IES Honolulu Section presents:

Recommended Practice for Daylighting Buildings

Tuesday, June 24, 2014
11:15am – Registration
11:30am – 1:00pm – Seminar

AIA Honolulu Headquarters
828 Fort Street Mall
Honolulu, Hawaii 96813

$12 admission fee
Brown bag event – Bring your own lunch
Drinks will be provided by IES

1.5 LU/CEU credits available through IES via website. Also AIA LE/CEU credits

RSVP: Howard Wiig
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SPEAKER:

Christopher Meek, AIA, IES

Christopher Meek is a Research Associate Professor of Architecture at the University of Washington and registered architect in the State of Washington. He is among the core faculty of the Integrated Design Lab (IDL) at the University’s College of Built Environments. In this role, he consults with design teams in the Pacific Northwest and nationally with a focus on building energy performance, daylighting, visual comfort, electric lighting, and climate responsive design. Mr. Meek teaches graduate and undergraduate level courses on building design, daylighting, electric lighting, and indoor environmental quality at the University of Washington Department of Architecture. He serves as a frequent speaker on daylighting design and building planning for organizations including the IESNA, AIA, and the USGBC. Prior to joining the faculty at the University of Washington he practiced in architecture offices in Washington State, New Mexico, and New Orleans, LA.
Description of Discussion:

IESNA Daylighting Education Tour 2014

Designing with daylight requires the interplay of form, space, and materiality derived from the influence of site, climate, regional culture, and the distinct requirements of specific visual tasks. Daylight can make our buildings healthier and more energy efficient, however, designing effective, comfortable daylit buildings remains a challenge. This ninety-minute seminar will concisely cover design concepts and strategies toward daylighting success that designers can immediately employ in their practice. These concepts will be illustrated by case studies in that represent fundamental activities of daylight design. Project objectives will be described and key components will be evaluated using state-of-the-art performance metrics. Discussion topics will include: Why daylight is important in buildings, programming and criteria development for daylighting design, and examples design strategies and simulation techniques. Special attention will be given to the local climate.

The presentation will include a short segment devoted to the related IES standards (RP-5-13 Recommended Practice for Daylighting Buildings, IES LM-83-12 Approved Method: IES Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE), LEM-7-13 Lighting Controls for Energy Management, as well as IES SEM-6-11 Daylighting). The presentation will also provide an overview of newly published IES standards, updated Seminars, and other distance learning opportunities, including the LC Study Group, SALC, and Annual Conference. The presentation will have brief summaries of ASHRAE 2010, Title 24, IECC, and LEED 2012, as they relate to both subject areas, as well as resources on local climate and meteorological data.

Learning Objectives

1. Participants will learn key integration points for building design, dynamic daylight, electric lighting design, and operational controls. Case studies and discussion will illustrate challenges and opportunities for delivering high-quality luminous environments while meeting energy efficiency goals.

2. Participants will be introduced to current and emerging metrics for daylight performance in buildings being developed by the USGBC and the IESNA.

3. Participants will learn implementation strategies for daylighting design via climate assessment, case studies, and post-occupancy analysis, and through a freely-available web tool for daylighting design decision-making.

4. Participants will be introduced to the current portfolio of resources offered by the IESNA for daylighting design and energy efficient lighting systems.