

# The Masonry Society

## *Sustainability E-News*

*Improving with Masonry*

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### SPONSORED EDITION

#### **From The Editor**

It's hard to believe it's November already! And here in the U.S., this is a month that we take pause to reflect on what we are thankful for. I'm thankful for many things, including our generous [Sponsors](#)! *Sustainability E-News* wouldn't exist without you. Would you consider joining them? Information on Sponsorship levels and benefits can be found on the [TMS website](#).

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*NOTE: Inclusion in this newsletter is not an endorsement of the products and materials featured, nor have these products been evaluated by TMS or the editor. Furthermore, the views expressed in the articles featured are those of the article authors.*

#### **GREEN BUILDING NEWS**

The first article below is an interesting case study where brick and limestone masonry were used to create a new envelope over a deteriorated terra-cotta-clad building. ~Tina

#### **Overcladding strategies for institutional buildings**

##### **BUILDING ENCLOSURE MAGAZINE**

Building façades require upkeep and repair over time. These repairs can often be costly and disruptive to building occupants. Overcladding is one method that can be implemented to renew or upgrade the exterior façade while allowing the building to remain in full operation. [This case study](#) looks at overcladding an existing deteriorated terra cotta wall with brick and limestone masonry.

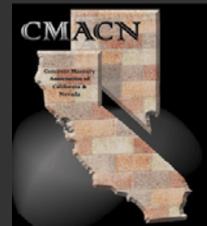
#### **2-story house completed with block-laying robot**

##### **GLOBAL CONSTRUCTION REVIEW**

FBR's Hadrian X block-laying robot has completed work on a two-story house in Perth, Australia. The project marks the first time FBR's technology was used for steel-reinforced concrete columns and a concrete floor slab. [Read more.](#)

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## CODES and STANDARDS NEWS

Building codes can have a positive effect on sustainability and resilient design when they are used as a foundation or represent requirements beyond the minimum code. ~Tina

### **How better building codes can mitigate wildfire devastation**

#### **GOVERNING.COM**

As climate change brings warmer temperatures and dryer winters, the consequences of wildfires are not only more devastating, but the fire season is now months longer across much of the West. California officials recently reported surpassing four million acres burned this year, more than double the state's previous record set in 2018. Building and fire departments have a responsibility to their communities to ensure that new and existing structures in a wildland urban interface area are protected against wildfires. One of the best ways to accomplish this is through adoption and enforcement of rigorous building codes and standards, especially those that go beyond the minimum building code. The International Code Council's International Wildland Urban Interface Code (IWUIC) contains more stringent requirements. [Read more.](#)

### **Washington, D.C.'s energy conservation code includes LEED Zero pathways**

#### **USGBC**

This summer, the new building code for Washington, D.C., went into effect. The new code—known as the 2017 D.C. Construction Code, due to when the code update cycle began—incorporates 2013 ASHRAE 90.1, as amended, as well as the 2015 International Code Council (ICC) family of model codes. The District's energy conservation code amendments establish a new, alternative compliance pathway for net zero buildings, including LEED Zero Energy and LEED Zero Carbon, for both commercial and residential construction. The LEED Zero compliance pathways not only demonstrate the latest achievements in high-performance buildings, but are also essential to reaching the District's goal of carbon neutrality by 2050. Read more [here.](#)

### **New standard supports disclosure reporting to inform building occupant health**

#### **ASTM.ORG**

A [new ASTM International standard, E3182](#), will help the construction industry report potential exposure and related risks from installed building products in an occupied building. ASTM International's sustainability committee (E60) developed the standard to identify reporting elements related to potentially harmful substances in installed building products. This standard could help anyone preparing an occupant exposure screening report (OESR). "Using this information, manufacturers and other stakeholders can determine whether precautions need to be taken with certain installed building products," says Ann Mason, a member of the committee. According to Mason, users will be able to integrate the reporting elements specified in the standard into any existing or new disclosure systems.

## GREEN PRODUCT NEWS

Recent advances in cement and concrete production are lowering their carbon footprint. ~Tina

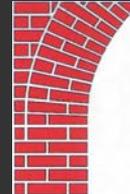
### **Carbon-capture tech to be used at Colorado cement plant**



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## AP NEWS

A cement plant in Florence, Colo., aims to be the first in the US to use carbon-capture technology on a commercial scale. Building materials supplier LafargeHolcim is using a \$1.5 million grant from the US Department of Energy to create a system capable of capturing and sequestering the Colorado plant's carbon dioxide emissions. [Read more.](#)

## New concrete achieves net-zero carbon dioxide

### CHEMICAL & ENGINEERING NEWS

Cemex's eco-friendly Vertua Ultra swaps out limestone-based clinker in favor of an alkali-activated alumina-silicate polymer matrix to create the first net-zero carbon dioxide concrete available worldwide. [Click here](#) to learn more.

## EDUCATIONAL NEWS

It's not too late to participate in the new Masonry Night School *Masonry 101* course! With two weeks remaining, there is a lot of good info still to be covered. Check out the link below. ~Tina

## Register now for Masonry 101 Night School

### THE MASONRY SOCIETY

TMS kicks off a new educational offering, **Masonry Night School**, with a six-session *Masonry 101* course. This evening live webinar program will provide a comprehensive introduction to masonry materials and concepts for those who need a fast-track course, especially new designers and specifiers. Attendees can choose to attend one or more sessions, with discounts for registering for the entire course. [Click here](#) for more information and descriptions of each webinar.

## Registration coming soon for *Strength Design* Masonry Night School

### THE MASONRY SOCIETY

Mark your calendars for the next in our Masonry Night School series: [Strength Design of Masonry](#). Richard M. Bennett and John M. Hochwalt, authors of TMS's newest and best-selling new guide [Strength Design of Masonry](#), will present a six-session Strength Design of Masonry Night School beginning February 3, 2021. Covering topics such as design of beams, design of walls for in-plane and out-of-plane loads, seismic detailing, and connectors, this course provides in-depth instruction for anyone interested in strength design of masonry.

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