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ENGINEER illinois THIS WEEK

NEW

Review
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Design Industry Legal Update

ISPE, ACEC and IPLSA

Wednesday, Dec. 11, 2013

Bloomington-Normal Marriott Hotel & Conference Center
201 Broadway St.
Normal, IL 61761

Fee: \$100. All proceeds will go to the jointly-managed Design Coalition Fund for legal and advocacy efforts.
[REGISTER HERE!](#)

Design professionals are facing a changing landscape in Illinois. This seminar is being hosted by ACEC, ISPE and IPLSA and features two attorneys who are on the front lines in addressing these challenges: Bruce Bonczyk, PE and Andy Martone from Hesse/Martone. Hear the latest and get your questions answered.

Registration closes at 5:00 p.m. on Dec. 9.
Be sure to register early to lock in your seat!

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New ISPE Members

Name	Chapter
Donald Broughton	Capital Chapter
Kevin Burke	Capital Chapter
Lucas McGill	Champaign Chapter
Jonathan Ruolo	Chicago Chapter
Thomas Willoughby	Chicago Chapter
Paul Lodewyck	St. Clair Chapter

Co-catalyst promises energy-rich outcomes from CO2

The Engineer

A novel 'co-catalyst' system using inexpensive, easy to fabricate carbon-based nanofibre materials converts carbon dioxide to carbon monoxide, a useful starting-material for synthesising fuels. The findings have been published online in advance of print in the journal Nature Communications. 'I believe this can open a new field for the design of inexpensive and efficient catalytic systems for the many researchers already working with these easily manipulated advanced carbon materials,' said Amin Salehi-Khojin, University of Illinois at Chicago professor of



mechanical and industrial engineering and principal investigator on the study.

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Engineering Chicago-St. Louis high-speed rail

Railway Track & Structures

The Illinois High-Speed Rail project between Chicago and St. Louis is progressing right on schedule and currently wrapping up construction for the 2013 season. While the full project will not be complete until 2017, a significant portion of the work will be in place to support speeds of up to 110 mph over about 75 percent of the route by the end of 2015. The project will shave about an hour off travel time between Chicago and St. Louis, with about half of this savings in place by the end of 2015.

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U of I researchers get millions for 'super mutt' to sniff out big-data trends

Crain's Chicago Business

One of the challenges with big data is, well, it's big — often too big. So University of Illinois researchers are getting some big bucks from the feds to find ways to tame it. A group at the National Center for Supercomputing Applications at Urbana-Champaign is getting more than \$10 million from the National Science Foundation to attack the problem of dealing with huge troves of data piling up in databases and computers everywhere.

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Google rethinks the value of engineering managers

Engineering

It's not uncommon for engineers to devalue managers. Red tape and meetings can certainly get in the way of innovation, but does management actually do more harm than good? This certainly used to be the mentality at Google. In a recent article from the Harvard Business Review, Google describes how they convinced their engineering workforce that engineering management matters, and how they determined which managers were up to snuff.

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ISPE Calendar of Events

Date	Event	More Information
Dec 6	First Friday Webinar - UAV/UAS Solutions Role in the Future of Rapid Mapping Applications & Benefits	More Information
Dec 11	Design Industry Legal Update	More Information

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