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EXECUTIVE COMMITTEE SUMMER PLANNING MEETING

The Executive Committee of MICA is scheduled to meet on August 11, 2018, at the Omni Interlocken Resort in Broomfield, Colorado. The hotel will be the site of our June 2019 spring convention. This meeting will give the Executive Committee the opportunity to review the property prior to the fall business meeting. They will share their observations of the property with you in October. President Scott Weekley has invited the Board of Directors, his Executive Committee, and Committee Chairs to attend the meeting so that they can plan the fall business meeting of MICA. This year, the Board has approved a pre-meeting educational seminar in conjunction with the fall business meeting. The Board will finalize the agenda for this seminar. There is no charge to attend the seminar but space is limited. Be sure to register early for the seminar.

The Board and Executive Committee will have several items to discuss. The main purpose of the meeting is to set the budget and technical program for the annual fall business meeting of MICA. This year’s fall business meeting is scheduled for October 17 & 18, 2018, at the Embassy Suites Downtown Omaha. The room rate for this year is $162 per night, single or double occupancy.

The Board will be reviewing several technical topics for presentations but is open to suggestions from the general membership. President Weekley will be developing the technical program and the pre-meeting seminar around his theme. He has already heard from some of the members regarding topics for the fall meeting, but he is open to all suggestions. If you have a topic that you feel would be of interest to the membership, please contact President Weekley or the MICA office. Scott can be reached at (402) 306-2813. Scott values your suggestions and input, so please call him with your ideas. He will be delighted to visit with you!

For the past eight years, we have held a table top display show for our associate members during our fall business meeting. The displays have been very well received by both the contractors and associate members. During their spring meeting, the associate members discussed ways to improve the table top show. These suggestions will be reviewed by the Board and Executive Committee at the planning meeting. We will keep you informed of the Board’s decision on the format for the mini tabletop trade show for this fall’s business meeting. This year the member firms classified as distributors, fabricators, and manufacturers’ reps will participate in the tabletop show.

The Executive Committee has several items of business to conduct in addition to setting the technical program for the fall business meeting. President Weekley will have the Executive committee review ongoing operating policies of MICA and review the budget summary from the spring convention. We will share the fall business program with you next month.
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PRESIDENT’S MESSAGE

TO: THE MICA MEMBERSHIP

Paula and I hope everyone had a safe and fun filled 4th of July. It seems like here in the Ozark’s, people start with the fireworks two weeks before and continue for two weeks after.

I was thinking about my last newsletter and how much of my career was influenced by a man who had gone through WWII and had an 8th grade education. In today’s world, we, as employers, probably would not consider hiring someone with so little education.

I did an Internet search on 8th grade education in the state of Kansas and found a test that was given to 8th graders to graduate. Take a few minutes to look at this test. I was amazed at the general knowledge that they needed to pass the exam. I wonder how many of today’s 8th graders or as far as that goes, college graduates, could do very well on this test.

So you think this class is hard

This is the eighth grade final exam from 1895 from Salina, KS. It was taken from the original document on file at the Smoky Valley Genealogical Society and Library in Salina, KS, and reprinted by the Salina Journal. 8th Grade Final Exam: Salina, KS 1895

Grammar (Time, one hour)
2. Name the Parts of Speech and define those that have no modifications.
3. Define Verse, Stanza and Paragraph.
4. What are the Principal Parts of a verb? Give Principal Parts of do, lie, lay and run.
5. Define Case, Illustrate each Case.
7. Write a composition of about 150 words and show therein that you understand the practical use of the rules of grammar.

Arithmetic (Time, 1.25 hours)
1. Name and define the Fundamental Rules of Arithmetic.
2. A wagon box is 2 ft. deep, 10 feet long, and 3 ft. wide. How many bushels of wheat will it hold?
3. If a load of wheat weighs 3942 lbs., what is it worth at 50cts. Per bu., deducting 1050 lbs. for tare?
4. District No. 33 has a valuation of $35,000. What is the necessary levy to carry on a school seven months at $50 per month, and have $104 for incidentals?
5. Find cost of 6720 lbs. coal at $6.00 per ton.
6. Find the interest of $512.60 for 8 months and 18 days at 7 percent.
7. What is the cost of 40 boards 12 inches wide and 16 ft. long at $20 per >>m?
8. Find bank discount on $300 for 90 days (no grace) at 10 percent.
9. What is the cost of a square farm at $15 per acre, the distance around which is 640 rods?
10. Write a Bank Check, a Promissory Note, and a Receipt.

U.S. History (Time, 45 minutes)
1. Give the epochs into which U.S. History is divided.
2. Give an account of the discovery of America by Columbus.
3. Relate the causes and results of the Revolutionary War.
4. Show the territorial growth of the United States.
5. Tell what you can of the history of Kansas.
6. Describe three of the most prominent battles of the Rebellion.
7. Who were the following: Morse, Whitney, Fulton, Bell, Lincoln, Penn, and Howe?
8. Name events connected with the following dates: 1607, 1620, 1800, 1849, and 1865?

Orthography (Time, one hour)
1. What is meant by the following: Alphabet, phonetic orthography, etymology, syllabication?
2. What are elementary sounds? How classified?
3. What are the following, and give examples of each: Trigraph, subvocals, diphthong, cognate letters, linguals?

(Continued on page 7)
4. Give four substitutes for caret 'u'.
5. Give two rules for spelling words with final 'e'. Name two exceptions under each rule.
7. Define the following prefixes and use in connection with a word: Bi, dis, mis, pre, semi, post, non, inter, mono, super.
8. Mark diacritically and divide into syllables the following, and name the sign that indicates the sound: Card, ball, mercy, sir, odd, cell, rise, blood, fare, last.
9. Use the following correctly in sentences: Cite, site, sight, fane, feign, vane, vein, raze, raise, rays.
10. Write 10 words frequently mispronounced and indicate pronunciation by use of diacritical marks and by syllabication.

Geography (Time, one hour)
1. What is climate? Upon what does climate depend?
2. How do you account for the extremes of climate in Kansas?
3. Of what use are rivers? Of what use is the ocean?
4. Describe the mountains of N.A.
5. Name and describe the following: Monrovia, Odessa, Denver, Manitoba, Hecla, Yukon, St. Helena, Juan Fernandez, Aspinwall and Orinoco.
6. Name and locate the principal trade centers of the U.S.
7. Name all the republics of Europe and give capital of each.
8. Why is the Atlantic Coast colder than the Pacific in the same latitude?
9. Describe the process by which the water of the ocean returns to the sources of rivers.

Be safe this summer.
Enjoy your family and friends.

Scott Weekley,
MICA President

JUNE CONSTRUCTION STARTS JUMP 11 PERCENT

NEW YORK – July 25, 2018 – New construction starts in June climbed 11% to a seasonally adjusted annual rate of $896.3 billion, according to Dodge Data & Analytics. The increase marked the second double-digit gain in a row, following the 15% hike that was reported for May. Boosting activity in June was a sharp 57% advance for nonresidential building, which benefitted from the start of two massive manufacturing plant projects and two massive office building projects. The two large manufacturing projects were a $6.5 billion uranium processing facility in Oak Ridge TN and a $1.7 billion petrochemical plant in Port Arthur TX, while the two large office projects were the $1.8 billion Spiral office tower in New York NY and a $665 million office tower in Chicago IL. Residential building in June grew 4%, helped by growth for multifamily housing. The nonbuilding construction sector (public works and electric utilities) retreated 28% in June, pulling back after the sharp 37% increase reported in May that reflected the start of several large natural gas pipelines and rail-related projects. Through the first six months of 2018, total construction starts on an unadjusted basis were $395.7 billion, up 1% from the same period a year ago. If the volatile electric utility/gas plant category is excluded, total construction starts during the first six months of 2018 would be up 3% relative to last year.

June’s data raised the Dodge Index to 190 (2000=100), compared to an upwardly revised 170 for May. “The monthly pattern for construction starts will often reflect the presence or absence of very large projects, and after May received a lift from unusually large projects, it was even more true in June,” stated Robert A. Murray, chief economist for Dodge Data & Analytics. “Following the lackluster activity in April, the strength shown during May and June enabled the second quarter average for total construction starts to be up 3% from the first quarter, which itself was up 2% from the final three months of 2017. On that basis, one can say that the expansion for construction starts continued at a modest pace during the first half of 2018. At the same time, it’s not expected that July will get the same support from large projects that took place in June.”

“Several features of the first half of 2018 stand out, as shown by the construction start statistics,” Murray continued. “Nonresidential building so far this year has seen gains for manufacturing buildings, educational facilities, and amusement-related facilities, while office building starts have stayed close to last year’s pace. However, transportation terminal starts have not proceeded at the same robust volume that occurred in early 2017, and store construction has weakened further. Residential building is seeing surprising resilience from multifamily housing, even as apartment vacancy rates have moved up gradually. The public works sector is showing widespread in-

(Continued on page 11)
FUTURE MICA MEETING DATES

Fall 2018 Annual Fall Business Meeting — October 17 & 18, 2018, Embassy Suites Downtown, Omaha, NE.

Winter Board and Committee Meetings — January 24 — 27, 2019, Omni Amelia Island Plantation Resort, Amelia Island, FL.

62nd Annual Spring Convention — June 17 — 20, 2019, Omni Interlocken Resort, Broomfield, CO.

Fall 2019 Annual Fall Business Meeting — October 16 & 17, 2019, Downtown, Omaha, NE.

MICA MEMBER ADDRESS/INFO. UPDATES

Be sure to inform the MICA office of any changes or corrections to your listing for either the MICA Directory, e-mail correspondence or mailing address. Even if you update your company listing on the MICA website, please inform the MICA office of the changes. We try to be as current as possible with your help.
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creases this year, outweighing a slightly slower (yet still strong) pace for new pipeline projects compared to a year ago. The electric utility/gas plant category continues to decline, exerting a downward pull on total construction starts in similarity to what occurred during 2016 and 2017. Although the construction industry is facing increased headwinds during 2018, namely higher material prices and rising interest rates, these have yet to have a discernible negative impact on the broad level of construction starts. On the plus side, the construction industry is benefitting currently from the tailwinds of a strong economy, some easing of bank lending standards, and greater funding for federal public works programs as the result of the omnibus appropriations legislation passed in March.”

Nonresidential building in June was $402.3 billion (annual rate), up 57% from May. The manufacturing building category received an eighteen-fold increase in June relative to a weak May, with the primary boost coming from the June start of the U.S. Department of Energy’s $6.5 billion uranium processing facility in Oak Ridge TN. This massive project will support the nation’s nuclear weapons stockpile and provide uranium for fuel for U.S. Navy submarines and aircraft carriers. If this project is excluded from the June construction start statistics, manufacturing building in June would still have shown a five-fold increase, while nonresidential building would have been up 26% and total construction starts would have been up 2%. The other large manufacturing building project entered as a June start was a $1.7 billion petrochemical plant expansion and ethane steam cracker plant in Port Arthur TX. The commercial building categories as a group climbed 25% in June, advancing further after moderate gains in April (up 5%) and May (up 7%). Office construction surged 53% in June, led by the start of the $1.8 billion, 64-story Spiral office tower in the Hudson Yards district of New York NY, as well as the start of a $665 million, 54-story office building on North Wacker Drive in Chicago IL. Other large office projects in June were a $200 million data center in Ashburn VA, a $200 million office tower in Denver CO, and a $145 million data center in Mesa AZ. Through the first six months of 2018, the top five metropolitan areas in terms of the dollar amount of office construction starts were the following – New York NY, Washington DC, Chicago IL, Omaha NE (due to the May start of a $1.0 billion Facebook data center), and Boston MA. Other commercial categories posting June gains were commercial garages, up 22%; store construction, up 18%; and warehouses, up 14%. The warehouse category was helped by such large projects as a $150 million Amazon distribution center in the Birmingham AL area and a $107 million warehouse complex in Fremont CA. Hotel construction was the one commer-
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cial project type to report a June decline, sliding 15%, although the latest month did include the start of several large hotel projects in New York NY, such as a $125 million Hard Rock hotel and a $120 million Ritz Carlton hotel.

The institutional building side of nonresidential building increased 11% in June. Healthcare facilities had a strong month, jumping 103% compared to a lackluster May, led by the $250 million New Trinity Hospital in Minot ND and the $148 million Penn State Health Children’s Hospital in Hershey PA. Educational facilities strengthened 16% in June, featuring such university projects as a $230 million facility at the University of Washington in Seattle WA and a $225 million facility at the University of Oregon in Eugene OR, plus the start of large high school projects in Somerville MA ($202 million), Frisco TX ($200 million), Verona WI ($183 million), and Madera CA ($179 million). The top five states in terms of the dollar amount of educational facility starts during the first half of 2018 were the following – Texas, California, New York, Washington, and Oregon. Of the smaller institutional categories, public buildings (courthouses and detention facilities) registered a 12% gain in June, but declines were reported for transportation terminals, down 16%; religious buildings, down 35%; and amusement-related projects, down 37% (from a May that included ground-breaking for the $764 million expansion to the Washington State Convention Center in Seattle WA). Despite its decline, the transportation terminal category did include the June start of the new $374 million North Concourse terminal at Reagan National Airport in Arlington VA.

**KRIS SCHELLER JOINS EXTOL OF OHIO INC. AS MIDWEST TECHNICAL SALES REPRESENTATIVE**

Kris is a graduate of Indiana University with a degree in Business Management. Originally from Evansville, Indiana, Kris now resides in Carmel, Indiana with his wife, Molly and their 2-year-old son, Max, with a daughter expected in November.

Kris brings over 10 years of industrial sales experience to Extol and will focus on account management and development throughout the Midwest. In his spare time Kris enjoys traveling, playing golf and spending time with his family. He is an avid IU basketball fan!

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**DODGE MOMENTUM INDEX MOVES HIGHER IN JUNE**

<table>
<thead>
<tr>
<th>Dodge Momentum Index (Year 2000=100)</th>
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<tbody>
<tr>
<td><strong>Jun-18</strong></td>
</tr>
<tr>
<td>Commercial Building</td>
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<tr>
<td>Institutional Building</td>
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Source: Dodge Data & Analytics

NEW YORK – July 10, 2018 – The Dodge Momentum Index grew 0.8% in June to 165.5 (2000=100) from the revised May reading of 164.2. The Momentum Index is a monthly measure of the first (or initial) report for nonresidential building projects in planning, which have been shown to lead construction spending for nonresidential buildings by a full year. In June, the commercial component of the Momentum Index moved 1.1% higher, while the institutional component eked out a 0.3% gain. June’s advance marks the fifth straight monthly increase for the Momentum Index, which is now nearing a ten-year high, and suggests that the moderate strengthening of construction activity currently underway will continue through the end of 2018. At the same time, the gains for the Momentum Index during the most recent two months have been considerably smaller than what took place from last October through April, returning to a pace more consistent with the gradual expansion that’s been present since the recovery began back in 2011.

In June, 13 projects each with a value of $100 million or more entered planning. The two leading commercial projects were a $300 million hotel in Orlando FL and a $225 million warehouse in Rialto CA. The leading institutional projects were the $349 million outpatient medical facility in Richmond VA and a $200 million hospital in Venice FL.

**ARMAFIX® ECOLIGHT MADE BY ARMACELL: INSULATION PIPE SUPPORT WITH ENVIRONMENTALLY-FRIENDLY PET CORE**

Chapel Hill, NC, July 12, 2018 – With ArmaFix® EcoLight Armacell presents a new insulation pipe support to prevent thermal bridging in the sensitive area of the pipe bracket. ArmaFix EcoLight thermally isolates the pipe from its fixing point and protects equipment against condensation and energy losses. The lightweight pipe support with innovative PET load-bearing core can be installed simply, quickly and neatly.

Pipe support brackets are a potential trouble spot for pipe insulation applications. If the insulation is crushed by the pipe hanger, thermal bridges will occur and condensation forms. Armacell’s new ArmaFix EcoLight pipe support solutions protect the insulation from being crushed or damaged, maintaining the thermal integrity of the system. Advantages of the system:

- Prevents thermal bridging.
- Matches Armacell insulation sizes.
- Self-sealing, fast and easy to install.
- Lightweight, yet durable.
- PET core with 100% post-consumer recycled content.
- Designed for use with ArmaFlex pipe insulation.
- Strengthen the weakest link in the chain!

In typical pipe hanger applications, the pipe is not thermally isolated from the pipe bracket causing thermal bridges to occur and condensation to form. This leads to increased energy losses and a higher risk of corrosion and expensive secondary damage. ArmaFix EcoLight thermally isolates the pipe and bracket from each other. Together with the adjoining ArmaFlex material it forms an insulation system with long-term reliability. The pipe support consists of a load-bearing 100% recycled PET core sandwiched by flexible ArmaFlex foam. The closed-cell elastomeric insulation material with a high resistance to water-vapor transmission and low thermal conductivity provides reliable thermal protection and condensation control. The load-bearing elements ensure that the flexible insulation material is not compressed by the weight of the pipe compromising the insulation capacity.
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WASHINGTON, DC – The U.S. Department of Labor’s Occupational Safety and Health Administration (OSHA) has announced a delay in enforcing certain requirements of the final rule on occupational exposure to beryllium in general industry. These requirements will not be enforced until Aug. 9, 2018.

The requirements include beryllium work areas, regulated work areas, methods of compliance, personal protective clothing and equipment, hygiene areas and practices, housekeeping, communication of hazards, and recordkeeping.

On June 1, 2018, OSHA published a Notice of Proposed Rulemaking to further extend the compliance dates of the remaining requirements until Dec. 12, 2018.

On May 11, 2018, OSHA began enforcing the permissible exposure limits for the construction and maritime industries, as well as other requirements of the general industry standard. However, the Agency will not enforce any other provisions for beryllium exposure in those standards unless it provides notice. Certain compliance dates outlined in the rule remain unchanged. Enforcement of the general industry requirements for change rooms and showers will begin March 11, 2019, and requirements for engineering controls will begin March 10, 2020.
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JOHNS MANVILLE RELEASES THE FIRST FLEXIBLE R-12 FIBERGLASS DUCT LINER

Johns Manville is proud to announce its release of the first ever flexible fiberglass duct liner with an R-12 thermal resistivity rating. This innovative insulation is designed specifically to meet the new code requirements set forth by the IECC in 2015 that mandate the use of R-12 insulation on ducts in unconditioned spaces in climate zones 5-8.

Johns Manville’s HVAC Product Manager, Brennan Hall, explained that this new three-inch liner should be highly valuable to contractors working in those climate zones. “Prior to our new Linacoustic RC product, single-layer, flexible R-12 duct liner was not an available option for the market. As a result, contractors have been forced to use two layers of insulation to meet the R-12 standard. This is costly in terms of materials as well as labor. Our new R-12 duct liner meets the code in just one layer, and offers the same high-quality performance our customers have come to expect from Johns Manville’s Linacoustic product line,” he said.

Johns Manville’s duct liner is known for being easy to work with and fabricate. Their unique flame-attenuated manufacturing technology creates a fiberglass core that can be processed consistently and efficiently on duct fabrication equipment, like a RotoZip machine or a water jet cutter.

Additionally, this thermally robust duct liner has a glass-mat surface coated with Permacote®, an acrylic, antimicrobial coating designed to help protect the airstream surface. This coating serves a three-fold purpose. First, it helps create a more durable airstream surface. Second, the coating helps guard against dust or dirt entering the substrate, minimizing the potential for microbial growth. Third, the reinforced coating surface provides superior resistance to incidental water penetration into the fiberglass wool core.

For more information on Linacoustic RC, three-inch duct liner, please visit ttp://www2.jm.com/R12PR.

U.S. DEPARTMENT OF LABOR KICKS OFF SAFE + SOUND WEEK ON AUGUST 13TH

WASHINGTON, DC – The U.S. Department of Labor’s Occupational Safety and Health Administration (OSHA) encourages Americans to commit to workplace safety and health by participating in Safe + Sound Week, August 13-19, 2018.
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Over 200 organizations and businesses are partnering with OSHA to promote the importance of safety and health programs. Implementing a safety and health program is one of the most effective ways to reduce injuries and illnesses, and improve business. Effective programs can increase worker satisfaction, improve productivity, and reduce costs associated with workplace injuries.

Participating in Safe + Sound Week is easy. Organizations of any size or in any industry looking for an opportunity to show their commitment to safety can participate. Start by visiting www.osha.gov/safeandsoundweek for more information, resources, and tools to help plan and promote safety events.

U.S. DEPARTMENT OF LABOR RESCINDS 2016 PERSUADER RULE

WASHINGTON, DC – The U.S. Department of Labor has rescinded the 2016 Persuader Rule, which exceeded the authority of the Labor-Management Reporting and Disclosure Act (LMRDA). The Persuader Rule impinged on attorney-client privilege by requiring confidential information to be part of disclosures and was strongly condemned by many stakeholders, including the American Bar Association. A federal court has ruled that the Persuader Rule was incompatible with the law and client confidentiality.

"For decades, the Department enforced an easy-to-understand regulation: Personal interactions with employees done by employers' consultants triggered reporting obligations, but advice between a client and attorney did not," the Office of Policy's Deputy Assistant Secretary Nathan Mehrens remarked. "By rescinding this Rule, the Department stands up for the rights of Americans to ask a question of their attorney without mandated disclosure to the government."

U.S. DEPARTMENT OF LABOR ANNOUNCES GRANT TO HELP WOMEN ENTER APPRENTICESHIPS, EXPAND JOB OPPORTUNITIES

The U.S. Department of Labor announced the availability of funding to help recruit, train, and retain more women in quality pre-apprenticeship and apprenticeship programs, and pursue careers in manufacturing, infrastructure, cybersecurity, and healthcare, among other industries. The Women in Apprenticeship and Nontraditional Occupations (WANTO) grant helps to expand pathways for women to enter in, and lead in, all industries.

"Under President Trump's leadership, we have seen a record number of job openings in the United States," said U.S. Secretary of Labor Alexander Acosta. "We must continue our efforts to maximize opportunities for women to enter apprenticeship programs and secure good, family-sustaining jobs."

The Bureau of Labor Statistics reports that in 2016, the year for the most recent data available, women accounted for more than half of all workers within several industry sectors, including education and health services (75 percent), financial activities (52 percent), and leisure and hospitality (51 percent). Women accounted for less than half in several industry sectors, including manufacturing (29 percent), agriculture (25 percent), transportation and utilities (24 percent), mining (13 percent), and construction (9 percent).

Women account for less than 10 percent of individuals enrolled in apprenticeship programs.

The WANTO grant program will award at least $994,000 to community-based organizations to encourage women's employment in underrepresented occupations and pre-apprenticeship and apprenticeship programs. Grants will be awarded to up to six recipients. Organizations applying must provide one or more of the following types of technical assistance:

- Developing pre-apprenticeship, apprenticeship, or nontraditional skills training programs to prepare women for those careers;
- Providing ongoing orientations for employers, unions, and workers on creating a successful environment for women to succeed in those careers; and
- Setting up support groups and facilitating networks for women to improve their retention.

The 2018 grants are administered by the Department's Women's Bureau and the Employment and Training Administration. Visit the Women's Bureau for more information.
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