



NEWS FROM THE DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING AT THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

NEWS FROM CEE AT ILLINOIS.....JANUARY 2013

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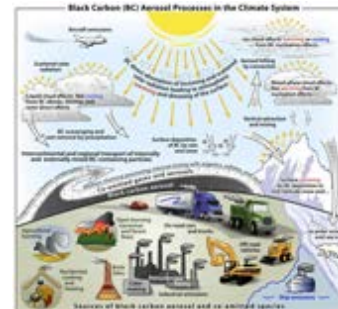
Topology optimization connects architecture, engineering

Engineers and architects have a new way to collaborate in the design of buildings thanks to the work of Professor Glaucio Paulino, who is applying the 3-D computer modeling technique of topology optimization in innovative ways. Together with CEE alumnus and adjunct faculty member William F. Baker (MS 80), Paulino has developed a tailored software framework that allows design teams of engineers and architects to generate structurally sound design alternatives while minimizing material consumption, resulting in creative, sustainable designs that integrate form and function in a synergistic way. [More about Paulino's work](#)

Black carbon larger cause of climate change than thought

Black carbon is the second largest man-made contributor to global warming and its influence on climate has been greatly underestimated, according to the first quantitative and comprehensive analysis of this issue by a team including CEE Associate Professor Tami Bond as co-lead author. The landmark study published in the Journal of Geophysical Research-Atmospheres says the direct influence of black carbon, or soot, on warming the climate could be about twice previous estimates.

[More about the black carbon analysis](#)



Augmented reality system useful in construction and beyond

What if you could get information about something immediately, just by taking a picture of it with your cell phone or iPad? Whether you were house-hunting, trying to jump-start your car, or managing a construction project, a wealth of customized information would be available to you, just by taking a photograph with your mobile device. That's the promise of new technology developed by CEE Assistant Professor Mani Golparvar-Fard and collaborators Professor Jules White and graduate research assistant Hyojoon Bae of Virginia Tech. [More about MARS](#)



CEE at Illinois welcomes new Director of Advancement

The department recently welcomed a new Director of Advancement. John Southwood, a fundraising professional with nearly 30 years of experience, joined CEE in December. A University of Illinois alumnus, Southwood came to the university from a position as Chief Advancement Officer for Georgia Highlands College in Rome, Ga. He has worked at U of I before, having been on staff at the Division of Intercollegiate Athletics from 1985-1993. [More about Southwood](#)



Nine faculty members honored with excellence titles

Nine members of the CEE at Illinois faculty have been named CEE Excellence Faculty Fellows or CEE Excellence Faculty Scholars. The honorary titles recognize the distinction of these faculty members and include financial resources allocated in support of their educational and research programs. [More about CEE Excellence](#)



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