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INDUSTRY CALENDAR

World of Concrete

Education: June 7-10, 2021 Exhibits: June 8-10, 2021 Las Vegas, NV <u>Registration</u>

CIM Auction June 9, 2021

ASCC Concrete Executive Leadership Forum

July 15-18, 2021 Fairmont Orchid, Waimea, Hawaii <u>Registration</u> <u>Brochure</u> <u>Hotel Information</u>

ASCC Annual Conference September 23-26, 2021 St. Louis, MO

Welcome New Members

- Mika Mack, North Pole, AK
- SPG-Gomarsall, Wilmington, NC
- Supportworks, Papillion, NE
- Valley Concrete and Construction, Bernardston, MA

ASCC MIX Group Orientation November 4-6, 2021 Phoenix, AZ

Safety Summit November 12, 2021 Houston, TX

Gaining Strength Award Presented by the Emerging Leaders Committee

Individuals 40 and under, employed by ASCC member companies, who set themselves apart from their colleagues by involvement in local and national industry organizations, as well as day to day performance within their company, are eligible to be nominated. This award is to acknowledge up and coming individuals within member companies who go above and beyond to promote and professionally represent the concrete industry, through their actions in their company and through industry organizations. **Submittal deadline is June 30, 2021.**

The Terry Fricks Floor Excellence Awards

The first awards program to recognize outstanding floor installations around the world. First and second place winners may be selected in each of ten categories and one Best of Show will be awarded. **Submittal deadline is July 1, 2021**. Awards will be presented at the Annual Conference in September.

Message from the Executive Committee

Moving Forward Chris Klemaske, Vice President

Two weeks ago my husband Byron and I attended a ribbon cutting for Olympus Park in Encinitas, California. This day was important to us in so many ways; it is a beautiful park and it was a beautiful day to get back outside. Our daughter Amanda, a landscape architect with RRM Design Group, started this project 3 1/2 years ago. She not only headed up the design for the park but was also the project manager. In addition, she gave birth to two of our grandsons during that time. We are obviously very proud of her, and our grandsons Beau and Rocky love their Momma's Park.

One of the features of this park is a very steep slope covered with artificial turf with a protective surface underneath. It reminded me of when I was a kid and we would get a block of ice, take it to the park and slide down the grassy hills. We sat for a long time and watched around 20 kids and adults navigating the slope. Some were very tentative in how they approached the incline. Others ran and flew through the air and down the slope. Some rolled down, others went feet first or headfirst. Some screamed with joy; others sat by and observed. We watched as they got even more creative, using cardboard in order to go faster. Some even stood up on the cardboard and surfed down the slope.

To me this seemed like a perfect metaphor for what we're currently experiencing in adult life. This last year dealing with COVID has changed us all, and each of us has handled it in our own very personal way. With everything opening back up we all have decisions to make about how we navigate this slippery slope. What I loved about watching the kids is that no one judged how the other one chose to experience the slope. And, in most cases, they were inspired by what they saw others doing. It's a good lesson for grown-ups.

How are we going to move forward? I, for one, have decided to attend a concrete industry event this month in Key West and the World of Concrete in June. I'm looking forward to re-engaging in our industry and what better place to start. I look forward to seeing you and other colleagues that I haven't seen in way too long. The ASCC has done a phenomenal job during this pandemic. For those of you that are ready to engage and move forward there are two ASCC events that you will

want to consider. First is CELF July 15-18 at the Fairmont Orchid in Waimea, Hawaii. CELF is always a worthwhile event filled with inspirational and educational speakers as well as family and group events. I highly recommend attending. Second is the ASCC Annual Conference, September 23-26 in St. Louis. This is a perfect opportunity to reconnect and let the networking begin! Hope to see you at both of these events.



Executive Director's Message

Committee Week Highlights Bev Garnant

Committee Week went on without a hitch. We're getting to be pros at virtual meetings and had great attendance and participation. Thanks to all of you who visited with us for the first time.

Let's start with a Safety Moment. Three different contractors shared stories of serious electrical accidents where an object or piece of equipment came into contact with power lines and arced to the operator/carrier. One person shared that he had never before felt that he might go home that night with one less team member than had started the day. Fortunately that didn't happen. The three who shared these stories all credited them to not taking the time to be fully aware of surroundings.

- The Paving Committee will have an article authored by Tipping, Beagley, P Ruttura, and Suprenant, "Establishing Thickness Tolerances for Slabs-on-Ground" published in the July issue of ACI's *Concrete International*. The article addresses the issue that ACI 330 Parking Lots and SitePaving is questioning the applicability of ACI 117 tolerances to S-O-G with one- and two- dimensional top and bottom surface slopes that handle drainage for exterior parking lots.
- Membership discussed the successful new Member Benefits Roundtable, designed primarily, but not exclusively, for new members. They also played with the idea of additional virtual RTs, including a series to focus on contractor best practices.
- The SRMC announced it will be producing a Tool Box Talks document with 52 messages written specifically for decorative and polishing contractors.
- In the Technical Committee meeting it was agreed we should produce a new Position Statement on vertical surfaces, based on the same premise as P.S. #6, "Division 3 versus Division 9 Floor Flatness Tolerances."
- Discussion at the CPC board meeting on many fronts revolves around the new ACI 310.1-20 specification for polished concrete slab finishes; primarily spreading the word to both contractors and the design/specifier community.
- The Annual Conference and CELF committees are excited to be planning real, in-person, live events and look forward to welcoming you to Hawaii and St. Louis (very similar destinations except Hawaii does not have an Arch, sorry) for great educational and networking opportunities.
- Among many other items the office will be reopening May 25, and we'll all be in our seats waiting to answer your calls and requests!

Concrete Construction Specialist

Getting the Record Straight on Substrate Jim Klinger

Here at your ASCC Technical Division, much of our work product is created in response to concrete construction substrate acceptance issues disclosed by members via hotline calls or prompted by Email Forum posts.

Sometimes, for example, a concrete floor slab substrate has been deemed unacceptable by a follow-on subcontractor; a flooring installer perhaps. (Whether or not that decision has been rendered to the member in a timely manner might turn out to be a borderline questionable proposition).

At other times, a member might request an interpretation- a second opinion- of ambiguous construction document provisions before submitting a bid. This consultation is requested so the member's bid can be crafted to anticipate and then meet the owner's substrate expectations at a mutually agreeable price.

And sometimes the member's substrate dilemma is totally self-inflicted. In these cases, we attempt to develop a sensible substrate repair plan or even help draft a request for the owner to accept the as-built; arguing that the member's installation is in a fit-for-purpose, acceptable condition.

The scenarios described above primarily involve acceptance of our completed substrate work by

others. On the other hand, at least once on every project, we-- the concrete contractor-- are placed in the position of having to accept a substrate that has either been installed or prepared by others before our work can begin. Based on experience, it's fair to say that many difficulties surround the mechanics of accepting substrate installed by others.

Below are a few examples that illustrate various substrate issues that have recently come across the transom which feature acceptance--by the concrete contractor—of another contractor's work product. And, as any veteran concrete contractor can tell you, one of the most hazardous features of a double-edged sword is that it is an equal-opportunity blade that can slice both ways.

Concrete Mat Slab Foundation (Earthwork Substrate)

- Tolerances for top of subgrade substrate elevation are typically found in Division 31 specifications (formerly Division 2), civil/shoring drawings or the project geotechnical report. Rule of thumb: rough grade tolerance of plus or minus 0.1 ft., assuming a mud or working slab will be installed on top of the prepared substrate. In rare cases where the mat is placed directly on top of the subgrade, the plus tolerance would be 0.06 ft (the ACI 117 slab thickness tolerance of minus ³/₄ inch would govern).
- Prior to accepting the earthwork substrate, insist on receiving a licensed surveyor's certification drawing confirming the pad has been graded within tolerance, including at all contours, slopes and elevation changes. Also, request certification that the geotechnical engineer has signed off on the pad substrate preparation before taking ownership and starting concrete work.
- For pad substrates with constant elevation, spot-checking can easily be self-performed using typical survey layout instruments. Access to a laser scanner is another efficient way to check the quality of the substrate preparation and, if needed, to run a reasonably accurate volume calculation for actual concrete quantity required for the mud slab. If the scan indicates the substrate is low and will require extra concrete, suggest submitting the scan results to the GC in a timely manner for review by the earthwork sub and/or the surveyor.

Perimeter Sheeting and Shoring (Soldier Pile/Lagging Substrate)

- This condition assumes there are several levels below grade, and that concrete foundation walls are either CIP or shot against a waterproofing membrane attached to the shoring substrate.
- Tolerances for placement of the shoring system are typically included in the general drawing notes prepared by the shoring specialty engineer. For soldier piles, assume a tolerance of 2 inches (away from the structure) and zero tolerance for mislocated substrate encroaching on the nominal design thickness of the structural concrete foundation walls.
- Similar to the earthwork substrate, insist on a certified survey confirming the as-built location of the shoring system before starting work. In cases where the shoring system substrate encroaches on the wall thickness, the structural engineer will need to know straightaway. Changes to the wall reinforcement, concrete strength, or formwork may be required by the LDP. Relocation of the substrate is generally not an option.
- Attempting to spot-check several levels of shoring substrate behind the surveyor is typically impractical to self-perform. This is another time when a laser scanner can quickly determine if the substrate is installed correctly, and-- if needed-- can quickly run a volume calculation for actual concrete quantities required to place the foundation concrete walls.
- In most cases where several levels of substrate below grade require waterproofing, the waterproofing consultant should also certify the waterproofing installation is acceptable before accepting the substrate and starting the concrete scope.

Structural Steel Buildings (Metal Deck Substrate)

• According to ACI 117-10, section 4.4.1, there is actually no tolerance requirement for location of top of concrete slab placed on a metal deck substrate. This is one work scope where almost all of the slab formwork typically installed by the concrete contractor (e.g. soffits and slab edges) are now installed in sheet metal by others. Responsibility and risk

associated with tolerances for slab edge locations, opening sizes/locations and other substrate features are also shifted outside of the concrete contractor's scope.

- In some cases, the timing of acceptance of a metal deck substrate by the concrete contractor can come into play, especially in the case of multi-story buildings. Consider the case of the ASCC member who bid a multi-story deckfill pump-place-finish project assuming the floors would be placed using a 25 percent flyash mix during the summer. After schedule delays pushed the work into the winter, the member's labor costs to install the work increased dramatically. The cold, plus the fact that the decks below roof level were shaded from direct sunlight, meant longer than anticipated crew days. In this case, the contractor accepted the substrate, but used ASCC Position Statement #15 "Setting Time Expectations for Hard-Troweled Concrete" to substantiate his request for change order to cover costs associated with crew overtime and accelerating admixture.
- Another metal deck substrate booby trap is one that actually needs to be neutralized during bid time, long in advance of the work. This one involves design call-outs in many project specifications requiring metal deck panels to be vented, presumably with the idea that allowing mix water to drip through the deck somehow enhances the application of follow-on flooring. In a Position Statement issued by the Steel Deck Institute, the SDI explains that--in most cases-- vented deck is not required, and slabs on metal deck should be considered similar to slabs-on-grade placed on vapor barrier when assessing potential moisture issues. For the concrete contractor, vented deck adds labor costs to the project for clean-up during and after placements. It is in the owner's best interest for the concrete contractor to question the need for this particular substrate item during bid time.

Foundation Mat Reinforcing Steel (Waterproofing Substrate)

On some projects, a protection slab or protection board is specified to protect a
waterproofing membrane from damage during installation of reinforcing steel and other
follow-on work installed by multiple trades. On other projects, the mat slab reinforcing steel
is placed directly on top of the waterproofing membrane substrate. Despite all good
intentions, damage to the membrane substrate inevitably occurs when tons of reinforcing
steel bars are placed production-style on schedule-driven projects. Suggest writing a
qualification clause in bid proposal letters that excludes the cost of such "trade damage"
and instead request the owner carry an allowance to cover repairs of incidental damage to
the waterproofing membrane substrate. If this approach is unsuccessful, suggest
photographing the entire surface of the waterproofing membrane prior to accepting the
substrate and then carefully monitoring the work of all trades (rebar, electrical, plumbing)
who can possibly contribute trade damage. Since the backcharge costs to repair
waterproofing substrate can quickly escalate, this topic should be discussed with all parties
—including the waterproofing inspector-- during the preconstruction conference and before
the concrete contractor accepts the substrate.

Concrete Polishing Council

Supply Chain Crisis Scott Metzger, council director

You might recall that in my March column I discussed an impending supply chain crisis for raw materials used in construction products, primarily resulting from the winter weather event that struck Texas and the Gulf Coast. At the time, I believe most manufacturers understood there would be some short-term pain, while petroleum-based feedstock suppliers attempted to repair damage and restore production. As it has been conveyed to me, restoring production can be somewhat smooth after a "planned" shutdown. But when a plant goes offline due to an unplanned shutdown, all kinds of damage and chaos can ensue. By all appearances that's exactly what happened. Somehow "May should be normal" has slid to "July or August should be good." For construction supply manufacturers and users, this could truly end up being a cruel, cruel summer.

During the recent ASCC Committee Week, "supply chain" was a frequent topic of discussion at virtually all meetings. It seems that manufacturers need one or more raw materials or physical components; preventing them from producing at anything near normal capacity. Indeed, many manufacturers I spoke with had 99% of what they needed to produce. But absent that last 1%, nothing could ship out the door. I heard stories of chemical manufacturers finally being able to produce product, only to find themselves short of plastic pails or cartridges to down pack.

Equipment manufacturers with dozens of nearly completed machines are often waiting for a simple circuit board or some other miscellaneous widget to complete a build. And oftentimes, once finished goods are produced, the next challenge becomes a lack of transportation options or truck drivers to get the product to the buyer. It's truly a mess out there! In an post-Covid economy that seems to be heating up very quickly, it appears that as a country we may have pushed our luck just a bit too far when it comes to enjoying the efficiencies of "just in time" inventory systems.

While some of this current crisis was brought on by "once in a lifetime" events, make no mistake, our country's supply chain has proven itself extremely fragile, and was showing that even prior to the pandemic. Catastrophic weather events aside, clogged shipping ports, lack of trade laborers, lack of truck drivers – these problems will not disappear overnight, and will doubtlessly continue to compromise the production and movement of finished goods. Moving forward, I believe the contracting community must get used to the idea that longer range planning in ordering materials and supplies will become critical to ensuring that projects run smoothly and on time. We seem to be leaving the world of "yes, we have that in stock" entering a new reality of "it's a 6-8 week lead time." How we plan for these potential supply chain issues, and navigate shortages and substitutions, will surely be a hot topic for the weeks, months, and possibly even years to come...

Decorative Concrete Council

World of Concrete 2021 Chris Sullivan, decorative concrete specialist

World of Concrete, our annual trade show held in Las Vegas, will take place June 8 – 10. Informa, the company that owns and produces the show, received a waiver from the State of Nevada and City of Las Vegas to host the show in June. This is the rescheduled event from the original date of January 2020. The event is the first major trade show to be hosted in Las Vegas since the city shut down February 2020. It is also the inaugural show for the new Las Vegas Convention Center (LVCC) West Hall expansion.

The \$980 million West Hall Expansion added 1.4 million square feet, including 600,000 square feet of new, leasable exhibit space, a 14,000-square-foot outdoor terrace able to hold receptions with up to 2,000 attendees, and a grand atrium. Another exciting new feature is the underground transportation system that will include three passenger stations connecting the existing 3.2 million square-feet of convention space with the new West Hall. The system will allow attendees to be moved across the campus in just over one minute, free of charge, in all electric Tesla vehicles. The entire system should be functioning by World of Concrete January 2022.

As part of the reopening of the convention center, Informa has instated new safety measures. "The program, AllSecure, includes a detailed set of measures developed collaboratively with industry associations, event organizers, and venues, World of Concrete aims to deliver the highest levels of hygiene and safety at its event, providing everyone with confidence they are participating in a safe and controlled environment. Please read below for complete details on the safety requirements needed to enter the event, along with safety and hygiene measures guests can expect." For more information check out the web site.

Understanding the event is being held in the height of the construction season attendance will probably be lower than the traditional winter shows. Either way, it is good to be getting back to inperson events with another step toward post-COVID normalcy. As a member of ASCC you are entitled to a discount rate by using code "A20" when registering.

Post COVID Greeting? Jeff Eiswerth, DCC council director

My family and I are fortunate in where we live. It's a house at the end of a cul-de-sac, with a large park at the end of the street. There are four baseball fields, six soccer/lacrosse fields, walking paths/trails, a playground and even a pond. In the 15-plus years we have lived here I stopped noticing the noise from the park. Many people who live near railroad tracks say they just don't hear the trains after a while; it's the same kind of thing.

But the other day I was outside and did notice noise from the park. Then it hit me. I noticed it

because I have actually not heard it for the last year. I could hear kids screaming, playing and laughing. Boy what a welcome sound.

Knowing the park was open I signed my son up for a three-week soccer skills camp . At his first practice I noticed the parents, myself included, standing around and being respectful of each other's space. Several of us had our hand sanitizer, not knowing what to expect. A few people had masks available. After about 20 or 30 minutes of talking on the sidelines we all seemed to naturally gravitate toward each other. No one seemed to be alarmed. But awkward conversations ensued about how to react to each other in public. Even though many of us know each other, we have not seen each other in many months. Do we shake hands, hug, fist bump or elbow bump? No one wants to offend, be disrespectful or alarm anyone.

My hope is that you, your family, friends, colleagues and neighbors can start living a new normal life. Life is too short. We all know the government is not following the science with respect to COVID, but that is a discussion for another day; maybe my next article. But for now, it was damn fine to be outside, enjoying adult company, and watching kids play and have fun. And for whatever it's worth, we decided on a fist bump.

Safety & Risk Management Council

Be Prepared As Summer Months Approach - Complying With COVID-19 May Increase Chances of Heat Related Illness Joe Whiteman, director of safety services

Listening to ASCC members share lessons and resources during the monthly COVID-19 roundtable, I am constantly amazed and reassured that we as an association and an industry have navigated the exposure and health related challenges well. In fact, as large as the construction industry is, we have done tremendously better than other industries, and at full capacity, as construction was deemed essential in most areas. A few of the reasons for this, I believe: pre-planning activities, identifying risks and hazards, and implementing controls to mitigate hazards. Once the hazards of COVID-19 and routes of exposure were identified, it was easy to incorporate controls into our daily routine. We have done very well overall as much of the construction industry has focused on training, education, and preplanning. That said, with the focus on controls, practices and added layers of PPE, I want to remind you to be prepared for the hot summer months ahead. These same controls could lead to an increase in heat exposure and heat illness if you are not prepared. Use these tips to gauge yourself on your readiness, then train, communicate, and prepare!

- Train employees to recognize the early symptoms of heat related illness. Remember that heat related illness can look and feel like early symptoms of COVID-19 such as elevated body temperature and excessive sweating. Early detection may help reduce the severity of the illness or help identify a COVID-19 exposure early on, allowing you to start testing and contact tracing sooner rather than later.
- New workers may be out of shape, not use to the added layers and PPE requirements to
 protect against COVID-19. Employers should plan, incorporate more training, and allow
 more time for employees to acclimate to the heat.
- Face masks and coverings can impede early detection of heat related illness as part of the face may be covered. To combat this, communication between craftworkers and supervision should be continuous. Encourage employees communication with one another about their physical condition throughout the day.
- Ensure proper space and shaded areas are available for short breaks and that employees remain able to practice social distancing in the workspace.
- It may be beneficial to expand emergency response and first aid training to more than just a few designees on the project or crew, as we run a greater risk of this hazard and the challenge of being able to identify symptoms.

If we plan and train accordingly, and allow for the above-mentioned precautions, we can do our part to provide a safe and healthy workplace. Should you have any questions, please feel free to



Concrete Industry Management (CIM) Program Seeks Donations for 2021 Auction at World of Concrete

The Concrete Industry Management (CIM) program – a business intensive program that awards students with a four-year Bachelor of Science degree in Concrete Industry Management – is seeking donations for their 2021 CIM Auction to be held at World of Concrete. The auction is scheduled for Wednesday, June 9, 2021 at the Las Vegas Convention Center. The silent auction

will be held from 11 a.m. to 1 p.m. and the live auction begins at 1 p.m.

"The proceeds from the 2021 CIM Auction will benefit the CIM National Steering Committee (NSC) and support the current CIM programs at Middle Tennessee State University, New Jersey Institute of Technology, Texas State University and California State University – Chico, the Executive MBA program, as well as help fund scholarships," said Ben Robuck, Chairman of the CIM Auction Committee. "Industry support is needed more than ever with the addition of South Dakota State University, who will be joining the CIM family of schools beginning fall 2021."



HOTLINE QUESTIONS

CONCRETE CONSTRUCTION Jim Klinger ascchotline@ascconline.org 800 - 331 - 0688

POLISHED CONCRETE Chris Sullivan csullivan@ascconline.org 844 - 923 - 4678 SAFETY & INSURANCE Joe Whiteman jwhiteman@ascconline.org 833 - 281 - 9602 DECORATIVE CONCRETE

Chris Sullivan csullivan@ascconline.org 888 - 483 - 5288

ASCC members have access to these toll -free numbers for assistance.

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