ASCE Illinois Section

News

Vol. 61, No.2
Summer 2020

INSIDE:

President's Notes 2

MWRD Watershed Management Ordinance Revisions 3

Should I Stay or Should I Go? 4

ASCE IL Section 2020 Awards: Time for Nominations 5

ASCE 2021 Report Card for America's Infrastructure – February 2021 6

ASCE Region 3 Update 7

2020-2021 ASCE IL Section Leadership Ballot Announcement 8

Illinois Section ASCE 2020 Scholarship Winners 9

Section Activities 12

News & Secretary Report 13

The Importance of Complete SUE Investigations

Written by Steve Rienks, PE and Brian Castro, PE

There are several risks that might prevent a project from being completed in a safe manner, on time and within the construction budget. These risks typically include permits, right-of-way acquisition, unsecured construction easements, unexpected or changing site conditions and utility conflicts and protection. This article will emphasize a way to mitigate the risks associated with utility conflicts and protection. We believe that proper utility identification prior to the construction notice to bid will lead to projects being constructed safely, on time, within the construction budget and with minimal disruptions to the services provided by the utility companies.

Complete SUE Investigations lead to safer work conditions for the utility locators and for the Contractors.

Utility identification should begin with the planning/design development phase of a project. Before we move into how to incorporate utility identification into the planning/design development process, we should review the levels of utility identification per ASCE 38-02. This standard is expected to be updated in 2020 as ASCE 38-20. Here are the current guidelines:

ASCE 38-02: Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data

Quality Level D ("QL D") information comes solely from existing utility records but may sometimes include a site visit. It may provide an overall "feel" for the congestion of utilities, but it is often highly limited in terms of comprehensiveness and accuracy. Its usefulness may be limited to early design stage (project planning and route selection) activities or to projects with minimal planned excavations. This data may also be derived from

(continued on page 8)

President's Notes

Megan McDonald, P.E.

I had originally finalized my President's Notes in the middle of May. However, so many things have changed since I wrote those notes.

I had originally envisioned framing them around the now *precedented* idea of working from home and connecting to clients, servers, and coworkers virtually; how we should shift our focus to the flexibility that our Nation's infrastructure provides. I considered our response to how, in the future, we would regard our coworkers who need to work from home from time to time; the sound of kids or dogs in the backgrounds of conference calls and how that should be viewed as dedication not distraction. Now, I am currently sitting in my kitchen in Chicago, listening to helicopters and police sirens.

Here we are. Many of the cities, villages, townships, and counties in our Section are hosting marches and protests or suffering from rioting and looting. Sesame Street started by having commercials to teach our kids how to wash their hands and is now teaming up with CNN to answer children's questions about racism. We as a Nation, State, Section, City are hurting, and we are gearing up to something that I cannot begin to say I understand or can predict.

I, as is every member, am held to the newest Canon of ASCE. Canon 8 states, "[e]ngineers shall, in all matters related to their profession, treat all persons fairly and encourage equitable participation without regard to gender or gender identity, race, national origin, ethnicity, religion, age, sexual orientation, disability, political affiliation, or family, marital, or economic status." Further, I feel as though Part c of Canon 8 resonates particularly right now, "[e]ngineers shall consider the diversity of community, and shall endeavor in good faith to include diverse perspectives, in the planning and performance of professional services." In short, we as engineers and as members of ASCE have vowed to uphold the ideal that not only do we treat all persons fairly but we acknowledge diversity in the community, that we listen to their voices in the work that we do, and that we take action to include them in the services we provide.

I am not in a position to be a voice for all that is happening in our country. In this turning point for the future, I think it important to listen to the voices that have been living this very reality through our nation's history, for decades. In an effort to give this depth of perspective, I give the voice to someone who is experiencing the recent events from a personal perspective. Here, I turn to Dr. Yvette Pearson, Chair of the ASCE's Members of Society Advancing an Inclusive Culture (MOSAIC). She wrote a very thoughtful and honest perspective of the current events, and I implore you all to read it and take in what she has to say. Her experience as a person of color and a disabled woman in America, and her fears for herself and her family are something we should be listening to. https://news.asce.org/i-cant-breathe-and-this-is-why/?fbclid=IwAR3nvKGOzp-bes8WDsrMteXhEUX2suwt5d01f3qDw5JZBmu3UfPoFHELetbI

(continued on page 15)

ASCE Illinois Section

News

ILLINOIS SECTION NEWSLETTER
E-Mailed to all ASCE-IS dues-paying members
American Society of Civil Engineers Illinois Section - Region 3

Communications Chair/ Newsletter Editor - Katie Bell
Katiebell529@gmail.com

Director of Advertising -
Tim Scully-Granzeier
312-933-4639
Tim.Scully-Granzeier@arcadis.com

Pres. Megan McDonald . . . . . (312) 466-8249
Pres. Elect Brian Pawula . . . . .(847) 922-6125
Sec. Andrew Walton. . . . . .(312) 520-9276
Treas. Sandra Homola . . . . . (312) 616-5095

Please update your information at
www.asce.org/myprofile or
call 1-800-548-2723
Web Site: http://www.isasce.org

ASCE National Information
Phone: 1-800-548-ASCE
Web Site: www.asce.org

Advertise in the Illinois Section Newsletter and reach Civil Engineers in the Chicago Area.

For details email Tim Scully-Granzeier, Director of Advertising, at Tim.Scully-Granzeier@arcadis.com

MWRD Watershed Management Ordinance Revisions

Written by Graig Neville, PE, CFM, CPESC

On May 7, 2020 the Metropolitan Water Reclamation District, the regulatory authority for stormwater management permitting within Cook County, but outside the City limits for Chicago, adopted changes to the Watershed Management Ordinance (WMO). Important changes to the WMO will be described in more detail below, but generally encompass increased rainfall precipitation requirements and changes to off-site retention and detention, especially in the Lower Des Plaines and Little Calumet watersheds.

The first change is the adoption of the newly published Illinois State Water Survey Frequency Distributions of Heavy Precipitation in Illinois: Updated Bulletin 70 (ISWS Contract Report 2019-05), dated March 2019 and commonly cited as Bulletin 75 to differentiate from the original Bulletin 70 report from 1989. In Bulletin 70 the 100-year, 24-hour precipitation event from Sectional Mean Frequency Distributions Table for Northeastern Illinois was 7.58 inches. This has been the value in use by the WMO since its initial adoption over six years ago. The new Bulletin 75 precipitation value increases significantly to 8.57 inches. This is a 13% increase in precipitation values used for detention design purposes. ISWS hydrologist used statistical evaluation to evaluate an additional 25 years worth of climatological data in addition to the 83 years of precipitation data evaluated in Bulletin 70. The statistical evidence in both Bulletin 70 and Bulletin 75 pointed to irrefutable changes in climatologic effects in Illinois starting sometime in the mid-50's. Simple stated intense storm events have steadily increased in frequency and magnitude since that time. All of the surrounding counties have adopted Bulletin 75 data in some way within their comprehensive county-wide ordinances.

Bulletin 75 reflects higher precipitation levels in Northeastern Illinois

Bulletin 75 will also include slight modifications to the temporal distributions (currently known as the Huff Distributions) from Bulletin 70, but those distributions have yet to be formally published. ISWS has stated that these modifications to temporal distributions are minor in nature and will not likely have a significant impact on hydrologic computations.

The second change in the WMO pertains to the pilot study for the use of off-site detention within the Lower Des Plaines and Little Calumet watersheds. MWRD's Technical Advisory Committee (TAC), has been debating how to encourage economic development in the southern Cook County suburbs, while still meeting the stormwater management requirements of the WMO. An idea put forth was to implement a 'Detention Credit' system where an offsite location could be used to mitigate or offset stormwater impacts of another developed site within the watershed. The TAC debated several technical issues, looking at the needs of the community, the economic burdens or opportunities to the land developer, and the potentially damaging conditions created to surrounding landowners. The language presented in the WMO allows for up to 50% of the Volume Control (Retention) requirements, or more simply stated as the first 1-inch water quality volume to promote infiltration, in the Low Des Plaines and Little Calumet watersheds to be provided off-site without having to prove technical infeasibility.

Furthermore, the required Detention Volume (the 100-year design volume) requirements are modified for the Lower Des Plaines and Little Calumet watersheds to allow for off-site detention storage by meeting less restrictive conditions for off-site detention in other watersheds.

MWRD has adopted a 5-year Pilot Study in Lower Des Plaines and Little Calumet watersheds

(continued on page **12**)

Should I Stay or Should I Go?

Written by Jeremy Metz.

Should I stay or should I go? This is a question many young engineers ask themselves within the first five years out of college. Now I want to make this clear before I start: there is no black and white answer to this. The

The goal of this article is to empower young engineers when considering whether to stay at their current position or whether to roll the dice and try something new.

goal of this article is to empower young engineers when considering whether to stay at their current position or whether to roll the dice and try something new.

To make such a big decision while having limited experience requires us to fully vet our options using logic and less tangible considerations. We must use logic to compare raw data such as salaries, number of employees, profitability, locations, benefits, etc. It's equally as important to force the difficult to measure thoughts including weighing the loss of good relations versus expansion of external networks, as well as choosing from a clean slate or reputation built up over time. Take time to create or review your goals to determine what matters most to you. Which location will most enable your goals? Keep in mind that true professionals won't begrudge you for doing what's best for you.

At the end of the day, it's important your job provides you with meaning, even if that includes working just to pursue the things in life which truly bring you joy.

CHOOSING TO STAY. Make sure you're staying for yourself. All too often young people can be swayed by future hopes of an increase in salary or promotion worded as just short of a promise. There are (usually) no guarantees. Planning to stay should mean that you are happy with your work environment, satisfied with your benefits, and have a clear path to improvement and development. The above reasons can have a huge effect on your desired work life balance.

CHOOSING A NEW START. Change can be a powerful ally in our lives. Remaining in an internal position where you're not being developed, are unsatisfied with your compensation, or which you deem as a toxic environment can make you not only hate what you do but stagnate your career. Turning the page to a new opportunity can have a positive impact on your life, regardless of some of the possible negative consequences. It all comes down to the core reasoning - are you changing positions for yourself or just for the sake of change?

At the end of the day, it's important your job provides you with meaning, even if that includes working just to pursue the things in life which truly bring you joy. Engineering school is difficult enough even when you have a passion for your studies. Carrying this passion to the adult world can be critical to

Find a position where your passion is constantly stoked through challenge and responsibility; only then can you be sure you've made the right decision.

success. Find a position where your passion is constantly stoked through challenge and responsibility; only then can you be sure you've made the right decision.

Jeremy Metz, *is a civil transportation engineer with 2 years of experience working for Crawford Murphy & Tilly in Aurora IL.* *Special thanks to Kyle Sant for providing valuable perspective for this article.*

ASCE IL-Section 2020 Awards: Time for Nominations

Written by Anne Marie Jensen, PE, Kris Salvatera, PE, and Rachael Berthiaume, PE, LEED AP

It's time to nominate your peers, projects, and firms for their contributions to civil engineering and our Society. The Illinois Section of ASCE needs your help in identifying and recognizing qualified individuals, projects, firms, and agencies. This year will also include a new award for Construction Engineering Person of the Year.

HOW TO NOMINATE?

Information on award requirements, nomination forms, and complete nomination instructions can be found on our website www.isasce.org/awards. Nominations for all 2020 awards are **due by July 17, 2020.**

Please submit the original nomination(s) to Sarah Harbaugh, IS-ASCE, 35W749 Bluff Drive, St. Charles, Illinois 60175 AND a pdf of the nomination packet electronically to illinoissection@isasce.org.

Any questions can be emailed to Kris Salvatera at ksalvatera@cmtengr.com.

IL Section Award recipients are eligible to be nominated by the Section to become candidates for the 2020 ASCE National Awards Program.

WHAT ARE THE AWARD CATEGORIES?

- Outstanding Civil Engineering Achievement Award (Four Project Size Categories Available)
- Sustainability in Civil Engineering Achievement Award
- Construction Engineering Person of the Year (New Award!)
- Civil Engineer of the Year
- Young Civil Engineer of the Year
- Government Civil Engineer of the Year
- Young Government Civil Engineer of the Year
- Citizen Engineer of the Year
- Public Involvement Award
- Public Sector Employer Recognition Award
- Private Sector Employer Recognition Award

For additional information and more in-depth award criteria, please go to the IS-ASCE's website –www.isasce.org/awards.

***Anne Marie Jensen**, PE, is a transportation engineer and project manager at HNTB. She serves as Director of IS-ASCE to 2020 and Awards Committee Chair.*

***Kris Salvatera**, PE, is a senior engineer at Crawford, Murphy & Tilly, Inc. specializing in transportation and aviation services. He serves as a Director of the IS-ASCE to 2020 and Awards Committee Chair.*

***Rachael Berthiaume**, P.E., LEED AP is an Environmental Engineer and Project Manager at V3 Companies, Ltd. specializing in environmental risk evaluation and regulatory cleanups. She serves as an Awards Committee Member and former Director of IS-ASCE.*

ASCE 2021 Report Card for America's Infrastructure – February 2021

Written by Darren Olson, PE, CFM, D.WRE

The Illinois Section is actively involved in Government Relations at both the State and National Level. Our Section has completed 3 Report Cards on Illinois Infrastructure that build upon the ASCE National Report Card and participates in yearly visits to our State Legislature, National elected officials, and other activities. These efforts have produced real results for the Illinois Section, including recent passage of the "Rebuild Illinois" $41.5 Billion Capital Program in 2019 that referenced our State Report Card.

Every four years, America's civil engineers provide a comprehensive assessment of the nation's 17 major infrastructure categories in ASCE's Report Card for America's Infrastructure.

Right now, our nation is at a crossroads. Deteriorating infrastructure is impeding our ability to compete in the thriving global economy, and improvements are necessary to ensure our country is built for the future. While we have made some progress, reversing the trajectory after decades of underinvestment in our infrastructure requires transformative action from Congress, states, infrastructure owners, and the American people.

That's why, every four years, America's civil engineers provide a comprehensive assessment of the nation's 17 major infrastructure categories in ASCE's Report Card for America's Infrastructure. Using a simple A to F school report card format, the Report Card examines current infrastructure conditions and needs, assigning grades and making recommendations to raise them.

The ASCE Report Card for America's Infrastructure allows civil engineers the ability to translate our expertise into information lawmakers, the media, and the public can easily understand. Our report cards are designed to raise awareness about what is an out-of-sight, out-of-mind issue for most citizens. The grades are not only a reflection of the condition and funding for infrastructure, but also resilience and future needs.

Elected officials from both sides of the political aisle and at all levels of government regularly cite the Report Card, beginning with the very first release in 1998, when President Bill Clinton referenced the Report Card's grade for Schools. President Obama used the 2009 and 2013 Report Cards to build his case for infrastructure investment and President Trump cited Report Card numbers during his push for a comprehensive infrastructure package. News reports reference the Report Card on a daily basis, with mentions in The Wall Street Journal, The New York Times, USA Today, The Washington Post, and the Los Angeles Times, as well as on National Public Radio, NBC's Today Show, 60 Minutes, CBS Evening News, and HBO's Last Week Tonight with John Oliver, among many others.

The ASCE Report Card for America's Infrastructure allows civil engineers the ability to translate our expertise into information lawmakers, the media, and the public can easily understand.

ASCE's 2021 Report Card for America's Infrastructure will be released in February 2021. It will include 17 categories of infrastructure – the same 16 covered in 2017 along with the addition of a stormwater category. The Society does extensive promotion and outreach (continue on page **11**)

ASCE Region 3 Update

Written by John Lazzara, PE

As we move into the third month of remote working, social distancing, and video communicating, I hope everyone has a chance to relax and take a few minutes to appreciate our blessings. States across the country are making difficult decisions on when and how to open up again. With warmer weather quickly approaching, we are faced with personal choices of doing what we each feel comfortable with while still respecting the safety and rights of others. Certainly not the summer conditions we were hoping for on January 1st, but also not unexpected as the year has gone by. Working from home, caring for family and friends, and staying in touch with our social groups have been challenging for a lot of people, but we are fortunate for many reasons.

The infrastructure industry has generally been strong and most civil engineers still have a job with a steady income which can't be said for a lot of others across the State and the country.

First, the infrastructure industry has generally been strong and most civil engineers still have a job with a steady income which can't be said for a lot of others across the State and the country. **Second**, companies have taken several steps to maintain safety for their employees and their families. Support for remote working has been exceptional from both public agencies and private consulting firms. Initial technology issues were quickly addressed throughout the infrastructure industry and efficiencies were maintained, and in some cases even enhanced. Social media sites have offered many resources for people that need extra support dealing with the stress of everyday life in these changing times. **Third**, while nobody knows exactly how the transition back to "normal life" will play out, we do know that things will get better. As the days get longer and the sun is out more often, it will be easier to get outside and enjoy the fresh air even if it's only within a limited space. Expectations remain high that everyday travel will resume in a relatively short timeframe later this summer.

Although the ASCE Region 3 Assembly planned for Cleveland, Ohio this July had to be postponed, I'm very happy to report that we were able to secure the same venue for July 2021.

Although the ASCE Region 3 Assembly planned for Cleveland, Ohio this July had to be postponed, I'm very happy to report that we were able to secure the same venue for July 2021. The Region 3 Governors continue to discuss and share best practices for Sections and Branches as well as Student Chapters. Branches and Sections throughout Region 3 continue to hold webinars, Zoom meetings, and charitable events throughout the pandemic. I encourage our IL Section members to check out the ASCE website for information that you may find useful from content on technical skills and tips for improving communications with coworkers to COVID-19 resources. Historically, infrastructure has traditionally been an important component of economic recovery and all signs point to that trend continuing to help America this year. It's a great time to be a civil engineer and recognize the value our profession brings to society.

Historically, infrastructure has traditionally been an important component of economic recovery and all signs point to that trend continuing to help America this year.

***John Lazzara** is an ASCE Region 3 Governor and serves as the Regional Manager for Stanley Consultants focused on professional transportation engineering services.*

2020-2021 ASCE IL Section Leadership Ballot Announcement

By Megan McDonald, PE, LEED AP, ASCE IL Section President

I am pleased to announce our nominees for ASCE Illinois Section Board for the next calendar year. Per our Bylaws, the recommendations of the nominating committee are being filed in this Newsletter, a minimum of three months prior to our Annual Awards Dinner on October 1, 2020. During this time, please review the ballot and file additional nomination(s) directly to the Secretary of the Illinois Section no later than August 1, 2020. The additional nomination(s) must include a petition signed by not less than 15 Active (dues paying) Members of the IL Section. If there are no petitions filed for additional nominations by August 1st, the ASCE Board will vote on the ballot named below.

If there are petitions, the ASCE Board will include validated nominees in discussions and voting. The nominees will be ratified by the ASCE IL Section Board at the August 3, 2020 meeting and an email will be sent to the membership for a 30-day review period prior to the Annual Awards Dinner.

If you have any questions regarding this process, please contact me at megan.mcdonald@clark-dietz.com.

IL Section Ballot (2020-2021)

President – Brian Pawula, P.E. PMP

Past President - Megan A. McDonald, P.E., LEED AP

President-Elect - Andrew D. Walton, P.E.

Treasurer - Sandra Homola, P.E.

Secretary - Matt Huffman, P.E.

Directors to 2021 - Megan Elberts, P.E., Thomas Janicke, P.E., Anne Marie Jensen, P.E.

Directors to 2022 – Jeana Gowin, P.E., CFM, Zach Pucel, P.E., Nihar Shah, P.E., S.E.

Institute/Technical Group Chairs - To be determined by Institutes/Technical Groups; not subject to IL Section Bylaws.

The Importance of Complete SUE Investigations

(continued from page 1)

one-call marks, oral recollections, or existence of service connections.

Quality Level C ("QL C") involves surveying visible aboveground utility facilities, such as manholes, valve boxes, posts, etc., and correlating this information with existing utility records (i.e., QL D data). When using this information, it is not unusual to find underground utilities that have been either omitted or erroneously plotted. QL C information will be subject to the inaccuracies contained in the source documents and will not reveal an unrecorded line that has no surface features. Therefore, its usefulness may be limited to preliminary design reviews or to projects with minimal anticipated conflicts.

Quality Level B ("QL B") involves the use of a suite of surface geophysical techniques to determine the existence and horizontal position of underground utilities. When the positions are marked on the ground the activity is called "designating". It further correlates utility records and surface topographical information and may also help reveal unrecorded or abandoned lines. Two-dimensional mapping information is obtained. This information may be enough to accomplish preliminary engineering goals, by helping the

(continued on page **10**)

Illinois Section ASCE 2020 Scholarship Winners

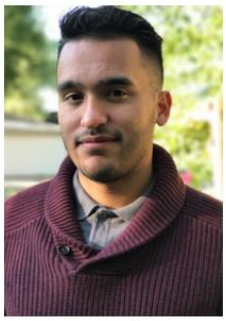
ISASCE Student Leadership & Involvement Scholarship

Cleo Jaurigue

Construction Institute (CI) Scholarship

Alyssa Hauert

Construction Institute (CI) Scholarship



Juan Zambrano

Environmental & Water Resources Institute (EWRI) Scholarship

Kyle Berry

Environmental & Water Resources Institute (EWRI) Scholarship

Carlos Soto

Geo- Institute (GI) Scholarship

Zhefei Jin

Geo- Institute (GI) Scholarship

Pang Shen

Structural Engineering Institute (SEI) Scholarship

Michelle Calcagno

Structural Engineering Institute (SEI) Scholarship

Jacob Behnke

Transportation & Development Institute (T&DI) Bob Camillone Memorial Scholarship

Natasha Breslieva

Transportation & Development Institute (T&DI) Bob Camillone Memorial Scholarship

Ines Torra-Bilal

Urban Planning & Development (UP&D) Scholarship

George Beck

The Importance of Complete SUE Investigations

(continued from page **8**)

designer to determine where to place storm drainage systems, footers, foundations, and other design features to avoid conflicts with existing utilities. Slight adjustments in the design may produce substantial cost savings by eliminating utility relocations. This data may also prove to be significantly different than the record data and can be provided to the utility owner to update their information for their own benefit and can be provided to the state's one call center.

Quality Level A ("QL A") involves the use of nondestructive digging equipment at discrete, critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material, and other characteristics. This activity is called "locating." It is the highest quality level presently available. This information, when combined with other surveyed and mapped information, allows the designer to infer plan and profile information, for use in making final design decisions. By knowing exactly where a utility is positioned in three dimensions, the designer can accurately determine the extent of a utility conflict or can often make small adjustments in elevations or horizontal locations and avoid the need to relocate utilities. Additional information such as utility material, condition, size, indications of possible soil contamination, and paving thickness also assists the designer and utility owner in their decisions. QL A information (in the form of test hole logs), when included in the project bid documents, may yield more favorable bids due to reduced Contractor's uncertainty about subsurface conditions.

Complete SUE Investigations help maintain a construction project on schedule and within budget.

Before a SUE Consultant shows up onsite, theoretically they have a set of preliminary construction plans for the work to be undertaken. These plans can show Quality Level D (QL D), Atlases, "As-Builts", Record Drawings, for the existing utility information. This information supplants the Quality Level C (QL C) topographic features, i. e., connecting the topographic features.

Next, a Quality Level B (QL B) investigation is performed by the SUE Consultant (requests from engineering performing the design development) by designating the various utilities & surveying the utility markings to produce x & y coordinates. Next, that info is produced in a CAD file to be used by the designers/engineers as to where the test holes need to be performed. This is called Quality Level A (QL A) to get the depth (z coordinate) of the utility that might conflict with the proposed construction. This utility information will assist the engineers performing design development and the client's representatives performing more effective utility coordination.

Utility coordination typically includes these tasks: utility conflict identification; meeting set-up and management between design consultants, utility owners, and permit agencies; determination of prior rights; sequencing of utility construction; relocation routing; relocation design; salvage value; utility plans and estimates review and approvals; determine and securing required utility easements/temp construction easements; scheduling; writing special provisions; agreement development; securing policy exceptions; developing design alternatives/costs/time versus utility relocation; performing municipal water and sewer design, etc. Note: this is a non-comprehensive list.

Lack of proper utility information during the planning/design development may lead to work stoppages and/or claims to the Client during the construction phase.

Not widely known/shared in the AEC industry: the budget for a Complete SUE Investigation. The industry standard is 0.5% to 2% of the construction value. Let us break this down further: Assume 0.5% to 1% for rural projects & 1% to 2% for urban projects. These numbers are for budgeting purposes and might have to be doubled given the individual nature of each/every project.

(continued on page **11**)

The Importance of Complete SUE Investigations

(continued from page **10**)

Let us encourage our fellow AEC Professionals/Clients/Utility Owners that a **Complete SUE Investigation**, QL B (which will likely contain QL C & QL D depictions), and QL A test holes, if needed, be performed as part of the engineering plans that are advertised for bid or negotiated for bid and shared with the applicable utility owners. We feel that utility identification at this stage of planning/design development phase helps to prevent utility damages and service disruptions to the utility companies. With this process, the utility locators responding to the excavation tickets during the construction phase will have the best available information to ensure that what they identify on the ground is the same as what's shown on the final construction plans. If not, then Contactor is not to proceed until a resolution has been agreed to by the various stakeholders. This proposed method will not eliminate risk but can go a long way to minimize the risks in a risky/dangerous business.

What happens if a Complete SUE Investigation is not performed? The Contractor files a claim for delay & the cost of the delay might be more than the Consultant's fee. Nonetheless for the Consultant, there's the potential loss of goodwill/reputation with the Client.

You might remember the old oil Fram commercial: "You can pay me more now or you can pay me more later". Our additional words/thoughts: "Either way, you are going to pay more!" The question that the Consultant/Client needs to ask themselves: Which dollars are cheaper: today's or tomorrow's?

***Steve Rienks**, PE is the Director of Engineering/Senior Project Manager at American Surveying & Engineering with 35+ years of experience in preparing preliminary engineering studies, final construction documents, and construction supervision for transportation, highway, and site improvement projects.*

***Brian Castro**, PE is a Project Manager and Office Quality Manager at Michael Baker International with approximately 10 years of experience in plan preparation, preliminary engineering studies, construction management, program management, utility coordination and quality management.*

ASCE 2021 Report Card for America's Infrastructure – February 2021

(continued from page **6**)

with the new grades to arm the Administration, Congress, and stakeholders with the new information and ASCE's recommendations to raise the grades.

All Illinois Section members should actively participate in sharing the 2021 Report Card. The first step is to become an ASCE Key Contact by emailing keycontact@asce.org. A Key Contact is a self-identified ASCE member who is interested in public policy. After the 2021 Report Card for America's Infrastructure grades are released, Key Contacts will receive supplemental training and information sharing opportunities. After these trainings, we will encourage Key Contacts to look for opportunities to share the new grades with elected officials and at the state and local level, as well as stakeholders and new audiences.

All Illinois Section members should actively participate in sharing the 2021 Report Card. The first step is to become an ASCE Key Contact by emailing keycontact@asce.org

Email Keycontact@asce.org to take the first step toward sharing the 2021 Report Card today.

***Darren Olson**, PE, CFM, D.WRE is a Vice President / Assistant Department Head of Water Resources at Christopher B. Burke Engineering, Lt*

MWRD Watershed Management Ordinance Revisions

(continued from page 3)

The key element to this ordinance language change is to promote development or redevelopment of desirable

MWRD is attempting to balance stormwater management and economic revitalization needs in the South Suburbs

land while allowing for off-site detention and retention on lands of lower value without having to prove technical infeasibility. Granted, there are requirements in place to safeguard adjoining landowners from drainage problems, but MWRD is implementing this pilot study until January 1, 2025.

At the MWRD TAC meetings the example provided was the expansion of an existing manufacturing facility. The facility did not have room to expand the building foot print and reasonably accommodate the increase in detention volume necessary. Instead of having to move to a new location the WMO amendment would allow the facility to expand, preserve the existing detention in place, and find a nearby site to accommodate the additional volume.

MWRD wants to help communities reduce the burden of stormwater management impacts to the communities they serve. This not only includes the redevelopment and economic vitality that can bring to a community or neighborhood, but they also need to protect homes and business from the dangers and damages of flooding. The intention is to advertise the availability of this WMO modification in these two watersheds and promote developments to implement these provisions to better understand how this modified Ordinance language affects the economic vitality of these regions.

Will the results prove to be beneficial to the regions within these watersheds? If this pilot project is successful will it be implemented in other watersheds? Will anyone utilize the language and submit permit applications?

These questions can only be answered by getting the word out to the communities in these watersheds, especially the economic development directors, the development community, including the land development engineers, and local businesses and manufacturing facilities that are looking to expand, and getting projects designed, permitted, and built under these new provisions. 2025 may seem like a long period of time, but in the economic scheme of these south suburban communities they have been struggling to revitalize their economic drivers for decades.

Please learn about the WMO pilot provisions in these watersheds and spread the word to help MWRD make meaningful decisions about the WMO in the future.

***Graig Neville**, PE, CFM, CPESC has 30 years of varied civil engineering experience in transportation, land development, and floodplain and stormwater management.*

Illinois Section Activities

ASCE IL Section Construction Institute – Cancelled
Date: Thursday, June 18
Underwater Bridge Inspection/Imaging and Special Inspection Access

ASCE IL Section Award Submissions Due
Date: Friday, July 17
Information on award requirements, nomination forms, and complete nomination instructions can be found on our website www.isasce.org/awards.

ASCE IL Section Diversity and Inclusion (D&I) Committee Scholarship Fundraising Event – Top Golf
Date: Thursday, August 6

To inform Illinois Section members of the discussions at monthly Board meetings, the Section Secretary contributes this article to the newsletter. Any questions or comments on the Board activities are welcome by contacting Andrew Walton at awalton@orionengineersllc.com.

■ *Treasurer's Report*

▲ A treasurer's report was presented at the March, April and May 2020 meetings (*April and May meetings were held via teleconference only due to COVID-19 response*). All reports were approved.

■ *Highlights from Illinois Section Activities and Group Reports.*

▲ ***ASCE Legends Program*** – The Illinois Section held the inaugural 'ASCE Legends' program event at UIC's Engineering Research Facility (UIC ERF) on Thursday 2/27/2020, where approximately fifteen (15) 'Legends' and fifteen (15) students & faculty members attended to connect and discuss the ASCE Legends program. The mission of the 'ASCE Legends' program is to connect ASCE life members and retired civil engineers with students interested in learning from and engaging with them. For more information, please contact UIC student and ASCE Legends program initiator Michelle Calcagno at ascellegends@uic.edu or Membership Committee Chair Matt Huffman at mhuffman@cbbel.com.

▲ ***ASCE Legislative Fly-In & OPAL Awards*** – The 2020 ASCE National Legislative Fly-in was **CANCELLED** this year due to the COVID-19 response. The ASCE Outstanding Projects and Leaders (OPAL) Awards Gala was still held on Friday 3/13/2020, where Dr. Raymond J. Krizek, Ph. D, P.E. (Illinois Section member) was awarded the OPAL Education award for his demonstrated excellence in furthering civil engineering education and Mr. Sergio A. Pecori, P.E. (Central Illinois Section member) received the OPAL Management award for his exceptional management skills. For more information, please see https://www.asce.org/opal/.

▲ ***IS-ASCE Scholarships & President-Elect Dinner*** – The 2020 IS-ASCE Student Scholarship & President-Elect Dinner was **CANCELLED** this year due to the COVID-19 response; however, twelve (12) scholarships were still awarded to students from UIC, IIT, and NU, including a newly created $1,000 'Student Leadership & Involvement' scholarship. The scholarship is for an undergraduate or graduate student in an active leadership role in their ASCE student chapter with a strong interest in continued ASCE involvement upon graduation. For more information, please see the article included in this Newsletter or contact Scholarship Chair Tom Janicke at tjanicke@benesch.com.

▲ ***IS-ASCE LinkedIn Page*** – IS-ASCE members are encouraged to please visit and follow the official IS-ASCE LinkedIn page: '***Illinois Section ASCE***'.

▲ ***ASCE Region 3 Assembly*** – The ASCE Region 3 Assembly that was to be held this year in Cleveland, OH from Friday 7/24/2020 thru Saturday 7/25/2020 has been rescheduled for July 2021.

▲ ***ASCE National Convention*** – The 2020 ASCE National Convention will be held this year in Anaheim, CA from Wednesday 10/28/2020 thru Saturday 10/31/2020 at the Disneyland Hotel. The ASCE Convention is ASCE's flagship membership event and is the single annual opportunity that the entire Society is represented together. For more information about the ASCE National Convention, please refer to the following webpage: https://www.asceconvention.org/

▲ ***Construction Institute (CI)*** – The Illinois Section's Construction Institute (CI) joint dinner event with SEI on Chicago's Bascule Bridges that was scheduled for Wednesday 3/18/2020 was **CANCELLED** due to the COVID-19 response. For more information or if interested in joining this institute, please contact CI Chair Zach Pucel at zjpucel@transystems.com.

▲ ***Environmental & Water Resources Institute (EWRI)*** – The EWRI and IS-ASCE Sustainability Committee co-hosted one-day 'Envision' virtual instructor-led training on Friday 5/29/2020 was cancelled due to low registration numbers and will be postponed until the fall.

Please contact EWRI Chair Jeana Gowin with any questions or for inform ation about EWRI activities at jgowin@cbbel.com.

(continued on page **14**)

News & Secretary Report

(continued from page 13)

▲ ***Geo-Institute (GI)*** – Please contact GI Chair Alex Barlan with any questions or for information about GI activities at asceilgeotech@gmail.com.

▲ ***Structural Engineering Institute (SEI)*** – Please contact SEI Chair Justin Pattison with any questions or for information about SEI activities at jmpattison@transystems.com.

▲ ***Transportation & Development Institute (T&DI)*** – All T&DI events have been postponed until the statewide shelter-in-place order has been lifted. Please contact T&DI Chair Robert Brzezon with any questions or for more information at robert.brzezon@mbakerintl.com.

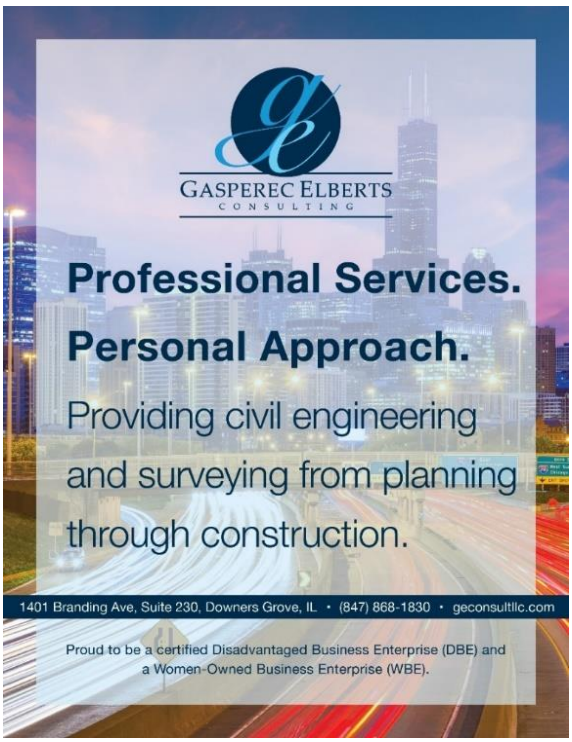
▲ ***Urban Planning & Development Group (UP&D)*** – Please contact UP&D Amar Farooqi with any questions or if you're interested in joining this group at afarooqi@gsg-consultants.com.

▲ ***ASCE Younger Member Group (YMG)*** – Most YMG events have been cancelled or postponed due to the COVID-19 response; however, the ASCE YMG participated in a lunch webinar on 'Sustainability: The Infrastructure Challenge Prioritization' and 'Virtual Trivia' events during the month of May. For more information about YMG activities or if interested in joining this group, please contact YMG Chair Anirudha Vasudevan at anirudha.vasudevan@aecom.com or YMG Vice-Chair Ben Ostermann at Benjamin.Ostermann@jacobs.com.

▲ ***'Envision' Sustainability Virtual Instructor-Led Training*** – The IS-ASCE Sustainability Committee and EWRI co-hosted one-day 'Envision' virtual instructor-led training on Friday 5/29/2020 was cancelled due to low registration number and will be postponed until the fall. Please contact IS-ASCE Sustainability Committee Chair Kirsten Mawhinney with any questions or for more information at kirsten.mawhinney@aecom.com.

The Illinois Section Board Meetings are held the first Monday of the month, except for holidays. The next board meeting is scheduled for June 4, 2020 and will be held via teleconference only due to the ongoing COVID-19 pandemic. If you are interested in attending these meetings, please contact President Megan McDonald at megan.mcdonald@clarkdietz.com.

By Andrew Walton, PE
ASCE IL Section Secretary 2018-2020
awalton@orionengineersllc.com



President's Notes

(continued from page 2)

I understand there is a lot of insecurity and concern over what is happening right now; however, I call on our community and our members to make sure that we are living up to Canon 8. I challenge our entire Section to ensure that we are serving our communities, providing equitable services and infrastructure throughout our Section and our cities. I call on this Section to affirm that we do not tolerate racism or injustice and to stand up, speak out, and take action against those that do.

I, as I always have been, am proud of our Section, and I am exceptionally proud of our Student Outreach and Diversity & Inclusion Committees for their work. Join us while we continue to explore how we, as a Section, can continue to make and support change in our communities. We are all in this together, we will all be together when the pandemic is over, and we will need to work together to change our future. Until then, please keep reaching out to your friends, family, coworkers, and make sure you keep the social connection even while being physically distant. Finally, as always, wash your hands.