

# The Masonry Society

## Sustainability E-News

### Energy Efficient Masonry

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#### SPONSORED EDITION

##### From the Editor

Hard to believe it is mid-November already! 2017 is right around the corner. As you plan your budgets for the coming year, I hope you will consider supporting this e-newsletter. Sponsorships at any level are welcomed, and needed for us to continue to bring you this resource. Due to shortfalls in sponsorship this year, TMS considered discontinuation of Sustainability E-News. While the Board of Directors decided to continue publication through the end of 2016, it is my hope that we can be fully sponsored in 2017. Please [contact the TMS office](#) to show your support so that we can continue to publish in the coming year.

While we have considered ways to make this newsletter more visually appealing and shareable, the feedback we have received from readers indicates that most like its simplicity and concise content. Do you have suggestions for how to improve Sustainability E-News? We are always open to suggestions. You can contact me at the email below.

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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

Each of the articles below touches on aspects of sustainable design that are often overlooked. ~Tina

##### arc Online Platform Will Drive Green Building Performance

###### GBRIONLINE.ORG

A new online platform, arc, announced at this year's Greenbuild conference, will allow buildings to measure their energy performance against several green building rating systems, benchmark energy use against similar buildings, and make improvements. [Read more.](#)

##### Organizations Collaborate for Resilient Communities

###### NCMA

Across America, communities are facing unprecedented environmental, social and economic challenges. Cities are facing heat waves, rising sea levels, dangerous flooding, prolonged droughts and other extreme weather events. The National Institute of Building Sciences and the International Code Council are collaborating with several other organizations under the Alliance for National & Community Resilience (ANCR). ANCR will collect data and research communities that have experienced extreme events and develop a strategy that will prepare and ultimately protect the community and the resident/occupants of those communities if an extreme event should occur. The goal is to have community owners and developers select building materials and systems that will withstand these uncontrollable events. Learn more at [www.resilientalliance.org](http://www.resilientalliance.org).

##### ENERGY NEWS

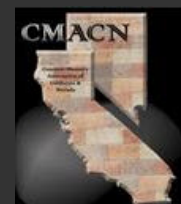
While the benefits of thermal mass associated with masonry are well known and have been scientifically studied before, new research conducted at the Pacific Northwest National Laboratories will model the energy usage of a prototype apartment building built with structural masonry and compare that to other wall types. This will build on other studies of single family residential construction. Check out the article below for more information.

##### Sponsors of TMS's Sustainability E-Newsletter

Click on the links below to learn more about each of these organizations who have graciously sponsored this E-Newsletter. The Sponsors designated with an Asterisk(\*) are also TMS Members at the following levels:

- \*\*\* designate Sustaining Members
- \*\* designate Affiliate Members
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##### Platinum Level



~Tina

## The Impact of Building Energy Codes

### U.S. DEPARTMENT OF ENERGY

Building energy codes represent a significant savings opportunity for U.S. home and business owners. Model energy codes for residential and commercial buildings are projected to save \$126 billion in energy cost savings (cumulative 2010-2040) Please [click here](#) to learn more.

## Energy Modeling Study Looking at Multi-family Buildings

### NCMA FOUNDATION

The National Concrete Masonry Association (NCMA) Education and Research Foundation has awarded a grant to the Pacific Northwest National Laboratories (PNNL) to conduct energy modeling analyses to compare concrete masonry construction to other building types. This research, building on previous PNNL modeling of residential structures, will focus on a prototype of an apartment building, and will compare CMU construction to other mass wall and light-frame construction types. The modeling is in progress now, and results are expected in the second quarter of 2017. For more information contact Nick Lang at [nlang@ncma.org](mailto:nlang@ncma.org).

## Keeping Cool and Quiet with CMU

### CONCRETE MASONRY DESIGNS

In Tuscan, AZ, Armory Park is a residential project devoted to elderly housing. At six stories high, it is also one of the tallest post-tensioned buildings in the nation. Relying on a proprietary CMU configuration, the blocks create a loadbearing masonry wall system with superior thermal performance properties. [Read more.](#)

## GREEN PRODUCT NEWS

It is always interesting to read about new materials being used to make masonry units. An important factor in evaluating all new products is consideration of their longevity and long-term performance - information that is not always readily available. ~Tina

## Turning Demolished Buildings Into Beautiful Materials

### FASTCODESIGN.COM

Razing old structures creates huge amounts of waste. StoneCycling transforms it into usable material. The Amsterdam-based startup has gained attention across the globe for its experimental waste brick material, which uses recycled waste from demolished buildings to create something new, reports Fast Company writer Diana Budds in [this article](#). The process takes rubble, breaks it down to an aggregate, and mixes it with other materials such as ceramics, clay, and glass to create the new brick.

## WBCSD's Cement Sustainability Initiative Updates Guidelines

### WORLD BUSINESS COUNCIL FOR SUSTAINABLE DEVELOPMENT (WBCSD)

Environmental and social impact assessment (ESIA) lies at the core of project development in the cement sector. It is the means by which companies can identify the likely consequences of their activities and thus modify their planning accordingly. WBCSD's Cement Sustainability Initiative (CSI) has revised its ESIA guidelines, most notably providing details on the following topics: the screening and scoping phases, the baseline study and report, impact assessment, stakeholder engagement and environmental and social management and monitoring. [Read more.](#)

## EDUCATIONAL NEWS

## Technical Papers and General Interest Papers Needed for TMS Journal

### MASONRYSOCIETY.ORG

The Masonry Society is seeking quality technical papers for publication in the TMS Journal. Both research topics and general interest topics will be considered. For information on submitting a paper, visit the [Journal Page](#) on the TMS website.

## Concrete Masonry Association of California & Nevada \*\*\*



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## Gold Level



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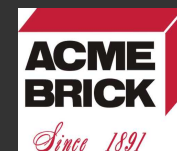


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## Silver Level



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## Bronze Level



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