



2014 MINNESOTA CONCRETE COUNCIL AWARDS & ANNUAL REPORT



STRUCTURAL DESIGN MERIT

INDUSTRIAL/AGRICULTURAL

PAVEMENTS

TRANSPORTATION
INFRASTRUCTURE

ARCHITECTURAL FLOORING
OR HARDSCAPE



FROM OUR MEMBERS



Dean Stroschein
Trade Superintendent
(Specializing in
Placement of Concrete)
Knutson Construction

Why would you recommend MCC to others? People don't know what they're missing. MCC has a

tradition at its breakfast meetings that all attendees stand up and introduce themselves and tell everyone what they do. When you see the players in that room, you realize how important it is to be there. If you're in this industry, you need contacts and resources. And they're all in that room!



Tony Polusny
Principal
Meyer Borgman Johnson

Why would you recommend MCC to others? I believe it is extremely important to understand a topic or industry from a larger perspective than your field

of expertise. Awareness and understanding of the bigger picture both technically and personally, or politically, will make you better in your career and thereby more successful in your work place environment. MCC not only provides this unique opportunity to learn about the industry through these perspectives, but more importantly, it will help you establish the personal connections to the industry leaders and influencers that truly care about the community of MCC for which you will be a part of. Being a part of MCC will improve your value and your company's value to its clients.



Megan Koch
Petrographer
American Engineering
Testing, Inc.

What have you gained from your involvement?

My involvement with MCC has gained me increased knowledge of the industry. I've built friendships and have become more outgoing. *Why would you recommend MCC to others?* My involvement with MCC helps me connect with people and learn what goes on in the industry outside of my scope of work.

ABOUT MCC

The Minnesota Concrete Council (MCC) is a non-profit organization that was founded in 1989. MCC is dedicated to advancing education, technical practice, scientific investigation and research into cast-in-place construction by organizing the efforts of its members for a non-profit public service. MCC's membership base represents design, construction and support industries associated with reinforced and post-tensioned concrete construction.

MCC was created to bring proven methods and new ideas together, and to educate its members on how to improve the quality and use of concrete in our structures, and to educate decision-makers on the benefits of quality concrete construction. MCC's first educational meeting in 1989 consisted of about 20 people. Currently, MCC's continuing education monthly breakfast meetings provide quality education and networking opportunities to 125 or more industry professionals each month.

MCC is governed by a Board of Directors that is elected annually by voting members of the council. (Each corporate member may designate up to three voting members and each individual member is granted one vote.) Directors serve two year terms. MCC's board oversees the activities of committees and delegates the responsibility of the day-to-day operation of the council to MCC's Administrator, Margaret Mills.

MCC hosts two major social events each year (a golf outing and a sporting clay shoot), holds numerous monthly education-based breakfast meetings, conducts research and sponsors an awards program that recognizes excellence in cast-in-place concrete construction. MCC invests in the future of the industry by funding scholarships for engineering students and concrete finisher and laborer apprentices. MCC provides vital networking opportunities for industry leaders.

For additional information about MCC, contact the MCC office at 651-482-9549 or visit www.mnconcretecouncil.com.



Margaret Mills

ABOUT MCC'S ADMINISTRATOR

Margaret Mills began working for MCC on a contract basis in May, 2009. Margaret is responsible for overseeing the day-to-day operations of MCC including bookkeeping, event planning, communications, and supporting the board of directors and committees.

Margaret is a native of Belle Plaine, Minnesota and a 1992 graduate of Buena Vista University where she earned a Bachelor of Arts degree in English and Speech Communication. She worked in residential real estate in Seattle right out of college and then later as the Program Director of the Piqua Area Chamber of Commerce in Piqua, Ohio. After relocating back to Minnesota, she was employed by the Aggregate & Ready Mix Association of Minnesota and the Minnesota Concrete Masonry Association. In addition to her contract with MCC, Margaret also currently provides support on a contract basis to PCA North Central, PCI Midwest and others.

CONTACT MCC

Minnesota Concrete Council
PO Box 116
Rosemount, MN 55068
www.mnconcretecouncil.com • 651-482-9549 (office)

Margaret Mills, Administrator
margaret@mnconcretecouncil.com • 651-423-4737 (direct)



FROM THE PRESIDENT



It has been a tremendous privilege to serve as President of the Minnesota Concrete Council in 2014. It still amazes me that MCC is one of the few groups in the country that has successfully appealed to designers, contractors, subcontractors, suppliers, and testing companies alike. With the hard work of the Board of Directors, Committee Chairs and members, our

affiliation with the National Ready Mix Concrete Association (NRMCA), and the continued support of the Portland Cement Association (PCA), the Minnesota Concrete Council has become a prominent organization nationwide!

In many ways, this was a year of tremendous growth of the organization. In 2014 there was a dedicated group of individuals on the membership committee that made a concerted effort to attract new members to the organization. I am very pleased to say that we added five new sponsors and 23 new members to an already strong and healthy organization in 2014. This surge of new members accounted for a 20.5% increase in membership dollars over 2013 and a 27.75% increase since 2009. To continue to be successful as an organization we need to engage and appeal to new and younger members in the multi-disciplines that we serve. We look to double our efforts in 2015 and ask for your help in supporting this great organization by inviting new people to attend our education programs and our social events.

The educational program has always been the backbone of MCC's strength and value to its members. In 2014 alone, nearly 1,100 people attended MCC breakfast meetings and symposiums. That's an 81.8% increase in attendance in one year! Average attendance over the past five years has been about 77 people per meeting. In 2014 we averaged 120 people per meeting. The biggest draw in attendance was for the May breakfast meeting where Kim Basham presented "Avoiding Surface Defects on Exterior Slabs." In 2015, MCC has a great slate of education programs available and will be hosting a cement plant tour in early May.

I look forward to passing the gavel to Mike Ward who will be the 2015 President. We look forward to our roles in furthering the educational and promotional reach of the MCC, another exceptional year of breakfast meetings, the completion of the most recent research project and the ongoing work of the Owners Circle.

Sincerely,
Joshua J. Edwards, P.E.
2014 MCC President
AVR, Inc. & Affiliates

MCC LEADERS

[Companies listed were current during term and may have changed in subsequent years]

MCC Past Presidents

1989-90: Dave Pace, Cemstone Products Company
1991: Ed Johnson, Jesco
1991-92: Terry Swor, American Engineering Testing, Inc.
1993: Jim Paquin, CECO Corporation
1994: Tom Downs, BKBM, Inc.
1995: Pat Kinsel, Cemstone Products Company
1996: Daniel Kelly, Rochester Ready Mix Company
1997: Roger Oberg, BKBM, Inc.
1998: Mark Bintzler, Aggregate Industries, Inc.
1999: Michael Ramerth, Meyer, Borgman, & Johnson
2000: Bruce Wallace, Tioga, Inc.
2001: Kevin MacDonald, Cemstone Products Company
2002: Richard Dufresne, Walker Parking Consultants
2003: Michael Johnson, McGough Companies
2004: Gerard Moulzolf, American Petrographic Services
2005: Anthony Polusny, Meyer, Borgman & Johnson
2006: Tom Dykhoff, Adolfson & Peterson
2007: Amy Trygestad, Portland Cement Association
2008: Dean Stroschein, Knutson Construction Services
2009: Bill Frazier, AVR Inc. & Affiliates
2010: Terry Babcock, Construction Midwest, Inc.
2010-11: Dave Meyer, Lafarge Cement
2012: Keith Jacobson, VAA, LLC
2013: Jeff Coleman, The Coleman Law Firm, LLC
2014: Josh Edwards, AVR Inc. & Affiliates
2015: Mike Ward, Cemstone Products Company

MCC Past Treasurers

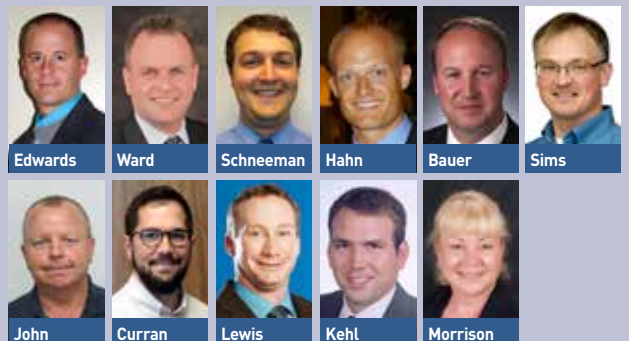
Ed Curtiss, Knutson Construction Services
Ken Peterson, HGA

2014 Outgoing Board Members

Roger Johnson, Lehigh Cement
Randy McCullum, Aggregate Industries
Dave Meyer, Lafarge

2014 Board of Directors

President: Mike Ward, Cemstone Products Company
Vice-President: Greg Bauer, CPAM
Treasurer: Carl Schneeman, Walker Parking Consultants
Assistant Treasurer: Gary Hahn, Walker Parking Consultants
Past President: Josh Edwards, AVR, Inc. & Affiliates
Directors: Murphy Curran, Meyer Borgman Johnson; Bill John, TK Products; Chris Kehl, Braun Intertec; John Lewis, Knutson Construction; Willy Morrison, American Engineering Testing; Pat Sims, Graham Construction



2014 MCC AWARDS PROGRAM

ARCHITECTURAL FLOORING OR HARDSCAPE

1ST
PLACE



Target Station Plaza. With thousands of people passing through the Target Station Plaza each day, this project will be a constant concrete showpiece that complements the station, ballpark, Minneapolis Farmers Market and the surrounding area.

Project Team Members: *Owner:* Hennepin County *Architect of Record:* Perkins Eastman *Engineer of Record:* Palanisami & Associates *General Contractor:* Knutson Construction *Concrete Supplier:* AVR, Inc. & Affiliates

OTHER ENTRIES



Minnesota State Fair West End Entry and Market. The new 5,100-cubic yard cast-in-place project at the Minnesota State Fair West End Market includes a history and heritage center; transit hub, west end gate and streetcar arch; and amphitheater which was completed on August 16, 2014.

Project Team Members: *Owner:* Minnesota State Fair *Architect of Record:* Cuninghame Group Architecture, Inc. *Engineer of Record:* Reigstad & Associates *General Contractor and Concrete Subcontractor:* McGough Construction *Concrete Supplier:* Cemstone Products Company *Additional Participants:* Anderson Engineering & Surveying



University of Northwestern Sports Complex. The University of Northwestern Sports Complex project consisted of new football, baseball, softball, tennis and locker room facilities connected by Spirit Plaza, an open concrete area for fans to gather, University activities, and tailgating.

Project Team Members: *Owner:* University of Northwestern *Architect of Record:* Perkins + Will *Engineer of Record:* Pierce Pini + Associates, Inc. *Concrete Supplier:* Cemstone Products Company *Plaza Concrete Subcontractor:* Curb Masters, Inc. *Additional Participants:* Wells Concrete

STRUCTURAL DESIGN MERIT

1ST
PLACE



Northrop Auditorium Renovation. Northrop Memorial Auditorium is a keystone on the University of Minnesota Twin Cities campus and often described as the second most recognizable building in the state. Today after a \$75M complete interior renovation, Northrop has been restored to its status as an icon at the University, being made useful again through new interior spaces designed to house advanced learning programs, study and public spaces, and a new world class performance auditorium.

Project Team Members: *Owner:* University of Minnesota *Architect of Record:* HGA Architects and Engineers *Engineer of Record:* Meyer Borgman Johnson *General Contractor and Concrete Subcontractor:* J.E. Dunn Construction *Concrete Suppliers:* AVR, Inc. & Affiliates and Cemstone Products Company *Concrete Subcontractor:* Kelleher Construction, Inc. *Additional Participants:* Braun Intertec, Ceco Concrete Construction, Rebarfab, Bald Eagle Erectors

OTHER ENTRIES



The Nic on Fifth. The first high-rise luxury apartment development in downtown Minneapolis in nearly three decades, the 26-story The Nic on Fifth embodies Opus' commitment to making downtown a desirable destination for commerce, residents and visitors.

Project Team Members: *Owner:* The Opus Group *Architect and Engineer of Record:* Opus AE Group LLC *General Contractor:* Opus Construction *Concrete Supplier:* AVR, Inc. & Affiliates



Wayzata Bay Center. The Wayzata Bay Center Development is located in Downtown Wayzata and will consist of five pile supported Post-Tensioned (PT) midrise concrete structures and pile supported PT interior roadways.

Project Team Members: *Owner:* Senior Housing Partners *Architect of Record:* Insite Architects *Engineer of Record:* Ericksen Roed & Associates, Inc. *General Contractor:* Adolfsen & Peterson Construction *Concrete Supplier (Buildings):* Cemstone Products Company *Concrete Supplier (Roadways):* AVR, Inc. & Affiliates *Additional Participant:* LHB, Inc.

PAVEMENTS

1ST
PLACE



Riverview Drive Reclamation. Pavement reclamation of local streets due to poor condition and sub-base failure. The design provided concrete pavement as a bid alternative to bituminous.

Project Team Members: *Owner:* City of Northfield *Engineer of Record:* Short Elliot Hendrickson Inc. *Concrete Supplier:* Cemstone Products Company *Subcontractor:* Doyle Conner Co.

OTHER ENTRIES



Cleveland Church of Christ. Half of this 55,000 SF parking lot was paved with concrete in 2008-2009. In 2013 after considering all pavement options the Church of Christ paved the remaining 35,000 SF with concrete.

Project Team Members: *Owner:* Cleveland Church of Christ *General Contractor and Concrete Subcontractor:* Tom Oak Concrete & Masonry Inc. *Concrete Supplier:* G & H Ready Mix LLC



McDonalds Modernization. The McDonalds in Prior Lake, MN was recently upgraded with a new facade, pavement and double drive thru lanes to meet the new modern corporate standards and meet growing customer base. Concrete pavement was selected in the original design for the drive thru lanes but not the parking surface area. However, the project team decided to consider concrete pavement in order to complete the work during the winter, accelerate the opening of the restaurant and create a bright parking environments for customers.

Project Team Members: *Owner:* Choate & Company *Architect of Record:* Reprise Architecture Inc *Engineer of Record:* Landform Professional Services *General Contractor:* Greiner Construction *Concrete Supplier:* Cemstone Products Company *Concrete Subcontractor:* DayCo Concrete Company

TRANSPORTATION INFRASTRUCTURE

1ST
PLACE



Target Field Station. Opening May 17, 2014, Target Field Station located in Minneapolis' North Loop neighborhood, is a state-of-the-art multi-modal transit station with complementary mixed-used development and year-round activated public space.

Project Team Members: *Owner:* Hennepin County *Architect of Record:* Perkins Eastman *Engineer of Record:* TKDA *Engineer of Record:* Systra Consulting *Engineer of Record:* Palanisami & Associates *General Contractor:* Knutson Construction *Concrete Supplier:* AVR, Inc. & Affiliates

OTHER ENTRIES



610 & Noble Parkway Park & Ride. The facility accommodates bus operations, driver's facilities, and passenger waiting facilities, as well as bike and pedestrian amenities. The south elevation of the ramp consists of a four-tiered solar array.

Project Team Members: *Owner:* Metro Transit *Architect of Record:* Snow Kreilich Architects *Engineer of Record:* Walker Parking Consultants *General Contractor:* Knutson Construction *Concrete Supplier:* AVR, Inc. & Affiliates



Cedar Grove Parking Garage. The two-story parking garage includes 538,000 square feet of cast-in-place parking surface containing 1,530 stalls and was constructed with considerations for an additional level to accommodate future area developments.

Project Team Members: *Owner:* City of Eagan *Architect of Record:* RSP Architects *Engineer of Record:* Walker Parking Consultants/Engineers, Inc. *General Contractor and Concrete Subcontractor:* PCL Construction Services, Inc. *Concrete Supplier:* Cemstone Products Company *Additional Participants:* Best Steel Erectors, Wells Concrete, Amsysco, Inc



TH 101 Retaining Walls. 265 LF of cast-in-place concrete retaining wall with form liner was constructed. The walls varied in heights from 9' to 18'. The project had a total of 430 CY of concrete.

Project Team Members: *Owner:* City of Chanhassen *Engineer of Record:* Kimley-Horn & Associates *General Contractor:* Eureka Construction *Subcontractor:* Rice Lake Construction Group

INDUSTRIAL/AGRICULTURAL

1ST
PLACE



Apple Valley Water Treatment Facility. The Apple Valley Water Treatment Plant Expansion increases the capacity of the plant to 19 million gallons per day. The major additions to the plant included concrete backwash tanks, a 12,000 square foot garage/shop addition, and an 8,000 square foot truck wash bay addition.

Project Team Members: *Owner:* City of Apple Valley *Architect of Record:* Stantec *Engineer of Record:* Short Elliott Hendrickson Inc. *General Contractor:* Magney Construction Inc. *Concrete Supplier:* AVR, Inc. & Affiliates

OTHER ENTRIES



Olympus Surgical Technologies America. Olympus Surgical Technologies America new facility was constructed within a very short time frame. The two-level facility will house research, design, and production operations for innovative surgical technologies—a high-performance building that will serve as an international showpiece.

Project Team Members: *Owner:* Olympus Surgical Products *Architect of Record:* RSP Architects *Engineer of Record:* VAA, LLC *General Contractor:* Ryan Companies US *Concrete Supplier:* AVR, Inc. & Affiliates



SMSC North Water Treatment. The project consisted of constructing a 14,000 square foot addition to the Shakopee MdeWakanton Sioux Community North WTP. The plant will produce 1.5 million gallons of water per day.

Project Team Members: *Owner:* Shakopee MdeWakanton Sioux Community *Architect of Record:* Bolton & Menk, Inc. *General Contractor:* Rice Lake Construction Group *Concrete Supplier:* Cemstone Products Company



Valley Park Business Center. The first stage of a multi-phase project, this building will help transform the area into an industrial and office park. The building features 32-foot clear height, 37 dock doors, two drive-in doors, almost 160 parking stalls, and 6200 cubic yards of concrete.

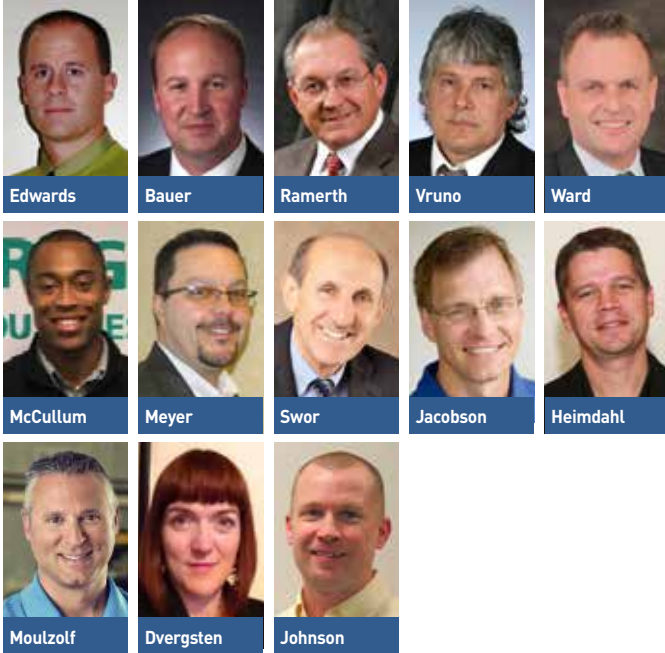
Project Team Members: *Owner:* Opus Group *Architect and Engineer of Record:* Opus AE Group, LLC *General Contractor:* Opus Construction *Concrete Supplier:* AVR, Inc. & Affiliates

MCC COMMITTEES

Committees are the heartbeat of MCC. As with any organization, it takes the commitment and dedication of volunteers to move things from the “talking about it” phase to the “accomplishing it” phase. MCC is fortunate to have member companies who encourage their employees to be actively involved with MCC by giving of their time and talent.

If you'd like to volunteer to be on a committee or have an interest in helping out at any of our events, please contact the MCC office.

MCC COMMITTEE CHAIRS



Membership Committee	Randy McCullum - Aggregate Industries Mike Ward - Cemstone Products Company
Golf Committee	Mike Ward - Cemstone Products Company Mike Johnson - Cemstone Products Company
Big Shoot Committee	Dave Meyer - Lafarge Gerard Moulzolf - American Engineering Testing
Scholarship Committee	Terry Swor - American Engineering Testing
Research Committee	Mike Ramerth - Meyer Borgman Johnson Dan Vruno - American Engineering Testing
Awards Committee	Josh Edwards - AVR, Inc. & Affiliates Keith Jacobson - VAA, LLC
Education Committee	Greg Bauer - CPAM Josh Edwards - AVR, Inc. & Affiliates
Owners Circle	Siobhan Dvergsten Thor Heimdahl - Ericksen Roed & Assoc. Keith Jacobson - VAA, LLC

RESEARCH COMMITTEE UPDATE

Following the winter of 2013-2014, a very high number of complaints were received due to unacceptable surface defects for exterior flatwork placed in 2013. A high percentage of the “call backs” were from late season placements. In response to these issues, the Research Committee designed a study to explore methods which would result in the best chance to succeed during late season placement.

The Minnesota Concrete Council (MCC) Scaling of Late Season Concrete Placements research is continuing as planned. Both the laboratory and field slabs were placed on October 31, 2014. The curing, sealer application was performed per the table below. The deicer exposure is continuing.

The laboratory phase will be completed in mid-February and the field study will conclude on April 27, 2015.

Independent Variables Studied in the Laboratory Phase

Factorial Points	Curing	Sealer	Deicer Exposure
1	4 weeks	8% siloxane	CaCl ₂
2	4 weeks	40 % silane	CaCl ₂
3	4 weeks	None	None
4	4 weeks	None	CaCl ₂
5	2 weeks	8% siloxane	CaCl ₂
6	2 weeks	40 % silane	CaCl ₂
7	2 weeks	None	CaCl ₂
8	2 weeks	None	None
9	3 weeks	8% siloxane	CaCl ₂
10	3 weeks	40 % silane	CaCl ₂

OWNER'S CIRCLE UPDATE

The Owner's Circle, co-chaired by Siobhan Dvergsten, Thor Heimdahl (Erickson Roed & Associates) and Keith Jacobson (VAA, LLC), is a resource within the larger MCC membership group that focuses on the needs of Owners (end-users) and the benefits of utilizing cast-in-place concrete for their built structures and pavements. This group is an assembly of active and engaged owners who have knowledge and experience in selecting and maintaining construction materials for their capital investment projects and who are committed to advancing the knowledge and effectiveness of cast-in-place concrete construction. In 2014, the Owner's Circle focused on establishing a core membership within MCC's existing membership base as well as expanding the group's membership to other engaged owners within the geographic reach of MCC. Attendance at meetings has grown tremendously as word of this unique group spreads.

The Owner's Circle meetings are not open to the general MCC membership unless the MCC member accompanies an Owner (end-user) to the meeting. The Owner's Circle typically meets immediately following the MCC breakfast meetings at Midland Hills Country Club in Roseville. The meetings generally last for 90 minutes. A certificate for one PDH is presented to attendees after the meeting.

ATTENDANCE AT MCC EDUCATION EVENTS SKYROCKETS IN 2014



In 2014, over 1,200 people attended MCC breakfast meetings, symposiums and Owner's Circle meetings. Attendance nearly doubled in a year! Since 2007, over 6,000 people have attended MCC breakfast meetings, symposiums and Owner's Circle meetings. MCC has become well-known across the country for the quality of its continuing education offerings.

In 2014, MCC's membership was offered eight breakfast meetings and one symposium that included a record-breaking crowd of over 250 people at the May breakfast meeting that featured Kim Basham (KB Engineering) who presented "Avoiding Surface Defects on Exterior Concrete Slabs." Other breakfast meeting highlights included a presentation on roller compacted concrete by Phil Kresge (NRMCA) and a very successful presentation by Richard Szecsy (Texas Aggregates and Concrete Association) titled "When Worlds Collide: Project Specifications vs. Sustainable Initiatives." Larry Kaiser, PE (WR Grace) presented "Fiber Technologies in Concrete: Past, Present and Future." Jack Gibbons (Ductilcrete) gave a presentation titled "Reinventing Floor Construction – An Innovative New Way to Construct Floors" and Dr. Kevin MacDonald (Beton Consulting Engineers) presented "Concrete Failure Analysis: What you Don't Know CAN Hurt You." Wrapping up the year were presentations by Joe Daczko (BASF Chemicals) on self-consolidating concrete and by Dr. Larry Sutter (Michigan Tech) titled "Class C & Class F Fly Ash – Comparisons, Applications & Performance." The March symposium featured the 25th anniversary celebration of the founding of MCC with a focus on parking ramps.

MCC continued its partnership with PCA North Central to promote ten Minnesota Concrete Forums across Minnesota. The forums are typically pavement-related and are directed at an audience of City and County engineers as well as MnDOT Staff. The forums have been increasingly well-attended and several are in the works for 2015.

MCC is an AIA continuing education registered provider and also provides PDH certificates for engineers at each of its education meetings. At least 25% of those attending each meeting request continuing education credits.

The co-chairs of MCC's Education Committee are Josh Edwards (AVR, Inc. & Affiliates) and Greg Bauer (CPAM). MCC is grateful for the hard work the committee puts into providing such a great resource to the membership.

MEMBERSHIP COMMITTEE UPDATE

2014 was a very successful year for the Membership Committee! Twenty-two new members joined MCC in 2014 thanks to a very dedicated, focused membership drive. There was a 20.5% increase in dues volume from 2013 to 2014 and a 27.75% increase since 2009.

MCC is also seeing more involvement at events and educational programming. Almost 1,100 people attended MCC breakfast meetings and symposiums in 2014 – an 81% increase over 2013. The annual golf outing sold out in less than four hours and the attendance at the MCC "Big Shoot" sporting clays event has increased by 186% since the first event was held in 2008.

MCC is working at expanding its membership base while at the same time striving to retain its current members by offering timely, pertinent and worthwhile educational and networking events. If you're not a member? Come to one of our breakfast meetings to see what we're all about. If you are a member? Invite others from your company to attend our meetings and events and encourage non-members to attend as well.

2014 MCC EVENTS

MCC GOLF OUTING A HOT COMMODITY!

To the surprise of everyone involved, the 2014 golf outing sold out in a record FOUR HOURS on the day registrations



opened – nearly three months in advance of the event. Golfers enjoyed a beautiful, sunny day on the course on Monday, August 25 at Mendakota Country Club in Mendota Heights. The golf outing, which is a fundraiser for the MCC scholarship program, brought in over \$2,500 for the scholarship fund.

2014 Golf Outing Results:

1st Place (61): Chad Hanson, Mike Lidbom, Jason Hulbert and Mark Severson. *2nd Place (62):* Ron Skaja, Corey Gerads, Greg Ringler and Dane Hatanpa. *3rd Place (63):* Scott Jones, Jeff Hartwig, Greg Johnson and Paul Ackerman. *Closest to the Pin - #4:* Dave Meyer. *Closest to the Pin - #17:* Gordie Roberts. *Longest Putt - #8:* Ryan Schmidt. *Longest Putt - #18:* Dave Larson. *Longest Drive - #1:* Chad Hanson. *Longest Drive - #16:* Randy McCullum



7TH ANNUAL "BIG SHOOT" A SMASHING SUCCESS

The Minnesota Horse & Hunt Club rose from the ashes after a fire destroyed the clubhouse in late 2013. MCC was one of the first groups to utilize the new clubhouse since construction was complete. This was the second year that MCC held the event at the Minnesota Horse & Hunt Club. Attendance was up from prior years and the event netted over \$4,000 for the scholarship fund.



Nearly 100 people were registered to attend the event that was held on Tuesday, September 23. The skill level of the participants ranged from advanced to beginner with some people shooting a gun for the very first time that day. At the end of the event, the top three shooters participated in a "Top Gun" shoot off to determine the champion for the day. Jack Webber (Adolfson & Peterson) went home with "Top Gun" honors for the third straight year.

Join us Thursday, September 24, 2015 for our next "Big Shoot" sporting clays event.



RICHARD STEHLY INDUSTRY ADVANCEMENT AWARD

The Richard Stehly Industry Advancement Award was established in 2010 in honor of the late Dick Stehly. The award is intended to recognize an individual for the advancement of the cast-in-place concrete industry through service and technical expertise.



Richard D. Stehly, P.E., one of the founders of American Engineering Testing, Inc. (AET) and American Petrographic Services, Inc. (APS), passed away suddenly on Saturday evening September 18, 2010. Some individuals are just meant to leave their mark on an industry, a profession or our society, for that matter and Dick did just that. For that reason, the Minnesota Concrete Council renamed its "Industry Advancement Award" the "Richard Stehly Industry Advancement Award" and bestowed it upon Dick Stehly posthumously.



Jack Gibbons has been a tireless advocate for the Minnesota Concrete Council and cast-in-place concrete in general. In addition to his experience in presenting information on structural concrete construction and mix design to engineers, architects, and DOT's, Jack brings extensive concrete construction expertise to MCC – knowledge that is of great value to the entire industry. He was the second recipient of the Richard Stehly Industry Advancement Award, receiving the honor at a ceremony in February, 2013.



Terry Swor was one of the Minnesota Concrete Council's founding members in 1989 and was its third President. Terry has been active with the MCC Board since its inception and has not only filled the role of President, but has been chair of various MCC committees over the years. Even more important, Terry has actively worked at getting the "next generation" involved with MCC. His continual support and involvement in MCC goes beyond what is expected of a member. Terry received the Richard Stehly Industry Advancement Award in February, 2014.

MCC SCHOLARSHIP PROGRAM

The MCC Board of Directors is dedicated to supporting our industry via scholarships. In the past five years, MCC has given nearly \$27,000 to concrete finisher apprentices, laborer apprentices and engineering students as well as to ACI Student Chapters and Concrete Canoe Teams.

In 2014, MCC funded a \$3,500 scholarship to Riley Dvorak, a Civil Engineering student at the University of Minnesota Mankato, through the Minnesota Professional Engineers Foundation. MCC also provided two \$500 scholarships to Justin Waytashek and Jared Ziebarth, concrete finisher apprentices at the Cement Masons Local 633 JATC, and a \$500 scholarship to Nathaniel Lane, a laborer apprentice at the Construction Craft Laborers' Apprenticeship Program. Funding was provided to the ACI Student Chapter

at the University of Minnesota Duluth for participation in competitions at the ACI Conventions in Reno, Nevada and Washington, DC.

In addition to scholarship funds raised at the MCC Annual Golf Outing and the MCC Big Shoot Sporting Clays Event, MCC brought in over \$500 from a bacon raffle and over \$500 from the sale of concrete candle holders. Advance Companies donated \$500 to the scholarship fund in 2014 as well.



2015 MCC BREAKFAST MEETING DETAILS

All MCC breakfast meetings are held at Midland Hills Country Club in Roseville. Cost to attend is \$20 which includes a full, hot breakfast buffet, materials and continuing education credits. MCC members and their guests may register online with a credit card via the MCC website. Or attendees may pay at the door provided they've registered prior to the meeting with the MCC office.

April 16, 2015 – “Concrete Testing & Special Inspections”

Christopher Kehl, PE, LEED AP - Principal and Senior Engineer - Braun Intertec. The inspection and testing of construction activities and the materials used in construction are important elements in obtaining quality construction in general compliance with the contract documents. An agency providing construction inspection, testing, or Special Inspection, must be selected with care after a comprehensive evaluation of their competency to perform the services properly and in compliance with the approved project plans and specifications. This presentation will discuss what is required for special inspections by the building code, the roles of various parties on a project and what can be done to create a successful special inspections program especially as it relates to concrete. This presentation has been approved for 1 AIA LU.

May 21, 2015 - “Concrete Tolerances”

Thomas J. Downs P.E., FACI - President - Forensic Experts. No structure is exactly level, plumb, straight and true. Concrete tolerances are a means of establishing permissible variations in dimension and location, giving both the designer and contractor limits within which the work is to be performed. Concrete tolerances in design and construction are often misunderstood and many times misused, resulting in unnecessary construction costs or unrealistic expectations. This presentation will focus on how to understand and use specified tolerances in the design and construction process.

June 18, 2015 – “A New Test Method to Measure the Freeze Thaw Durability of Fresh Concrete”

Tyler Ley, P.E., Ph. D - Oklahoma State University. This presentation will discuss a new testing apparatus called the Super Air Meter or the SAM. This device was developed by Dr. Tyler Ley and his research team. This device is able to measure the total air volume and volume of small bubbles in the mixture (< 300 microns) in about 10 minutes with fresh concrete. The results from the meter have been shown to correlate to the ASTM C 457 spacing factor. These measurements are useful to predict

the long term freeze thaw resistance of concrete before it has hardened. Dr. Tyler Ley is currently working with the FHWA mobile concrete lab and the group at Turner Fairbanks to verify the meter. There is also a pooled fund project to further investigate the device. This presentation will discuss the theory behind how the test work, its proposed use as well as additional research/testing that need to be done.

September 17, 2015 – “The Rise & Fall of Moisture-Related Flooring Problems with Concrete Floor Slabs”

Peter Craig, FACI, FICRI - Concrete Floor Specialist with Concrete Constructives. Moisture-related problems with flooring materials and coatings installed over concrete floor slabs for years been one of the most serious and costly of construction-related issues, accounting for hundreds of millions of dollars' worth of unanticipated costs each year. Many approaches have been developed to try and mitigate moisture-related slab problems. However, until recently, none of these approaches were able to address and totally mitigate the root cause of the problems. In this program Mr. Craig will take attendees through the evolution of moisture mitigation for concrete slabs and discuss how concrete itself can now be a viable solution to what has always been seen as a concrete problem.

November 19, 2015 – “Engineering Ethics”

Jeff Coleman, P.E., FACI - The Coleman Law Firm. Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers are faced with different situations on daily basis while practicing engineering. This presentation will provide moral and ethical guidance to engineers in their decision making process. Most importantly, it will provide engineers with insight on how to respect and protect their profession with utmost professionalism.

2015 MCC EVENTS

SAVE THE DATE! MCC has a variety of educational, networking and social events scheduled for 2014. Remember, dates, times and locations are subject to change. Registration information and final details are always available on the MCC website. We're always looking for sponsors! All events are held at Midland Hills Country Club unless otherwise noted.

January

14 Board of Directors Meeting
22 Breakfast Meeting
22 Owners Circle

February

12 Board of Directors Meeting
26 Awards Program Annual Meeting and Reception

March

12 Symposium
19 Owners Circle
26 Board of Directors Meeting

April

9 Board of Directors Meeting
16 Breakfast Meeting

May

7 Cement Plant Tour
14 Breakfast Meeting
21 Board of Directors Meeting
21 Owners Circle

June

11 Board of Directors Meeting
18 Breakfast Meeting

July

9 Board of Directors Meeting

August

13 Board of Directors Meeting
24 Golf Outing @ Mendakota Country Club

September

10 Board of Directors Meeting
17 Breakfast Meeting
24 Clay Shoot @ MN Horse & Hunt Club

October

8 Board of Directors Meeting
22 Symposium

November

12 Board of Directors Meeting
19 Breakfast Meeting
20 MCC Awards Program Entry Deadline

December

10 Board of Directors Meeting

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- A full corporate membership and corresponding benefits (see below) (\$375 value)
- one complimentary registration to each monthly breakfast meeting (\$120 value)
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- may identify up to three voting members to represent their company in all MCC elections
- full company/employee listing in the MCC online directory

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- a single vote in all MCC elections
- an individual listing in the MCC online directory

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- are for college and trade school students interested in cast-in-place construction or for those retired from the cast-in-place concrete industry

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