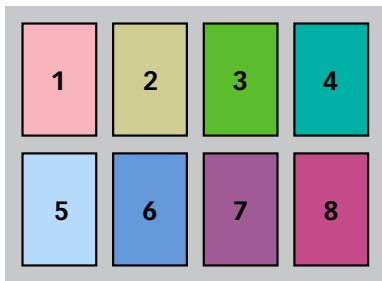




Monthly News

Comparison of the Color Quality Scale CQS with the Color Rendering Index CRI



In the 1960s the CIE published a procedure for obtaining values for how well an artificial light source produced a match in the rendering (related to visual color perception) the color of various objects. The mathematical procedure is called the Color Rendering Index (CRI). The CRI value is an average of the rendering of eight different color reflectances.

With the advent of Solid State Lighting (LEDs) it was found that some products that visually appeared to give good matches did not give CRI values as high as was hoped. NIST, mostly through the efforts of Yoshi Ohno, began evaluation of the CRI system and, coupled with visual demonstration studies at NIST, produced a new system for color rendering. They called it the Color Quality Scale (CQS). To many in the lighting research area the CQS system appeared superior to that of the CRI.

The major focus of the presentation will be to elucidate the differences between CRI and CQS and show why the CQS system appears to be superior to CRI.

Our Speaker, Rolf Bergman, has operated as a consultant through his own company, Rolf Bergman Consulting, since retiring from GE Lighting in 2001. One of his ongoing consulting assignments is as an accreditation assessor for Energy Efficient Light for NVLAP. Rolf spent over 28 years at GE Lighting at Nela Park in various capacities including research on new products, developing measurement systems and work on industry standards. He retired with the title of Chief Scientist.

Rolf is currently involved in the IES as a member of the Testing Procedures Committee. He is also involved in CIE, being chair of the Technical Committee (TC 6-47) as well as serving a president of the US Committee of the CIE for 5 years from 2006 to 2010. He was also a member of TC 1-69, chaired by Wendy Davis, NIST, that attempted to bring a new method of measuring Color Rendering.

When: Thursday, Sept. 25, 2014

Lunch: 11:30 a.m. – 12:00 p.m.

Program: 12:00 p.m. – 1:00 p.m.

Location: Hilton Garden Inn
1100 Carnegie Ave, Cleveland, OH 44115

Sponsor: IES Cleveland Section

Speaker: Rolf S. Bergman, Ph.D.

Credit: 1 PDH

Cost: \$30.00

Please pay by check or cash at the event or pay by credit card using our [PayPal link on our website](#). Note: If you pay by credit card, you don't need to RSVP Mike.

RSVP

Contact Mike Confer
By Tuesday, Sept. 23
216-875-4018

mwc@hwhaep.com



Lumen Press Newsletter

President's Report: Page 1 of 2

The advent of LED lighting Technology has shaken up the world of our traditional lighting metrics. We have seen the development of LM79, LM80, TM21, Lighting Facts labels, the list goes on and on. But what about CRI (Color Rendering Index)? CRI was developed by CIE over 60 years ago, well before the development of commercially available white light LEDs. So is CRI still the best way for the lighting community to judge the effectiveness of LEDs to render color? Please join us for our September program *Comparisons of the Color Quality Scale CQS with the Color Rendering Index CRI* presented by Rolf S. Bergman, Ph.D. on September 25 to find out.

I would like to thank everyone who participated in the 2014 to 2015 program year planning conference call on August 8. It was really great to hear all of the wonderful ideas that you, the members of our section, had to offer. The feedback from that call was taken to the board meeting we held on August 22 and a "skeleton" schedule has been put together based upon your feedback. Don't be surprised to hear from us if you shared an idea we may need your help in pulling these programs together. As always, if you would like to sponsor a program, suggest a speaker or subject for the coming year; please contact our Program Chair, Mike Evert at emjevert@aol.com or 440-725-3781.

The Board of Managers meets once a month during the program year, usually via phone. Our next meeting is September 22 at noon. If you would like to join the call please contact Henry Barker hbarker@karpinskieng.com and he will give you the dial-in information. All board meetings are open so don't be afraid to join in. We welcome your input.

Best regards,

Kristen Mallardi, LC

IES Cleveland Section President



Lumen Press Newsletter

President's Report: Page 2 of 2

The IES Cleveland Section would like to recognize the following long-standing members of our section. These members will receive a pin in commemoration of their long-standing membership at our September meeting. We have many more long-standing members who will be recognized as part of a yearly membership recognition program at the end of our section year. Members will receive a pin for their most recent corresponding five year consecutive membership milestone achieved.

- Lewis Sternberg 60 Years
- Michael Kormos 50 Years
- Nancy Christensen 50 Years
- Terry McGowan 50 Years
- John Moody 40 Years
- David Loyd 40 Years
- Gerald Pool 40 Years
- Roy Dray 40 Years
- David Kinkaid 40 Years
- James McCormick 40 Years
- Dennis Ziegler 30 Years
- Robert Horn 30 Years
- James Peters 30 Years
- Terrance Kilbourne 30 Years
- Joseph Howley 30 Years
- Phillip Soroky 30 Years
- Mary Beth Gotti 30 Years
- Anthony Serres 30 Years



Lumen Press Newsletter

Calendar of Events

2014

September 25 | Thursday Lunch

Topic: Comparison of the Color Quality Scale CQS with the Color Rendering Index CRI

Location: Hilton Garden Inn Cleveland Downtown

Sponsor: IES Cleveland Section

October | Evening

Topic: Clambake – LED Driver Technology Panel Discussion

Location: Albion Woods Reservation, Strongsville

Sponsor: Wolff Brothers Supply

November | Lunch

Topic:

Location: Hilton Garden Inn Downtown Cleveland

Sponsor:

December | Evening

Topic: Light Walk

Location: Playhouse Square

Sponsor:

2015

January | Lunch

Topic:

Location: Hilton Garden Inn

Sponsor:

February | Lunch

Topic:

Location: Hilton Garden Inn, Downtown Cleveland

Sponsor:

March | Lunch

Topic:

Location: Hilton Garden Inn, Downtown Cleveland

Sponsor:

April | Lunch

Topic:

Location: Hilton Garden Inn, Downtown Cleveland

Sponsor:

May 14 | Lunch

Topic:

Location: Hilton Garden Inn

Sponsor:

June 5 | Friday Event

Topic: IES Golf Outing

Location: Pine Ridge Golf Course - Willoughby, OH

Sponsors Needed!

Contact Kristen Mallardi:

Kristen.mallardi@acuitybrands.com

440-570-7638



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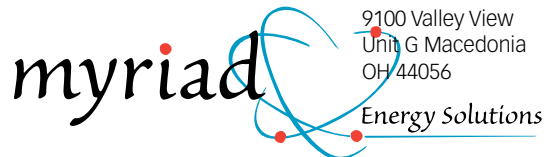
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