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Materials and Methods for Smart Glass, Smart Windows, and Building Shells

Wednesday, December 05, 2018 1:00 PM - 2:00 PM EST

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About This Webinar

Inventor Keith Goossen will introduce a cost-efficient, high-performing smart glass system for windows, windshields, roof panes, and building envelopes. Goossen's optofluidic smart glass system is based on a reflective structure that switches to transmissive when an index-matching fluid is introduced. It costs about 10 times less than current technologies, and it is highly reflective up to a 60 degree angle of incidence. Goossen will discuss the technology that he and his group are using to develop and fabricate their smart glass system, including the use of optofluidics and 3D printing. He will also discuss future goals and potential applications for his smart heating, cooling, and lighting system.



About the presenter:

Keith Goossen, Ph.D., is professor and associate chair for graduate studies at the Department of Electrical & Computer Engineering at the University of Delaware. In 2000, he co-founded Aralight Inc., an optical components manufacturer that was later acquired.

After receiving B.S. and Ph.D. degrees in electrical engineering from the University of California, Santa Barbara and Princeton University, respectively, Goossen joined the technical staff at Bell Laboratories. While there, he invented and demonstrated the world's fastest micromechanical optical modulator. He has also invented and demonstrated flip-chip bonding techniques for integrating electronic and photonic chips, particularly short-wavelength vertical-cavity surface-emitting laser (VCSEL) chips. He holds 87 patents. Goossen is also director of the Mid-Atlantic Industrial Assessment Center, which trains students in energy efficiency.

Who should attend:

Engineers, designers, educators, students, and those in management who are interested in advanced materials and fabrication methods for smart materials and smart structures. Anyone who is interested in energy harvesting, energy efficiency, climate adaptive technology, and/or optofluidics.

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