

# Distinguished Speaker Series

## FALL 2021



**Christian Kohler**

Department Head for Building Technologies at Lawrence Berkeley National Laboratory

**October 13**

**Presentation:**

**1:00 – 2:00 p.m.**

[Zoom Link](#)

Password: 228216

**Student Meeting:**

**3:00 – 4:00 p.m.**

[Zoom Link](#)

Password: 301079



**ARCHITECTURAL  
ENGINEERING**

## Advances in Windows and Opaque Building Envelopes

### ABSTRACT

Building envelopes have always had the challenging task to support a fairly static indoor thermal and visual environment while dealing with a wide range of dynamic outdoor conditions. In this talk, Christian Kohler will look at advances in materials, design and construction of opaque and transparent envelopes and their impact on humans, energy consumption, and stability of the electrical grid.

### BIOGRAPHY

Christian Kohler is the department head for Building Technologies at Lawrence Berkeley National Laboratory (LBNL). For more 25 years, he has been involved in all aspects of building energy efficiency research such as simulation, measurement, and technology development. He has been deeply engaged in software development for various windows related tools, e.g., THERM, WINDOW, and Optics5. He has also led the development of new technologies for highly insulating and dynamic windows. His activities include algorithm development, user support, training, developing embedded controllers, and experimental work on highly insulating and dynamic windows. His major work with industry has included being an elected member of the Board of Directors of the National Fenestration Rating Council and the past research chair and committee chair of the Fenestration Technical Committee of ASHRAE.

Prior to that he was working at the LBNL Infrared Thermography research facility. He received his master's degree in building physics in 1997 from Eindhoven University of Technology in the Netherlands.