



# 2013 MINNESOTA CONCRETE COUNCIL AWARDS & ANNUAL REPORT



STRUCTURAL DESIGN MERIT

INDUSTRIAL/AGRICULTURAL

ARCHITECTURAL DESIGN MERIT



TRANSPORTATION

MATERIAL DEVELOPMENT &  
INNOVATION

RICHARD STEHLY INDUSTRY  
ACHIEVEMENT AWARD

# RICHARD STEHLY INDUSTRY ADVANCEMENT AWARD BESTOWED ON TERRY SWOR



Terry received his Bachelor of Science degree in geology from the University of Minnesota-Duluth in 1966.

He authored several publications that have advanced the cast-in-place concrete industry through technical expertise. These include:

- Evaluation of Recycled Concrete, Open Graded Aggregate and Large Top-Size Aggregate Base, Transportation Research Board, January 1992
- Analyzing Moisture Problems in Concrete Slabs, John A. Amundson, Brian J. Pashina, and Terrance E. Swor, Concrete Construction, March 1997, p 306-311
- Acceptance Testing Using 4x8 in Cylinders, Rachel Detwiler, Terry Swor and Wendy Thomas Concrete International, Vol.28 No. 1, January 2006

Terry has received many honors in his career including the AEC/MN Tom Roche Award in April 2008. His professional memberships include:

- American Institute of Professional Geologists
- President, Minnesota/Wisconsin State Sections and National Executive Committee
- MN Geotechnical Society
- MN Concrete Council; President, Board of Directors
- American Council of Engineering Companies

Terry Swor was one of the Minnesota Concrete Council's founding members in 1989 and was its third President, taking over the reins of the Presidency after the death of Ed Johnson in 1991. 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 is a founder and principal of American Engineering Testing, Inc., a firm providing consulting services in the geotechnical, environmental, concrete testing, and forensic disciplines. Terry worked alongside Dick Stehly, for whom this award is named, for many years at American Engineering Testing, Inc.



Richard Stehly

Terry has advanced cast-in-place concrete through supporting research presented at many conferences, such as the University of Minnesota, Aggregate & Ready Mix Association of Minnesota, Minnesota Concrete Masonry Contractors Associations, Construction Specification Institute, Minnesota Building Official and Minnesota Concrete Council seminars.

Terry's service and technical expertise in the advancement of the cast-in-place concrete is unsurpassed in our area. It is only fitting for him to be recognized as the third recipient of the Richard Stehly Industry Advancement Award after Dick Stehly himself (2010) and Jack Gibbons (2012). Dick, Terry's founding partner of American Engineering Testing, Inc., would definitely approve.

# FROM THE PRESIDENT



It's hard to believe that my 2013 term as MCC President has come to an end. In many ways, 2013 has been a whirlwind of activity for me personally and with MCC. Reflecting on 2013, I have realized what an amazing year it has been.

Starting in the spring, Minneapolis/St. Paul hosted the American Concrete Institute Spring Convention. MCC played a major role in planning the convention, executing the convention, and was the

only non-ACI industry organization that was permitted to have a table that allowed us to prominently promote MCC.

In November, we received word that the Portland Cement Association had, for the first time in recent history, increased their promotion funding to MCC. Part of this increase was due to the rebound in the construction economy, but more important is the recognition by the cement shippers of the tremendous educational activities undertaken by MCC and MCC's work to promote cast-in-place concrete. MCC continues to partner with the Portland Cement Association to promote Minnesota Concrete Forums across the state.

MCC received an unsolicited invitation to become a National Ready Mixed Concrete Association State Affiliate in November. This partnership will be mutually beneficial to NRMCA and MCC and it is further evidence that MCC has become a prominent organization that is recognized as a successful entity actively promoting cast-in-place concrete, not only in Minnesota, but nationwide. As I travel around the country, I hear that MCC is regarded as an organization that has attracted a unique multi-disciplinary membership in the concrete industry. MCC is one of the few organizations that has successfully appealed to designers, contractors, subcontractors, suppliers and testing companies, bringing together a unique group of industry professionals who cover the spectrum from design to supply to placement to finishing and testing.

One of the most gratifying events during my presidency occurred in December when MCC hosted a gathering of the MCC past presidents. The event was attended by 22 past presidents, a former treasurer, current officers and board members as well as current committee chairs. Remarkably, 100% of the living past presidents were in attendance. What a testament to the commitment of our past leaders! We enjoyed a spirited roundtable discussion about the history of MCC and its future. This event reminded me that my time as President is part of a continuum of incredible leadership.

We have an incredibly strong organization, but a healthy organization continues to focus on the future. To continue to be successful in the future, MCC must: (a) engage and appeal to new and younger members in the multi-disciplines that MCC serves; (b) continue to build momentum with our educational programs, which have become the backbone of MCC's strength and value to its members; (c) continue to build member initiatives, like the Owners Circle; and (d) continue our ongoing focus on our solid financial foundation.

I look forward to passing the gavel to Josh Edwards as the 2014 MCC President. It has been a great honor to serve as your President and I am excited about the future of MCC.

Sincerely,  
Jeffrey W. Coleman, P.E., FACI  
2013 MCC President

## 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, Adolfsen & 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

### MCC Past Treasurers

Ed Curtiss, Knutson Construction Services  
Ken Peterson, HGA

### 2013 Outgoing Board Members

Terry Babcock (Construction Midwest)  
Cary Miller (McGough)  
Dan Vruno (American Engineering Testing)

### 2014 Board of Directors

*President:* Josh Edwards (AVR Inc. & Affiliates)  
*Vice-President:* Mike Ward (Cemstone Products Company)  
*Treasurer:* Carl Schneeman (Walker Parking Consultants)  
*Past President:* Jeff Coleman (The Coleman Law Firm, LLC)  
*Director:* Greg Bauer (Crane Engineering)  
*Director:* Bill John (TK Products)  
*Director:* Roger Johnson (Lehigh Cement)  
*Director:* Randy McCullum (Aggregate Industries)  
*Director:* Dave Meyer (Lafarge)  
*Director:* Willy Morrison (American Engineering Testing)



Edwards



Ward



Schneeman



Coleman



Bauer



John



Johnson



McCullum



Meyer



Morrison



# 2013 MCC AWARDS PROGRAM

## ARCHITECTURAL DESIGN MERIT

1<sup>ST</sup>  
PLACE



**The College of St. Scholastica – Science Center Addition.** 43,000 square foot expansion of The College of St Scholastica Science Center, including chemistry/biochemistry laboratories, research laboratories, classrooms, faculty offices, atrium gathering area, and two tunnel links to other buildings.

**Project Team Members:** *Owner:* The College of St. Scholastica *Architect & Engineer of Record:* AECOM Technical Services *General Contractor & Concrete Subcontractor:* McGough Construction *Concrete Supplier:* Arrowhead Concrete Works, Inc. *Architectural Design:* AECOM Technical Services *Geological Engineering/Soils & Materials Testing:* American Engineering Testing, Inc. *Location:* Duluth, MN

### ENTRIES



**Securian Streetscape.** As the largest private sector employer in downtown St. Paul, Securian's commitment to downtown growth and vitality is strong. Since its beginnings in 1880, the company has been located within a few blocks of its current site. The company contributes significantly to downtown development, with construction of 345 Cedar in the 1950s, the 400 building in the 1980s, the 401 building in 2000. All of the exterior concrete for the original 400 building was removed, updated and replaced in the project we are calling streetscape.

**Project Team Members:** *Owner:* Securian Financial Group *Architect of Record:* Cunningham Group *Engineer of Record:* TKDA *General Contractor:* McGough Construction *Concrete Supplier:* AVR Inc. & Affiliates *Location:* St. Paul, MN



**York Avenue Pervious Driveway .** To enhance the permeability of the driveway, approximately 18" of soil below the concrete was excavated and removed. Approximately 40 tons of porous gravel was installed and within the gravel an array of slotted corrugated tubing (drain tile) was installed. The house sump pump was connected into the drain tile below the driveway. Approximately 50% of the entire property's surface flow of water was directed into the drainage system below the driveway. Almost 100% of the water which had flowed toward the neighbor's property was now being diverted to the new pervious driveway.

**Project Team Members:** *Concrete Supplier:* Aggregate Industries *Concrete Subcontractor:* Edina Landscapes *Location:* Minneapolis, MN

## INDUSTRIAL/AGRICULTURAL

1<sup>ST</sup>  
PLACE



**City of Duluth East Interceptor Storm Sewer Overflow Storage Facility Phase 2&3.** The project consisted of an 8.3 million gallon storage tank along with a public restroom and maintenance facility all covered and surrounded with decorative landscaping

**Project Team Members:** *Owner:* City of Duluth *Architect & Engineer of Record:* MSA Professional Services *General Contractor & Concrete Subcontractor:* Rice Lake Construction Group *Concrete Supplier:* Arrowhead Concrete Works *Location:* Duluth, MN

### ENTRIES



**Green Valley Greenhouse.** The Green Valley Green House addition project consisted of a new 112,000 square foot green house facility with an innovative watering system where the plants are watered by flooding the surrounding 1,500 cubic yard flood floor. A low shrinkage concrete mix design with 500 pounds of total cementitious and 50% slag was used to provide greater resistance to the sulfates in the plant fertilizers.

**Project Team Members:** *Owner:* Green Valley Green House *Engineer of Record:* Delta T Engineering *General Contractor:* Eric Thompson Construction *Concrete Supplier:* AVR Inc. & Affiliates *Concrete Subcontractor:* Nascon Inc. *Additional Participants:* Robin Concrete & Masonry *Location:* Ramsey, MN



**Toro Distribution Center.** The latest project in the Ryan/Toro partnership is a 450,139-square-foot distribution center featuring 4,300 square feet of office space, 36 loading docks, and a 28 foot floor to structure clearance. This is the second distribution center that Ryan has completed for Toro, building on the success of the center built in Tomah, Wisconsin. The center is owned by Ryan and leased to Toro.

**Project Team Members:** *Owner, Architect of Record & Engineer of Record:* Ryan Companies *Concrete Supplier (Parking Lot):* Manatt's *Concrete Subcontractor (Parking Lot):* Absolut Construction *Additional Participants (Inside Floor):* CSI Concrete *Additional Participants (Inside Floor):* Niering Construction *Location:* Ankeny, IA



# STRUCTURAL DESIGN MERIT

1<sup>ST</sup>  
PLACE



**U of M - Physics & Nanotechnology Building.** Primarily constructed of wide-module pan and joist slabs, the six story, 144,000 square foot University of Minnesota Physics and Nanotechnology Building provides advanced research space to meet strict vibration criteria.

**Project Team Members:** *Owner:* University of Minnesota *Architect of Record:* Architectural Alliance *Structural Engineer of Record:* Meyer Borgman Johnson *General Contractor & Concrete Subcontractor:* Mortenson Construction *Associate Architect:* Zimmer Gunsul Frasca Architects *Concrete Supplier:* Cemstone Products Company *Testing Agency:* Braun Intertec *Elevated Deck Formwork Installer:* Ceco Concrete *Construction Reinforcing Supplier:* Ambassador Steel *Reinforcing Installer:* Bald Eagle Erectors *Vibration Consultant:* ESI Engineering *Location:* Minneapolis, MN

## ENTRIES



**St. Jude Medical Plymouth Expansion.** A 3-level, 275,000 SF expansion consisting of labs, manufacturing, clean rooms, warehouse, offices, conference center, tour route, and a café/assembly multi-use area.

**Project Team Members:** *Owner:* St. Jude Medical, Inc. *Architect of Record:* BWBR Architects *Engineer of Record:* Larson Engineering *General Contractor & Concrete Subcontractor:* McGough Construction *Concrete Supplier:* AVR Inc. & Affiliates *Location:* Plymouth, MN



**The Carol Young Anderson and Dennis L. Anderson Center.** Three-story, 75,000-square foot student center consisting of campus dining facilities, event space, student organization offices, a two-story underground parking ramp, and a green roof with an outdoor terrace/seating space.

**Project Team Members:** *Owner:* Hamline University *Architect of Record:* Shepley Bulfinch Richardson and Abbott Inc. *Structural Engineer of Record:* Simpson Gumpertz & Heger *General Contractor & Concrete Subcontractor:* McGough Construction *Concrete Supplier:* Cemstone Products Company *Location:* St. Paul, MN



**U of M Recreation Center.** The University of Minnesota Recreation Center is a \$59 million addition and renovation to the existing outdated building. Effectively doubling the size of the existing facility, the University of Minnesota's 145,000 square foot addition preserves the prominence of the adjacent McNamara Alumni Center and Scholars Walk and maintains continuity with the larger campus through an exterior palette of brick, glass, and limestone.

**Project Team Members:** *Owner:* University of Minnesota *Architect of Record:* Studio Five Architects/Cannon Design *Engineer of Record:* Meyer Borgman Johnson *General Contractor:* JE Dunn *Concrete Supplier:* AVR Inc. & Affiliates *Concrete Subcontractor:* Kelleher Construction *Location:* Minneapolis, MN

# TRANSPORTATION

1<sup>ST</sup>  
PLACE



**RTR High School Parking Lot.** The 56,000 square foot project was originally bid as an asphalt mill and overlay, but as a result of promotion efforts, the project was rebid concrete overlay. A history of ongoing maintenance and repair costs associated with owning the asphalt parking lot, compared to the safety of better lighting and long lasting concrete were items the business manager and school board considered when switching to concrete.

**Project Team Members:** *Owner:* RTR ISD #2902 *General Contractor & Concrete Subcontractor:* Carstensen Contracting *Concrete Supplier:* Buffalo Ridge Concrete *Cement Supplier:* Holcim (US) Inc. *Location:* Tyler, MN

## ENTRIES



**Cedar Rapids Convention Complex Parking Ramp and Skywalk.** The Cedar Rapids Convention Complex Parking Ramp is a six-level structure with a skywalk that connects the parking ramp to the neighboring DoubleTree Hotel and Convention Center.

**Project Team Members:** *Owner:* City of Cedar Rapids *Architect of Record:* NOVAK Design Group, PLC *Engineer of Record:* Walker Parking Consultants *General Contractor & Concrete Subcontractor:* Knutson Construction *Concrete Supplier:* King's Material, Inc. *Location:* Cedar Rapids, IA



**Southwest Transit East Creek.** The East Creek station is composed of several different concrete construction strategies that interact with each other aesthetically. From post-tensioned to pre-cast, the Park and Ride provides all the support a Chaska commuter or bike path trail user may desire.

**Project Team Members:** *Owner:* SouthWest Transit *Architect of Record:* Michael Huber Architects *Engineer of Record:* Walker Parking Consultants Inc. *General Contractor & Concrete Subcontractor:* Adolfsen & Peterson Construction *Concrete Supplier:* AVR Inc. & Affiliates *Additional Participants:* Hanson Pipe and Products, Mavo Flooring *Location:* Chaska, MN



**Central Corridor Light Rail East Stations.** The Central Corridor LRT Project (East) includes the construction of 14 new stations along the 7-mile Green Line. Each unique station represents the surrounding neighborhood.

**Project Team Members:** *Owner:* Metropolitan Council – Metro Transit *Architect & Engineer of Record:* AECOM *General Contractor:* Adolfsen & Peterson Construction *Concrete Supplier:* Cemstone Products Company *Location:* St. Paul, MN



**Cedar Avenue Reconstruction.** The Cedar Avenue project consists of pavement widening and corridor improvements including earthwork, grading, bituminous paving, infiltration ponds, lighting, signage, traffic signals, utility work, retaining wall and noise wall installation. The project used almost 8,000 cubic yards of conventional and decorative concrete to improve the overall look of the heavily traveled corridor.

**Project Team Members:** *Owner:* Dakota County *Engineer of Record:* SRF Consulting Engineers *General Contractor:* Shafer Contracting *Concrete Supplier:* AVR Inc. & Affiliates *Concrete Subcontractor:* Minnesota State Curb & Gutter *Location:* Apple Valley, MN



## MATERIAL DEVELOPMENT & INNOVATION

1<sup>ST</sup>  
PLACE



**Hershey Company Collaboration Space.** The Hershey Company collaboration spaces build out was fast track construction at its very best. Our client came to us needing some additional meeting space and a very tight timeline. We worked with our producer to come up with a concrete slab mix design that allowed us to place the concrete and apply floor coverings 28 days later without having to worry about typical moisture and slab dry out issues.

**Project Team Members:** *Owner:* The Hershey Company *General Contractor:* Ryan Companies US, Inc. *Concrete Supplier:* AVR Inc. & Affiliates *Location:* Minneapolis, MN

### ENTRY



**Keewaydin School Addition.** Keewaydin School, the upper campus of Lake Nokomis Community School, just finished a project to double its space with a \$16 million building project. The school district identified the 83-year-old building as deficient in a number of areas according to state and national standards. By remodeling the existing and adding on, Keewaydin will be brought up to state and national middle schools standards.

**Project Team Members:** *Owner:* Lake Nokomis Community Schools *Architect of Record:* RSP Architects *Engineer of Record:* Meyer Borgman Johnson *General Contractor:* Black Dew *Concrete Supplier:* AVR Inc. & Affiliates *Concrete Subcontractor:* Crosstown Concrete & Masonry *Location:* Minneapolis, MN

## 2014 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 "Events" page of the MCC website. We're always looking for sponsors! All events are held at Midland Hills Country Club unless otherwise noted.

### January

16 Breakfast Meeting  
16 Owners Circle  
23 Board of Directors Meeting

### February

13 Board of Directors Meeting  
27 Awards Program Annual Meeting and Reception

### March

13 Symposium  
20 Board of Directors Meeting

### April

10 Board of Directors Meeting  
17 Breakfast Meeting

### May

8 Breakfast Meeting  
15 Board of Directors Meeting

### June

10 Board of Directors Meeting  
19 Breakfast Meeting

### July

10 Board of Directors Meeting

### August

14 Board of Directors Meeting  
25 Golf Outing @ Mendakota Country Club

### September

11 Board of Directors Meeting  
18 Breakfast Meeting  
23 Clay Shoot @ MN Horse & Hunt Club

### October

9 Board of Directors Meeting  
16 Symposium

### November

13 Board of Directors Meeting  
20 Breakfast Meeting  
21 MCC Awards Program Entry Deadline

### December

11 Board of Directors Meeting  
18 Breakfast Meeting



# 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



Edwards



Bauer



Ramerth



Vruno



Ward



McCullum



Meyer



Swor



Jacobson



Heimdahl



Moulzolf



Anderson



Carlson

<b>Membership Committee</b>	Randy McCullum - Aggregate Industries Mike Ward - Cemstone Products Company
<b>Golf Committee</b>	Mike Ward - Cemstone Products Company
<b>Big Shoot Committee</b>	Dave Meyer - Lafarge Gerard Moulzolf - American Engineering Testing
<b>Event Staff Committee</b>	Elaine Anderson - TCC Materials Lynn Carlson - Fischer Sand & Aggregate
<b>Communications Committee</b>	Terry Swor - American Engineering Testing
<b>Research Committee</b>	Mike Ramerth - Meyer Borgman Johnson Dan Vruno - American Engineering Testing
<b>Awards Committee</b>	Josh Edwards - AVR Inc. & Affiliates Keith Jacobson - VAA, LLC
<b>Education Committee</b>	Greg Bauer - Crane Engineering Josh Edwards - AVR Inc. & Affiliates
<b>Owners Circle</b>	Keith Jacobson - VAA, LLC Thor Heimdahl - Target Corporation

## MCC RESEARCH COMMITTEE CONDUCTS LITERATURE REVIEW

The Minnesota Concrete Council's Research Committee produced a "Literature Review of Portland-Limestone Cement" this year. This document was designed to help MCC members understand the current practice of using limestone-cement. In order to appreciate the environmental benefits of the product, the review was to distill, capture, and summarize the performance characteristics when PLC is used in cast-in-place concrete. The literature review document is available on the MCC website.

## MCC BECOMES NRMCA STATE AFFILIATE



MCC was invited by the National Ready Mixed Association to become an NRMCA State Affiliate. The NRMCA State Affiliate program was created to foster partnerships between NRMCA and state associations. There is no cost to MCC to be involved with the program.

At its November, 2013 board meeting, the MCC Board of Directors unanimously approved signing a resolution that would make MCC the newest NRMCA state affiliate. Bob Garbini, President of NRMCA, stated in a letter to MCC that it is NRMCA's "sincere hope and belief that the benefits that both our associations will see from this relationship will move our organizations and our industry forward in the years to come and will increase the synergies we have in our efforts."

## MCC OWNERS CIRCLE GAINS MOMENTUM

The MCC Owners Circle, chaired by Brad Koland (Target Corporation) in 2013 and by Thor Heimdahl (Target Corporation) and Keith Jacobson (VAA, LLC) in 2014 is gaining momentum! The Owners Circle is a resource within the larger membership group that focuses on the needs of Owners 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 in their capital investment projects and who are committed to advancing the knowledge of cast-in-place concrete construction.

In 2013, the Owners Circle focused on establishing and expanding its core membership base. The group will meet four times in 2014 in conjunction with regularly scheduled MCC breakfast meetings. Presentations are informal with plenty of time allocated for questions and answers. Nearly 20 people attended the first meeting in January which was a big increase in attendance from past meetings.

# MCC SUPPORTS THE INDUSTRY VIA SCHOLARSHIPS

MCC's board of directors is committed to supporting our industry via scholarships. In 2013, MCC provided two \$500 scholarships to finisher apprentices from the Cement Masons Local 633 JATC and one to a laborer apprentice from the Construction Craft Laborers' Apprenticeship Program. The \$500 scholarships were in the form of MCC-funded gift certificates that could be used to purchase tools from member contractor supply companies. MCC also provided a \$3,500 scholarship via the Minnesota Professional Engineer's Foundation to Scott Miller, a Civil Engineering student at the University of Minnesota.

MCC also provided money from the scholarship fund to sponsor the Midwest Region Concrete Canoe Competition that was held in Mankato and to the UMD ACI Student Chapter to help cover travel expenses incurred by students who attended the ACI convention.

In addition to scholarship income generated by the golf outing and the sporting clay shoot events, MCC raised nearly \$500 for the scholarship fund by raffling off that famous "Midland Hills bacon" twice at breakfast meetings throughout the year. MCC was also blessed by a \$500 donation to the scholarship fund in memory of Dick Stehly by Larry Nelson of Enduracon Technologies.



Dean Mills (LTCMN) congratulates Asa Thompson for winning a \$500 scholarship.

# MCC PAST PRESIDENTS GATHER TO REFLECT, CONSIDER & RECOMMEND

On December 11, 2013 all of the living MCC Past Presidents, two Treasurers and current board members gathered to reflect on the past 25 years of MCC's existence. The meeting was facilitated by 2013 MCC President, Jeff Coleman, and presentations were made by Terry Swor of American Engineering Testing (MCC President in 1991-92), Jim Paquin of CECO (MCC President in 1993), Carl Schneeman of Walker Parking Consultants (current Treasurer) and by Josh Edwards of AVR, Inc. & Affiliates (MCC President in 2014).

The group celebrated the accomplishments of 25 years of hard work by a mostly volunteer organization and began to lay the groundwork for the next 25 years.



## MCC Presidents

- 1989-90: Dave Pace
- 1991: Ed Johnson (Deceased)
- 1991-92: Terry Swor
- 1993: Jim Paquin
- 1994: Tom Downs
- 1995: Pat Kinsel
- 1996: Daniel Kelly
- 1997: Roger Oberg
- 1998: Mark Bintzler
- 1999: Michael Ramerth
- 2000: Bruce Wallace
- 2001: Kevin MacDonald
- 2002: Richard Dufresne (Deceased)
- 2003: Michael Johnson
- 2004: Gerard Moulzolf
- 2005: Anthony Polusny
- 2006: Tom Dykhoff
- 2007: Amy Trygestad
- 2008: Dean Stroschein
- 2009: Bill Frazier
- 2010: Terry Babcock
- 2010-11: Dave Meyer
- 2012: Keith Jacobson
- 2013: Jeff Coleman
- 2014: Josh Edwards

## MCC Treasurers

- Past: Ed Curtiss
- Past: Ken Peterson
- Current: Carl Schneeman



# 2013 MCC EVENTS RAISE MONEY FOR THE SCHOLARSHIP FUND

## IT WAS A HOT, BUT SUCCESSFUL GOLF OUTING

The 2013 golf outing sold out nearly six weeks in advance of the event. Searing heat greeted MCC members and their guests on Monday, August 26 at Mendakota Country Club. Temperatures soared into the high 90's with heat indexes well over 100 degrees. The golf outing, which is a fundraiser for the MCC scholarship fund, generated about \$2,500 that will go directly to supporting students and those learning the trade.

### 2013 golf outing results:

*1st Place (46):* Ron Skaja, Greg Ringler, Bob Hannaman, Corey Gerads. *2nd Place (51):* Mike Malherek, Rick Conlin, Randy Gaworski, Mark Bintzler. *Longest Drive #1 and #16:* Justin Higgins. *Closest to the Pin #4:* Jason Rykal. *Closest to the Pin #17:* Joe Baumann. *Longest Putt #8:* Dana Kelly. *Longest Putt #18:* Nate Thompson.



## 6TH ANNUAL "BIG SHOOT" MAKES A MOVE

After five years of being held at Wild Marsh Sporting Clays, the MCC Board of Directors decided to move the "Big Shoot" to the Minnesota Horse and Hunt Club in Prior Lake. That decision paid off with a nearly 20% increase in attendance and a net income that nearly tripled from the previous year. The proceeds from the shoot (almost \$1,500) go directly to supporting students and those learning the trade.

The skill level of the participants ranged from advanced to beginner with some people shooting a gun for the very first time at the event. At the end of the day, 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 second year in a row!

The Minnesota Horse and Hunt Club was the victim of a fire at the end of 2013. Assurances have been made that they will be up and ready to host the MCC event again on September 23, 2014.





# MCC IS ALL ABOUT EDUCATION



Over the last seven years, over 5,000 people have attended MCC breakfast meetings and symposiums. MCC has become well known across the country for the quality of its continuing education offerings.

In 2013, MCC's membership was offered six breakfast meetings. MCC's Education Committee works hard to bring in quality speakers on pertinent topics at a very small cost to MCC. MCC only charges \$15 for attendance at its breakfast meetings which barely covers the cost of the breakfast buffet. MCC averages about 75 attendees at each breakfast meeting.

MCC also coordinated the Contractor Day at the ACI Convention that was held in Minneapolis in April. Presentations included: A Futuristic Perspective on Fly Ash (Benjamin Franklin, Headwaters Resources); Cement/Fly Ash/Limestone Ternary Blends: Providing Constructibility to Sustainability (Dr. Jason Weiss, Purdue University); Case Study - University of Minnesota Recreation Center (Mike Ramerth, Meyer Borgman Johnson) and The I-35W Bridge Reconstruction Project (Linda Figg, President and CEO, FIGG). The event was well attended and gave MCC increased national exposure and the opportunity to build a stronger relationship with ACI.

In October MCC held a decorative concrete mega demo at the JATC Local 633. The mega demo was a combination of classroom style presentations coupled with hands-on demonstrations. Classroom topics ranging from "What's New in Decorative Tools and Technology" to "Decorative and Stamped Concrete Basics" were covered. Hands-on demonstrations of acid and water-based stains and dry shake hardeners were presented. The event was both information and fun. A dinner by "Those Pork Chops" was served at the conclusion of the event.

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 average registration was 45 people per event and the forums were held as far south as Albert Lea and as far north as Duluth and several points in between. Several forums are already in the works for 2014.



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.

**ACI SPRING 2013  
CONVENTION**

**Contractors' Day**

**April 16, 2013  
Minneapolis  
Convention Center  
Minneapolis, MN**

**Responsibility  
in Concrete Construction**



# 2014 MCC BREAKFAST MEETING DETAILS

All MCC breakfast meetings are held at Midland Hills Country Club in Roseville. Cost to attend is \$15 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.

## **January 16, 2014 – “Roller Compacted Concrete: Another Choice for Pavement”**

*Phil Kresge - Senior Director, NRMCA.* Having characteristics of both asphalt and concrete pavements, RCC is best described as a third pavement choice. Attendees will learn the basics of RCC design and construction. Additionally, they will better understand the benefits of RCC, in terms of both construction and performance. Frequently asked questions regarding reinforcement, maintenance and freeze-thaw durability will also be addressed.

## **March 13, 2014 - Spring Symposium – Design & Benefits of Cast-in-Place Parking Structures**

As the Midwestern United States economic outlook continues to improve, development trends are focusing on population centers driving construction of millions of square feet of structured parking each year. However, construction cost increases and tightening project finances require smart selection in construction types. Post-tensioned concrete provides a structurally efficient, reliable, and cost-efficient solution for the construction of parking garages. Through use of continuous floors and infinitely varying member sizes, properly designed post-tensioned parking structures offer unparalleled durability, aesthetic freedom and the flexibility required for today's complex mixed-use designs. In Minnesota, post-tensioned parking garages continue to gain market share in terms of both the number of structures built and volume. When all factors are evaluated, it is easy to see why cast-in-place, post-tensioned concrete parking garages are the preeminent choice for hospitals, universities, developers, public institutions and commercial building owners.

## **April 17, 2014 – “When Worlds Collide: Project Specifications vs. Sustainable Initiatives**

*Richard Szecsy - Texas Aggregates and Concrete Association.* From a sustainability perspective, high volume fly ash (HVFA) concretes are attractive not only because of the reduction in cement content and its associated greenhouse gases that they provide, but also because they avoid landfilling excessive quantities of fly ash. These sustainability benefits are often tempered by practical constructability limitations that may exist for HVFA concretes. This presentation explores the alleviation of these deficiencies in HVFA mixtures.

## **May 8, 2014 – “Avoiding Surface Defects on Exterior Slabs”**

*Kim Basham – KB Engineering.* Premature finishing, overworking the surface and inadequate curing are typical causes of surface defects on exterior slabs. Some of these defects include premature wear, scaling, mortar flaking and plastic-shrinkage cracking. To achieve high-quality slabs, you must understand the finishing steps and the “window of finishability”. Other topics covered will include; why premature finishing causes surface defects, why overworking the surface should always be avoided, and how to overcome the challenges associated with bleed rates versus evaporation rates. After this presentation, you'll understand how to avoid surface defects, callbacks and expensive repairs caused by improper finishing.

## **June 19, 2014 – “Fiber Reinforced Concrete: Past, Present, and Future”**

*Larry Kaiser- W R Grace.* As more experience is gained with SFRC, more applications are accepted by the engineering community. As more experience is gained and reported, more data will be available to contribute to the recognition of enhanced SFRC properties in concrete. This presentation will cover the most significant properties of SFRC which are; improved flexural toughness, impact resistance, and flexural fatigue endurance.

## **September 18, 2014 – “Reinventing Floor Construction – An Innovative New way to Construct Floors”**

*Jack Gibbons – Ductilcrete Slabs Systems, LLC.* The technologies used to construct industrial and commercial floor slabs have evolved in significant ways through the years. Changes have included development of concrete mixtures, more efficient placing, finishing, and jointing technologies and new protocols for measuring slab flatness and levelness. Many of these developments have been made to address contractors' demands for greater productivity or owners' demands for flatter, more level floors. However, most have done little to reduce slab curling. Rather than make incremental changes, Ductilcrete® Slab Systems has developed a radically different way to construct floors. Their new system, which includes a concrete mixture that exhibits almost no shrinkage, is practically eliminating curling. Because there is virtually no curling in the system, floor panels rest uniformly on the subgrade and transfer loads directly to the soil.

## **November 20, 2014 – “Self Consolidating Concrete - State of the Art”**

*Joe Daczko – BASF Chemicals.* Self-consolidating concrete (SCC) is an innovative material which is used successfully throughout the world. SCC mixtures are highly fluid, yet their flowing properties can be adapted for a range of applications and allow the user to select and determine levels of filling ability, passing ability and stability. This presentation will discuss all aspects of SCC including: its benefits and limitations, raw material components, mixture proportions, production and quality control placement and curing. It will be useful for both the new practitioner as well as for one who is already using SCC.

## **December 18, 2014 – “Class C & Class F Fly Ash – Comparisons, Applications, & Performance”**

*Dr. Larry Sutter – Michigan Tech.* In addition to economic and ecological benefits, the use of fly ash in concrete improves its workability, reduces segregation, bleeding, heat evolution and permeability, inhibits alkali-aggregate reaction, and enhances sulfate resistance. Dr. Sutter will present the findings of a recent Wisconsin DOT laboratory study evaluating Class F and Class C fly ash sources. The presentation will also provide mix design guidance related to acceptable proportions of fly ash that can be used in paving applications without negatively impacting performance.

# 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 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 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](http://www.mnconcretecouncil.com).

## 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.

Margaret offices from her home in Rosemount. She's been married to Larry for 21 years and has one son who is a sophomore at Rosemount High School.

## MEMBERSHIP COMMITTEE UPDATE

MCC's Membership Committee co-chairs Randy McCullum (Aggregate Industries) and Mike Ward (Cemstone Products Company) challenge you to invite non-members to attend MCC events where they can learn more about MCC and the benefits of being a member. Current members are encouraged to "upgrade" to the next membership level which include:

### **The Platinum Group - \$1,000** Includes the following:

- A full corporate membership and corresponding benefits (see below) (\$375 value)
- one complimentary registration to each monthly breakfast meeting (\$90 value)
- one complimentary symposium registration (\$50+ value)
- Platinum sponsor logos and links to their websites are posted on the MCC website and in the online membership directory
- one complimentary table top display at all breakfast meetings and symposiums (\$300 value)
- Platinum sponsor project profile or company profile slide in the pre-meeting slideshows and breakfast meetings and symposiums

### **The Silver Group - \$500.** Includes the following:

- a full corporate membership and corresponding benefits (see below) (\$375 value).
- one complimentary symposium registration (\$50+ value)
- one complimentary table top displays at all breakfast meetings (\$300 value)
- Silver Sponsor logos and links to their websites will appear on the MCC website and their logos will appear in the online directory and on a slide in the pre-meeting slideshows and breakfast meetings and symposiums

### **Corporate Memberships - \$375** Includes the following:

- may identify up to three voting members to represent their company in all MCC elections
- full company/employee listing in the MCC online directory

### **Individual Memberships - \$100** Includes the following:

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

### **Student/Retired Memberships - \$15**

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

For a membership application, contact the MCC office at 651-482-9549 or download from the MCC website by visiting the "Members" page.

## CONTACT MCC

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# CELEBRATING 25 YEARS

**1989** It's hard to imagine that something started as a discussion over breakfast



at a Perkins restaurant between a group of industry advocates in 1988 could turn into something as vibrant and vital as The Minnesota

Concrete Council today. But that's what happened. Concerned about cast-in-place concrete's parking ramp market share, a handful of industrious men worked together to create an organization dedicated to the use of cast-in-place concrete. MCC was officially founded in 1988.



Jim Paquin, CECO Concrete Construction

Jim Paquin, one of the men who was part of those initial conversations, said "Prior to MCC, there was not a good local, single-source of unbiased information on how to do a better job of designing and building with cast-in-place concrete. MCC was created to bring proven methods and new ideas together, and educate its members on how to improve the

quality and use of concrete in our structures, and to educate the decision-makers on the benefits of quality concrete construction."



Terry Swor, American Engineering Testing

Terry Swor, one of MCC's other "founding fathers" made some remarks at the recent Past President's luncheon. He said "Our industry was quickly becoming more technically oriented and contractors and engineers were constantly looking for advantages to differentiate themselves from other delivery systems and to improve the durability

and performance of cast-in-place concrete. The group saw a need for our organization to become the technical leader in concrete materials, specifications, identifying and correcting defects, research and education. It was obvious that continuing education would be required to provide qualified personal development hours – a role we saw value in filling!"

MCC's first Annual Seminar was conducted in 1990 at the new Radisson Hotel on the U of M Campus and it was attended by 165 people. That event served as MCC's formula for future success. The seminar was dedicated specifically to parking structures and looking to the future as to what this industry could expect in twenty years – which is today!

**2014**



Now, 24 years later, MCC will be hosting another seminar on the use of cast-in-place concrete in parking ramp construction. At the March 13, 2014 symposium, Terry Swor (American Engineering Testing) will provide a short history of MCC and Bill Arons (Walker Parking Consultants, Retired) will provide a history of parking structures. Carl Schneeman (Walker Parking Consultants) will present "State of the Art Parking in Parking Structures – Durability and Economy of PT, PC and Other Systems." Jim Paquin (CECO Concrete Construction) will give a rundown of the benefits of cast-in-place parking structures. Finally, a project case study of the Hennepin County Interchange will be provided.

MCC's roots are in parking structures. But from there, MCC has grown to encompass the promotion of all cast-in-place concrete via its diverse membership base. Jim Paquin commented that "One of the keys to MCC's success is its diverse membership. Because suppliers, contractors, designers and owners participate at monthly meetings and on its board of directors and committees, and because they address current issues as topic speakers and participants on MCC research projects, MCC is able to bring together the best of talent and materials, in a highly fragmented industry, and work on a common goal of improving the quality of cast-in-place concrete for the end user."

MCC is dedicated to providing educational opportunities for its members to learn not only about the tried and true, but also about the new and innovative. MCC has even gone so far as to do its own research and provide its members with Minnesota-specific information. MCC nurtures the industry by providing scholarships to support students and those learning the trade. MCC provides networking opportunities for its members to exchange ideas and build relationships.

MCC is grateful to its founders as well as to the volunteers who continue to make MCC a vital, healthy organization. MCC is especially thankful to those members who go well above and beyond to support MCC not just financially but with the donated time and talents of their employees.

# MCC MEMBERSHIP ROSTER

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**MCC APPRECIATES THE CONTINUED  
FINANCIAL SUPPORT OF THE PORTLAND  
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