

ASCE

American Society
of Civil Engineers



INSIDE:

President's
Notes
2

Elgin O'Hare-West
ByPass Study
9

New Officers for
2008-2009
10

Section Activities
12

News &
Secretary
Report
15

INSERT:

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ASCE Illinois Section

News

Vol. 49, No. 9
November 2008

Award Winners Highlight 92nd Annual Dinner Meeting

CITIZEN ENGINEER OF THE YEAR

Michael T. Ungeran, P.E.



Michael T. Ungeran is a regional manager/regional engineer for StormTrap overseeing the company's west coast operations. He graduated with a Bachelor of Science in Civil Engineering

degree from Purdue University in 1996. He passed his PE exam in the fall of 2005. He is a member of the Order of the Engineer.

Mr. Ungeran has over twelve years of experience in the engineering community. While in college he worked with the Illinois Department of Transportation and the West Lafayette Zoning and Planning Commission. After graduation he has practiced site design and development for Ruettiger, Tonelli and Associates, Haeger Engineering, Ltd and Manhard Consulting, Ltd practicing site design and development. With his current position at StormTrap he is focused on storm water management. Mr. Ungeran contributed to projects featured in Engineering News-Record,

Public Works Magazine and CE News. He also contributed to the project that was awarded ASCE Illinois Section's "Outstanding Civil Engineering Achievement of the Year" (Under \$5 Million – 2002)

Mr. Ungeran is very active within the community. In his spare time he teaches algebra at a local college, coaches hockey for a youth league, volunteers with the Salvation Army and has been very active within local political circles.

Mr. Ungeran joined ASCE while attending Purdue University and has been a member ever since. He has served as the Chair, Vice Chair, Treasurer and Secretary of the Urban Planning and Development Group. He is currently serving as one of ASCE's two representatives to the statewide committee to update the "Standard Specifications for Water and Sewer Main Construction in Illinois" and is the Chair of the Storm Sewer Task Force which reports to that committee. He served as a Director from 2005-2007 to the ASCE Illinois Section and Mr. Ungeran currently serves as the Director of Public/Political Affairs where he planned and initiated their first annual legislative day this past February.

(continued on page 4)

President's Notes

Robert Gorski, PE, M. ASCE



It is my honor and privilege to become this year's President of the Illinois Section. I would like to recognize all of the award winners from this year's 92nd Annual Dinner and also those individuals who took the time to nominate a colleague or project. I would like to thank the hard work done by the Annual

Dinner Committee led by President Elect Chris King, and also the Awards Committee, led by Director Emilie Giraudon. By the look at the size of the crowd and by the impressiveness of the space I can easily say job well done and you have the sincere appreciation of the Section and the over 400 folks that attended. The dedication and support of these volunteers, along with the tremendous support of our many sponsors and large participation of our three student chapters within the Section also reflect the great value of your membership. Lastly I would like to recognize President Whitlock for her extraordinary year of service to the Section and who I look forward to working with in the coming year in her role as Past President.

I would like to describe what are the top three key issues that, as President, I plan on engaging in conjunction with an exceptional incoming Board, and

energetic Technical and Committee Chairs:

Local Government Relations.

The Illinois Section took an important first step this past year in engaging policy makers by hosting a visit to Springfield. At this event on February 20th, 22 members met with their legislatures and discussed the importance of infrastructure to our State by presenting the ASCE National Report Card and offering a working understanding of this important topic. Under the continued leadership of Mike Ungeran, we look forward to our 2009 visit to Springfield with our colleagues across the State.

Illinois Infrastructure Report Card.

Under the leadership of Secretary Bill Cussen and Past President Abdul Khan, the Section has made steady progress toward creating a Report Card for the State of Illinois. Through

ASCE Illinois Section News

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the persistent hard work of the category chairs, the Section plans to release the grades near the March 25, 2009 date when ASCE National releases their update. The Section anticipates releasing the report in Chicago and Springfield to help build on the relationships started during last years visit with the General Assembly. The section is working with the Central Illinois and Quad City Sections to ensure that these grades accurately reflect the entire State and serve as a powerful tool for our policy makers.

Engaging Young Students.

Lastly I plan to reengage the "Education Committee" to reach out to young elementary school students and promote careers in Civil

Engineering. As a newly elected Local School Council Member at Newton Bateman Elementary School in Chicago, I will be looking to use Section resources to foster a relationship that encourages studies of math and sciences. Already the school has entered a team to compete in the Future Cities Competition. This group will build on the success of the Minority Affairs Committee with sending high school students to Engineering Camp at Notre Dame. The growing need of Civil Engineers has been recognized by the Governor of State of Illinois who has just created a scholarship program worth \$7,000 a year as an incentive to pursue careers in the profession.

On behalf of the incoming Board I look forward to serving our 3,278 members and I promise to work as hard as I can to provide value to your membership and continue the great legacy of the Illinois Section.

On behalf of the incoming Board I look forward to serving our 3,278 members and I promise to work as hard as I can to provide value to your membership and continue the great legacy of the Illinois Section.



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Award Winners Highlight Annual Dinner Meeting

(continued from page 1)

YOUNG GOVERNMENT CIVIL ENGINEER OF THE YEAR

John Sadler, P.E.



John Sadler, P.E. is a lifelong resident of the City of Chicago born and raised in the Norwood Park neighborhood on the City's north-west side. After

graduating with a B.S. in Civil Engineering from Marquette University, John began his career as a Resident Engineer/Design Engineer for Kudrna & Associates in 1995. Two years later John joined the Chicago Department of Transportation's Bureau of Highways. John served as the Resident Engineer for the Joe DiMaggio Piazza, a signature streetscape project located in the City's Little Italy Neighborhood. His involvement in the project included a design role, construction management and coordination with local residents including the Italian American Sports Hall of Fame.

As Project Manager for Chicago's Landscaped Median Program, John developed criteria for the design, construction, and maintenance of landscape medians. He managed the design and construction of over 30 miles of landscape medians counting those on Ashland Avenue, North Avenue, Stony Island Avenue, 35th Street, and 79th Street. John's management style was to include the residents and business owners in the beautification of their neighborhoods. As such, he coordinated with community groups to improve City owned land parcels at street intersections and in pocket parks as part of the Landscape Triangle Program. In addition, he served as Project Manager for the reconstruction of McFetridge Drive following the renovation of Soldier Field.

John is currently a Coordinating Engineer I for the Chicago Department of Transportation, Division of Engineering. As the Program Manager for Traffic Signal Capital Improvements, John has managed the design, budget, and construction for new signals, traffic signals modernizations, and signal interconnect projects. He has completed improvements at over 300 intersections and is currently overseeing 400 more in the design phase. John will further utilize his expertise in civil, traffic and construction management disciplines as CDOT's project manager for such major projects as the Damen/Elston/Fullerton Intersection Improvement and the Bus Rapid Transit Corridor Project.

While his many accomplishments as government civil engineer are satisfying, John is most proud of his three sons, William, Henry, and Benjamin who he is raising with his wife Mecca in the same Norwood Park neighborhood of his own youth.

GOVERNMENT CIVIL ENGINEER OF THE YEAR

Diane M. O'Keefe, P.E.



Ms. O'Keefe has worked with the Illinois Department of Transportation for 27 years. She graduated with a Bachelor of Science in Civil Engineering from Michigan Technological University. The first 14 years of her career were in construction where she worked as a resident engineer and construction supervisor overseeing transportation improvement projects. She then went on to work as Bureau Chief of Design and Engineer of Program Development, overseeing the preliminary engineering functions of project design, plan preparation, and right of way acquisition.

Ms. O'Keefe went on to become the District Engineer in District three where she oversaw all elements of the state highway transportation system for an eleven county area in North Central Illinois. On June 1, 2004, Ms. O'Keefe was promoted to Regional Engineer for District One and currently oversees the state highway system in the six county Chicago Metropolitan area. Ms. O'Keefe is a registered Professional Engineer in Illinois and a member of the Illinois Association of Highway Engineers, WTS, and APWA. She is a former recipient of the ASCE Young Government Civil Engineer of the Year Award, IDOT's Outstanding Service Award, IDOT's Award of Merit for Professional Excellence, and the 2008 APWA Chicago Chapter award for Top Ten Public Works Leader of the Year.

YOUNG CIVIL ENGINEER OF THE YEAR

Brent Kunz, P.E., S.E.



Brent Kunz, PE, SE, is a Structural Engineer at Bowman, Barrett & Associates Inc., specializing in bridge design. Mr. Kunz's contributions to

Chicagoland infrastructure have been remarkable. At 33, Kunz has designed bridges on nearly every major expressway in the area, including the Tri-State Tollway, Veteran's Memorial Tollway, Moline Expressway, Ronald Reagan Memorial Tollway, Dan Ryan Expressway, Bishop Ford Expressway, Kennedy Expressway, Stevenson Expressway, and the Chicago Skyway. Mr. Kunz earned his BSCE and MSCE degrees from the University of Illinois and is registered as a Professional Engineer and a Structural Engineer in Illinois.

Kunz specializes in Value Engineering Change Proposals and the Design/Build method of delivery, requiring fast-track designs and very close interface with bridge contractors and owners. Kunz's very diverse bridge design capabilities and experience have included structures over roadway, railroads and water.

Kunz is a member of good standing of American Society of Civil Engineers (ASCE), American Council of Engineering Companies of Illinois (ACEC-IL), and the Precast/Prestressed Concrete Institute (PCI).

Notable projects have included:

I-90/94 Dan Ryan Expressway Reconstruction—Chicago, IL

I-355 DesPlaines River Valley Bridge—Lemont, IL

Wadsworth Road over I-94 Tri-State Tollway—Lake County, IL

I-88 Ronald Reagan Memorial Expressway over the Fox River—Aurora, IL

Chicago Skyway at 106th Street Viaduct—Chicago, IL

CIVIL ENGINEER OF THE YEAR

Muthiah Kasi, P.E., S.E., C.V.S.



Muthiah Kasi realized he had a passion for civil engineering when he was in the 7th grade. After receiving his Bachelor of Science from PSA College

of Technology in Coimbatore, India, he came to the United States and received a Master of Science in Civil Engineering from Michigan State University.

Mr. Kasi joined Alfred Benesch & Company (Benesch) in 1969 and is

still with the firm. He is currently Chairman of the Board and Chief Operating Officer. Mr. Kasi is a Licensed Professional in 5 states, a Licensed Structural Engineer in Illinois and a Certified Value Specialist (Life) by SAVE International.

As a structural engineer, Mr. Kasi has designed major river bridges such as I-255 over the Mississippi River, south of St. Louis, and IL 23 over the Illinois River in Ottawa, IL. He also developed the concept for dual inclined modified tied-arch bridges that carry I-94 over US 24, just west of Detroit. Kasi has also designed several high-rise buildings, including 175 North Harbor Drive, 1555 North Astor and Buckingham Place.

One of Mr. Kasi's more interesting assignments at Benesch came during his third year with the firm. He performed a "hands-on" inspection of the masonry cladding on the Standard Oil (Aon) Building. Kasi spent three months on the window washing scaffold going up and down the building façade.

Mr. Kasi has practiced Value Engineering since 1976. Through his efforts, Benesch was the first consulting engineering firm to receive the SAVE International Excellence in Value Engineering Award in 1989. Recognized for his outstanding work in value engineering, Kasi was awarded the Richard B. DeMars Award for Outstanding Application Value Engineering Techniques by SAVE International for his paper on a value engineering study he conducted on the STH 16 Bypass in Watertown, WI.

Mr. Kasi has further established his reputation through a dedication to sharing his knowledge. He regularly conducts SAVE certified Module I Workshops and Module II Seminars both internally at Benesch and

externally for clients. In addition, he teaches structural engineering design as an Adjunct Professor at the University of Illinois, Chicago. He has also developed value engineering courses for the University of Wisconsin, Madison and the University of Illinois, Urbana-Champaign.

Mr. Kasi has also been active in the American Society for Testing and Materials (ASTM). His efforts were recognized with the Initial first prize award in the 2007 ASTM International Advantage Award paper competition. Kasi's winning paper, "Managing Transportation Projects with ASTM International Standards," described how five standards originally developed by ASTM Committee E06 on Performance of Building are also beneficial for use when planning and managing major transportation projects. The award included a check for \$25,000, which Kasi has used as seed money for a charitable foundation.

PUBLIC INVOLVEMENT Environmental Engineering and Water Resources Technical Group



The Environmental Engineering and Water Resources (EE&WR) Technical Group of the Illinois Section focuses on providing high quality courses and seminars for their members and other professionals in environmental and water

(continued on page 6)

Award Winners Highlight Annual Dinner Meeting

(continued from page 5)

resources engineering in the region. EE&WR typically sponsors, or co-sponsors four to six seminars per year. In the past, these have included multi-day beginning and advanced computer training courses for HEC-RAS, HEC-HMS, FEQ, SWMM, and HSPF as well as regulatory information seminars focusing on Risk Based Corrective Action, floodplain regulations, permitting, levees, and many more. The proceeds from the courses and seminars EE&WR organizes are used to sponsor college scholarships and grants to local ASCE Student Chapters and other area students and engineering associations. EE&WR has monthly planning meetings in Chicago that are attended regularly by 10 to 15 members to plan their courses and social activities.

This year EE&WR has taken a strong initiative to reach out to students and also involve the various ASCE technical groups to work together and make a bigger impact. Two key events organized or initiated by EE&WR include a Career Panel at the University of Illinois Chicago and a student outreach event which provided an introduction of all the ASCE IL Section Technical Groups to students from the Illinois Institute of Technology, University of Illinois Chicago, and Northwestern University.

OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT OF THE YEAR AWARD – UNDER \$5 MILLION Lincoln Mall Subsurface Remediation

Working in partnership with the owner Realty America Group (Lincoln Mall), LP and property manager/developer, Freehold Capital Advisors, Ltd.,

V3 Companies provided environmental remediation services related to soil contamination resulting from a former automotive service facility located within the Lincoln Mall redevelopment.

The remediation plan addressed extensive unsafe benzene concentrations in soils that pose vapor inhalation exposure risks. Site remediation was accomplished by the installation of a 1.8-acre subsurface geomembrane (engineered barrier). The unique and innovative aspect of the remediation was the placement of the geomembrane (vapor barrier) at a depth of 7 feet below grade, rather than relying on traditional engineered barriers. This was the first geomembrane application of its nature proposed and approved by Illinois Environmental Protection Agency. The owner's goals of delivering building sites to future end users that would allow future construction of facilities, underground utilities and site infrastructure to occur above (and without disturbing) the barrier, while minimizing on-going maintenance concerns, were achieved by the deep subsurface placement of the geomembrane.

Care in planning, communication and decision-making between the owner, property manager, Village of Matteson, and V3's Environmental, Construction Management, Land Development and Survey team members were critical in the proper execution and success of this remediation.



OUTSTANDING CIVIL ENGINEERING ACHIEVEMENT OF THE YEAR AWARD – OVER \$5 MILLION I-355 South Extension of Veterans Memorial Tollway



The Illinois Tollway completed construction of the 12.5-mile I-355 South Extension, including the 1.3-mile Des Plaines River Valley Bridge, in late 2007. The \$720 million I-355 South Extension serves as a connection between I-55 and I-80 and has increased north-south mobility through Will County. The extension has reduced travel times and provides a more direct route between residences and job areas benefiting the entire Chicagoland area. The roadway includes six interchanges and electronic tolling at the mainline toll plaza. The Tollway, with the assistance of Will County, local elected officials, environmental resource and regulatory agencies, worked tirelessly to secure necessary approvals and build the 12.5-mile extension of I-355. The expanded project goals required a new level of coordination, communication and education. V3 Companies and HNTB Corporation managed design and construction of the corridor, which included overseeing 18 construction contracts and 11 design contracts. As a result of this efficient construction and design-management structure, the new roadway was completed on time and within budget.

RECOGNITION OF MERIT FOR DESIGN INNOVATION

North Avenue Bridge Reconstruction over the Chicago River



The Chicago Department of Transportation proudly opened the newly reconstructed bridge over the North Branch of the Chicago River at North Avenue to traffic on Thursday, December 20, 2007. The bridge was officially dedicated in a ceremony that was held on Friday, May 23rd of this year. The ceremony was the culmination of a multi-year planning, design and construction effort and was attended by Mayor Richard M. Daley, Senator Dick Durbin and Congressman Danny Davis, as well as local business leaders, dignitaries and agency representatives.

Situated at the turning basin in the Chicago River at the north point of Goose Island, the bridge is a gateway to the bustling North Avenue/Clybourn Corridor. The new bridge is a 3 span, 4 lane, 252-ft., cable-stayed/self anchored suspension cable hybrid. It is a relatively unique structural system that provides an open, light and elegant structure with the appropriate scale and proportions.

The reconstruction of the North Avenue Bridge over the Chicago River involved the removal of an inoperable bascule bridge dating from 1907 and the construction of a wider fixed span at the same location. A unique structural system was employed to provide an

aesthetic solution for a site with various geometric and clearance constraints. The bridge consists of a 252-ft main span and two 84-ft back spans. The middle portion of the main span is supported by suspension cables and hangers, while the remainder of the main span and both back spans are supported by cable stays arranged in a semi-harped configuration. A self anchored suspension system is utilized. A heavy concrete block is utilized at each abutment to resist the vertical component of the suspension cable force. The horizontal force component from the suspension system is balanced by the deck compression.

One of the ultimate goals in the design of the structure was to achieve harmony with the surroundings. While a typical cable-stayed bridge will require a pylon height of over 69 ft., this was deemed to be too high for this location due to aesthetic considerations. The use of a hybrid structural system reduced the pylon height to 44-ft., thereby achieving a tower height-to-span ration of 0.17.

Each pylon is composed of a steel box that houses the stay anchors, which is then supported by a pair of elliptical steel tubes. The tubes are braced at deck level to provide increased pylon stability and to improve the flexural stiffness of the pylon in the longitudinal direction. A steel saddle (10-ft. radius) was placed on top of the stay housing to support the suspension cables. Galvanized structural strands are used for the suspension cable and hangers, while pre-stressing steel strands are used for the cable stays. The cable stays are directly anchored at the pylons.

The superstructure is comprised of a 10-in. thick concrete deck and a pair of longitudinal stiffening girders. For greater durability, High Performance Concrete (HPC) with longitudinal post-tensioning is used for the deck and the stiffening girders. The deck and stiffen-

ing girders are supported by transverse steel box beams spaced at 21-ft. centers, which act compositely with the deck.

The site constraints and very unique structure type necessitated innovative solutions to the construction and staging. North Avenue at this location is a 33,000 ADT major arterial. The maintenance of traffic was of the utmost importance. A temporary run around bridge was constructed to maintain uninterrupted traffic through the duration of construction. The structure consisted of approach spans composed of steel pile bents with steel stringers and a timber deck. The center span was an Acrow 130-ft. span steel bridge rented for the project. Keeping the main river channel open to navigation with the requisite horizontal and vertical clearances necessitated casting the center span off-site on barges, floating it in, and lifting it into the final position. The center span deck was reinforced with temporary construction post-tensioning to accommodate this operation. Other unique solutions included; incremental pre-tensioning of the back span main suspension cables, an improvised temperature tolerant overlay system, and multiple iterations of the structural finite element models with the requisite stay and hanger loads and stressing sequences to accommodate changes in the construction staging.

The project is a credit to the Illinois Section ASCE members whose collaborative efforts made it possible.

PROJECT TEAM

Owner:

The City of Chicago
Richard M. Daley, Mayor

Managing Agency:

The Chicago Department of
Transportation
Thomas G. Byrne, Commissioner

(continued on page 14)



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A Fresh Start for the Illinois Department of Transportation's Elgin O'Hare-West Bypass Study

By Lisa J. Sagami PE, CH2M Hill Inc.

The Illinois Department of Transportation (IDOT)'s Elgin O'Hare West Bypass (EO-WB) Phase I Study is a large scale transportation infrastructure project. It is among the first major projects implementing IDOT's recently adopted Context Sensitive Solution (CSS) policies and procedures and it is one of the Department's first Tiered Environmental Impact Statement.

The EO-WB study is taking a fresh look at current transportation issues and concerns to relieve congestion and improve access in the area. The alternatives development process will consider a full range of multi modal transportation improvement strategies leading to the selection of a set of roadway, transit services, other modal improvements and TSM/TDM improvements. The aim is to develop a consensus for the selection on a Preferred System of Improvements that will be based on technical analysis, environmental constraints, and stakeholder input.

A Major Context Sensitive Solution Project for IDOT

The EO-WB is among IDOT's first major projects implementing its Context Sensitive Solution Policies and Procedures. The intent is to move beyond the typical "public involvement" approach and advance an integrated workshop-based approach to problem solving and decision-making that builds community consensus and involvement by creating a new collaborative partnership with stakeholder groups.

The CSS process allows stakeholders who are defined as 'anyone who could be affected by the project and has a stake in its outcome' with the tools and information required to effectively participate and influence the process with their perspective and concerns on the issues. This approach elevates their understanding of the basic components of the process including the alternative development, the NEPA process, transportation planning and design guidelines and the relationship between transportation issues (needs) and project alternatives such that they can participate at a higher level of knowledge and understanding.

For the EO-WB study, IDOT's CSS approach is seeking effective, multi-modal transportation solutions by working with stakeholders to develop, build and maintain cost effective transportation facilities which fit into and reflect the project's surroundings, its "context". This is being accomplished through early, frequent and meaningful communication with stakeholders and a flexible and creative approach to design.

One of the First Tiered Environmental Impact Statements for IDOT

The EO-WB study is also one of IDOT's first projects implementing a Tiered Environmental Impact Statement. Tiering is a procedure for addressing the National Environmental Policy Act ("NEPA") process in two separate stages, referred to as Tiers. Tiering simply breaks down the decision making process into steps to allow the agency and the public to determine with certainty the level of effect early on so that only the necessary level of environmental analysis is performed in Tier 2.

(continued on page 13)



New Illinois Section Officers for 2008–2009

By Kay Whitlock, PE, M.ASCE, D.WRE

The following individuals were sworn into their new responsibilities as Illinois Section Officers and Directors at the Section's 92nd Annual Dinner Meeting on October 21, 2008. We welcome them to their new leadership roles.

Robert Gorski, PE, M. ASCE Section President

Robert Gorski is the new President for the Illinois Section. Mr. Gorski joined HDR Engineering in March 2005 as a Project Manager. He has over 12 years of experience in transportation engineering and construction, and is a registered professional engineer in Illinois, Michigan and Pennsylvania. He holds a Bachelor of Science degree in Civil Engineering from Michigan State University. Mr. Gorski's background includes all phases from preliminary engineering, development of plans, specifications and estimates for both roadway and transit projects, site-civil and construction.

Bob has been involved with ASCE since 1992 and the Section since 1998. He most recently served as President Elect after a two-year term on the Illinois Section Board as a Director. He is the past chair of the Transportation Group. He has served as Golf Outing Chair, Annual Dinner Chair, Annual Conference Fund Raising Committee, Communications Chair and editor of the Illinois Section Newsletter. Bob and his wife, Therese, live in Chicago with their daughter Quinn and son Charlie.

We welcome them to their new leadership roles.

Christopher King, PE, SE, M.ASCE President-Elect

Christopher J. King holds a BS Degree in Civil Engineering from the University of Illinois and has completed graduate school coursework towards a Master's in Civil Engineering and Project Management. He joined Robinson Engineering (RE) in 1982 as a municipal engineer and became President in 2000. He is a devoted professional, well respected by peers, employees, and clients, and committed to public service and the well-being of communities. As President, Mr. King manages daily operations, directs the corporate mission, employee relations and retention, and innovative and advanced benefits structure. A dedicated leader, Mr. King places a high value on training and mentoring with a sincere personal approach, spearheading internal team building initiatives. Along with his executive duties, Mr. King continues to serve as a municipal engineer and project principal.

Fully dedicated to the field of Civil Engineering and education, Mr. King is a licensed professional engineer in four states (Illinois, Indiana, Michigan, and Arizona), a licensed Structural Engineer in Illinois, and active in numerous professional organizations. He has served as Director (2005-2007) and Secretary of the Illinois Section, and is an active member of ISPE, IAFSM, and AASHTO.

Darren Olson, PE, CFM, CPESC, M.ASCE

Treasurer

Darren Olson is a Professional Engineer with over ten years of experience in water resources at Christopher B. Burke Engineering, Ltd. Darren received his BS and MS in Civil Engineering from the University of Illinois in Urbana-Champaign. He has a MBA from Northwestern's Kellogg Graduate School of Management. His responsibilities include engineering studies and proposals involving floodplain mapping, watershed studies, floodplain/floodway delineation studies and permitting, river hydraulic analyses, stormwater management studies and permitting, flood control project feasibility, design studies, and engineering review.

Mr. Olson has been actively involved with the Illinois Section of ASCE, starting with the Environmental Engineering and Water Resources Technical Group and eventually as a Director on the Illinois Section Board. He has been Treasurer for the past year. For the prior 3 years he served as the Chair of the Communications Committee, which produces the monthly newsletter and member emails. Earlier, he served as the Chair of the Awards Committee. In 2004, Darren was awarded the Illinois Section Young Civil Engineer of the Year Award. Darren and his wife Amy live in Chicago with their daughter Alessia.

William Cussen, PE, M.ASCE

Secretary

William J. Cussen is a Senior Project Manager with Haeger Engineering LLC in Schaumburg. He received a Bachelor of Science degree in Civil Engineering from the University of Illinois at Chicago in 1993. His is a registered professional engineer in Illinois and twelve other states.

Mr. Cussen has over fifteen years of experience in land development projects throughout the Chicago metropolitan area. He provides planning, design, and construction-phase services for infrastructure and site improvements for both public and private sector projects. His private sector project experience includes residential, industrial, commercial and institutional projects.

Mr. Cussen has been a member of ASCE since 1998. His past appointments including serving as Director (2006-2008), Chair, Vice Chair, and Treasurer of the Urban Planning and Development Group. Currently, he is also serving as Co-Chair of the Section's Infrastructure Report Card development effort.

Thera Baldauf, PE, CFM, M.ASCE

Director to 2010

Ms. Baldauf is a Senior Civil Engineer with MWH, joining the Chicago office in April 2008. Ms. Baldauf received her Bachelor of Science Degree in Civil Engineering from Marquette University in 2001. She is a registered Professional Engineer

and Certified Floodplain Manager in the State of Illinois. Ms. Baldauf has over 7 years of experience in the water resources field. She has been responsible for various water resource related projects such as; watershed management, stormwater management studies, and local and regional drainage studies in the Chicago metropolitan area.

Ms. Baldauf has been a member of ASCE since 2001. Her past appointments include Chair, Vice Chair, and Treasurer of EE&WR Technical Group. She has remained active in EE&WR by assisting with the planning and coordination of the Group's seminars and for the past several years has volunteered as a mentor in the Section's Future Cities program. She is currently serving as Co-Chair of the Illinois Section Annual Awards Committee.

Patrick Lach, PE, M.ASCE

Director to 2010

Patrick Lach is a Senior Water Resources Engineer with Hey & Associates where he is involved in development of solutions for water resource-related problems. His responsibilities include specific focus on watershed analysis and stormwater engineering and planning. He is a 2001 graduate of the University of Notre Dame.

Patrick has been active in the Illinois Section in a number of roles. In addition to serving as an ASCE judge for the Future Cities competition on a

number of occasions he has served the Section as the Chair of the EE&WR Technical Group (2006) and as a member of the 2007 Awards Committee. Patrick is currently responsible for maintaining the EE&WR website.

Bryan Luke, PE, M.ASCE

Director to 2010

Bryan Luke is a Project Manager at Christopher B. Burke Engineering, Ltd., where he has worked for the past four years. With over 12 years of experience in transportation engineering and construction, Bryan has worked on project including expressways, tollways, city and county roads, streetscapes, bike paths, and stream bank stabilization. He primarily oversees preliminary engineering and design engineering roadway projects for municipal clients. Before graduating from the University of Illinois at Urbana-Champaign, he was part of the student chapter of ASCE, co-op'd with ICOT and studied abroad.

Bryan has been active with ASCE Illinois Section since 2004. His past responsibilities include Chair, Secretary, and Scholarship Chair of the Transportation Group.

ASCE Board Members who will continue their service to the Board during 2008-2009 include Kay Whitlock (Past President), Lou Arrigoni (Director to 2009), Krishna Reddy (Director to 2009), and Dupal Vimawala (Director to 2009). **ASCE**

Structural Group

Monthly Dinner Meeting

Speaker: Justin L. Weisberg, Attorney at Law
– Arnstein & Lehr LLP

Topic: Stress and Strain from a Legal Perspective—A Discussion of Engineering Liability, Coverage and Exposure

Date: Wednesday, November 5

Time: 5:30 pm

Place: Pazzo's
311 S. Wacker Dr.
Chicago, IL 60606

Cost: \$40 (\$25 for Students)—RSVP
on or before October 31, 2008
\$45—without/late RSVP

RSVP: Victor E. Van Santen,
victor.vansanten@hdrinc.com
or 773-380-7966

Transportation Group

Executive Committee

Date: Tuesday, November 11

Time: 5:30 pm

Place: CH2M Hill
8501 W. Higgins, Suite 300
Chicago, IL

RSVP: Srikanth Panguluri at
Srikanth.Panguluri@CH2M.com
or 773-693-3809

Luncheon Program

Speaker: Stephen Little—Chicago Transit Authority

Topic: Bus Rapid Transit Program

Date: Thursday, November 13

Time: 11:30 am

Place: Maggiano's
516 N. Clark St.
Chicago, IL

RSVP: [Jonathan Tam at TamJ@teng.com](mailto:Jonathan.Tam@tamj@teng.com)
or 312-616-6153

Geotechnical Group

Monthly Dinner Meeting

Speaker: Jean Bogner, PhD

Topic: Garbage and Global Change
(with focus on landfill gas recovery)

Date: Wednesday, November 12

Time: 5:30 pm

Place: Costa's
340 S. Halsted, Chicago, IL 60661

RSVP: Gary Goodheart at
goodhgar@hotmail.com
or 630-605-8504

Urban Planning & Development Group

Monthly Group Meeting

Date: Thursday, November 13

Time: 6:00 pm

Place: Chandler's Chophouse
401 N. Roselle Rd.
Schaumburg, IL 60194

ASCE Illinois Section/Chicago Metropolitan Planning Council/New York Regional Plan Association/Illinois Humanities Council

Liquid Assets: A film premiere, discussion, and reception

Topic: The 2008 documentary *Liquid Assets* explores the history, engineering, and political and economic challenges of our public and private water systems, and engages communities in local discussion about drinking water, wastewater, and stormwater infrastructure issues.

Details: A reception will begin at 7:00 pm and the film (90 minutes) will start promptly at 8:00 pm. A facilitated discussion will follow, and then coffee and dessert will be available. There is no fee for the film premiere, but you must register online at www.metroplanning.org/calendar.asp

Date: Monday, November 17

Time: 7:00 pm to 10:30 pm

Place: Gene Siskel Film Center
164 N. State St., Chicago, IL

Environmental Engineering & Water Resources Group

Monthly Group Meeting

Date: Tuesday, November 11

Time: 5:30 pm

Place: MWH
175 W. Jackson Blvd., Suite 1900
(use elevator banks on Van Buren side of building)
Chicago, IL 60604

Younger Member Group

Monthly Dinner Meeting

Info: Joseph Petrich will present on the Qurayyah Project, a 15 unit simple cycle gas turbine (GT) power plant being constructed on the eastern coast of Saudi Arabia. This is a unique project both in terms of the scope of the civil/structural work, physical design challenges, and the global nature of the job. The presentation will share solutions used to overcome the unique aspects. It will also exhibit the 3-D modeling used extensively to ensure smooth construction between the numerous parties involved, facilitate construction with no interference or field re-work, and maintained once it is operational.

Date: Wednesday, November 19

Time: 5:30 pm

Place: Sargent and Lundy
55 E. Monroe
Chicago, IL

RSVP: By November 14th to
Jason Faulkner at
Jason.C.Faulkner@sargentlundy.com

Elgin O'Hare-West ByPass Study

(continued from page 9)

Younger Member Group/ Transportation Group

Toys-For-Tots Holiday Party

Info: Your admission to the YMG/TG Holiday party is a new unwrapped gift for Toys-For-Tots. The brewery has free parking, bus line and Red Line access. Food Provided. Cash Bar.

Date: Tuesday, December 9

Time: 5:30 pm to 9:30 pm

Place: Goose Island Brewery
1800 N. Clybourn
Chicago, IL

RSVP: James Reisert at
james.reisert@strand.com

The aim is of the Tiered EIS for the EO-WB study is to reduce the cost, complexity and the amount of time needed to complete the NEPA process. So how does it work? During Tier 1 the public, stakeholders and agencies are focusing on broad environmental and societal issues which may correlate directly to early planning decisions, such as type, the general location, and major design features of a project. The level of detail during Tier 1 will be sufficient for the selection of a preferred solution and will identify independent components that can be advanced to Tier 2.

Following the completion of Tier 1, specific System Build Alternative alignments and technologies (with

associated facilities) will be developed and analyzed in subsequent NEPA environmental documents (Tier 2). In Tier 2, the environmental analysis will address a narrower geographic area and a more focused set of engineering and environmental issues. It will rely on the summary of the work in the Tier 1 document, thereby avoiding unnecessary repetition (Tier 1 work included by reference) and develops additional details commonly available in later stages of project planning such as design, construction, and operation of the proposed project. **ASCE**

MARK YOUR CALENDAR

THE ASCE ILLINOIS SECTION - STRUCTURAL GROUP

18TH BIENNIAL LECTURE SERIES AT THE HAROLD WASHINGTON LIBRARY

Session 1 - Wednesday, March 4, 2009

DESIGN INNOVATIONS IN MAJOR STRUCTURES

Ruchu Hsu – Parsons Brinckerhoff, Inc.
Tarek Ayoubi – Walter P. Moore and Associates, Inc.

Session 2 - Wednesday, March 18, 2009

MAINTENANCE AND MONITORING OF BRIDGE STRUCTURES

Dan Burke – Chicago Department of Transportation
Sarah Wilson – Illinois Department of Transportation
Ray Hartle – Baker Engineering, Inc.

Session 3 - Wednesday, April 1, 2009

EXPECTING THE UNEXPECTED: SEISMIC AND DISASTER RESISTANT STRUCTURES

Dr. Fadel Alameddine – California Department of
Transportation
Dr. Anatol Longinow – Illinois Institute of Technology

Session 4 - Wednesday, April 8, 2009

DEEP FOUNDATIONS

Bill Walton – AECOM
Dr. Michael Wysocky – Thatcher Engineering Corp.

The lecture series will be presented in four evening sessions, each featuring two lectures consisting of nationally recognized speakers and a panel of local professionals practicing in the subject specialty. Additionally, each session will yield 2.5 PDHs for a total of 10 PDHs. Early registration will begin in January of 2009. Additional information, registration forms, and sponsorship opportunities will be provided in upcoming newsletters.

Award Winners Highlight Annual Dinner Meeting

(continued from page 7)

Designer:

HNTB Corporation, Chicago

Project Architect:

Muller and Muller Architects,
Chicago

Construction Engineer:

URS Corporation, Chicago

General Contractor:

James McHugh Construction
Company

Fabricator:

BendTec Inc., Duluth, Minn.

RECOGNITION OF OUTSTANDING ACHIEVEMENT

Engineers without Borders
Chicagoland Professional
Chapter



Engineers Without Borders - Chicagoland Professional Chapter (EWB-CPC) is a non-profit humanitarian organization established to partner with developing communities worldwide in order to improve their quality of life. This partnership involves the implementation of sustainable engineering projects, while involving and mentoring internationally responsible engineers and engineering students. If you are interested in getting involved in one of EWB-CPC's projects in Guatemala, Togo, Mexico, Nigeria, and Mali or want to just learn more about the organization, you can attend the

monthly chapter meetings. These are held on the last Tuesday of every month (6:00-7:30 PM) at University of Illinois Chicago's (UIC) Engineering Research Facility, Room 1042 at 842 W. Taylor St. Non-members are welcome and encouraged to attend. You can also visit us at ewb-chicago.org

RECOGNITION OF EXCELLENCE IN ENGINEERING ACHIEVEMENT

Clyde Baker, P.E., S.E.



Mr. Baker received his BS and MS degrees in Civil Engineering from Massachusetts Institute of Technology and joined the staff of STS Consultants, Ltd. (formerly

Soil Testing Services) in the fall of 1954. Over the past 50 years he has served as the geotechnical engineer on the major portion of high rise construction built in Chicago during that time frame. He has also served as geotechnical engineer or consultant on seven of the sixteen tallest buildings in the world including the three tallest in Chicago (Sears, Hancock, and Amoco) and the current three tallest buildings in the world, the Petronas Towers in Kuala Lumpur, Malaysia and 101 Financial Center in Taipei, Taiwan.

As a result of his experience, Mr. Baker has developed an international reputation in the design and construction of deep foundations. He has been a leader in using in-situ testing techniques correlated with past building performance to develop more efficient foundation designs. In the Chicago soil profile this has facilitated

economical use of belled caissons on hard pan for major structures in the 60 to 70 story height range (such as Water Tower Place, 900 North Michigan, and AT&T) which normally would have required extending caissons to rock at significant cost premium.

Mr. Baker has shared his knowledge and experience with his peers through numerous Conference and University lectures, technical articles, papers and publications. He is the recipient of the Deep Foundation's Institute Distinguished Service Award, the ADSC Outstanding Service Award, ASCE's Thomas A. Middlebrooks and Martin S. Kapp awards and of three Meritorious Publication Awards from SEAIO including the "History of Chicago Building Foundations 1948 to 1998" and is the author of "The Drilled Shaft Inspectors' Manual" sponsored jointly by the Deep Foundation Institute and the International Association of Foundation Drilling (ADSC).

Mr. Baker has been very active professionally on both the local and national scene. He is an Honorary Member of ASCE. He is a past President of SEAIO and the Chicago Chapter of ISPE. Nationally he has served as Chairman of the Geotechnical Engineering Division of ASCE and is a past Editor of the Geotechnical Engineering Journal and is a Past Chairman of ACI Committee 336 on Footings, Mats and Drilled Piers. He is a member of the National Academy of Engineering and was the recipient of the ASCE Ralph B. Peck Award for the year 2000.

Mr. Baker is a past Chairman of STS Consultants, Ltd., a 550 person consulting engineering firm, headquartered in Vernon Hills, Illinois and currently serves as Senior Principal Engineer and Senior Vice President. **ASCE**

Illinois Section News & Secretary Report

O C T O B E R 2 0 0 8

In an effort to inform Illinois Section members of the discussions at the monthly Board meetings, the Section Secretary contributes this monthly article to the newsletter. Any questions or comments on the Board activities are welcome by contacting Chris King, at cking@reltd.com

■ Treasurer's Report

▲ Treasurer Olson distributed the Treasurer's Monthly Report and Income Statement. The 2008/2009 chapter budget was approved.

■ Group Report

▲ All Groups presented a written report outlining previous and current month's activities.

■ New Business

▲ **Chicago Builds 2016:** An overview of Chicago Build 2016 was discussed. The purpose of the committee is to create a framework in the industry for infrastructure needs that will arise with Chicago's success in the bid for the 2106 Olympics. Two committees seem appropriate for ASCE representation, the first Permits and Regulations, and the second Transportation and Infrastructure. The section will place acting directors on these committees.

▲ **Future City:** Matt Miller was present to discuss ASCE support for the 2009 future city competition that takes place around Engineer's Week. Special awards will be provided and they are looking for our membership to supply judges. The section approved a financial contribution of \$1000. Please contact us if interested.

▲ **Destination/Imagination:** A discussion was held on this program and it was moved to forward on to the Minority Affairs Committee and the Younger Members Group. They will be looking for judges to assist in the program.

■ Old Business

▲ **Liquid Assets:** The program is creating a movie and will be bringing to Chicago. ASCE National volun-

teered our section to coordinate. A sponsorship of \$2,500 was approved and we will also request a copy of the movie. Bob Gorski, President Elect and Joe Johnson, Past President volunteered to take the lead. For information, see the website at <http://liquidassets.psu.edu/>

Liquid assets will also be available in form of a cocktail hour at the Annual Dinner. Hope all enjoyed the evening!

▲ The next board meeting is scheduled for Monday, November 3, 2008, 5:30pm at MWH Americas, Inc., 175 West Jackson Blvd, 19th Floor.

By Christopher J. King, PE, SE, Secretary
cking@reltd.com



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November 5 Structural Group – Monthly Dinner Meeting

November 11 Environmental Engineering & Water Resources
Group – Monthly Group Meeting

November 11 Transportation Group – Executive Committee

November 12 Geotechnical Group – Monthly Dinner Meeting

November 13 Urban Planning & Development Group –
Monthly Dinner Meeting

November 13 Transportation Group – Luncheon Program

November 17 Liquid Assets – A film premiere, discussion,
and reception

November 19 Younger Member Group – Monthly Dinner Meeting

PLEASE VISIT ISASCE.ORG FOR MORE
INFORMATION REGARDING ILLINOIS SECTION
ACTIVITIES AND EVENTS

LEED / SUSTAINABLE DEVELOPMENT SEMINAR

Hosted By
The American Society of Civil Engineers Illinois Section
Urban Planning & Development Group

When: Thursday, December 11, 2008

Registration/Continental Breakfast begins at 7:45 a.m.
Morning Program
Lunch Included
Afternoon Program
Program Ends by 3:30 p.m.

7.0 Professional Development Hours will be awarded to all attendees

Where: Schaumburg Golf Club
401 N. Roselle Road
Schaumburg, IL 60194
(847) 885-9000

Tentatively scheduled are speakers from:

US Green Building Council
Congress for the New Urbanism
Cowhey Gudmundson Leder

City of Chicago
KJWW Engineering
Leopardo Construction

Legat Architects

The seminar will explain the fundamentals of LEED, explore the benefits of sustainable and energy efficient designs, and explain the costs for implementing sustainable strategies. Case studies of LEED projects will be presented. Understand how governmental agencies are approaching and encouraging sustainable design.

Space is limited, so please register early. The registration fee for this seminar is \$190 per person. Registration needs to be received by Monday December 1, 2008. Please fill out the registration form below and mail with check payable to "ASCE IL Section - UPDG".

For further information, contact Mike MacKinnon at 630-328-1111 or via email at mike.mackinnon@ryancompanies.com.

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LEED / Sustainable Development Seminar – Thursday, December 11, 2008

Name: _____

Mail Check and completed form to:

Company: _____

Attn: Mike MacKinnon
Ryan Companies US, Inc.
55 Shuman Boulevard, Suite 800
Naperville, IL 60563

Address: _____

City/State/Zip: _____

Phone: _____ E-mail: _____

Sponsorships are available at the Certified (\$100), Silver (\$250), Gold (\$500), and Platinum levels. Contact Mike MacKinnon at 630-328-1111 for additional details.