

The Masonry Society

Sustainability E-News

Doing Better Against Disasters

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SPONSORED EDITION

From The Editor

August seems to be a month of contrasts to me. A time for one last taste of summer, and if you're lucky, maybe even some vacation, and also the rush to prepare for back-to-school. Even without children, the rhythm of back-to-school permeates our culture. Though this year, it's different. In the U.S. we are still faced with the effects of the disaster known as COVID-19, in addition to the more common disasters we face such as hurricanes, tornadoes, and earthquakes. These stressors have laid bare the lack of resiliency in many of our systems and communities. Several of the articles this edition focus on incorporating resilience into the designs of our buildings. Thinking beyond the immediate, and considering the resilience of our designs, is something we can't afford not to do.

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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 image of the lone house standing after Hurricane Michael ripped through Mexico Beach, FL is seared in our minds. What most haven't heard is how well structures designed to current codes fared. Check out the article below to learn more. ~Tina

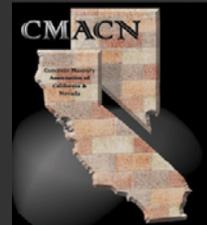
Incorporating resiliency in coastal designs

STRUCTURE MAGAZINE

Hurricane Michael, a Category 5 hurricane, made landfall along the Florida Panhandle on October 10, 2018, leaving a trail of destruction in its path. The damage extended over sixty miles east and west of the eyewall. Hurricane Michael was "directly responsible for 16 deaths and about \$25 billion in damage in the United States," according to a report prepared on May 17, 2019, by the National Hurricane Center. Upon further investigation of the variation of wind and flood damage in coastal areas, the overwhelming majority of homes built to the current 6th Edition of the Florida Building Code

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(based off the 2015 IBC), and within the guidelines set forth by the FEMA regulations within the 100-year floodplain and ASCE 7-10, survived the storm with minor to moderate damage. [Read more.](#)

Model shows flood risk exceeding FEMA estimate

THE NEW YORK TIMES (tiered subscription model)

A flood model created by the First Street Foundation shows an estimated 14.6 million properties facing the risk of a 100-year flood, compared with the Federal Emergency Management Agency's estimate of 8.7 million properties. The Flood Factor model's calculations include sea-level rise, rainfall and risk posed by smaller creeks, and a FEMA spokeswoman said the product "may help property owners with the critical decisions they must make and purchase necessary insurance." [Click here](#) to learn more.

CODES and STANDARDS NEWS

As part of the 2015 IBC, new K-12 schools in a wide section of the U.S. must now incorporate storm shelters. The first article below shares valuable lessons on how to achieve them in a cost-effective manner. ~Tina

Structural design and coordination of ICC 500 Tornado Shelters

STRUCTURE MAGAZINE

Starting with the 2015 International Building Code (IBC), certain structures are required to be designed with ICC 500-compliant community tornado shelters. [This article](#) provides clarity on when an ICC 500 tornado shelter is required per the IBC and shares lessons learned to help practicing structural engineers design safe and effective tornado shelters.

2018 IgCC proposed to be adopted in Maryland county

GREEN BUILDING LAW UPDATE

Montgomery County, Maryland is on the cusp of being the first to adopt the 2018 International Green Construction Code. The proposed [Executive Regulation 12-20](#) appeared in the Montgomery County Register on August 1. The proposed regulation is an adoption with only very modest editing of the 2018 IgCC into a compulsory construction code. The regulation could be effective as early as October 1, 2020 if approved. Read more [here](#).

GREEN PRODUCT NEWS

SOS 1.5: A new roadmap to action business commitments to deliver net-zero emissions

WBCSD.ORG

On World Environment Day, WBCSD released its new climate action roadmap to help companies reach net-zero carbon emissions before 2050. "SOS 1.5: The road to a resilient, zero-carbon carbon future" provides companies with a step-by-step framework and key actions to start and advance their journey to net-zero emissions - critical to keeping the world at a safe operating space for people and planet. [Read more.](#)

ECOPact low-emission concrete supports green construction

CEMNET.COM

LafargeHolcim has begun marketing ECOPact low-emission Green Concrete in the US with plans to expand to Canada, the UK and Latin

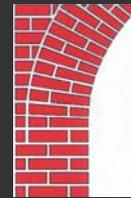
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America after a successful launch in Europe. "With the rollout of this Green Concrete, we are accelerating the transition to more sustainable building materials for greener construction," said LafargeHolcim CEO Jan Jenisch according to [this article](#).

EDUCATIONAL NEWS

14th Canadian Masonry Symposium website live

NCMA.ORG

Planning is underway for the 14th Canadian Masonry Symposium (CMS). The Symposium will be May 16-19, 2021 in Montreal, Canada. The CMS is Canada's eminent gathering for masonry related technical topics and fields of inquiry and attracts national and international experts on the design, construction, behavior and performance of all things masonry. Abstracts are due from authors by October 5, 2020. More information can be found on their newly launched [website](#).

2022 Masonry Symposium: Advancing Masonry Technology

ASTM.ORG

[Papers are invited](#) for the 2022 Masonry Symposium to be held on Tuesday, June 14, 2022 at the Hyatt Regency Seattle, Seattle, WA. The Symposium is co-sponsored by ASTM Committees C01 on Cement, C07 on Lime, C12 on Mortars and Grouts for Unit Masonry (Lead Committee), and C15 on Manufactured Masonry Units. The objective of the symposium is to gather and disseminate the latest information on all aspects of the innovations in masonry materials, design, specification, construction, maintenance, and rehabilitation.

Lap Splice Webinar, September 10 @ 1 pm ET Register Now!

THE MASONRY SOCIETY

Ed Huston, PE, SE, will present this informative webinar related to determining required lap splice length, and potentially how to reduce those lengths by providing transverse reinforcement across the laps. He will review requirements in the 2016 TMS 402/602 and the 2018 International Building Code. For more information, or to register, [click here](#).

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