

# Masonry Industry Resources & Opportunities

Masonry Educator's Workshop  
June 21, 2022

Panel Discussion

AIA/CES Course: TMSMEW2204



# Panel Members

- Cortney Fried (Brick Industry Association)
- Jerry Painter (Mason Contractors Association of America)
- Brian Trimble (International Masonry Institute)
- Steven Judd (Western States Clay Products Association)
- Nick Lang, (National Concrete Masonry Association)

# Masonry Industry Organizations & Website Resources

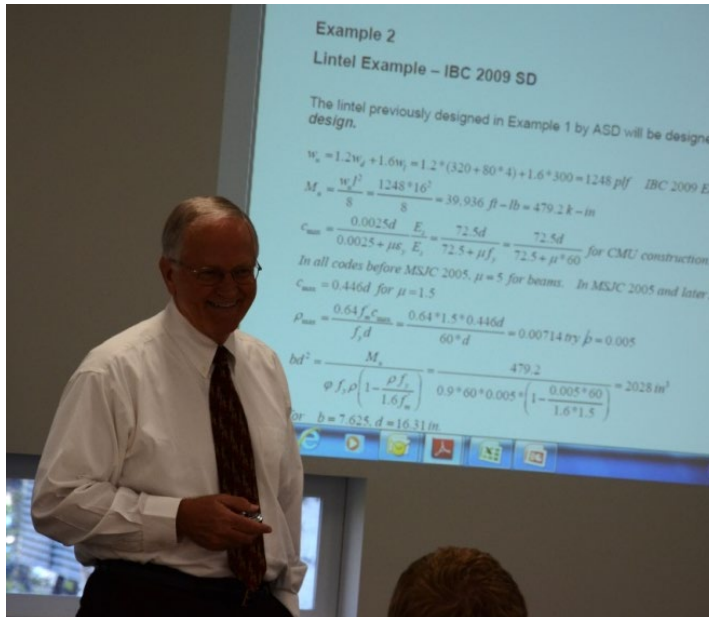
- The Masonry Society, [masonrysociety.org](http://masonrysociety.org)
- National Concrete Masonry Association, [ncma.org](http://ncma.org)
- Brick Industry Association, [gobrick.org](http://gobrick.org)
- Western States Clay Products Association, [brick-wscpa.org](http://brick-wscpa.org)
- Portland Cement Association, [cement.org](http://cement.org)
- Mason Contractors Association of America, [masoncontractors.org](http://masoncontractors.org)
- International Masonry Institute, [imiweb.org](http://imiweb.org)
  
- Regional, Local Promotion Groups

# Resources for you & your students?

- Online Resources – Technical Notes, Details, & much more!
- Assistance in the Classroom – guest lecturers, materials, tours, etc.
- Sponsorships and Scholarships
- Research assistance
- Awards

# Guest Lecturers

- Ask! We love to work with students!



# Assistance with Books & Resources for your classes?

- Many materials are now freely available online
  - BIA, NCMA, IMI Technical Notes
  - Details
  - Technical Reports from Conference Proceedings & TMS Journal Papers
  - Many Committee Reports, Monographs, and Aides
- PowerPoint & Videos increasingly being posted
- Education Hub: <https://learn.masonrysociety.org/>
  - New, but great content with over 40 sessions already
  - More content being added almost monthly

# Assistance with Books & Resources for your classes?

- For books for your students,
  - Some local masonry groups and producers can order books for students at discounted prices
  - Others will help pay a portion of the books for students
  - Others may buy the books and donate them to the students
- TMS also offers some desk copies and student discounts
- Electronic Student Memberships available

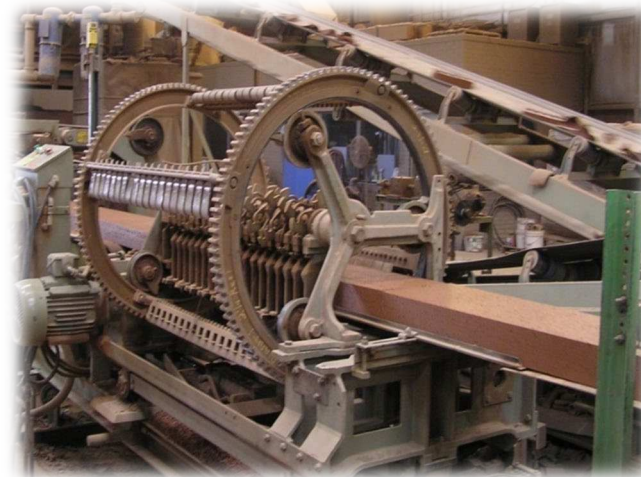
# Masonry “Materials” for the Classroom or for Research Projects

- Again, producers and local masonry promotional groups are often willing to help:
  - May provide the materials and or labor at discounted prices (often at no cost)
  - Great as “sounding boards”. The producers and contractors often have key insight and great ideas on how things are done practically in the field, which helps in planning research projects



# Plant Tours and Site Visits!

- Manufacturing Plants and Job Sites are often open for tours for students
- Great way to see, learn, & gain contacts



# If you can't leave campus, let us come to you....

- Guest Lectures
- Masonry Days
- Mock Ups
- Student Competitions
- Lay a brick
- Etc.



# Faculty Research Grants

- We know this is very important, and are looking for ways to offer assistance
- Always start local & be mindful of industry needs
- The national/international groups want to know that the proposed work is supported, practical, and how it could enhance their markets
- Non-industry groups such as NIST continues to fund projects, but are much more restrictive
- Ideas?

# Masonry Research & Student Support

- NCMA Foundation
  - Working to advance and support the concrete masonry and hardscape industry and the public interest through research and educational programs designed to meet the future needs of the industry. Scholarships available for both engineering and architecture students
- PCA Fellowships on Concrete and Masonry
- MCAA Foundation
- TMS James L. Noland Student Fellowship
  - \$3000, for Master's Students or Doctoral Candidates
- TMS Clayford T. Grimm Scholarship
  - \$1000 annually, targeted towards Master's Level Students
- Local Scholarships
- Other

# National Concrete Masonry Association

- Technical Resources
  - [Ncma.org/resources](https://ncma.org/resources)
- Online education
  - [ncma-cpu.org](https://ncma-cpu.org)
- Technical assistance
  - [Call or email](#)



# NCMA Education and Research Foundation

[Ncma.org/foundation](http://Ncma.org/foundation)

- Research Grants
- Education Grants
- Design Competitions
- Scholarships
  - John & Marlene Heslip – Architecture
  - Paul & Helen Lenchuck - Engineering



# Brick Industry Association

- Technical Resources: <https://www.gobrick.com/read-research>
  - Technical Notes on Brick Construction
  - Brick Briefs
  - Why Choose Brick? - <https://www.gobrick.com/why-choose-brick>
- Project-specific Questions: Contact us directly via phone or e-mail
- Online Education: <https://www.gobrick.com/attend-learn/aia-continuing-education>
  - Thin Brick Veneer Wall Systems
  - Unique Brick Architecture
  - Article-based courses
- Brick In Architecture Awards: <https://www.gobrick.com/awards>



**MCMA**

**MASON CONTRACTORS ASSOCIATION OF AMERICA**

**MASONRY**

*[ The Mason Contractors Association  
of America Established in 1950 ]*



# Content Sourcing

- *Masonry Magazine* is the industry's trusted publication focused on topics such as **masonry resiliency, materials, maintenance, BIM-M, case studies, business management, careers/workforce**, and more
- Masonry and design experts interested in contributing content are welcome
  - Please contact **Isa Stein**, MCAA Multimedia Production Coordinator, at **[iStein@MasonContractors.org](mailto:iStein@MasonContractors.org)**



Mentoring For The Future



Differentiating Yourself Through Quality Design



Instilling Company Values

# Technical Resources and Articles

- **PDF Downloads** of masonry materials, systems, and technical manuals
- **Spec Sheets** that detail and guide on specific products and handling
- **Library of technical notes** on masonry and concrete masonry construction

- **BIA Technical Note 30 - Bonds and Patterns in Brickwork**
- **BIA Technical Note 31 - Brick Masonry Arches**
- **BIA Technical Note 31A - Structural Design of Brick Masonry Arches**
- **BIA Technical Note 31B - Structural Steel Lintels**
- **BIA Technical Note 31C - Structural Design of Semicircular Brick Masonry Arches**
- **BIA Technical Note 36 - Brick Masonry Details, Sills, and Soffits**
- **BIA Technical Note 36A - Brick Masonry Details, Caps and Copings, Corbels and Racking**

- Have a technical question? Need assistance with your project?
  - **Submit a technical question** at [MasonContractors.org/Masonry-MailBag/](https://MasonContractors.org/Masonry-MailBag/)

# Live Webinars and On-Demand Education

- **Live Webinars** are open to everyone
  - The topics for sessions range from brick benefits to masonry safety
- **On-Demand Education** is free to members
  - Reliable source to learn about the essentials of masonry, sustainability, fire-resistance attributes & resiliency, and more



*Are Masonry's Passive Fire Resistance Attributes & Resiliency Being Overlooked?*



## **Benefits of Brick** **07/14/2022**

Non-Member Price: **Free!**

**Member Price: Free**

**Credit: 1.0 Type: Masonry Products**

Like most in the industry, our passion is brick. From the strength and longevity to the beauty and timelessness, we could go on...

**WHEN: 7/14/2022 10:00:00 AM**

**TILL: 7/14/2022 11:00:00 AM**

# Safety Leaders Meetings

- A **quarterly meeting** with safety directors and foremen/administrators at mason contracting companies
- Topics are **created by MCAA members** and range from heat safety to the use of ladders on jobsites



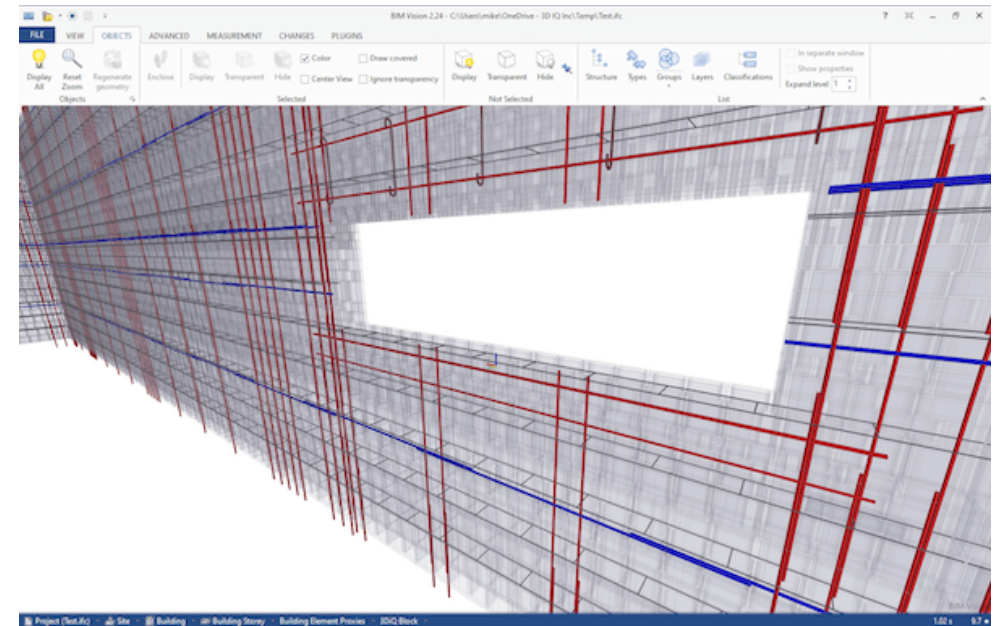
# American Institute of Architecture Students (AIAS) and Technological Advancements

- MCAA sponsored the 2022 AIAS FORUM Conference and presented on the topic of technology advancements and work
  - **PHOTOGRAMMETRY**
  - **360 PHOTOGRAPHY**
  - **VIRTUAL REALITY**
  - **AUGMENTED REALITY**
  - **ARTIFICIAL INTELLIGENCE**



# Building Information Modeling For Masonry (BIM-M): Our Ticket To The Future

- **Technology. We love it. We hate it.**
- Models are like a dress rehearsal of your work
- The scale of projects that use Virtual Design and Construction (VDC) teams is decreasing
- A good model will give you *an exact production order, locate field cuts at openings, become the basis for shop drawings, give exact cell locations, and more*
- With such tools, architects can design and look for content without reps in the office or physically leaving



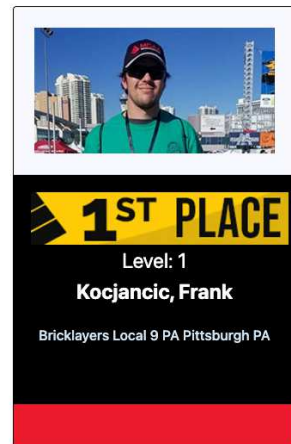
# World Of Concrete



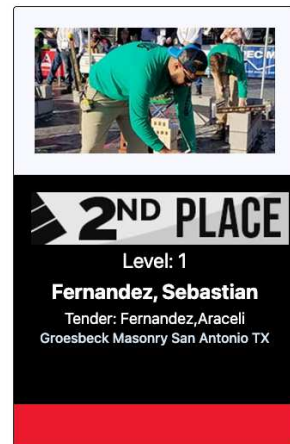
- WOC is the only international event dedicated to the commercial concrete and masonry construction industries
- **MCAA Sponsored Events:** Skills Challenge, Fastest Trowel On The Block, and South Of 40



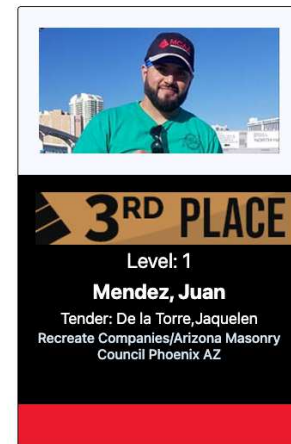
## MCAA's Masonry Skills Challenge 2022



**1<sup>ST</sup> PLACE**  
Level: 1  
**Kocjancic, Frank**  
Bricklayers Local 9 PA Pittsburgh PA

A vertical award card for the 1st place winner. It features a photo of Frank Kocjancic in a green shirt and cap. The text is white and yellow on a black background.

**2<sup>ND</sup> PLACE**  
Level: 1  
**Fernandez, Sebastian**  
Tender: Fernandez, Araceli  
Grosbeck Masonry San Antonio TX

A vertical award card for the 2nd place winner. It features a photo of Sebastian Fernandez in a green shirt and cap. The text is white and yellow on a black background.

**3<sup>RD</sup> PLACE**  
Level: 1  
**Mendez, Juan**  
Tender: De la Torre, Jaquelen  
Recreate Companies/Arizona Masonry Council Phoenix AZ

A vertical award card for the 3rd place winner. It features a photo of Juan Mendez in a green shirt and cap. The text is white and yellow on a black background.

# Midyear Meeting

- Annual commencement of masonry fellowship
- Opportunity to connect with suppliers and like-minded industry professionals
- The 2022 Meeting is at the **Grand Geneva Resort & Spa in Lake Geneva, WI**
  - Sunday, August 14 – Wednesday, August 17



## Midyear Schedule Includes:

- 🍷 Opening Reception and Dinner
- 🎉 Chairman's After-Hours Party
- 👥 Committee Chair Meeting
- 🏌️ MAC PEC Golf Outing
- 🗨️ Supplier Speed Dating
- 💡 Contractor Round Table Discussions
- 🏆 Masonry Hall of Fame Awards
- And more! 📺 🚗





Connect with MCAA



MCAA



MASONRY

# International Masonry Institute

- Technical resources ([www.imiweb.org](http://www.imiweb.org))
  - Masonry Detailing Series (MDS)
  - How-to guides on designing masonry in RISA and RAM Elements
  - Weekly webinars on architectural and engineering topics
- Hands-on opportunities at IMI/BAC training centers
- Masonry Camp (returning in 2023)
- JBC Masonry Innovation Competition



# International Masonry Institute

- Joan B. Calambokidis Masonry Innovation Competition challenges practicing and aspiring architects and engineers to advance the future of masonry design and construction.



A total of \$30,000 in prizes across 3 entry categories are available:

- Students (undergrad and grad enrolled in a design, architecture, or engineering program) - \$5,000 awarded to student and \$5,000 to the school's program
- Young Architects and Engineers (under the age of 40): \$10,000
- A/E Firms, Individual Architects and Engineers, or Cross-Category Teams: \$10,000

# Western States Clay Products Assn

- Online Technical Resources (<https://www.brick-wscpa.org/>)
- Design Guide for Anchored Brick Veneer Over Steel Studs (new update)
- Notes on the Selection, Design and Construction of Reinforced Hollow Clay Masonry (update in process)
- Design Guide for Structural Brick Veneer
- Fire Endurance Ratings of Clay Brick Masonry
- Various Historical Reference Documents

# Virtual Block Plant Tour

# Panel Discussion

# Certificates of Attendance

## Session: Masonry Materials, Resources and Opportunities

**Code: 4QPD**

- Submit this code through the continuing education link on the workshop resources page
- Select this session from the menu and enter the code shown above (not case-sensitive)

2022 MEW Attendee Resources

**Workshop Streaming Links & Recordings**

Main Workshop Meeting Room - Use the recurring Zoom meeting information below to access the main workshop session each day.

[JOIN MAIN WORKSHOP ZOOM](#)

Meeting ID: 816 0383 0223  
Passcode: 807971

**Concurrent Session Links & Workshop Recordings** - Some presentations on Tuesday and Thursday will be split into concurrent sessions. During this time use the separate zoom links found on the pages below to access those sessions. Workshop recordings will also be posted to these pages.

- Tuesday, June 21st - Concurrent session links & workshop recordings
- Wednesday, June 22nd - Concurrent session links & workshop recordings
- Thursday, June 23rd - Workshop recordings

**Continuing Education**

Use the 4-character codes provided at the end of each session to complete the [continuing education form on this page](#). Certificates of attendance will be available to download at the end of the workshop.