

## The Triangle Chapter of ASHRAE

Invites you to our Monthly  
business meeting & educational seminar at:  
**May 19, 2021 ( 3rd Wed )**  
6 PM - 7:30 PM  
**VIDEO CONFERENCE (details below)**



<< 3rd Wed >>

**Excerpt:** An overview of the AEDG process as well as examples of packages and case studies from the 50% guides.

### **PRESENTATION: Getting from AEDGs to Zero-Energy Buildings**

Buildings account for more than 40% of worldwide primary energy use. ASHRAE, IESNA, USGBC, AIA, and DOE have collaborated on a series of Advanced Energy Design Guides (AEDGs) for significant energy savings beyond Standard 90.1. The guides provide prescriptive packages for each climate zone to reach the energy savings goals of 30% and 50%. AEDGs for 50% savings in five building types were completed in 2014. This presentation provides an overview of the AEDG process as well as examples of packages and case studies from the 50% guides. Also presented are examples of today's zero-energy buildings and the key systems and technologies they employ.

### **SPEAKER: Drury B. Crawley, Ph.D.**

#### **Dir Bldg Ind Dev; Bentley Systems, Washington, DC**

Dru Crawley is Bentley Fellow and Director, Building Performance Research focusing on building performance, BIM, net-zero-energy buildings, sustainability, resilience, and smart cities. Prior to being elevated to Bentley Fellow in 2014, he led development of Bentley's suite of building performance software for four years. Before joining Bentley in 2010, Dr. Crawley developed and managed EnergyPlus and the USDOE's Commercial Buildings Initiative (now Better Buildings Initiative and Alliances) promoting creation of net-zero-energy buildings.

With more than 40 years of experience in buildings energy efficiency, renewable energy, and sustainability, he has worked in engineering software development, government research and standards development organizations, as well as building design and consulting companies. He received his PhD in Mechanical Engineering from University of Strathclyde in Glasgow, Scotland on the topic of building simulation as a policy tool, a Bachelor of Architecture from University of Tennessee, and is a registered architect.

Dr. Crawley is active in ASHRAE (Chair of Standard 169 Climatic Data for Building Design Standards, member and Vice Chair of Standards Committee, member of SSPC 189.1 (Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings), member of SSPC 140 (Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs), former member of the Technical Activities, Research Administration, Advocacy, and Grassroots Government Activities Committees, and past chair of Technical Committees 2.8, 4.2, 4.7, and 7.1). He was elevated to ASHRAE Fellow in 2009 and achieved ASHRAE BEMP (Building Energy Modeling Professional) certification in October 2012. Recipient of ASHRAE Exceptional Service Award (2013), Service to ASHRAE Research Award (2012), Distinguished Service Award (2003), and Symposium Best Paper Award (1999) for "Which Weather Data Should You Use for Energy Simulations of Commercial Buildings?"

He is also active in the International Building Performance Simulation Association (IBPSA Vice President since 2018, at-large board member since 1998, Fellow in 2012, Regional Affiliate Liaison since 2006), IBPSA-USA (IBPSA-USA President since 2019, board member since 2013, vice president 2017-2019, treasurer 2013-2017), U. S. Green Building Council (USGBC, past vice chair and member, Energy & Atmosphere Technical Advisory Group; past member, Research Committee; past research Liaison), the American Institute of Architects (AIA), an Affiliate member of CIBSE, and serves on the editorial boards of three international Journals. He has written more than 125 papers and articles, testified before the U.S. Congress, lectured at more than 30 universities, and made more than 400 presentations on building energy efficiency, sustainability, and renewable energy throughout the world. As an ASHRAE Distinguished Lecturer, he has given more than 150 presentations and workshops to more than 80 ASHRAE chapters throughout the world.



### **SCHEDULE:**

5:45 PM : **Business Meeting**  
6:00 PM: **Presentation**  
7:00 PM + **Q&A**

### **FEES & REGISTRATION:**

#### **NO FEES // NO REGISTRATION**

All are welcome to participate. When ready to connect to the meeting, click on the link below to start the GoToMeeting conference: <https://global.gotomeeting.com/join/491076861>

### **MEETING FOCUS: GAC (Government Affairs Committee):**

**During the meeting we will recognize our coordination with local and state government organizations.**

### **SPEAKER EVALUATION FORMS:**

It is very important to us that we get feedback on the speakers and presentations that we provide. **Please click on:**  
[Google Form](#) - - - Thanks!!

### **PDH (Professional Development Hour) CREDIT:**

This video- presentation should meet the NC PE criteria for 1 hour of PDH credit. See: [NC Board's clarification of PDHs](#).  
GBCI Approved | 2 CE Hour | 920020232 -- AIA Approved | 2 LU/HSW | Crawley06

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