

CIVIL ENGINEERING • SURVEYING • LAND DEVELOPMENT • ENVIRONMENTAL SERVICES  
GEOTECHNICAL • GIS • CONSTRUCTION TESTING & INSPECTION  
GRANT WRITING & GRANT ADMINISTRATION

# VISION

MARCH/ APRIL 2018

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H&P SPONSORS ONWARD NRV  
LUNCHEON

CAD:  
THE BACKBONE OF  
ENGINEERING SERVICES

# Letter from Our CEO



Welcome to Spring! The flowers are blooming, the leaves are sprouting on the trees, and the grass is growing. And the snow seems to have finally gone into hibernation.

Spring has always been my favorite season. Like the New Year, it reminds me of new beginnings and new opportunities. The construction season will be in full swing with sites being graded, buildings rising from the ground, and the familiar sights of roads and parking lots being paved. All of these activities are what our industry has been looking for and anxiously awaiting for several months. It brings a level of excitement to see activity picking up.

For surveyors and engineers, geotechnical and environmental staff, and project managers it means we get to finally see our work come to life. After hours of working behind a survey instrument, staring at a computer screen, or sampling soils it is gratifying to see our partners' dreams coming true.

These dreams take on different forms: a new subdivision where a family will establish roots, a new medical facility where healing can take place, a water treatment plant that will provide clean, safe water to a community, or a park that will be a place of laughter and building memories. Our satisfaction comes from seeing others succeed.

Be on the lookout for many of these projects springing up in your community. You will probably see one of our vehicles driving around too. If you see us please be sure to wave or and say "Hi."

As we celebrate our 45th year in business, plans are underway for our Lynchburg Open House in October. Be sure and "Save The Date" for October 4 from 4:00 to 6:00 p.m. It will be an event you won't want to miss and we'd love to have you join us! We'll have food, drinks, door prizes & more!

**HURT & PROFFITT  
CELEBRATING 45 YEARS**

**SAVE THE DATE**

**OPEN HOUSE** | **OCT 4 4-6 PM 2018**

**JOIN US AT 2524 LANGHORNE ROAD | LYNCHBURG, VA**



## Chris Adcock Brings Innovations to Pittsylvania Service Authority

*By Su Clauson-Wicker*

Pittsylvania County, covering nearly 1,000 square miles, is Virginia's largest land-mass county. Its 3,500 water and sewer connections are spread over a combined 185 miles of line.

When Chris Adcock became executive director of the Pittsylvania County Service Authority (PCSA) in fall 2013, he knew he had to upgrade the authority's maps and aging monitoring system. A computerized system with geographic information made sense.

"Our water systems are spread out, so without a GIS system, my field staff might drive 30-40 miles to get back to the office for water line information,"

Adcock says. "And for meter reading, even the radio-read system requires employees to drive by all the homes and businesses."

Within two years, Adcock and his progressive board had incorporated a new system of checking water meters without ever leaving the office. It works a bit like a cell phone.

"The Beacon system uses cellular transmitters to send meter readings over commercial networks to a secure, hosted database," said Adcock. The data can then be accessed by staff and customers through an Internet-based interface."

If a customer's usage jumps significantly in a day, it creates a red flag for the staff to check it out. Previously, a leak could go undetected until the end of a 60-day cycle.

"Pittsylvania was one of the first municipalities in Virginia to adopt the system," Adcock says.

With a strong GIS background from his years as a consulting and municipal engineer, Adcock sought to put the PCSA's system into a GIS format. Funded through a cooperative partnership with the county, GIS information will soon allow employees, contractors and economic development officials to view



*(Continued from page 3)*

utility facilities, property lines, fire hydrants, and other information online.

This is especially important as Pittsylvania recruits businesses to its new Berry Hill mega park and other county industrial parks.

As he looks to the future, Adcock has worked with H&P engineers to study an expansion of the county's water supply coming from Henry County. The preliminary engineering report has been submitted to the health department.

"The coal ash spill on the Dan River got us thinking about a backup water supply," Adcock says.

Adcock is a Pittsylvania County native who returned after earning a degree in civil engineering from Virginia Tech. He lives in Danville with his wife and son, a ninth grader. Adcock is a scoutmaster and serves on the vestry of Danville's Epiphany Episcopal Church as well as on the boards of Danville Golf Club and the Harvest Jubilee concert series. To de-stress, he rides Danville's 35-mile, IMBA-spec Angler's Ridge mountain bike trails.

## Geotechnical Services Expand to Blacksburg Office

H&P welcomes Chuck Newman, PE, who recently joined H&P's Blacksburg office as a Geotechnical Engineer. He is a graduate of Virginia Tech and has been involved in the design and construction of a wide variety of geotechnical projects including infrastructure, land development, and vertical construction.

Chuck's primary areas of expertise include ground improvement, shallow/deep foundations, chemical modification of soil, and geotechnical remediation.

He also has significant experience in design of segmental and cantilever retaining walls, earthen embankments, helical pile underpinning analysis and design, geophysical exploration utilizing electrical resistivity, ground penetrating radar (GPR) and in-situ analysis of foundations. Specific VDOT services include post installation testing, pile dynamic analysis (PDA), and crosshole sonic logging (CSL). You can contact Chuck at [cnewman@handp.com](mailto:cnewman@handp.com).



*Chuck Newman, PE*

## H&P Proudly Sponsors Spring Onward NRV Luncheon

Hurt & Proffitt was excited to sponsor the Onward NRV Spring Quarterly Luncheon on March 15, 2018 at The Farmhouse in Christiansburg. Onward NRV is a public/private, regional economic development organization whose mission is to attract and retain world class jobs, investment and talent in Virginia's New River Valley. It's also a movement where leaders from business, government, and higher education work together to promote the economic vitality of the region. Hurt & Proffitt is a proud investor of Onward NRV, and Keith Boyd, Director of Blacksburg Land Development serves on the

Board of this organization.

The program featured networking and highlighted economic advancements throughout the New River Valley. In recent years, the lack of ready-to-go sites and buildings in Virginia's New River Valley has been a challenge that undermines regional competitiveness.

Brian Hamilton, Director of Economic Development for Montgomery County; Lydeana Martin, Community and Economic Development Director for Floyd County; and Michael Solomon, Economic Development Director for Pulaski County presented



*Pictured Above: Ed Lawhorne, New River Valley Market Executive for Union Bank & Trust, with H&P's Jessica Littlejohn and Bif Johnson.*

on how their respective communities have been actively working to eliminate this issue. H&P was excited to be part of this fantastic event.

*Pictured Below, Left to Right: Jeff Dinger, Giles County Special Projects Manager; Cora Gnegy, Giles County Tourism Director; Kevin Byrd, New River Valley Regional Commission Executive Director*



## CAD Department The Backbone of Engineering Services

H&P's CAD department utilizes SiteOps to provide our civil engineers and land developers the power to rapidly create site layouts and "what-if" scenarios, thus accelerating the design process and enabling quick conceptual designs. This is accomplished with tools that can dynamically auto-draw parking lots, streets, sidewalks and many other site features critical to determining the feasibility of project development.

Our SiteOps users can rapidly proto-

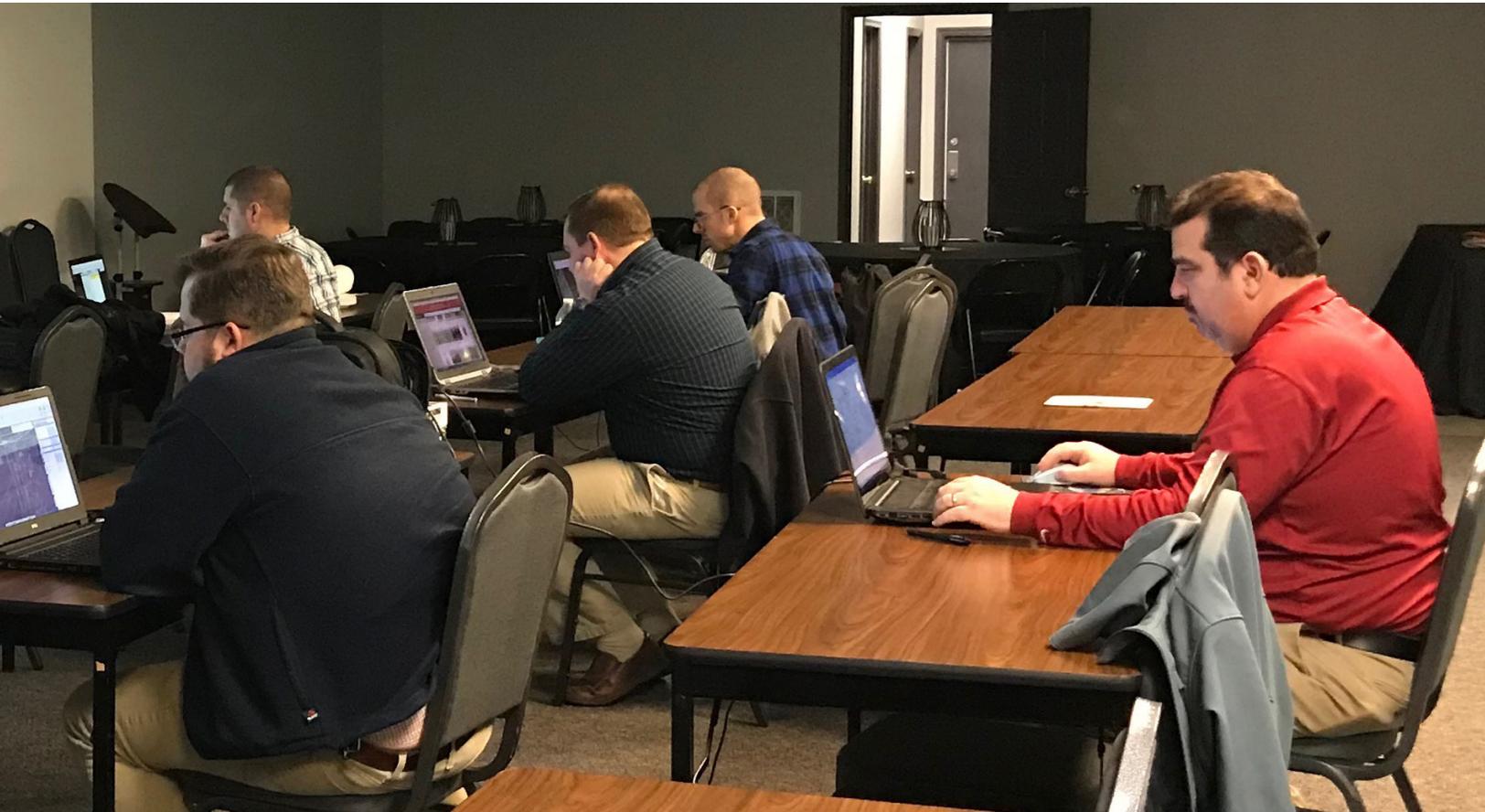
type complex site layouts, in minutes, using spatial templates that allow the user to integrate the geometry of the site layout simultaneously with earthwork grading and the associated construction cost. This allows designers to focus on numerous design possibilities in real time without having to wait for more time consuming drafting processes.

H&P has completed over 200 site designs using SiteOps since 2010.

Recently, we've expanded our SiteOps utilization to multiple departments in an effort to further advance our quality of service to our existing and potential new clients across all markets.

Importing SiteOps into a production program like Civil 3D, Microstation, Google Earth and SketchUp, to name a few, allows designers to bring the optimized grades and layouts into the post production process that reduces timely design iterations to achieve a balanced

*Siteops Training for CAD Designers*

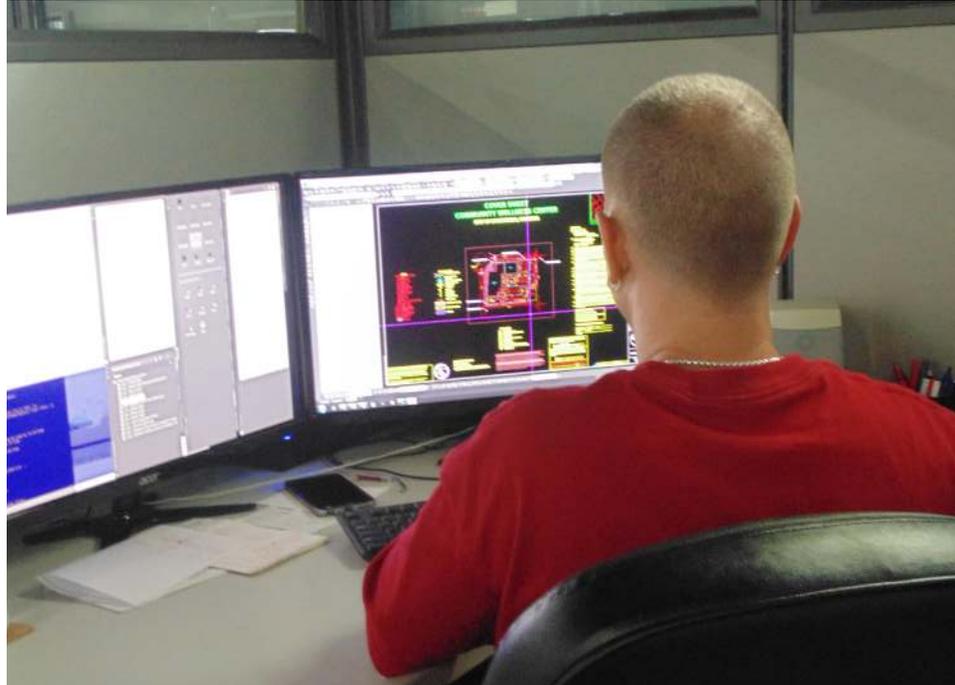


design. This brings the project to construction quicker, which in turn, saves the client money and helps the client realize their project faster.

Bringing SiteOps into programs like SketchUp or Lumen RT helps clients envision their ideas from a rendered, three-dimensional perspective which is helpful in making critical decisions when determining the visibility of the site from public right of way, adjacent neighborhoods and even screening industrial developments.

After undergoing an intensive, three-day training course with Gerald Burke, PE, certified SiteOps trainer from Charlotte, North Carolina, H&P has added five new users. Chad Hodges, Ed Carton and Mike Bryant from our Lynchburg office join Rob Wooldridge who was certified in 2010. Nick Pfister and Scott Cramer add this service for our Blacksburg office.

With the addition of these new users, our CAD department can provide enhanced services to our civil and land development engineers while providing our clients with the tools to move their project to completion.



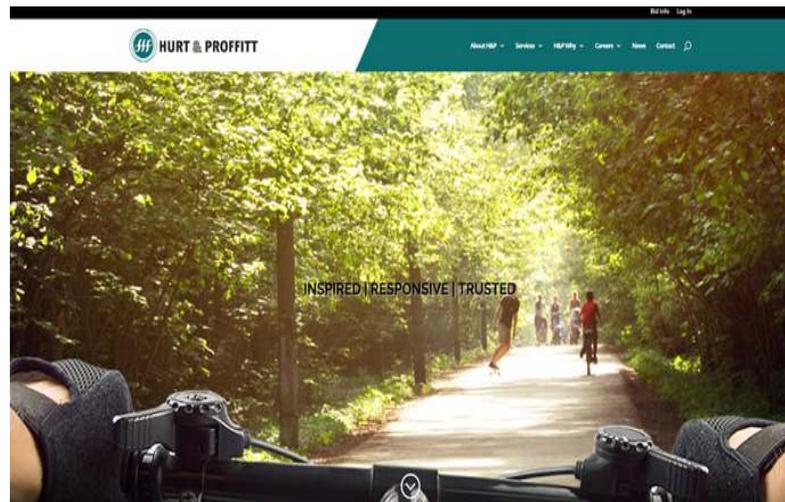
*Siteops Design for Amelon Commerce Park, Amherst County, VA*



# H&P Launches Redesigned Website

We are happy to announce our newly redesigned website, [www.handp.com](http://www.handp.com). We have redesigned it with you in mind, streamlining menus, simplifying navigation, building a responsive layout for all platforms and providing more resources and information on our employees, services, and why we do what we do.

We encourage you to visit and explore the site, discovering the full spectrum of our capabilities. We will continue to expand our resources to deliver the most updated and relevant information for our clients.



March 28, 2018: Clients and staff enjoy a day of fishing on Blue Springs Creek in Wythe County.



## HURT & PROFFITT

Inspired | Responsive | Trusted

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