GIS Excellence Awards 2019 20th Anniversary

November 20, 2019





GIS Excellence Awards 2019

GIS Excellence Awards Ceremony 2019

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- I. AGENDA
- II. FOREWORD
- III. AWARDS CATEGORY DESCRIPTIONS
- IV. COMPLETE LIST OF EXCELLENCE AWARDS ENTRIES
- V. AWARDEES BY CATEGORY WITH PROJECT DESCRIPTION



GIS Excellence Awards 2019



1. INTRODUCTION

Michael Liddle, Director Geographic Information Services Division Department of Information Technology

2. FEATURED SPEAKERS

Chairman Sharon Bulova Fairfax County Board of Supervisors Gregory Scott, Chief Technology Officer, Director Department of Information Technology Michael Liddle

3. PRESENTATION OF AWARDS

Sharon Bulova Gregory Scott Michael Liddle

4. CLOSING STATEMENTS

Michael Liddle















The use of GIS technologies in the County has led to the work you see honored here at the GIS Excellence Awards and posted in the Awards Gallery.

As part of the GIS Day celebrations, the GIS Excellence Awards are given annually for outstanding uses of GIS technology by Fairfax County employees and agencies. The awards were created to recognize and celebrate those County employees and agencies that are effectively and innovatively using GIS technology. This year, 34 submissions were received for the five categories of recognition.

As with previous years, a judging panel from outside Fairfax County Government donated many hours of their time evaluating the entries. This year, all categories had independent judges, who are domain experts in those categories, perform the judging. This meant the judges had more time to review the material and make comments. Judges participated from Arlington County, Environmental Quality Advisory Council, Esri, Fairfax County Office of the County Executive, Fairfax County Office of Public Affairs,

Foreword (continued)

Fairfax County Public Schools, George Mason University, James Madison University, Manassas City GIS Office, Loudoun County GIS Office, and the US Geological Survey.

The awards have three categories recognizing individual and/or team accomplishments and two categories recognizing agency accomplishments. This year we changed one category. The peoples' choice award was changed to the Student's Choice Award. The 150 GIS students at Fairfax High School looked at all of the entries as a way to learn about how GIS is used in local government. They reviewed all of the projects and then conducted a systematic process to determine the favorite among all of the entries. Three of the students along with their professor are present today representing their fellow students to present the award. They are Stephen Everard, Elisa Luckabaugh, and Natalie Simpson.

The following section lists the categories and their descriptions.





Individual/Team Categories First, second and third place awards for each category

Best GIS Cartographic Product/Presentation

This award is intended to showcase the power of GIS tools in creating accurate, instructive, and visually pleasing printed maps. The map must have been or planned to be used for Fairfax County business, and an original design is required (i.e. the map must not be based on any commonly used templates). Criteria used to evaluate the entries include:

- clarity of purpose and intent
- the use of GIS tools, methods, and operations to go beyond basic cartography
- visual balance and appeal
- inclusion of necessary map elements and conventions
- quality control for typos or other errors

Best Use of GIS for Analysis

This award is intended to showcase the power of GIS tools in undertaking sophisticated spatial analyses that aid County operations and answer significant questions. Criteria used to evaluate the entries include:

- complexity of analysis; use of tools, scripting, model builder, etc.
- ingenuity/creativity/originality of GIS methods used
- project benefits to a team or department
- effective demonstration of the information and insight gained (e.g., diagrams, maps, presentations, report, text)

Individual/Team Categories (continued)

Best Web Application

This award is intended to showcase the ever-increasing presence of GIS web applications. These applications are a significant foundation for bringing maps, geospatial data, and analysis/data collection tools to a varied audience of County staff and residents. Criteria used to evaluate the entries include:

- effectiveness of the web application in meeting stated purpose
- benefit to the public and/or agency
- incorporation of application into business practices
- aesthetics and ease of use
- use of well-thought-out cartography
- inclusion of innovative and unique tools

Agency Categories Awards presented to agencies

Best Use of GIS for Public Outreach (two awards)

This award is presented to the agency that best utilizes GIS to serve the public with map documents, customer service operations, press relations, or public events. A totality of an agency's GIS public outreach efforts over the last 12 months will be evaluated rather than just one specific project. Criteria used to evaluate the entries include:

- effectiveness of the GIS work to the outreach effort
- degree to which a difficult message was clearly communicated
- complexity of cartography, data analysis, customization and/or programming
- adaptability to future expansion/modification
- contribution of GIS as a planning tool for the outreach effort



Agency Categories

Best GIS Integration (two awards)

This award is presented to the agency that has integrated GIS into their operations to the greatest degree. Agencies that have a long history of GIS, as well as agencies that are in the beginning stages of GIS integration, will be evaluated separately (two awards). Criteria used to evaluate the entries include:

- effectiveness of the integration in meeting its stated goal
- increased use of GIS in the agency, either directly or through agency-generated GIS products
- increased agency efficiency as a result of GIS
- demonstration of significant effort to train staff in GIS
- ingenuity/creativity/originality of GIS methods utilized
- ability to gain insights into data/project/issue as a result of the integration
- potential for further GIS-related growth

EXCELLENCE AWARDS ENTRIES



Excellence Award Entries (alphabetically by title)

Aligning Efforts for Success: Economic Inclusion Story

Map - Alexandra Krafchek, Linda E. Hoffman, Sophia Dutton; Office of Strategy Management

Assessing Community Needs for Library Service -Douglas Miller, Library

Automated Modeling to Identify Potential Vernal Pools Using Object-Based Image Analysis - Justin Roberson,

Kristen E. Sinclair, Owen Thomas Alexande Williams; Park Authority

Celebrating Hidden Oaks Nature Center's 50th

Anniversary - Fariss Agatone, Suzanne Holland, Michael McDonnel, Fiona Davies, David R. Ochs; Park Authority **Commercial Revitalization Districts and Areas**

Population, Economic and Household Profiles -

Christopher McCarthy, Donna C. Parker; Department of Planning & Development

Community and Teen Centers with FCPS High School Attendance Areas - Muhammad Jahangir, Neighborhood and Community Services

Community Risk Reduction Smoke Alarms Initiative - Jessica LeBlanc, Dahae Hwang; Fire and Rescue

Converting Development Plan Data to 3D Scenes -

Daniel E. White, Jay Rodenbeck; Department of Planning & Development

Department of Neighborhood and Community Services Sites - Muhammad Jahangir, Neighborhood and Community Services

Department of Procurement and Material Management Use of GIS in Solar Power Solicitation - Patricia Wilkerson, Sara Brinkmoeller, Tamir Enkhjargal, Lee Ann Pender, Sarah Keally, Gregory Zebrowski, Ciprian Sufitchi, Paul Lupe; Procurement & Material Management

Excellence Award Entries

(continued)

Difficult Run Watershed (felt map) - Chip Galloway, Stormwater Management

Extending ArcGIS Apps for Integrated Business Workflows-Enterprise Portal Solution for Fire Protection Systems Notification - Dahae Hwang, Yong Kim, John Walser; Fire and Rescue

Fairfax Connector 308 Ridership Analysis - Thomas A. Wampler, Christian Soughe Bissai; Department of Transportation

Fairfax County Fire and Rescue Situational Awareness Dashboard - Ian P. Gregoire, Fire and Rescue

Fairfax County Police Online GIS Mapping Portal Enterprise - Jeffrey W. Gallagher, Kathy Pham; Police Department

Fairfax Hydrological Map - Chip Galloway, Stormwater Management

Fire and Rescue Department Uniform Personnel's Declared Place of Residence - Heat Map - Eric K. Fisher, Fire and Rescue

Fuel Sites Application - Steve Malo, Howard J. Springsteen; Department of Vehicle Services

Gross Floor Area Totals in C-7 Zoning Districts - Marshall Keeney, Department of Planning & Development

Integration of Decision Support System With GIS for Lifecyle Asset Management - Rita Noorzad, Yeoanny Venetsanos, Magdalena Springer, Junaid Malik; Public Works and Environmental Services

Laurel Hill (formerly Lorton Correctional Complex) Distribution - Yilia G. Vega-Claudio, Vickie McEntire Anglin, Alan M. Weiss, Leanna O'Donnell, Daniel E. White, Christopher R. Havlicek, Christopher J. Jensen; Capital Facilities



Excellence Award Entries

Library Locator - Stephen L Walker, Library Mount Vernon District - Muhammad Jahangir, Neighborhood and Community Services **Office of Emergency Management GIS Integration** - Courtney Arroyo, Sarah Keally, Gregory Zebrowski, Ciprian Sufitchi, Paul Lupe, Matthew C. Marguis; Office of **Emergency Management** Park Authority Athletic Fields Booklet - A Selection -Andrew DeLuca, Park Authority Planning & Development, Whom to Contact - Daniel E. White, Department of Planning & Development South County Tour Sites - Muhammad Jahangir, Neighborhood and Community Services Stormwater Planning Stream Physical Assessment - Chip Galloway, Stormwater Management Story Map: A Look to the Past -- Historical population change and its drivers in Fairfax County. VA - Xuemei Han, Fatima Khaja, Madhur Lamsal; Management & Budget Streamlining Site Construction Complaints with CIS -Brett Martin, Land Development Services **Supplemental Medic Unit Deployment: What Area of the** County Would be Best Served by an Additional Medic Unit? - Jessica LeBlanc, Fire and Rescue Syphilis & Health Equity: Directing Outreach Resources to High Disease Burden Areas - Benjamin Klekamp, Gerald Bumbrey, Gabriel Griffin, John Credito; Health Department The Analysis and Refinement of MSAG Data - Raleigh L. Maier, Public Safety Communications **Transitioning Stormwater Facility Maintenance** from Reactive to Proactive: An Experiment in Risk Assessment and Predictive Analytics - Eric Caldwell, Stormwater Management

AWARDEES BY CATEGORY



Best GIS Cartographic Product/Presentation Individual/Team Awardees

Third Place Park Authority Athletic Fields Booklet - A Selection Andrew DeLuca Park Authority

The FCPA Athletic Fields Booklet is generated biannually, or as needed, for reference by both project managers and contractors. Each map displays Park Authority diamond and rectangle field geometry. These maps visualize athletic field polygons with each respective identification number, and provide attributional information such as field type, field surface, dimensions, lighting, and irrigation in a table accompanying each map. All text on the document is dynamic, meaning it reads directly from the database and updates when changes are made to the data source. The title, address, maintenance area, and supervisor district information are created from GIS data generated by both FCPA and DIT GIS. All this information comes together in an ArcGIS Pro map series which automatically generates maps of every park with athletic fields (94 in total). If customization is necessary, all the maps can be modified and regenerated in less than 10 minutes - a process that would take hours if done manually.

Best GIS Cartographic Product/Presentation Individual/Team Awardees

Second Place

Fire and Rescue Department Uniform Personnel's Declared Place of Residence - Heat Map Eric K. Fisher Fire and Rescue

The "Fairfax County Fire and Rescue Department Uniformed Personnel Declared Place of Residence" map was created to support an analysis informing staffing policies. Fire and Rescue Department (FRD) personnel provide 24/7/365 coverage for Fairfax County. Personnel work a rotating shift schedule, occasionally requiring personnel to be held or recalled, to maintain minimum staffing levels. The declared place of residence was geocoded for all 1,375 uniformed personnel. To share this information with a wider audience, "home" locations were generalized via the creation of a heat map depicting concentration densities, not specific locations. The use of distance rings buffered from the Fairfax County border conveys the distance personnel travel to their assigned workplace.



Best GIS Cartographic Product/Presentation Individual/Team Awardees

First Place Difficult Run Watershed (felt map) Chip Galloway Stormwater Management

The Difficult Run Watershed map shows the 57.7 square mile watershed in the north-central portion of Fairfax County. The elevation data shown is at 50 foot intervals; Tysons Corner being the highest point at 500 feet above sea level, all the way down to the Potomac River at 50 feet above sea level. This project was completed using ArcGIS Pro exclusively. All symbology and elements are textured to appear as stitched felt. Color and contrast selections were carefully chosen to maximize the aesthetic value of the map and its features. This texture was created by Cartographer John Nelson and is available for download from ArcGIS Online.

Best Use of GIS for Analysis Individual/Team Awardees

Third Place *Fairfax Connector 308 Ridership Analysis* Thomas A. Wampler, Christian Soughe Bissai *Department of Transportation*

This analysis is part of an effort to determine how the Fairfax Connector 308 route is being used and if there are any identifiable points for improvement. The 308 was launched in early April 2019 as a means of creating new connections and completing missing links in service in the Franconia-Springfield and Mount Vernon areas. As a new route, the 308 was expected to fill a gap where existing service from the Franconia-Springfield Metrorail station did not reach. Analyzing rider trips along with passenger counts helps us modify Fairfax Connector service to improve performance and reduce wait times.



Best Use of GIS for Analysis Individual/Team Awardees

Second Place

Supplemental Medic Unit Deployment: What Area of the County Would be Best Served by an Additional Medic Unit? Jessica LeBlanc Fire and Rescue

The Fairfax County Fire & Rescue Department sought to determine which fire stations would be the best locations. to assign new supplemental medic units, if funded. A multivariate incident weighting strategy was employed to consider call volume (demand), call type (resources), time of day and location within a Proffer Exempt Zone. Demand points were created on ¼ mile hexbin centroids using three distinct aggregate weighting strategies. Using Location Allocation, each weighting strategy was run for six distinct recommendation scenarios. Stations that would not have been recommended based on call volume alone were consistently recommended to receive a supplemental medic unit based on the multivariate approach. This analysis challenged anecdotal assumptions and gave decision-makers the confidence to move forward in their planning using data-driven findings.

Best Use of GIS for Analysis Individual/Team Awardees

First Place

Automated Modeling to Identify Potential Vernal Pools Using Object-Based Image Analysis

Justin Roberson, Kristen E. Sinclair, Owen Thomas Alexande Williams *Park Authority*

The Park Authority utilized LIDAR and multi-spectral data to create a predictive model of potential vernal pool locations on park property. An object-based image analysis rule set for identifying and mapping potential pools was developed in eCognition. state-of-the-art object-based image analysis software. Potential sites were assigned a classification value based on the rule set which was informed by expert opinion based on both regional and local vernal pool characteristics. The strongest factor considered was evidence that ephemeral water occurred within depressions in the landscape during spring conditions. Vernal pools are critical habitat for many amphibian species and are necessary for reproduction. This dataset will allow staff to locate and verify if potential pools are in fact active amphibian breeding habitats. Verified vernal pool locations will then be used to inform future natural resource management and planning efforts.



Best Web Application Individual/Team Awardees

Third Place Celebrating Hidden Oaks Nature Center's 50th Anniversary

Fariss Agatone, Suzanne Holland, Michael McDonnel, Fiona Davies, David R. Ochs Park Authority

The Fairfax County Park Authority has developed a narrative story map to share the 50th anniversary of Hidden Oaks Nature Center (HONC) with the public of Fairfax County. This app was developed in concert with two additional products – a map series and a Story Map Tour app – to illustrate the history of the Nature Center. The Story Map includes the evolution of the surrounding parkland and community, the building itself, nature center exhibits, and programming throughout the decades. Entitled "Imagine the Next 50 Years", viewers are encouraged to consider how they can impact HONC over the coming 50 years through learning about the last 50. This serves a twofold purpose – both communicating how the Nature Center has served the community at large, as well as promoting the 50th anniversary event.

Commercial aerial imagery supports the "Running Out of Room" section, while a photo taken from a helicopter shows the baseball fields after they were constructed. The "Expansion Through the Decades" section contains embedded web maps that users can expand to see how the park has changed from 1976 to 2019. Each section concludes with a reflection on how the next 50 years may evolve, while the app closes with a reminder that everyone can make a positive impact in their community.

Best Web Application Individual/Team Awardees

Second Place Community Risk Reduction Smoke Alarms Initiative Jessica LeBlanc, Dahae Hwang Fire and Rescue

The Fairfax County Fire & Rescue Department received a grant funding the installation of 6,221 smoke alarms by February 2020. Employees from various divisions in the agency required real-time tracking of these installations to determine progress toward the goal and to identify at-risk communities in the county that would benefit from additional prevention and educational services. An interactive web app was created and hosted on the agency's intranet which was accessible to all agency employees on desktop and mobile devices. A live gauge displayed the total installations alongside other prevention efforts metrics which allowed on-demand progress reporting to the grantor. The app's map allowed operators to identify at-risk communities (multi-residential units) with no recent smoke alarm installations as priorities for education and prevention. The charts allowed Commanders to track progress by the shifts and stations under their supervision. The app was launched in April and the goal was achieved in September, long before the February deadline.



Best Web Application Individual/Team Awardees

First Place

Aligning Efforts for Success: Economic Inclusion Story Map Alexandra Krafchek, Linda E. Hoffman, Sophia Dutton

Office of Strategy Management

The report and accompanying story map, Aligning Efforts for Success: Economic Inclusion, highlight the difficulties many county residents face on the road to increasing their economic status. This product was developed in response to a review of HHS cross-agency strategies to provide analysis and recommendations about key factors which impact the success of those strategies. To increase the exposure of this product, a story map was developed as an online companion to the hard copy report. The Esri cascade story map design was chosen so the story map would flow as one continuous narrative and emphasize its interconnected topics. The text from the report was streamlined and bookmarks were included to help users navigate quickly between sections. The visuals in the story map include a combination of Fairfax County images, stock photos from unsplash.com and istockphoto.com, graphics designed in Piktochart, and two interactive maps built in ArcGIS Online (Percent Households Receiving Food Stamps/SNAP Benefits and Percent Households with Income Below Poverty Level). The interactive nature of the story map allowed for increased functionality and ease of use, as websites and other Data Analytics products were linked throughout the text for additional information. All data was cited throughout the document and in a source list at the end of the story map. To access the story map: http://bit.ly/2VtIKWI.

Best Use of GIS for Public Outreach Agency Awardees

Winner

Commercial Revitalization Districts and Areas Population, Economic, and Household Profiles

Christopher McCarthy, Donna C. Parker Department of Planning and Development

This project combines GIS data from multiple jurisdictions and Fairfax County Departments, leverages ESRI's Business Analyst demographics, and displays the results in a visually pleasing graphical format in Microsoft Power BI. The analysis and data displayed replace the existing contractorsupplied tabular format data presentation, greatly enhancing the potential redevelopment and investment opportunities within the Commercial Revitalization Districts and Areas. With over 25 key measures presented, users can easily navigate between four regions surrounding the Districts and Areas and the different profiles. The combination of data sources and software tools has enabled the Community Revitalization Section of Planning and Development to greatly improve its outreach to facilitate strategic redevelopment and investments that align with the community vision and improve the economic vitality, appearance, and function of these areas.



Best Use of GIS for Public Outreach Agency Awardees

Winner

Syphilis & Health Equity: Directing Outreach Resources to High Disease Burden Areas

Benjamin Klekamp, Gerald Bumbrey, Gabriel Griffin, John Credito *Health Department*

Infections of syphilis are on the rise throughout the Fairfax Health District which includes Fairfax County. City of Fairfax, and the City of Falls Church. In the Fairfax Health District, men identifying as Black or Hispanic are being infected with syphilis at a significantly higher rate compared to other racial-ethnic groups. The Fairfax County Health Department Division of Epidemiology & Population Health investigates all cases of syphilis to help ensure clients have access to healthcare, are appropriately treated for infections, and follow up by identifying, testing, and treating the case's sexual contacts in order to break the chain of disease transmission. Slowing the increase in cases will require all healthcare partners to discuss, test for, and correctly treat syphilis infections. Using GIS software, the Fairfax County Health Department was able to plot private healthcare provider locations in high disease burden areas. This has allowed our field investigation staff to target education outreach where providers are more likely to encounter patients at risk for syphilis infection.

Best GIS Integration Agency Awardees

Winner - Beginner Office of Emergency Management GIS Integration Courtney Arroyo, Sarah Keally, Gregory Zebrowski, Ciprian Sufitchi, Paul Lupe, Matthew C. Marquis Office of Emergency Management

The Office of Emergency Management (OEM) has made great strides in integrating GIS technology into several business processes that aid its mission of mitigating, preparing, and responding to emergencies. To manage and analyze emergency shelters, OEM created two tools. The Shelter Finder Tool is an interactive mapping application that allows staff to discover shelters nearby unfolding emergency events. The Shelter Dashboard is a new visual tool that easily shows emergency shelter status and locations. Both shelter applications have a backend integration with WebEOC, the office's main emergency management and coordination tool. OEM also continues to rely on its comprehensive Situational Awareness Viewer during incidents. This high-level overview map with scores of map layers and analytical tools is an essential application for decision-making for incident response and recovery tactics.



Best GIS Integration Agency Awardees

Winner - Advanced Streamlining Site Construction Complaints with CIS Brett Martin Land Development Services

Fairfax County Land Development Services has developed an innovative Web GIS solution to streamline the management of site-related construction complaints. The workflow includes a dynamic system of GIS tools and applications including an ArcGIS Online GeoForm, Portal for ArcGIS Web Applications, automated notifications using the GeoEvent Server and an Operations Dashboard. The system enables Managers, Inspectors, Administrative staff and the general public to seamlessly process and resolve complaints efficiently.

Students' Choice Award

Winner

Converting Development Plan Data to 3D Scenes Daniel E. White *Department of Planning and Development*

The Department of Planning and Development has had a goal for several years to create a 3D application of planned developments for staff's analysis. The geo-spatial (IT) team along with a few planners worked to set up a dataset that would comprise the derived information and allow us to fulfill this exercise. The goal was to take a map the department had kept in the two-dimensional map space into a full-blown 3D application. With the advancements in the 3D web scenes over the past few years, it was time for the department tackle this task. Along with our 3D dataset, I worked with the DIT/GIS to utilize the Colorized Lidar with the buildings extracted from the LIDAR point cloud. This allows for a realistic depiction of planned development in Fairfax County.



SPECIAL RECOGNITION

GISP Certification Achievement

This year we are recognizing five members of the GIS community who achieved their GIS Professional Certification (GISP) in 2019. The GIS Professional Certification is a culmination of years of work and recognizes individuals as experts in the GIS field. To earn certification as a Geographic Information Systems Professional, applicants must show proficiency in three areas: educational achievement, professional experience, and contributions to the profession. In addition, as of 2015, all seeking certification must pass the GISCI Geospatial Core Technical Knowledge Exam which is based upon a job analysis of a four-year experience level. Applicants must then sign and abide by the GISCI Code of Ethics and Rules of Conduct and agree to follow a three year recertification cycle. The five staff who achieved this certification are listed below. Congratulations on your achievement.

Fariss Agatone - Park Authority

Melanna Forys – Department of Information Technology, GIS Katherine Miga – Department of Information Technology, GIS Marshall Keeney – Department of Planning and Development Sandra Woiak – Department of Information Technology, GIS

Judge Biographies by category

Best GIS Cartographic Product/Presentation

Billie Leff

Billie Leff is a cartography and information products lead for Esri. She has been with Esri Professional Services for 10 years. She is a graduate of the University of Wisconsin – Madison, with a master's degree in remote sensing and geospatial information technology. She also holds degrees in environmental science, anthropology, and business administration. Prior to working for Esri, Billie was the GIS manager at National Geographic for 6 years, managing the team which provided all content for Society-created maps.

Best GIS Analysis

<u>Jason Smolinski</u>

Jason Smolinski teaches Geospatial Analysis at Fairfax High School. A former GIS analyst at SAIC, he earned his master's in education in 2012 and his bachelor's degree in information technology in 2005 from George Mason University.

Margaret Montgomery

Margaret Montgomery is the GIS manager for the City of Manassas. She has been with the city for over 9 years. She holds a master's degree in natural resources - spatial information science from NC State University. She also has a bachelor's degree in geology from Rensselaer Polytechnic University. She particularly enjoys seeking out ways to implement innovative GIS solutions across the local government space.

Kathryn Keranen

Kathryn Keranen is an instructor at James Madison University and the co-founder of the dual enrollment Geospatial Semester. She taught GIS at Thomas Jefferson High School for 7 years before retiring from Fairfax County Public Schools. She is a Wake Forest University graduate, a certified K-12 Esri trainer, and has coauthored six training manuals for Esri Press.



Best Web Application

Ken Lanfear

Mr. Lanfear was a leader in introducing Geographic Information Systems (GIS) within the U.S. Geological Survey (USGS) and built some of the earliest spatial data sets of the U.S. watersheds. He developed USGS's Advanced Arc/INFO training course and trained many of USGS's top GIS scientists, and was the founding chair of the Federal Geographic Data Committee (FGDC) Spatial Water Data Subcommittee. Mr. Lanfear currently is the Hunter Mill representative on the Environmental Quality Advisory Council.

Dieter Pfoser

Dieter Pfoser is a Professor and Chair of the Department of Geography and Geoinformation Science at George Mason University. He received his Ph.D in computer science from Aalborg University, Denmark. His research interests include data management and data mining for spatial and spatiotemporal data, graph algorithms for dynamic networks, and mining usergenerated content.

Tom Conry

Tom was the GIS Manager of Fairfax County from 1999 to 2019. While at Fairfax County, the GIS Department evolved into one of the most respected local government GIS offices in the country. During his tenure the office won three Special Achievement in GIS awards from Esri, received recognition from NACO (National Association of Counties), Governing Magazine, and the Center for Digital Government. Tom has a B.A. from in Chemistry from LaSalle University, an M.S. in Chemistry from the University of Maryland, and an M.S. in Computer Science from John Hopkins University. Tom retired to the Palmetto state in 2019 and spends much of his time traveling.

Judge Biographies (continued)

Best Use of GIS for Public Outreach

Greg Licamele

Greg Licamele is a senior public information officer with the Office of Public Affairs, leading digital content strategy for the county website and social media. He has served the county for nearly 15 years in a variety of public affairs roles. He holds a bachelor's degree in journalism from St. Bonaventure University and two master's degrees (media/public affairs and homeland security/emergency management) from The George Washington University.

<u>Jo Ann Pruchniewski</u>

Jo Ann Pruchniewski is the public relations manager for Esri in Redlands, CA. She has been with Esri for 3 years. She holds a degree in political science from Shepherd University.

Daniel Wickens

Daniel Wickens is a solution engineer for Esri's Philadelphia regional office. He has worked for Esri for over four years and is a graduate of the University of Pittsburgh with a degree in environmental studies and GIS. As a solution engineer for Esri he works extensively with local and state governments to implement Esri's new ArcGIS Hub technology, which helps organizations bring people, data, and engagement tools together to accomplish initiative goals.



Best GIS Integration

Sue Carlson

Sue Carlson is the GIS web administrator for the Office of Mapping & Geographic Information at Loudoun County. She has been with Loudoun County for 13 years. She has a master's degree in GIS from the University of Redlands and is a GISP.

Scott Sizer

Scott Sizer is the county's P3/joint-ventures policy coordinator with the Department of Economic Initiatives. He has master's degree in geography from West Virginia University and a bachelor's degree in geography from George Mason University. He still has reams of AML programs that cannot be used anymore and fondly remembers ArcView 3.0.

Tim Ernest

Tim Ernest is the GIS system administrator for Arlington County's GIS Mapping Center. He's been with the county's GIS program for 29 years in various roles. He started his GIS career in the Army as a military geographer and analyst. In '90 he left the Army to work for Arlington and became the County's first Cartographer in '93 and then their GIS System Admin in 2000.

Thank you for attending the 2019 GIS Excellence Awards Ceremony. We hope to see you again next year!



GIS Excellence Awards 2019



