




Illuminating Engineering Society Updates

**IES Aviation Lighting Committee Technology Meeting
Monterey, California**

**Alex Baker MSc, LC, IES
Manager of Government Affairs and Public Policy
Staff Liaison to the IES Aviation Lighting Committee**

An aerial photograph of a suburban landscape. The image shows a mix of green spaces, including golf courses and parks, interspersed with residential neighborhoods and commercial areas. A prominent multi-lane highway with several overpasses runs diagonally across the right side of the frame. In the center, there is a large, rectangular paved area that appears to be an airport tarmac or a large parking lot. The overall scene is a typical representation of a developed suburban region.

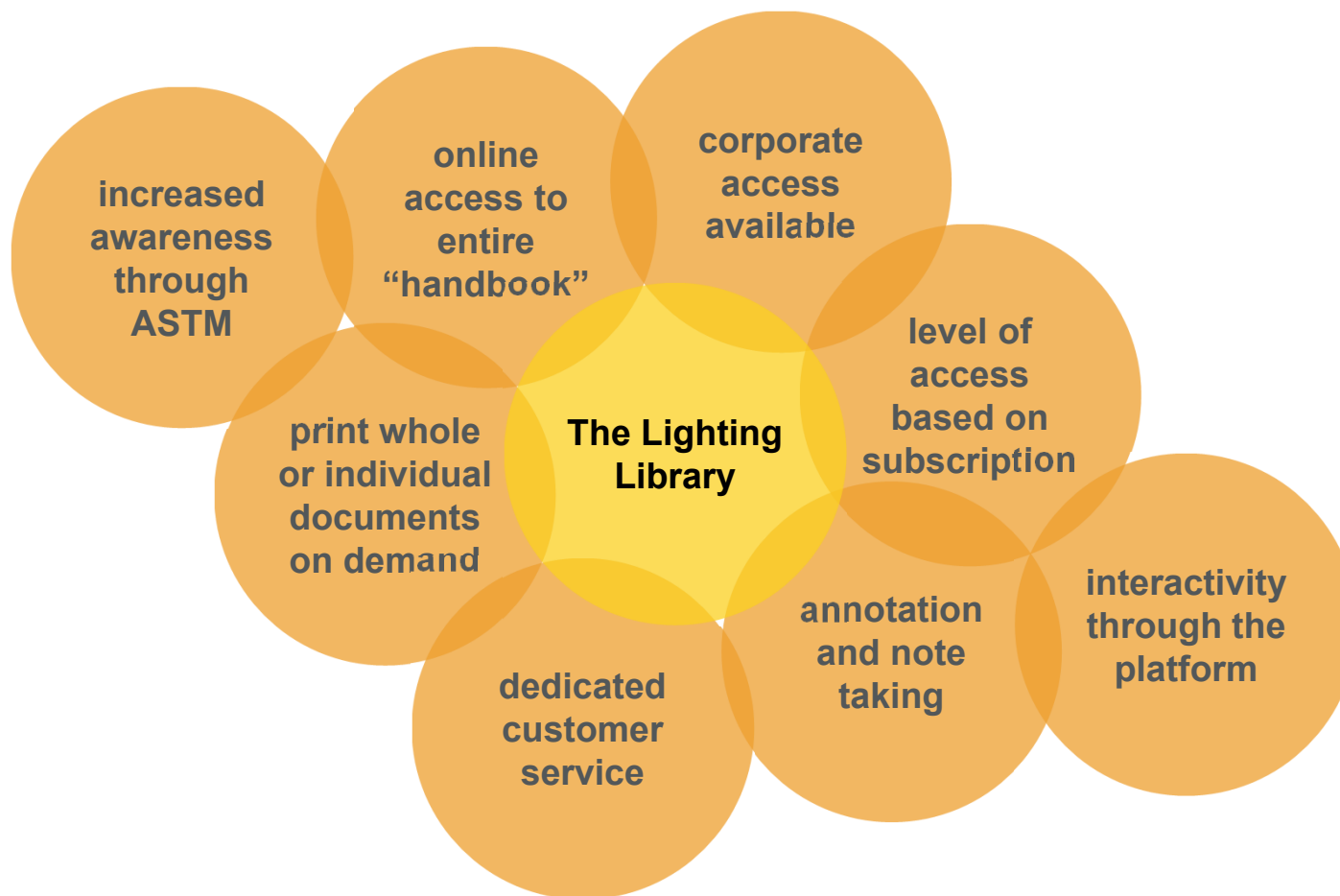
ALB



Standards



The Lighting Library – Coming in 2020

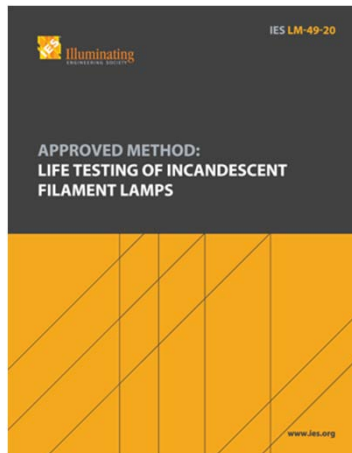




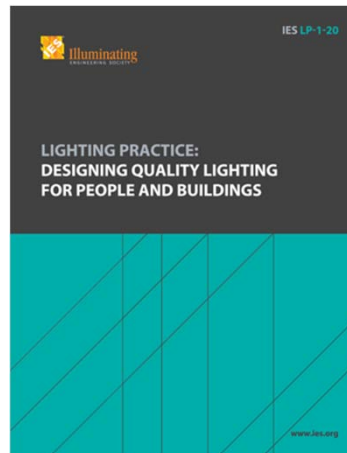
IES Standards: The Lighting Library



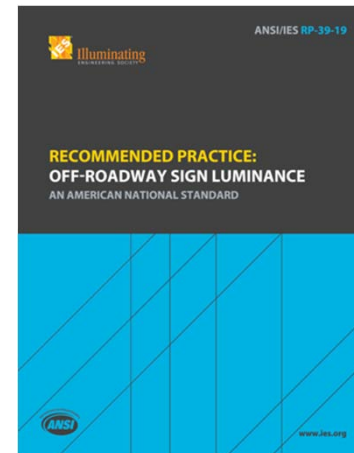
**Lighting
Science**



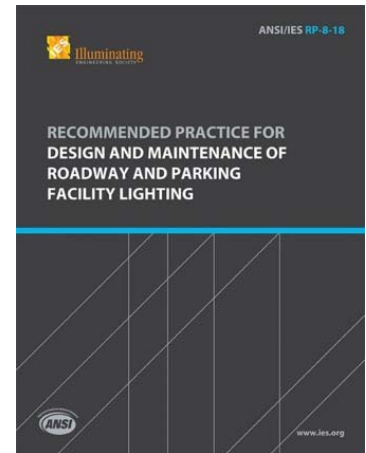
**Lighting
Measurement**



**Lighting
Practice**



**Lighting
Applications**



**Roadway
Lighting**



IES Technical Committees

- Aged and Partially Sighted Lighting Committee
- Assembly and Performance Lighting Committee
- ➔ Aviation Lighting Committee
- Building Information Management Committee
- Color Committee
- Computer Committee
- Daylight Metrics Committee
- Daylighting Committee
- Discomfort Glare in Outdoor Nighttime Environments Committee
- Education/Library/Office Lighting Committee
- Energy Efficiency Lighting Programs Committee



IES Technical Committees

- Healthcare Facilities Committee
- Horticulture Lighting Committee
- Hospitality Facilities Committee
- **Industrial Lighting Committee**
- Internet of Things Committee
- Light and Design Committee
- Light and Human Health Committee
- Light Sources Committee
- Lighting Commissioning Committee
- Lighting Control Systems Committee
- **Lighting Maintenance Committee**



IES Technical Committees

- Lighting Upgrades Committee
- Luminaire Design Committee
- Museum and Art Gallery Lighting Committee
- Nomenclature Committee
- Outdoor Environmental Lighting Committee
- Outdoor Public Spaces Committee
- Photobiology Committee
- Port Terminals Lighting Committee
- Residential Lighting Committee
- Resilience Committee
- Retail Lighting Committee



IES Technical Committees

- Roadway Lighting Committee
 - Roadway Intersection Task Group
 - Roadway Measuring & Calculating Task Group
 - Roadway Maintenance Task Group
 - Roadway Obtrusive Light Subcommittee
 - Roadway Off-Roadway Task Group
 - Roadway Outdoor Controls Task Group
 - Roadway Research & Visibility Task Group
 - Roadway Signs Task Group
 - Roadway Toll Plaza Task Group
 - Roadway Tunnel Lighting Control Design Task Group
 - Roadway Tunnels & Overpasses Task Troup
 - Roadway Work Zone Task Group



IES Technical Committees

- Security Lighting Committee
- Skyglow Committee
- Sports and Recreational Area Lighting Committee
- Sustainable Lighting Committee
- Testing Procedures Committee
- Videoconference and Presentation Lighting Committee
- Vision Science Committee



IES Non-Technical Committees

- Annual Conference Steering Committee
- Annual Conference Young Professionals Scholarship Fund
- Audit Committee
- Board of Fellows Award Committee
- Distinguished Service Award Committee
- Education Material Review Committee
- Education Strategy Committee
- Finance Committee
- Global Development Committee
- Government Affairs & Public Policy Committee
- Illumination Awards Committee



IES Non-Technical Committees

- Leadership Forum Committee
- Marks Award Committee
- Medal Award Committee
- Membership Advisory Panel
- Nominating Committee
- Progress Report Committee
- Research Symposium Committee
- Rules Committee
- Street & Area Lighting Conference Committee
- Taylor Technical Talent Award Committee
- Teachers of Lighting Workshop Committee



ANSI/IES RP-16-17, Nomenclature and Definitions for Illuminating Engineering

The IES defines illumination engineering terms in ANSI/IES RP-16, which is available here online. You can search terms by their first letter using the categories listed in the Categories window, by the first letter of the term in the alphabetical list below, or by typing the term in the search window. You can find the Introduction material for RP-16 on these pages:



■ [Copyright, Disclaimer, and American National Standards Statement](#)

■ [Foreword, Nomenclature Committee members, Introduction, and Scope](#)

■ [Spectral Parameters Used in Illumination Engineering](#)

■ [RP-16 Addenda](#)

🔍 Search: [\(clear\)](#)

All Categories ▾

ALL	0-9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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Abbe's law

absolute luminance

absorptance, α

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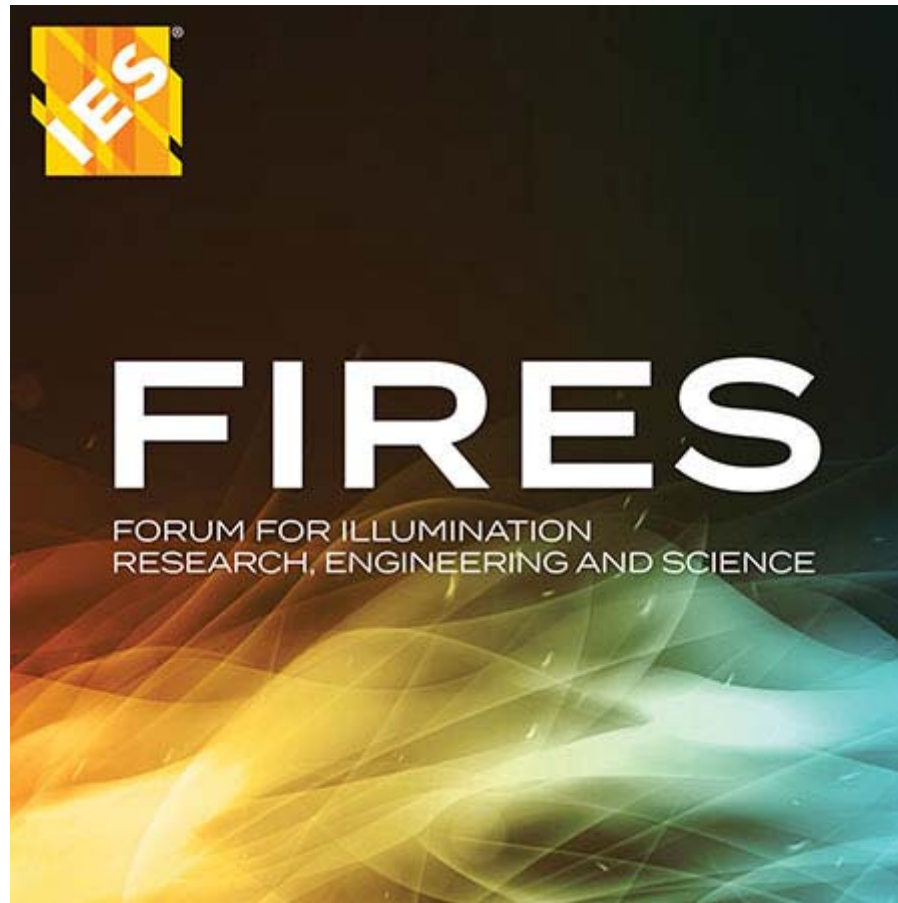
www.ies.org/standards



Research



Forum for Illumination Research, Engineering and Science

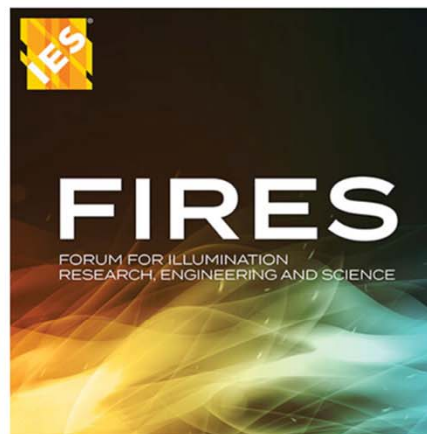




Forum for Illumination Research, Engineering, and Science (FIRES)

The ability to control fire is considered one of the most important factors in expanding and developing our human ancestors' societies. The societal importance of fire required larger and larger groups to work together in order to maintain and sustain the fire; individuals had to work together to find fuel for the fire, maintain the fire, and complete other necessary tasks. Ultimately, fire had a significant influence on the development of language and the size and social interactions of communities.

The Forum for Illumination Research, Engineering, and Science (FIRES) is the IES online space for our lighting community to openly share and discuss the latest research and innovations in illumination engineering and science. As a space for the free dissemination of knowledge and exchange of ideas, FIRES is intended to foster relationships between individuals and larger institutions, and reignite the emphasis on science and engineering in the lighting industry. Through FIRES, we hope to have a significant influence on the development and advancement of lighting.



Recent Posts

[Focusing on Daylight Spectra](#)[Discomfort Glare Metrics: Elusive, but not Illusive: A companion piece to The Elusive Discomfort Glare Metric](#)[Simplifying Melanopsin Metrology](#)[The Elusive Discomfort Glare Metric](#)[In Defense of Lighting Quality](#)

Categories

[Daylighting](#)[Glare](#)[Internet of Things](#)[Light and Health](#)[Privacy & Cookies Policy](#)



IES Research Funding Opportunities

Standards Specific Research:

- Must advance IES standards through short-term research (2 years)
- Must address one of four Strategic Objectives
 - *Refine Knowledge about Lighting and Visual Processes*
 - *Understand the Impact of Light Exposure on Human Health*
 - *Foster the Integration of Lighting into the Holistic Built Environment*
 - *Demonstrate the Value of Quality Lighting*
- Must have co-sponsors
- Contact research@ies.org



IES Research Projects



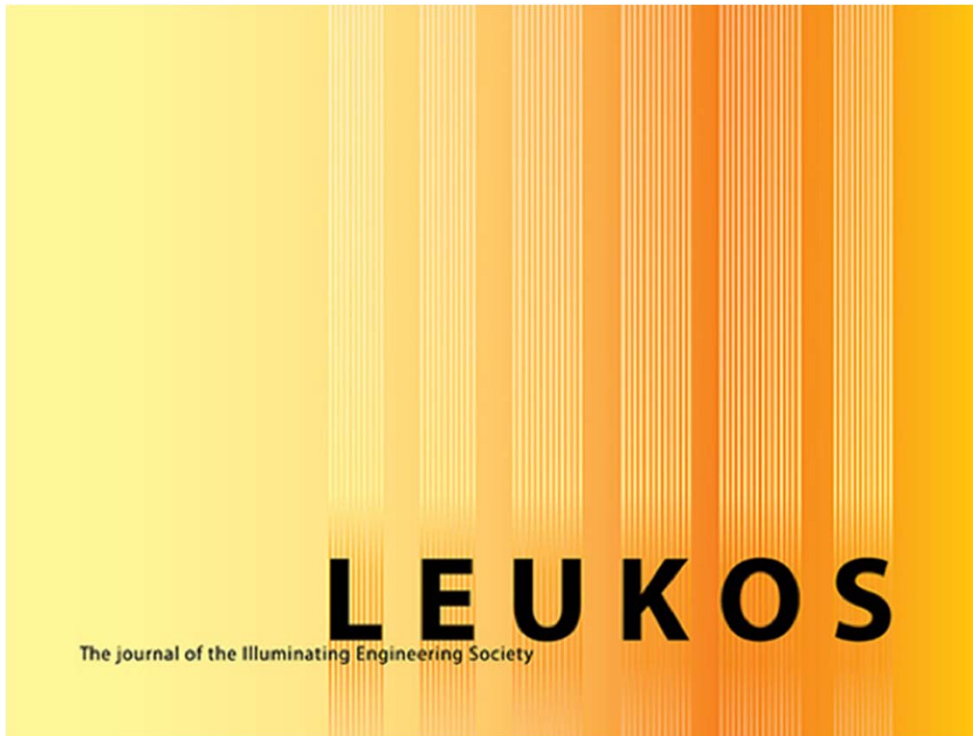
Standards Specific Research:

2019: Published RES-2-19;
IES Research Report:
Lighting for Parking Facilities

2020: ASHRAE/IES Standard 90.1:
Lighting Computer Modeling
Project



LEUKOS: The Journal of the Illuminating Engineering Society



- Peer-reviewed journal, issued quarterly, free to members.
- Downloads up by 10%
- *LEUKOS Special Issue on Lighting Research Methods*
 - IES/CIE sponsored
 - open access!



www.ies.org/research



Outreach



Washington D.C. Advocacy

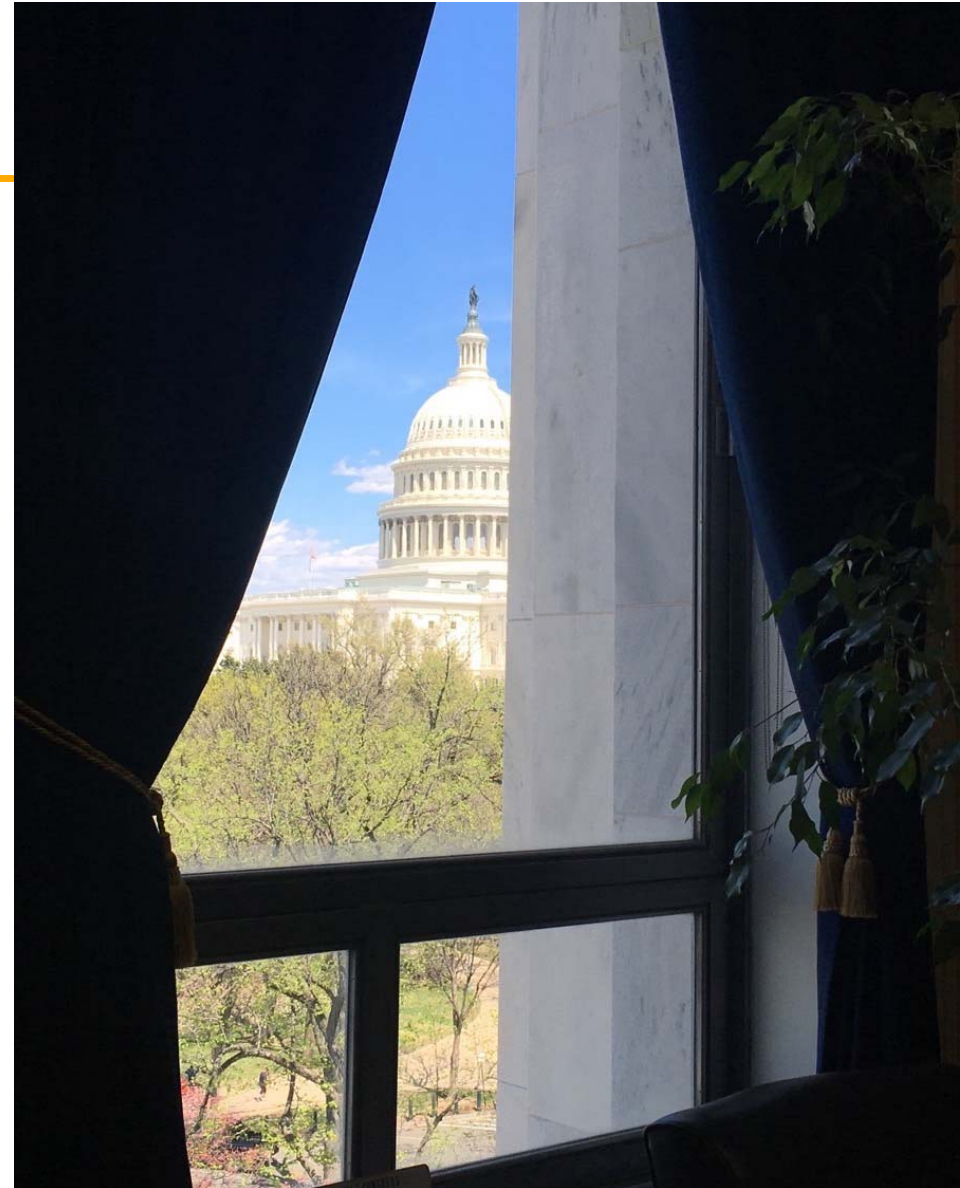
In Collaboration With

Alliance to Save Energy

American Lighting Association

American Society of Heating,
Refrigerating and Air-Conditioning
Engineers (ASHRAE)

High Performance Buildings
Congressional Caucus Coalition





Washington D.C. Fly-In 2019

Congressman David McKinley (WV-1)

Congressman Paul Tonko (NY-20)

Congressman Peter Welch (VT)

ASHRAE

Alliance to Save Energy

Independent Electrical Contractors

Institute of Transportation Engineers

National Electrical Manufacturers Association

Smithsonian National Museum of American History

US Department of Energy

Building Technologies Office





Education





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Alex Baker

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- For Interior Designers
- For Lighting Designers
- For Facility Managers

Search by who you are
(or who you want to be).



Monthly Webinars

Theatrical Lighting: From the Newest LED Trends to the Traditional Art Form

October 17th 12:00 PM ET

PRESENTER: Billy Tubb

Billy Tubb is currently a Theatre Consultant, Lighting Designer, Special Systems Designer, Architectural Lighting Controls Specialist and Acoustical Consultant. Billy retired from the University of New Mexico after a 30+ year career where he served as Technical Director for over 6500+ live events such as Phantom of the Opera, Lion King, Wicked, Elton John and the Rolling Stones in concert. He is also an accomplished Theatrical Lighting Designer and Audio Engineer, receiving the NM Governor's Award for Excellence in the Arts for his work. Billy is currently serving on the IES Board of Directors as the Southern Regional Director, he served as Chair and Vice-Chair of IES District 4 and was the President of the IES Albuquerque chapter from 2009 to 2016. He is also a member of the IALD. A native of Albuquerque, he holds a Bachelor of Fine Arts degree in Technical Theatre and Design from the University of New Mexico.



Wireless Lighting Controls

January 16th 12:00 PM ET

PRESENTER: Gary Meshberg, LC, CLCP, LEED AP, IES

Gary Meshberg, LC, CLCP, LEED AP, IES is chair of the Lighting Controls Association (www.lightingcontrolsassociation.org) and director of industry and market engagement for OSRAM. A 30+-year industry veteran, he previously served as director of marketing, VP of sales and specification business manager for major lighting manufacturers. He chairs the IES Lighting Commissioning Committee, previously served as past education chair for the Dallas Section, and founded and served as chair of the Home Lighting Control Alliance.





Archived Webinars

Illuminating
ENGINEERING SOCIETY

ASHRAE 90.1
Lighting Model

Illuminating
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DG-1
Design for Color
and Illumination

Illuminating
ENGINEERING SOCIETY

DG-28
The Smart City/IoT Update
for the ANSI/IES Roadway
Lighting Control System Standard

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G-1
Security Lighting
Guidelines for People, Property
and Critical Infrastructure

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RP-11
Lighting for
Residential Environments

Illuminating
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RP-28
Lighting and the Visual
Environment for Seniors and
the Low Vision Population



Archived Webinars

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Introduction to
Visible Light Disinfection

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A New Measure of
Color Discrimination

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Solving LED Dimming
Issues in Retrofit Projects

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Lighting for
Horticulture

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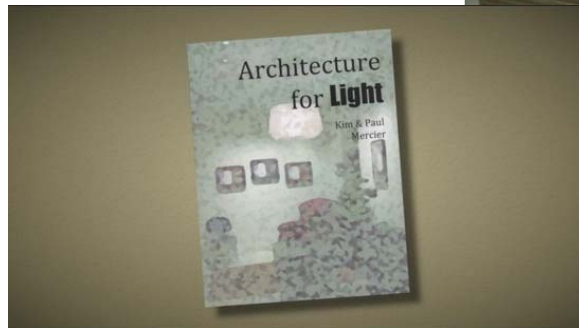
Tunable White
Controls

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ASHRAE 90.1
Lighting Model

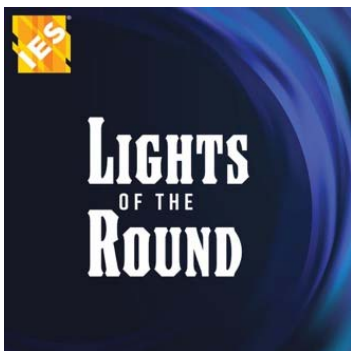


Indispensable Lighting Series





Indispensable Lighting Series





Trailblazers & Icons





Lighting Education Facility Showcase





Lighting Education Facility Showcase

Lighting Research Center at RPI

Faculty, Research Scientists and Graduate Students of the Lighting Research Center at Rensselaer Polytechnic Institute in Troy, New York discuss the various research they are working on and have completed in a variety of lighting related fields.



 Lighting Education Facility Showcase

Human Factors in Lighting

Presented by the Lighting Research Center,
Troy, New York

[VIEW WEBINAR !\[\]\(30f8020d63f320624cd43edd85a36c84_img.jpg\)](#)

 Lighting Education Facility Showcase

Lighting for Horticulture

Presented by the Lighting Research Center,
Troy, New York

[VIEW WEBINAR !\[\]\(cbcca3b2abdfe141518c48cf6bc6aba0_img.jpg\)](#)

 Lighting Education Facility Showcase

Lighting for Transportation

Presented by the Lighting Research Center,
Troy, New York

[VIEW WEBINAR !\[\]\(98f8456b37eccb83c047e8149b58e871_img.jpg\)](#)

 Lighting Education Facility Showcase

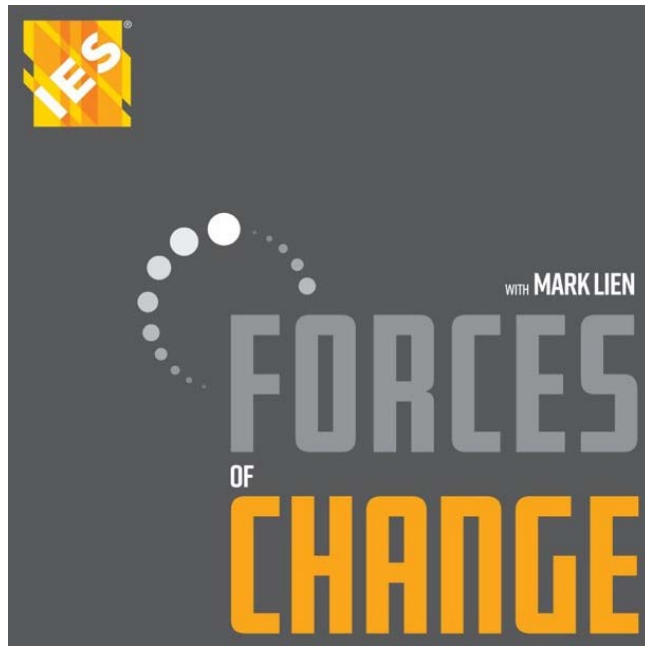
Solid State Lighting Technologies

Presented by the Lighting Research Center,
Troy, New York

[VIEW WEBINAR !\[\]\(fd34dc46992abdabcc6c691dd4892961_img.jpg\)](#)



Forces of Change Podcast





IES GO Podcast Channel



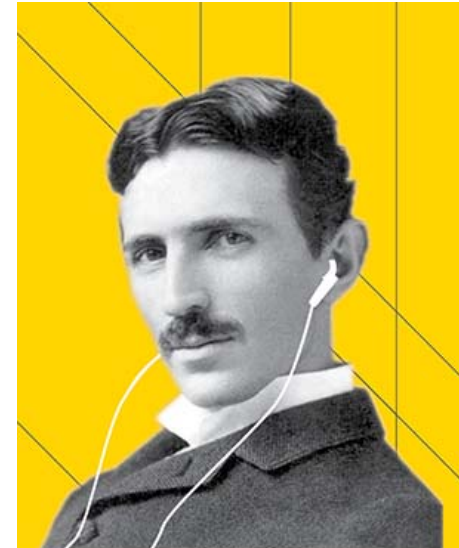
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Check out our podcasts online
www.ies.org/podcasts



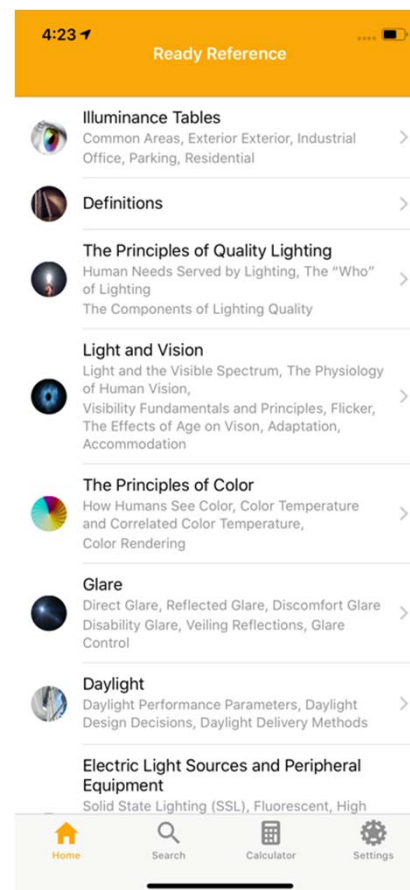
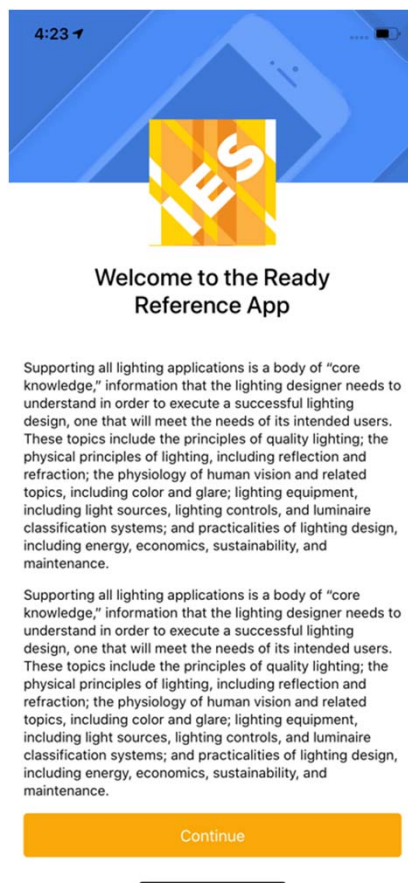
IES Ready Reference App

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Welcome to your new My IES!

My IES has been designed and implemented to improve your member experience. Through My IES you will have access to all the important aspects of your membership:

- renewing your membership;
- your robust membership profile;
- a digest of all of your committees and Section activities, including dedicated discussion forums;
- new membership and speakers directories tied to individual member profiles;
- connectivity with other members;
- a consolidated events calendar that contains Section, District, Region, Society and committee events; and
- much more that will be added in the future.

Our goal is to improve the user experience of our website by creating an online atmosphere that is easy to navigate and becomes a one-stop-shop for all your IES involvement and engagement.

If you have any questions please email Tim Licitra, IES Executive Director, at tllicitra@ies.org.

My Communities

13 total

Annual Conference Steering Committee

Scope: Lead the planning and development of the annual conference, meeting the requirements of the Society.

member last person joined an hour ago

Audit Committee

Scope: To oversee the selection of the accounting firm and process that will be conducted for the Society's annual audit.

Member Status

Join Date: 10/1/2015 12:00:00 AM

Renew Date: 12/31/2020 12:00:00 AM

Society Events

20 FEBRUARY

IES Technical Luncheon: Sy Buildings in the IoT

Feb 20, 11:30 AM - 1:00 PM

North York, ON, Canada

20 FEBRUARY

Synergistic Building the ERA of IoT

Feb 20, 11:30 AM - 1:00 PM

Nashville, TN, United States

20 FEBRUARY

Tour of Guinness Gate Brewery

Feb 20, 6:00 PM - 9:00 PM

Halethorpe, MD, United States

More Events

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Timothy Licitra

Executive Director, Illuminating Engineering Society

My Profile

My Connections

My Contributions

My Account

Timothy Licitra

Executive Director

Actions

Executive Director

Contact Details

Illuminating Engineering Society
120 Wall Street
FL 17
New York, NY
Work Phone Number: (212) 248-5000
tllicitra@ies.org
View Transactions, Registrations, and CEU Credits

Social Links

in

Education

Rutgers, The State University of New Jersey

MBA, 2011
Marketing and Management
2007 To 2011

University of Rhode Island

Bachelor of Science, 2005
Business Administration/Marketing
2001 To 2005

Job History

Illuminating Engineering Society

Executive Director
New York, NY, United States
October 2015 - present

Market Technicians Association

Executive Director & CEO
New York, NY, United States
October 2012 - October 2015

Market Technicians Association

Managing Director - Development
New York, NY, United States
May 2011 - October 2012



Events



IES Annual Conference 2019: Louisville, Kentucky





IES Annual Conference 2020: New Orleans, Louisiana



www.ies.org/events



IES Street and Area Lighting Conference 2020: Dallas, Texas



www.ies.org/events



IES Research Events: Cosponsor of DOE Lighting R&D Workshop

SAN DIEGO, CALIFORNIA • JANUARY 28–30, 2020

U.S. Department of Energy

Lighting R&D Workshop

Co-sponsored by the Illuminating Engineering Society

U.S. DEPARTMENT OF
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& RENEWABLE ENERGY

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REGISTER NOW: www.energy.gov/eere/ssl/2020-lighting-rd-workshop



IES Research Events: 2020 Symposium: Orlando, Florida

The logo for the 'Light + Quality' symposium features a large, solid orange circle. The words 'LIGHT' and 'QUALITY' are written in a bold, dark brown, sans-serif font, flanking a white plus sign (+) that is centered within the orange circle. Below this, the phrase 'MEANINGFUL METRICS BEYOND ENERGY' is written in a smaller, dark brown, sans-serif font.

LIGHT + QUALITY

MEANINGFUL METRICS BEYOND ENERGY

Objective: Determine quantitative metrics for qualitative benefits

Orlando, Florida
April 27-29, 2020

The 2020 IES Research Symposium is the fifth biannual Symposium sponsored by the IES. We invite global researchers to broaden our knowledge and improve our standards.



LIGHTFAIR® International 2020: Las Vegas, Nevada



[Tradeshow](#)

[Conference](#)

[Attend](#)

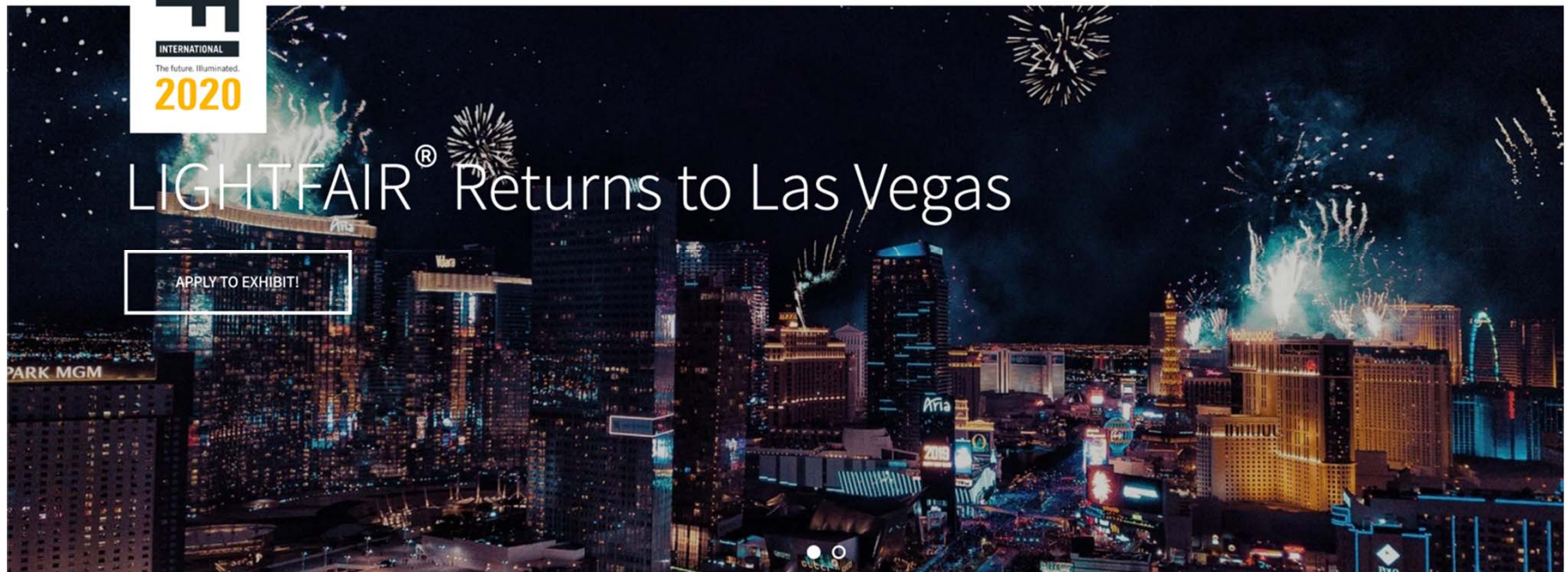
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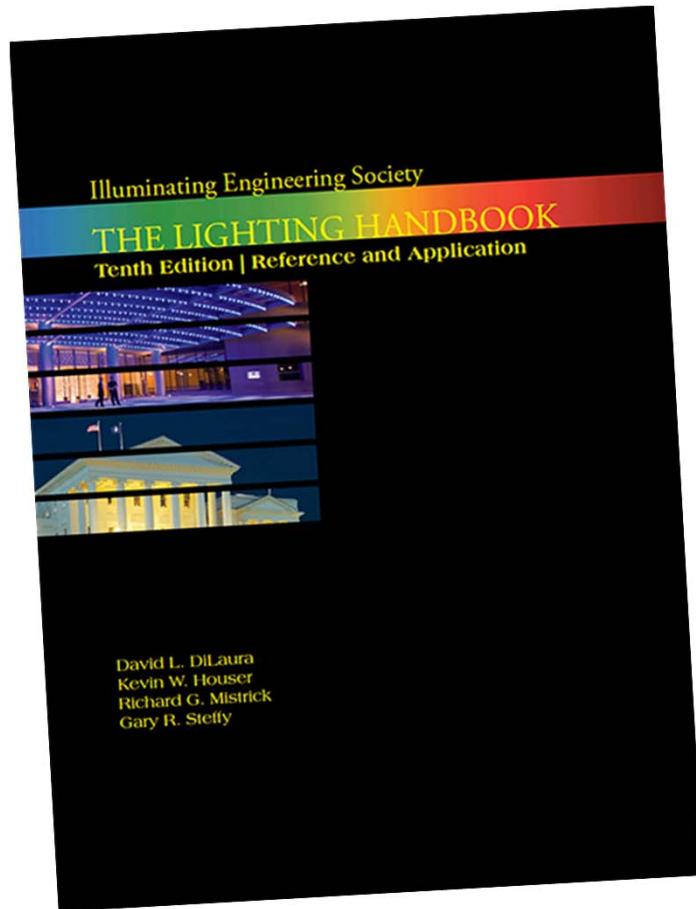
www.ies.org/events



Door Prizes!!



IES Handbook 10th Edition Door Prizes



- Five hardcopies to be raffled
- Will be shipped directly to winners' home or business addresses



Contact Info

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Staff Liaison to the IES Aviation Lighting Committee

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(202) 374 - 4348



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