



Meeting our Energy Challenges On Many Fronts Simultaneously

JOHN CAKE, AIA, VP ARCHITECTURE

HUNT was green long before it became a national trend. We live up to our slogan, "advancing and protecting the interest of our clients," which includes finding and employing environmentally responsible materials and methods as we create the built environment.

Sustainable design and construction has grown to include greater consideration of the source of materials, including how renewable and reuseable they are. Sustainable design also now considers how our environment supports our lives and health. The use of natural lighting, reduced exposure to solvents (VOCs), improved temperature control, and adequate ventilation all are part of a healthy environment. My colleagues and I strive to keep learning so we can assist our clients in implementing these concepts in their projects, thereby creating positive change.

On September 17 and 18 we have a celebration of sustainable living planned in our neighborhood, the High Falls Historic District of Rochester. Entitled Greentopia, the festival will showcase what many in the region are doing to help the environment and envision a greener future. As well as HUNT's sponsorship of the event, it has been my privilege to serve on the steering committee for Greentopia, along with my colleagues Jenna Meyers and Ken Morgan, both of whom are LEED-accredited interior designers at HUNT.

We're not going to solve all our challenges immediately, and not without a shared investment. But we know who is responsible and when this needs to happen: We are all responsible, and the time is now.

Bridge Replaces Flood-Damaged Structure in Cattaraugus County

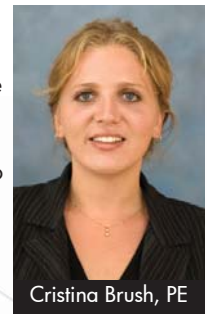
In August of 2009, Cattaraugus County was battered with severe rains resulting in significant flood-related destruction and damage. Several roads and bridges were washed out, presenting county officials with the challenge of keeping transportation routes open.

County officials contacted HUNT for assistance in replacing the bridge that carries North Otto Road over Waterman Brook, one of several structures washed out in the storms. County officials installed a temporary bridge adjacent to the washed out structure in order to maintain this vital transportation link during the design and construction of the replacement structure. This bridge is owned by the county, but carries a road owned by the Town of Otto.

The new, 50-foot long, single-span bridge is a precast concrete voided slab structure set on concrete abutments which are founded on H-piles cored into bedrock. The new structure is on approximately the same horizontal alignment as the existing structure, however the span length and vertical clearance were modified to provide a better hydraulic opening and reduce the likelihood of future scour during flood events. Appropriately sized riprap was also placed around the structure to further aid in scour protection.

Cristina Brush, PE, project engineer, explains the importance of hydraulic modeling in the design of a bridge.

"By creating a hydraulic model of the proposed structure we are able to determine many factors that will increase the structure's resistance to flood damages, such as an



Cristina Brush, PE

Continued on page 5



The new bridge over Waterman Brook in Otto replaces the structure washed out by severe flooding in 2009.

ASMS Breaks Ground on New Facility in Corning

The Corning Alternative School for Math and Science (ASMS) broke ground this past June, marking the start of an innovative design project led by HUNT designer **Scott Cyr** and architect **John Barradas, AIA**.

School administrators, volunteers, faculty, and students were joined by the designers and construction managers to celebrate the commencement of this renovation and addition project.

ASMS is a unique learning community with an integrated curriculum based on inquiry. HUNT's



ASMS students were joined by school administrators and local officials in breaking the first ground for their new facility.



The ASMS jazz band (left) performed during the groundbreaking celebration for the school's new facility. Presentation boards showing the site plan and building renderings (below) were on display for visitors.



innovative concepts for classroom design include group learning combined with individual initiatives, an enhanced use of distance learning and technology, and an emphasis on education as linked to broader current social concepts.

Classrooms are flexible, with a high degree of technology integration. Sustainable design and building practices are a natural fit for this forward-thinking curriculum. This project will include classroom design elements, such as daylighting, displacement ventilation, and interactive building controls. The project will be submitted for Silver LEED (Leadership in Energy and Environmental Design) certification.



Artist's rendering of the ASMS atrium.

In keeping with the character of the school, the students themselves took the lead, shovels in hand, to break the first ground at the site.



This artist's concept shows the east facade of the ASMS addition, with the existing red-brick structure shown in the foreground.

John Gleckner, Jeff Robbins Promoted to Become Newest Associates in Firm

M/E/P engineer **John Gleckner, PE**, and architect **Jeff Robbins, RA**, have been promoted to associates in the firm.

According to HUNT president and CEO **Dan Bower**, individuals earning associate status have demonstrated outstanding job performance and a commitment to the firm, and are on a track to greater leadership roles at HUNT.

John Gleckner, PE, joined HUNT in 2000 as a mechanical engineer. John is a graduate of Binghamton University. He earned his professional engineering license



John Gleckner, PE

for New York in 2006. He recently spent time in Taiwan on an assignment for an international client, and led the mechanical design for the Alternative School for Math & Science in Corning. John, who lives in Pine City, has also had a long career of public service as a fire and public safety volunteer.

Jeffrey Robbins, RA, joined HUNT in 1995 as a public school architectural intern. He is a SUNY at Delhi graduate with 20-years of experience, largely in the public school arena. Jeff recently earned his architectural license in New York. He has managed several large K-12 projects and clients including Elmira and Ithaca school districts, and the current Corning-Painted Post School District project. Jeff lives in Bath with wife Linda and five children.



Jeff Robbins, RA

Hunt Welcomes New Staff Members

Joshua Drew first came to HUNT as an intern, and has since become a full-time information technology specialist. Josh is a 2009 graduate of Corning Community College where he earned his Associate's Degree in Information Technology.



Joshua Drew

Josh's software and hardware experience includes the full range of Microsoft network platforms, AutoCad applications, and network protection and firewall installation. He is skilled at network analysis, design, and troubleshooting.

Jon Mackay joins HUNT as an information technology professional, specializing in telecommunications, including voice, video, and data networks, primarily in K-12 school districts.



Jon Mackay

At HUNT, Jon will be a key member of building evaluation teams, and will use his skills in network and telecommunications infrastructure design.

Along with proficiency in a wide range of design software, Jon is a licensed asbestos inspector, is certified and licensed for home inspection and radon measurement.

Jon lives in Endicott, NY, with his wife and their three children.

Maura Cahill is the newest member of the M/E/P staff. Maura earned her Bachelor of Science Degree in Mechanical Engineering from Binghamton University. She is working on M/E/P system design, mostly for our K-12 clients, but is also contributing to industrial and commercial project design. Originally from Binghamton, Maura lives in Horseheads.



Maura Cahill

Andrew Timbrook, a 2010 graduate of the University of Pittsburgh School of Engineering is HUNT's newest Engineer in Training. Andrew is working as an engineering designer on projects including water, wastewater, transportation and underground utility design for municipal, commercial, industrial, and public education clients.



Andrew Timbrook

Tim Phinney, who worked as a project manager with HUNT through the 1980s, has returned to the firm as a project development specialist based at HUNT's Towanda Office.

A graduate of Mansfield State College where he earned his Bachelor's Degree in Political Science, Tim has more than 20 years experience with various state, federal, and local agency contract administration for communities through New York and Pennsylvania. His broad-based skill set includes construction documents, use of survey instruments, highway construction inspection, and managing commercial projects.



Tim Phinney

Tim lives in Sayre, Pennsylvania with his wife, Rene. The couple has two daughters and seven grandchildren.

South Seneca Schools Cut the Ribbon on Additions and Renovations

The South Seneca Central School District celebrated its new facilities and said “thank you” to the community for their support recently with an open house, tours, activities, and an ice cream social at both the Ovid and Interlaken campuses.

HUNT principal **Charlie Woodcock** and project designer **Keith Miller** were among the tour guides. District officials and guests cut a ceremonial ribbon at the Ovid school, while throughout the evening tour guides showed visitors the new facilities, and demonstrated some of the new features and technology made possible by this project.

This event celebrated the completion of the district’s \$28-million, district-wide renovation project, which includes site, building, and infrastructure improvements at the high school, middle school, elementary school, and bus garage facilities.



Cutting the ribbon at the South Seneca Schools, from left, Charlie Woodcock, HUNT; Carl Pell, BOE; David Terry, Jr., BOE; Janie Nusser, Superintendent; Brenda Eastman, BOE; Mike DiPerna, BOE; Mark Sinkiewicz, BOE; and Kurt Minges, BOE.



The new gymnasium entrance at South Seneca Schools.

Renovations include safety and security upgrades such as access control and improved line-of-sight between administrative offices and main entrances.

A new gymnasium addition allows the former gym to become an auditorium, which in turn becomes music instruction space for choral and instrumental groups.

Two libraries are combined at the elementary school, making space available for large-group instruction.



The new music suite.

Also at the elementary school, art and music rooms are upgraded, and locker rooms are improved with new lockers and finishes.

All locations have improved entrances, including better accessibility at sidewalks and entrances by adding curb-cuts and enlarged doorways. Improved mechanical and electrical systems at all locations, along with energy-efficient windows, increase energy efficiency throughout the district.

Renovations to the bus garage include an improved lift, new fuel island, bus wash bay, and improved access control.

“Our community came together and supported these excellent facilities for our kids, and that is cause for celebration,” said district school Superintendent **Janie Nusser**. “We took this opportunity to thank our board, consultants and construction managers. Most importantly, we extend our thanks to all the people in our district who made this project possible.”



The new auditorium was a highlight on the tour route during the recent open house and ribbon-cutting celebration.

Otto Bridge Replacement

Continued from page 1

appropriate low chord elevation to reduce the likelihood of the flood waters reaching the superstructure. We can also model water velocities along the stream bank to design riprap scour protection for the substructure.”

Mark Burr, Director of Engineering for the Cattaraugus County Department of Public Works, describes the importance of promptly replacing this bridge. “The washout had caused a 26-mile detour for people using this bridge, which represents a major inconvenience. That’s why we installed the temporary structure right away.”

Mark also noted special environmental concerns



The pile-driver sets H-beams into cores drilled into the bedrock to support the Otto Bridge. The variation in the sound rock dictated that the piles be set at depths ranging from 10 to 20 feet.



The curves at both approaches to the bridge carrying North Otto Road over Waterman Brook presented the challenge of designing the transitions to the superelevation of the roadway.

with the project. “A trout stream running parallel to the road presented an extra challenge due to the need to relocate the stream to install the temporary bridge,” Mark said. An important part of this project was to restore the relocated stream back to its original condition upon the completion of the bridge replacement.

“The project included interesting geologic challenges as well. The varying depth to bedrock at each abutment caused the length of piles to vary from approximately 10 feet to 24 feet. Overall, it was a very interesting project with more than its share of engineering challenges, and with a successful outcome.”

The cost for construction of the new bridge came in at \$930,000, which will be offset by FEMA funding specifically designated to alleviate repair costs following natural disasters.

Investigative Engineering Often Taps Professional Skills in Unusual Ways

When the phrase: “What happened here and why?” becomes a million-dollar question, it’s important to have the precise answer, supported by facts and data. Investigative engineering answers such questions by providing an impartial third party with thorough knowledge of engineering.

Engineer **Ben Gustafson** describes investigative engineering services provided by HUNT as simply, “Looking at the causes and origins of failures.” The investigation and report are most often requested by insurance companies, whose interest is in ensuring that a legitimate claim has



Solving investigative engineering mysteries is often an inter-disciplinary activity. Engineer Ben Gustafson (left) confers with architectural designer Joe Magliocca.

been made.

HUNT is a member of the Investigative Engineering Association, the national organization that offers training in the field, as well as being a resource for members. Investigative engineering, also called forensic engineering, requires that investigators be versed in the full range of disciplines.

Ben described the process. “We get a call from whoever requests the investigation, and the first thing we do is go out to the location. We can do some remote background research, but there is no substitute

for being at the site. We approach the investigation with no preconceived notions, and are prepared to look at a wide range of factors.

Continued on page 6

Open House Showcases Health Center Renovation

The residents of Schuyler County got their first formal look at the newly renovated September Hill Women's Health Center this spring during an open house event at Schuyler Hospital's latest facility project.

HUNT architect **John Barradas, AIA**, lead designer on the project, joined hospital officials and physicians Dr. William Saks and Dr. Zarmina Aman in greeting guests and touring the facility.

The reconfiguration of the September Hill Women's Center is designed to make the patient experience pleasant and reassuring in an environment that indicates competence, safety, and privacy. At the same time, the waiting area is large enough to accommodate larger group educational meetings and educational programs called for in the program to improve health services for women of all ages.

A positive feature is the home-like setting of this converted private residence. This redesign respects those physical attributes while at the same time introduces state-of-the-art medical equipment for the physicians who practice there. Exam rooms



The new patient waiting area (above) and one of the renovated exam rooms (below) at September Hill.



and physician offices are well appointed and equipped with modern finishes and equipment.

The reception area is now visible from the main entrance, making it clear to patients where their first stop should be. The interview areas are glass-enclosed for privacy without compromising the open feel of the reception area.

Spectacular views of Seneca Lake are preserved by maintaining large picture windows as the north side of the building is extended over the existing outside porch. Ample parking and improved access at walkways and doors add to the ease with which patients and visitors arrive and enter the facility.



At the grand opening of the September Hill Women's Health Center, from left, John Barradas, AIA of HUNT; Dr. William Saks; nurse Liz Ayres; and Dr. Zarmina Aman.

Investigative Engineering

Continued from page 5

"Accidents are, by nature, difficult to pinpoint regarding cause," Ben continued. "A car accident, for example, may not be caused by the tired driver, the sharp curve, the wet road, the soft tire, or the dim headlight—rather it is because all of those things came together at the same time."

The investigator's charge is to find the primary cause of a failure, which can be obscured by a variety of factors. "Our engineering expertise allows us to sort through that," Ben said.

In one case, Ben was asked to look into the cause of what became a lawsuit at a hockey arena. An access door was ajar and a player broke a leg.

Was it because of a bad latch, or did someone simply not close it properly? Similarly, following a barn collapse, the owner said it fell because of high winds. Was that the case? It was an old barn whose structure had been modified many times over the years. Investigative research uncovers the confluence of events that led to the failure.

To be successful at providing these services, the engineer must be available on short notice, be able to turn reports around quickly, be thorough in all things, and be prepared to submit a report that becomes legal evidence in a court of law.

"The variety of projects is interesting," Ben concluded. "You never know what you'll be challenged with. Our engineering skills are tapped for a unique service. For those willing to investigate and analyze with an open mind, this is an interesting and enjoyable pursuit."

Sports Hall of Fame Honor Brings Back Memories for Joe Magliocca

No matter which team you're rooting for to take the pennant, one thing we all agree on is that baseball is the quintessential American game.

One HUNT designer, **Joe Magliocca**, has a particular fondness for the game. And, as anyone who has ever played intramural softball with him knows, he has more than an average level of talent for the sport. Joe's abilities are well known in Corning, where earlier this year he was inducted into the Corning-Painted Post School District Hall of Fame.

The accompanying photo shows Joe at the plate, and you can see the ball: a blur in the

right of the frame—on its way to the fence. Joe tells the story this way.



Joe Magliocca

"The photo is from 1995—the last game of the regular season. We were 11-0 in the Southern Trail Conference. It's the bottom of the 7th inning with two guys on, and we were down one run. They walked the guy in front of me and loaded the bases.

"On the first pitch, I hit a grand slam over the left field fence to win the game. I remember it was a windy day and our coach had told us there would be no home runs that day—to keep the ball down and not fly out, so it was fun to prove him wrong.



The ball is just a blur in the right of the frame, as Joe Magliocca cracks one over the fence to win the game in 1995.

"We went on to go undefeated in our division, and 25-1 overall. We won the NYS Class B State Championship. I went 6-for-7 with 8 RBIs in the state tournament, and have a Gold Glove for MVP on my shelf at home! It truly was one of the most exciting times in my life."

Joe's skills and dedication on the ball diamond have transferred to his professional career in architecture, particularly as a project manager. This work can be one challenge after another, and it's not uncommon to hear from his clients and his co-workers that Joe, "can really hit the ball!"

Renovated HUNT Web site at Beta Test, Set for Release Later this Year

The redesigned HUNT website is now being beta tested, and is scheduled to go online later this fall.

Along with more sophisticated navigational controls, plans for the site include a more visible news section, and more interactive features

regarding the latest information about the engineering, architectural, and survey professions.

The current HUNT website was designed more than 10 years ago, and advances in technology since then have made new capabilities and features available to web designers.

Look for our new site to be online soon.



HUNT published by Hunt Engineers, Architects & Land Surveyors, P.C.

Airport Corporate Park, 100 Hunt Center, Horseheads, NY 14845-1019
phone (607) 358-1000

4 Commercial Street, Suite 300, Rochester, NY 14614-1008
phone (585) 327-7950

1 Elizabeth Street, Suite 12, Towanda, PA 18848
phone (570) 265-4868

Website: hunt-eas.com, E-mail: info@hunt-eas.com

Summer Interns Bring New Perspectives to HUNT Offices

A highlight of the summer at HUNT is the arrival of college interns who learn about working in the fast-paced world of engineering, architecture, and survey. We must confess, our motives are not purely altruistic regarding their work here—several interns have returned to HUNT as full-time employees.

These young people live in the Elmira/Corning area, and are studying at colleges and universities across New York and Pennsylvania. They are all engaged in different academic pursuits, but all share the personal drive and eagerness to learn the ropes that is invigorating for the staff.

Whitney Van Houten is from Horseheads, and is attending the University of Buffalo where she is pursuing her Bachelor of Science Degree in Architecture. Whitney is working with **Scott Cyr** and **Jeff Robbins** in architecture.

Chuck Devine, from Corning, is attending SUNY at Alfred toward his Bachelor of Science Degree



Summer interns gathered at HUNT's Horseheads office before returning to school, from left: Seth Lovell, Chuck Devine, Whitney Van Houten, and Bryce Cody. Allyson Hansell was at another assignment when this photo was taken.

in Architectural Technology. **Keith Miller**, **John Barradas**, and **Joe Magliocca** are working with Chuck.

Bryce Cody, who hails from nearby Bath, is at Hofstra University on Long Island, where he is on track to earn his Bachelor of Science Degree in Civil Engineering. Bryce is working with **Tim Steed**.

Seth Lovell has spent several summers at HUNT with our survey group. Originally from Big Flats, Seth has completed his Associates Degree in Surveying Engineering from SUNY at Alfred, where he plans to continue his studies toward his bachelor's degree.

Allyson Hansell is a student at the Pennsylvania Institute of Technology in Williamsport where she is studying civil engineering. She is working with **Tim Steed** in engineering.

The staff at HUNT welcomes our interns, offers our best wishes as you return to your full-time studies in the fall, and we hope to see you again soon.

PRSR STD
U.S. POSTAGE
PAID
PERMIT NO. 588
BINGHAMTON, NY

Airport Corporate Park
100 Hunt Center
Horseheads, NY 14845-1019

