees, developers, and real estate professionals who market the city, and also to anyone who might be interested in how their town is going to be impacted in the next few years.

View the Downtown Detroit Development application: <https://tinyurl.com/ya716uvz>.

If you would like to provide feedback on the application’s usefulness to you or your organization, please contact Josh Long at Joshua.Long@DowntownDetroit.org.



Michigan Infrastructure Council Update

The Michigan Department of Treasury issued a press release on October 26 naming Jessica Moy (pictured right) as the executive director of the Michigan Infrastructure Council (MIC.) Moy is a former member of IMAGIN's board of directors and a long-time supporter of the organization.

Under state law, the MIC is tasked with constructing the statewide asset management database, facilitating the data collection strategy, and producing a 30-year infrastructure investment strategy for the state of Michigan.

Michigan created the Transportation Asset Management Council in 2002 to address coordinated maintenance of roadways. Now Michigan is the first state in the nation to create a body dedicated to coordinated and integrated infrastructure asset management for a broad scope of structural types.

The 21st Century Infrastructure Commission started the process of data collection and GIS architecture design. The MIC will work towards establishing state-wide standards for GIS infrastructure data storage.



IMAGIN Workshop Series: There's an App for That! Making ArcGIS Online Work for You

Does your organization have an ArcGIS Online Account but doesn't use it? Have you started using ArcGIS Online but need some tips, tricks and that little nudge to get you going? Have you started using ArcGIS Online and want to take it to the next level? Do you want to leverage free apps such as GeoForms, Collector, Survey123, or Web AppBuilder provided by Esri?

If you answered yes to any or all of these questions, then this workshop is for YOU!

IMAGIN is presenting the "There's an App for That!: Making ArcGIS Online Work for You" workshop to help you grow your ArcGIS Online presence by sharing insight and real-world examples. And more than just information, you will be working right within your ArcGIS Online account (an active account within an organization is necessary prior to attending the workshop).

Presentation Topics:

Solutions for ArcGIS, Operations Dashboard, GeoForms, Survey123, Collector, New Widgets in Web AppBuilder

Registration & Workshop Information

Workshop Date:

Wednesday, November 28, 2018—8:30 AM to 12:00 PM

Workshop Location:

Michigan State University
The Henry Center for Executive Development
3535 Forest Rd.
Lansing, Michigan

Workshop Instructors:

Keri Blough (City of Novi),
Magdalena DiFranco (Clinton Charter Twp)
Keith Rikli (Giffels Webster)
Ken Kaiser (TriMedia Environmental & Engineering)

Workshop Cost (includes continental breakfast & refreshments):

\$55.00 IMAGIN Members
\$75.00 Non-Members
\$45.00 Student Members (Must have an IMAGIN Membership)

For all the details, visit the Workshop Page from the IMAGIN Website at www.imagin.org/workshops

Congratulations to this year's awards winners!

Geospatial Achievement

Michelle Lazar, Fishbeck, Thompson, Carr, & Huber

GIS for Everyone

Livingston County GIS

GIS Innovation

Acme Township / Beckett & Raeder

Volunteer of the Year

Brett Heist, Moore & Bruggink, Inc.

Education Scholarship

Graduate: Sarah Meyer, Central Michigan University
Undergraduate: Jacob Moyer, Ferris State University

See our website for more information:

http://www.imagin.org/conf_annual_awards

IMAGIN 2018 Annual Conference Wrap-up

In mid-June, nearly 200 GIS professionals from around the region found their way to downtown Traverse City for the 2018 IMAGIN Conference. Hosted at the historic Park Place Hotel, conference goers had the opportunity to participate in a wine/beer tasting event on Sunday. Participants jumped on a charter bus and were able to visit Brewery Terra Firma and Rare Bird Brewpub or nestle in at Rove Estate winery. Dinner was held at Blue Tractor Barbeque. Monday saw an engaging opening keynote from entertainer and motivational speaker Tim Cusack. IMAGIN

invited a special guest keynote as a noon-hour keynote. John Ellingson from the National Geodetic Survey spoke to the group regarding the upcoming 2022 State Plane datum change and how it will affect GIS users in the State of Michigan. Tuesday morning Marilyn Sanders, Regional Director of the U.S. Census Bureau for the Chicago Region, greeted conference goers. Sanders informed the audience about census activities and plans for the 2020 decennial census. All told, participants had access to 32 unique educational sessions, three keynote speakers, and numerous social

events for networking. IMAGIN granted numerous awards, including our most prestigious award, the Geospatial Achievement Award. This year we presented the Geospatial Achievement Award to Michelle Lazar, GISP GIS Manager at Fishbeck, Thompson, Carr, & Huber (FTC&H). Lazar has spent a career bridging GIS and civil engineering and being a voice for GIS usage in a CAD world. For more information regarding the conference, its proceedings, and awards, check out our website at www.imagin.org.



MEMBERSHIP RENEWAL *Annual Dues*

2018 Memberships expire on December 31st, and **2019 membership renewals are due January 1, 2019**. Current members should have received an electronic invoice the first week of October and paper invoices will be mailed the first week of December. If you have any questions or need to make changes to your membership, feel free to contact the business office at 517-338-3035 x 709 or info@imagin.org.



Thank You to IMAGIN's 2018 Annual Conference Sponsors!

Gold Sponsors:



Silver Sponsors:



Conference/Event Sponsors:



Other Sponsors:



“Items such as parcel boundaries, site address points, and road centerlines can now be downloaded freely and conveniently through our Open Data Portal.”

Member Spotlight— Eaton County GIS

At ECGIS, our primary function is to support the work, projects, and initiatives taken on by Eaton County. We have two GIS Administrators who work out of the IT Department and a Parcel Mapping Specialist that works out of the Equalization Department. We support an active user base of around 50 users that range across 911/ Central Dispatch, Sheriff's Department, Animal Control, Equalization, Drain Office, Community Development, Emergency Management, Treasurer, Clerk, and the Barry-Eaton Health Department.

Recently, we were given the green light by our board of commissioners to release a collection of GIS data for free download from our new Open Data Portal. Items such as parcel boundaries, site address points, and road centerlines can now be downloaded freely and conveniently through our Open Data Portal.

We were early adopters of Collector for ArcGIS to support public asset inventory and addressing. Our health department, central dispatch, and animal control now use Collector as part of their daily work.

GIS at Eaton County started in the early 2000s and Eaton County's support for IMAGIN goes back to around 2010 when Eric Daley, now the Deputy IT Director, served on the IMAGIN board of directors. In 2011 Eaton County was awarded the “GIS for Everybody” award.

Learn more about ECGIS at geo.eatoncounty.org

Visit ECGIS's Open Data Portal at <https://data-ecgis.opendata.arcgis.com/>

Information provided by Jonathon Merrick on behalf of Eaton County GIS.

Upcoming Events



- November 9, 2018— IMAGIN Board of Directors Meeting
- November 14, 2018— GIS Day! Check www.gisday.com for an event near you.

- November 28, 2018— IMAGIN Workshop. Register online at imagin.org
- December 7, 2018— IMAGIN Board of Directors Meeting (teleconference)
- December 13, 2018— Southeast MI GIS User Group meeting in Detroit
- January 11, 2019— IMAGIN Board of Directors Meeting

(teleconference)

- January 23, 2019— IMAGIN Meetup (multiple locations)
- April 23, 2019— IMAGIN Meetup (multiple locations)
- June 9-11, 2019—IMAGIN Annual Education Conference, Eberhard Center, Grand Rapids, MI

Have an upcoming GIS related event you want to advertise? Send the date, time, and place to communication@imagin.org

IMAGIN Conference 2019, June 9-11, Grand Rapids



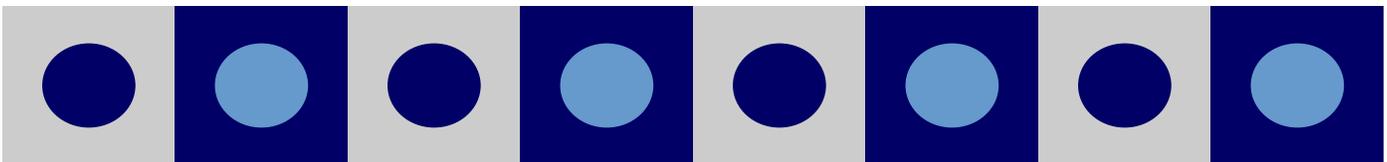
Eberhard Center

The IMAGIN Conference team is finalizing details for the 2019 annual conference. Social events are being planned and restaurants are being reserved. We can't wait to see you all again!

More information coming soon!



Holiday Inn Downtown



Call for Presentations!

Submit your abstract for our 2019 Conference online here: www.imagin.org/Call_for_Presentations/

Suggested Topics include:
 Assessing & GIS
 Data & Database Management
 Drones/UAV in GIS
 Geospatial Data
 LiDAR

Local Government GIS Management
 Mobile & Web GIS
 Natural Resources GIS
 Open Source GIS
 Public Safety
 Surveying
 Transportation GIS
 Utilities/Asset Management



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Geographic Information Networks**

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IMAGIN is a non-profit professional development organization committed to providing opportunities for its members to network with professionals who are using, creating, or maintaining spatial resources within Michigan. IMAGIN serves as a crossroads for spatial information users/developers at all levels of government, business, and non-profit organizations by providing its members partnership opportunities to recognize, share, and create spatial data resources for both traditional and new applications.

IMAGINews publishes original, timely, and innovative articles and news items that advance knowledge regarding GIS, related technologies, and their use within Michigan. IMAGINews welcomes submissions from IMAGIN members and others. Please send article submissions in Microsoft Word format to communication@imagin.org.

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