



info@nebrconcagg.com
402-325-8414

NEBRASKA CONCRETE AND AGGREGATES ASSOCIATION

OCTOBER 2011

Newsletter

NC&AA President's Message



Kirk Havranek
Ready Mixed
Concrete-Lincoln
2011 NC&AA
Board President

What is your perspective of change? Are you scared of change? OR is change a great motivator for you? As we move into the fall months we notice the seasonal changes in the colors of the landscape. Change is the one constant for all of us personally and professionally. Change can be a positive motivator.

I have noticed positive changes within the Association with Jereme Montgomery as our Executive Director. Jereme & I recently attended the Pervious Roast Seminar in Las Vegas this past month.

As I watched him at the event interacting with the other National Pervious Concrete Leaders, I felt the Association and the Nebraska Concrete Industry

"Change is the one constant for all of us personally and professionally..."

change can be a positive motivator."



More **PRESIDENT'S MESSAGE** . . . continued on page 3

8th Annual NC&AA Scholarship Fund Shoot

On Friday September 23rd, NC&AA Scholarship Fund shooters enjoyed a perfect 71 degree sunny day with little wind and no precipitation at the Heartland Public Shooting Park, Alda, NE. This year's event offered a pick of two disciplines from Sporting Clays, Rimfire Adventure and Trap. All the registered shooters selected Sporting Clays as their first pick and for their 2nd pick about 2/3 selected Rimfire Adventure (a time and accuracy fun shoot featuring three stations, 10 targets each, shooting reactionary targets) and 1/3 of the shooters selected Trap. Burgers and Brats were served up by our own Grillmaster, Jereme Montgomery. A safe and fun time was had by all present. **See page 3 for results from this year's event.**



More **FUND SHOOT** . . . continued on page 3

Editor: Mark Deetz
Lyman Richey Corporation
402-556-3600

Shares Exciting Industry News



Jereme Montgomery
NC&AA
Executive Director

I wanted to share some exciting news for our industry. The Massachusetts Institute of Technology (MIT) has released groundbreaking research to measure the total costs of concrete and similar building and paving materials.

Today, MIT's Concrete Sustainability Hub, co-founded by the Portland Cement Association and Ready Mixed Concrete (RMC) Research & Education Foundation, released initial reports that look at the environmental impact of these materials in the form of a life-cycle assessment (LCA). The initial results are very positive for our industry. They show that it's possible to get this kind of detailed data over a realistic time window (50-years for highways, 75-years for buildings). This timeframe reflects concrete's status as the most sustainable building material in the world. They also show concrete to be the more energy-efficient building material compared to wood and steel and identify concrete as the more environmentally-friendly paving material.



INTERIM REPORT HIGHLIGHTS

Life-Cycle Assessment (LCA) of Highway Pavements

- For high-volume roads, the use phase of the life-cycle can account for up to 85% of carbon emissions.
- Potential for significant fuel efficiency savings for vehicles on concrete pavements. These fuel efficiency savings could lead to substantially lower life-cycle CO2 emissions.

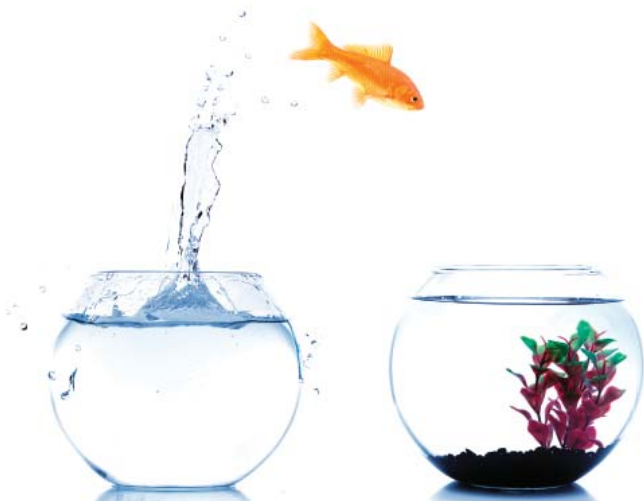
Life-Cycle Assessment (LCA) of Buildings

- Residential Buildings – More than 90% of the life-cycle carbon emissions are due to the use phase, with construction and end-of-life disposal accounting for less than 10% of the total emissions.
- Residential Buildings – Concrete structures built with insulated concrete forms (ICF) enjoy long-term operational energy savings of 20% or more over wood-framed buildings.
- Commercial Buildings – Concrete structures realize HVAC energy savings of between 5% and 6% annually over steel structures.

Our industry, together with other industry members, has taken steps to publicize this information so that we can realize the full impact of these promising findings.

I encourage you to get involved in these efforts. Visit www.whataretherealcosts.org, where you can view the reports and research highlights. Be sure to also “friend” the effort on Facebook (www.facebook.com/therealcosts), to follow on Twitter (www.twitter.com/TheRealCosts), and to share both pages with friends and colleagues.

This is an exciting time for your company and our industry. Though the national economic climate remains uncertain, what is clear is that policymakers will be looking for cost-effective ways to build our roads, highways, bridges, and public buildings.



is where it needs to be on the cutting edge. We are all working towards a better environment.

As our days change into the fall months, I hope we are all having a successful and safe year. I know change can be tough to think about but look forward, be positive and let the changes happen or make changes to better your life or business. I challenge you to think about the changes that lie ahead.

Personally, I have experienced a few dramatic changes in my life and now I have to make the adjustments to better my life and career in the concrete industry. From my experience in the past few months change can be a great motivator. I challenge you to change something and don't make yourself give any excuses for change.



Best of Luck in the fall months and let's keep the snow away for a few more months...



Annual NC&AA/ACI Scholarship Fund Shoot Results

Sporting Clay (Tie breaker Station 7)

- 1st Kevin Coen 87
- 2nd Brian Swallow 87
- 3rd Pat Sullivan 86

Rimfire Adventure

- 1st James Dugan
- 2nd Matt Manger
- 3rd Tim Zigler

Trap

- 1st Al Lux 42
- 2nd Rod Alley 40
- 3rd Rusty Rogers 39

Thanks to our event sponsors:

- Arps Red-E-Mix
- CON-E-CO
- Gerhold Concrete Company
- Grace Construction Products
- Holcim
- Lyman Richey
- Minden Lumber & Concrete Co.
- Nebraska Truck Center
- Ready Mixed Concrete Kearney
- Thiele Geotech

If you haven't participated in the Scholarship Fund shoot it's worth adding to your calendar next fall. All profits from the fund raising raffles and event go to the NC&AA Scholarship Fund distributed to UNO, UNK and UNL.

2nd Annual Bunyan Pervious Roast

Kirk Havranek and Jereme Montgomery attended the 2nd annual Pervious Roast in Las Vegas. This three-day event drew over 70 attendees of all the major players in the pervious concrete industry.

They dedicated the first day to potential owners, day two was dedicated to the producer, and day three was geared to the installer. David Mitchell of Bunyan Springs and his team does a great job putting this together.



Some of the highlights were:

- Decorative Pervious
- Aggregate Selection for Surface Texture and Porosity
- Aggregate Selection for obtaining final mix proportions
- “The Mix Kitchen” ...examining powder, paste, mortar, fibers and voids
- Two-Tier placement sections
- Testing pervious for acceptance / evaluation
- Maintaining permeability with the BIRDVac (Bunyan Infiltration Restoration Device)

Even more important than the highlights was the networking with the pervs of the world and getting their perspective on current trends and practices.





2011 ACI Nebraska Chapter Awards of Excellence for the Use of Concrete in the State of Nebraska

*Deadline for project
submittal
is December 1st, 2011*



The Nebraska Chapter of the American Concrete Institute announces its annual Concrete Awards Program. The purpose of this competition is to recognize outstanding work in concrete construction and practices within the State of Nebraska.

Projects must be noteworthy for their use of concrete. The concrete may be precast, pre-stressed, cast-in place, tilt-up or concrete masonry. Special uses of concrete or innovative concrete construction techniques will be recognized.

In order to be eligible the projects must have been completed before November 2011. Completed applications are due by **December 1st, 2011.**

Judging is done by a panel of professionals from various disciplines within the concrete industry. Awards will consist of plaques and certificates to be presented to the owner, designer (Architect and/or Engineer), contractor and concrete supplier. These awards will be presented at the Nebraska Chapter Annual Meeting in February 2012.

Start thinking of unique and innovative concrete projects to be considered and download the application at www.acinebraska.org

Promotion Corner



the pervious pavement, and even conducted an actual ASTM 1701 Infiltration test (which tested at over 400 inches per hour). Sponsored by the UNL Extension Stormwater Management Team, Katie Pekarek had this to say about our presentation:

“Jereme, Thank you for participating in the 2011 Lincoln Green Infrastructure Tour. You are an excellent speaker and a great proponent of the pervious concrete industry! Your work speaks for itself and we look forward to partnering with you in the future.”

Lincoln Green Infrastructure Tour

In August, the NC&AA hosted one of the dozen sites during the Lincoln Green Infrastructure Tour. The site was UNL’s Pervious Concrete Parking lot on 19th and Vine. Over 40 people participated and the NC&AA Committee demonstrated some of the highlights of

Katie A. Pekarek
Stormwater Management
Extension Educator
University of Nebraska Extension

Schuyler Elementary School “Double Downs” on Tilt-up

In 2009, Schuyler Community Schools utilized tilt up construction to meet rural Nebraska school district’s budgetary and schedule requirements for their new elementary school.

Construction of the new school involved erection of approximately 50 tilt-up concrete panels just under 16 feet tall. They used a pre-engineered, structural steel building core with a combination of standing seam metal roof and EPDM rubber roofing.

The project was funded by a 6.9 million dollar bond which took multiple efforts to achieve final voting approval. Since this project has been completed, Schuyler Community Schools has received a government bond to expand an additional 33,000 sf for the 4th and 5th graders...which is also tilt-up concrete construction.



Promotion Corner

NC&AA to Present to AGC Building Chapter Regional Meetings

The NC&AA has been requested to speak at AGC's Regional meetings, 5 total. The first will be held in Lincoln on October 12th, the other 4 meetings will soon be scheduled with Norfolk and Scottsbluff in November, Kearney in January, and Omaha in February.



AGC Regional Meeting Program: Ready Mixed Concrete...from a bird's eye view

This program covers various aspects of ready mixed concrete. Topics will include design, production, placement and maintaining quality concrete applications from exterior slabs to interior floors. This presentation will also cover troubleshooting concrete and discussing proper testing procedures utilized in the field to assist general contractors, project

managers, and supervisors understand concrete. Jereme has almost 15 years experience testing, producing, and placing concrete and still considers himself a student of the industry. Don't miss this opportunity to listen and learn about a product that is typically specified on every single one of your projects.

Program Presenter: Jereme "Bird" Montgomery, Executive Director, Nebraska Concrete & Aggregates Association

NC&AA Summer Golf Sponsorships

The NC&AA has always participated and supported industry related functions, especially golf outings in summer months. But the promotion committee has taken a different approach to sponsorships this summer. Instead of registering a team to play in the industry outing, we have instead "manned" the hole we sponsor. This way we meet and greet every single person in the golf tournament. The NC&AA invested promotional funds on new banners and fill the cooler with beverages to hand out to the participants. Now that's thinking outside the tee-box!



Golf Events Sponsored:

**ACI-Nebraska • AGC-Building Chapter • APWA-Nebraska
The Durham School of Architectural Engineering and Construction • County Highway Superintendants**

Safety News

MSHA Snubs Senators' Information Request

MSHA has rebuffed a request from four Upper Midwestern senators for detailed information on the Agency's treatment of sand and gravel operators.

In the opening paragraph of their Aug. 3 letter to the Agency, the senators said they were writing "to get to the bottom of questions" about MSHA's "treatment of sand and gravel pit operators." What followed was a set of 47 questions seeking information about the Agency's enforcement resources, practices and policies; inspector and operator training; litigation; and compliance assistance.

The queries came from Republican Sens. Charles E. Grassley (IA), Mike Johanns (NB), John Thune (SD), and John Hoeven (ND). Language in the correspondence indicated the request followed an earlier attempt by Grassley's staff for information. That response had been incomplete, the senators contended.

MSHA chief Joe Main ignored the questions in a response letter Aug. 26. He chose instead to emphasize a series of outreach efforts the Agency has engaged in, including building alliances with trade associations representing various Metal/Non-Metal mining sectors, along with meetings and training sessions he and his staff have participated in recently. He closed by offering to have his staff meet with the senators' representatives about their questions.



Main's decision to pass over the questions prompted a strong reaction from a trade association executive in South Dakota. Mylon Stark, Director of Safety and Training for the state chapter of the Associated General Contractors (AGC-SD), said he asked a staffer for Thune to inform the senator that "we in the Alliance and I personally take that as a virtual slap in the face of four sitting senators." AGC-SD has formed an alliance over MSHA issues with a number of mine operators in the state.

Rich White, who leads the Iowa Limestone Producers Association, was more measured. Noting that some of the questions could have been answered easily, he expressed disappointment that MSHA had made no attempt whatsoever.

"I guess I'm thinking that if MSHA is really proud of their record, they should be happy to share that information."

White remarked that his Association has been interacting with Congress for more than a decade over MSHA enforcement issues. "If I've learned one thing, it's that members of Congress are pretty busy. And issues need to be pretty compelling before four senators will spend their time and their staff time to address an issue in this fashion."

Jereme Montgomery, White's counterpart in Nebraska, noted that three of the outreach events Main described in his letter were actually initiated by Johanns' office, not by MSHA. "If it weren't for the senators request, we never would have had those meetings," he said. By not answering the questions, he added, it seems as though MSHA is stalling, hoping that by doing so the senators' interest will wane and they will just go away.

A congressional staffer close to the subject responded diplomatically. "We're just saying, 'Tell us what you're doing, tell us what your numbers are, if you're being responsible, if you're being good actors, let us know,' although when we don't see transparency from an agency, you get a little bit suspicious. That's kind of my concern there."

Commenting on the outreach efforts Main outlined, White agreed that MSHA had reached out to the Midwestern mining community. They "certainly deserve a lot of credit for coming out here and listening to us," he said. "However, it's one thing to listen to us, it's another one to take what they learn from those meetings and actually change the system. I guess only time is going to tell on that."

Enforcement resources devoted to sand and gravel operators over the past 10 years was one focus of the lawmakers' questions. According to MSHA spokeswoman Amy Louviere, Grassley's staff contacted MSHA by phone in May seeking answers to similar questions, only over a three-year period instead.

The congressional staff representative said no decision had yet been reached about what the senators will do next, although he said there seemed to be a preference for meeting with the Agency. But, he noted, as representatives of the minority party in the Senate, there's not much they can do to make MSHA respond to the letter.

Environmental News

Economist measures fly ash effect in concrete life-cycle costs

Monday, 12 September 2011 -- ARTBA Senior Economist Alison Premo Black examines in "The Economic Impacts of Prohibiting Coal Fly Ash Use in Transportation Infrastructure Construction" (companion item) how states would have to forego potential additional benefits and savings derived from using the supplementary binding agent in new, high performance concrete pavements. Over a 20-year period, she estimates, agencies could realize such savings as:

- \$25 billion (\$1.2 billion/year average) if all concrete roadways were designed with fly ash concrete materials to last 35 years, compared to the current national average of 20 to 25 years.
- \$33.5 billion (\$1.7 billion/year) if all concrete roadway repair and reconstruction work used fly ash concrete with a 40-year life span.
- \$51.5 billion (\$2.6 billion/year) if all concrete roadway repair and reconstruction work used fly ash concrete with a 50-year life span.
- \$65.4 billion (\$3.2 billion/year) if all concrete roadway repair and reconstruction work used fly ash concrete with a 60-year life span.



The analysis utilized bid tab data from 48 states and Washington, D.C., collected and organized by Nashville-based Oman Systems, Inc. The Federal Highway Administration uses the same data to calculate the National Highway Construction Cost Index. ARTBA-TDF also factored transportation construction market data from the U.S. Census Bureau, FHWA's National Bridge Inventory and Highway Performance Monitoring System, while conducting extensive surveys and personal interviews with state transportation department officials and fly ash supply company executives to determine state market shares and penetrations.

*Source: American Road & Transportation Builders Association
Transportation Development Foundation*

Absent fly ash, road & bridge costs will climb \$100 billion through 2030

Monday, 12 September 2011--The cloud of proposed Environmental Protection Agency regulations governing handling and disposal of coal combustion residuals (CCR), including construction-grade fly ash, compelled an ARTBA-TDF report to forecast potential economic impacts on the subtraction of ASTM C 618 product from the transportation infrastructure supply chain.

ARTBA Senior Economist Alison Premo Black estimates that the loss of fly ash as a supplementary binding agent would increase the cost of road and runway pavements, plus bridges, by \$104.6 billion over the next 20 years. The excess \$5.23 billion annual direct cost she calculates includes a \$2.5 billion increase in the price of materials and an additional \$2.73 billion in pavement and bridge repair work due to the shorter pavement and service life of other portland cement blends. "Without the availability of fly ash, American taxpayers would ultimately bear the burden, either paying more for the same level of transportation improvements, or dealing with the consequences of a scaled back improvement program," says Black.

"The study's findings should be a real eye-opener for members of Congress and other federal policymakers," adds Bill Gehrman, president of Headwaters Resources, Inc., whose group commissioned the report. "Without coal ash, concrete will become more expensive and the environmental footprint of the transportation sector will only increase. There is nothing 'green' or sustainable in such a scenario."

The EPA continues to review comments to a rule, formally proposed in June 2010, that would subject CCR to one of two Resource Conservation & Recovery Act classifications. The more stringent proposal would see any disposal facility-bound CCR—construction- or nonconstruction-grade—labeled a "hazardous waste." Federal and state transportation officials, along with major groups representing concrete and cement producers, have cited prospects for greatly diminished use of ASTM C 618 product as a supplementary cementitious material should any CCR be labeled hazardous waste. Industry and agency stakeholders await a modified EPA proposal or final rule modeled on the June 2010 document.

"The Economic Impacts of Prohibiting Coal Fly Ash Use in Transportation Infrastructure Construction" report can be downloaded at www.artba.org/economics-research/.

*Sources: American Road & Transportation Builders Association
Transportation Development Foundation (ARTBA-TDF),
Washington, D.C.; CP staff*

Environmental News

Lehigh Hanson chief to lawmakers: EPA regs could doom 18 cement plants

The recent passage of "Cement Sector Regulatory Relief Act of 2011" (H.R. 2681) by the House Subcommittee on Energy and Power is being touted as a significant step toward regulations that protect American lives and American jobs.

Testifying in Washington, D.C., before the U.S. House Committee on Energy and Commerce just prior to the bill's passage, Dan Harrington, president and CEO of Lehigh Hanson, Inc., and former Portland Cement Association chair, stressed to Congress that inaction on onerous EPA regulations could force the closure of 18 of the nearly 100 U.S. cement plants and result in the direct loss of 4,000 high-paying manufacturing jobs. Led by Rep. Ed Whitfield (R-Ky.), chair of the Subcommittee on Energy and Power, the hearings focused on H.R. 2681, as well as the "EPA Regulatory Relief Act of 2011," (H.R. 2250), which addresses boilers and incinerators.

Introduced by Rep. John Sullivan (R-Okla.) and Rep. Mike Ross (D-Ark.), along with a bipartisan group of their colleagues, H.R. 2681 requires EPA to re-propose three recent environmental rules directed at domestic portland cement manufacturers—among the most highly regulated enterprises in the country.

The bill addresses the National Emission Standards for Hazardous Air Pollutants (NESHAP) rule for portland cement the commercial and industrial solid waste incinerator rule and its change in the definition of "solid waste," and the new source performance standards rule.

A recent study found that one of these regulations NESHAP alone would force the closure of approximately 18 of the United States' nearly 100 cement manufacturing plants. According to PCA, the cement industry directly provides 15,000 Americans with high-wage jobs. When allied industries are considered, it accounts for nearly \$27.5 billion of the gross domestic product (GDP).



During the recent hearings, Lehigh's Harrington said that failure to pass the cement act would be counterproductive to improving the nation's infrastructure and job sector.

"The Agency does not account for the impact of these closures outside the cement sector," he testified.

"Disruptions to the availability of domestic cement supplies will have adverse impacts on the nation's beleaguered construction sector, which is currently suffering from an unemployment rate of nearly 20%. As the economy hopefully rebounds, a decrease in domestic production will require an increase in imported cement to meet demand.

The result will be increased costs in revitalizing the nation's waterways, bridges, highways and tunnels which, in turn, will only place more burdens on the nation's already stressed state and municipal budgets."

"[H.R. 2681] will create the opportunity for the issuance of reasonable and balanced regulations...thereby giving the domestic industry time to get back on its feet financially," Harrington added. "These basic elements of the Cement Sector Regulatory Relief Act—a re-proposal of the rules, followed by an extension of the compliance deadline—provide a win-win opportunity for American workers and the nation's environment. This bipartisan bill is also consistent with the President's executive order issued earlier this year calling for reasonable regulations."

Harrington's original full testimony is available at: www.cement.org/newsroom/HR2681_Harrington_Testimony.pdf.

New Type IP Cement hits the “Approved Product” List

The Nebraska Department of Roads established their own specification to address the alkali silica reactivity (ASR) of aggregate sources in Nebraska. Nebraska’s specification for blended cements calls for a 25% replacement of Portland cement with a pozzolan, such as Class F fly ash or a natural pozzolan. Previously, all approved mix designs for the State of Nebraska incorporated Class F fly ash.

GCC introduced a Type IP cement that contains a natural pozzolan mined from the earth. The product is interground with Type I/II LA clinker at the Rapid City, South Dakota plant. The technical staff for GCC saw an opportunity to incorporate metakaolin into their mix design. The Type IPN meets ASTM C595 requirements and offers several strong benefits to the industry, such as mitigating ASR, maintaining a stable air content, and adding a noticeable creaminess to low slump concrete. After several years of testing and development, GCC’s Type IPN was placed on the Nebraska Department of Roads’ Approved Products List in April of this year.

The first project in which this Type IPN was used was in Morrill Nebraska. The project was approximately 16,500 cubic yards of concrete, and runs approximately 7 miles. The project was a success. The specifications called for a two inch slump and 8-10% air



content before the paver. Both the State and the Producer tested the product each day throughout the project. All initial tests performed by the state were consistently within specifications.

GCC would like to thank NDOR and extend their thanks to Paul and Reed Palsler, owners of Cementers, Inc. for their confidence and willingness to try their new product on their project. They would also like to thank the operations staff at the Rapid City plant, who worked in developing, testing, and producing the product.

2011-2012 Training Dates (Tentative Schedule)

NDOR Concrete Field Inspector – Level I ACI Concrete Field Testing Technician – Level I

Schedule is based on demand

T	December 6, 2011	Norfolk, NE	NDOR Field, Level I
WTh	December 7, 8, 2011	Norfolk, NE	ACI Field, Level I
T	January 17, 2012	Lincoln, NE	NDOR Field, Level I
WTh	January 18, 19, 2012	Lincoln, NE	ACI Field, Level I
T	January 31, 2012	Omaha, NE	NDOR Field, Level I
WTh	February 1, 2, 2012	Omaha, NE	ACI Field, Level I
T	February 7, 2012	North Platte, NE	NDOR Field, Level I
WTh	February 8, 9, 2012	North Platte, NE	ACI Field, Level I
T	April 17, 2012	Kearney, NE	NDOR Field, Level I
WTh	April 18, 19, 2012	Kearney, NE	ACI Field, Level I

NDOR Concrete Plant Technician (level II)

TWTh	March 6, 7, 8, 2012	North Platte, NE
TWTh	March 20, 21, 22, 2012	Lincoln, NE

ACI Concrete Strength Testing Technician

Thur February 23, 2011
Lincoln, NE

ACI Concrete Flatwork Finisher Technician

T-W April 3-4, 2012
Lincoln NE – Jerry Woods

Check back at

www.nebrconcagg.com

for the latest information and finalized schedules for the 2011-2012 Training Season



**NEBRASKA CONCRETE
AND AGGREGATES
ASSOCIATION**

6000 Cornhusker Highway
Lincoln, NE 68507
402-325-8414

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Industry Calendar

NC&AA

November 3rd NC&AA Board of
Directors Meeting (Lincoln)

December 14th NC&AA Board of
Directors Meeting (Lincoln)

December 14th Long-Range
Planning Meeting (Lincoln)

January 11th Quality Concrete
Conference (Kearney)

January 12th Quality Concrete
Conference (Lincoln)

February 16th-17th NC&AA Annual
Convention (Grand Island)

NCPA

January 24th-25th Concrete Paving
Workshop (Lincoln)

ACI-NE

October 11th Board of Directors
Meeting (York)

December 1st Deadline ACI Awards of
Excellence Submittals

December 16th Deadline Graduate/
Undergraduate
Scholarships Submittals

ACI International

October 16th-20th ACI Fall Convention
(Cincinnati, OH)

NRMCA

October 20th Regional Workplan
Meeting (Des Moines)

March Annual Convention