



Traveling **Light**

FMS



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CHARLES G STONE II • FIALD IES LC LEED AP BD+C

President / Consulting Principal at Fisher Marantz Stone

BIOGRAPHY: An early interest in the theater led to a career in architectural lighting design, joining FMS in 1983, where he became the President in 2003. Charles has designed award-winning and well-known projects such as Carnegie Hall, the Washington Monument, American Museum of Natural History - Rose Center for Earth and Space, and the Hong Kong International Airport. Mr. Stone's annual Traveling Light speaking tour includes universities and conferences around the world, visiting more than 20 cities in 2015 and 2016. He currently serves on the IESNA Lighting for Outdoor Public Spaces Committee, and is a member of Project Candle at Penn State University.

EDUCATION: Bachelor of Arts, Princeton University, 1976

Certificate for Lighting Design in the Program in Theater and Dance, Princeton University, 1976

BIG LIGHT: WIDE, TALL, AND DEEP

Large architectural projects in the public realm - MEGA projects - provide particular challenges in the area of lighting design. This talk identifies and discusses the key factors to be considered in the conceptualization, lighting strategies, mockup studies, and throughout the construction of such projects. Three case studies are presented. While each case has a unique set of architectural, civil, structural, and lighting challenges, the key factors for lighting design have much in common.

CITY LIGHT: PIECES, PLACES, AND POSTCARD

Cities are reinventing the night. Mayors and public-private partnerships, developers and urban planners, architects and lighting designers are being tasked to re-imagine and re-light the public realm to achieve new visions of the city that accomplish and encompass beautification, safety, technological wonders, and sustainability. Lighting Designers must consider not only new and exciting smart street-lighting and energy saving LED retrofit strategies; but also, the uniquely indigenous opportunities found in each city's waterfronts, promenades, bridges, building façades, and the possibility of dynamic lighting "shows". The work consists of many puzzle pieces, at many places in each city, and a yearning for beautiful evening skylines - postcards of City Light.

PUBLIC LIGHT: MEDIA FAÇADES AND THE LED TSUNAMI

The industrialization of light and subsequent illumination of our cities and towns has created a wealth of light at night. What began as a response to a need for safety at night has now blossomed into a nighttime world of dazzling light. From illumination for security to the celebration of architecture to entertainment to advertising - light is all around us at night in the city. The explosive arrival of the LED in exterior lighting and media façades now demands that we step back and examine the world we are making. This talk will explore the evolution and implications of light in the places we meet both friends and strangers... Public Light.

CULTURAL LIGHT: THE INDIGENOUS AND THE INSTINCTIVE

Lighting Designers work across continents and delve deeply into local cultural preferences and sensibilities. This talk explores how various cultures perceive, feel, and express light in the built environment. A sensitive understanding of various Indigenous and Instinctive uses of light will enrich our appreciation of the luminous environment, and help us make better decisions about rapidly evolving lighting technology.

POWERFUL LIGHT: THE CORUSCANT AND THE TRANSFORMATIVE

Observing and analyzing the good and the beautiful: this is the joyous inner life of the Lighting Designer. This talk will explore why we find some luminous environments so pleasing..... and others not so. Some spaces delight by offering the coruscant - by glittering and sparkling. Other spaces inspire us as the light creates wondrous transformation of the architecture, expanding space and creating volumes. The power of light to transform architecture and enrich the human experience is unmistakable.

COMMUNICATING LIGHT: INSPIRATION, PRESENTATION, REALIZATION

Seeking inspiration, effective presentation, and witnessing the realization of the lighting design project. How do we ensure the end result of our lighting design process is faithful to the original inspiration, and that our lighting design adds value to the lives of all who will inhabit the built environment?

Big Light

BIG LIGHT: WIDE, TALL, AND DEEP

Large architectural projects in the public realm - MEGA projects - provide particular challenges in the area of lighting design. This talk identifies and discusses the key factors to be considered in the conceptualization, lighting strategies, mockup studies, and throughout the construction of such projects. Three case studies are presented. While each case has a unique set of architectural, civil, structural, and lighting challenges, the key factors for lighting design have much in common.

LEARNING OBJECTIVES

1. Understand the importance of establishing a strong lighting concept and holding on to it for the duration of the project.
2. Study some design trends and skills necessary for designing lighting for large scale projects.
3. Learn the importance of Mock-ups to achieve successful lighting for large projects.
4. Identify key lighting requirements for lighting design and implementation.

City Light

CITY LIGHT: PIECES, PLACES, AND POSTCARDS

Cities are reinventing the night. Mayors and public-private partnerships, developers and urban planners, architects and lighting designers are being tasked to re-imagine and re-light the public realm to achieve new visions of the city that accomplish and encompass beautification, safety, technological wonders, and sustainability. Lighting Designers must consider not only new and exciting smart street-lighting and energy saving LED retrofit strategies; but also, the uniquely indigenous opportunities found in each city's waterfronts, promenades, bridges, building façades, and the possibility of dynamic lighting "shows". The work consists of many puzzle pieces, at many places in each city, and a yearning for beautiful evening skylines - postcards of City Light.

LEARNING OBJECTIVES

1. Consider the impact of city light on the environment, wildlife welfare, and human health that constitute a framework for design.
2. Understand the component pieces of lighting design for cities of the future.
3. Survey and categorize the unique opportunities of place that are found in each city.
4. Review examples of city skylines and consider how we will proceed to the next level.

Public Light

PUBLIC LIGHT: MEDIA FAÇADES AND THE LED TSUNAMI

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LEARNING OBJECTIVES

1. Learn about the history of light in the Public Realm from gas light, to arc light, to incandescent, to discharge, and now the one and only LED.
2. Review the history of exterior façade lighting as a civic celebration, entertainment, and building identity.
3. Gain an understanding of the relationship between the history of the industrialization of light, and the society's desire for public amenity.
4. Consider the impact on society, sustainability, and health, and what this means for public policy.

Cultural **Light**

CULTURAL LIGHT: THE INDIGENOUS AND THE INSTINCTIVE

Lighting Designers work across continents and delve deeply into local cultural preferences and sensibilities. This talk explores how various cultures perceive, feel, and express light in the built environment. A sensitive understanding of various Indigenous and Instinctive uses of light will enrich our appreciation of the luminous environment and help us make better decisions about rapidly evolving lighting technology.

LEARNING OBJECTIVES

1. Learn to analyze and differentiate the Indigenous and the Instinctive attributes of light in the built environment.
2. Review and classify indigenous attributes in some case study cultural settings: China, Mexico and Central America, and Scandinavia.
3. Consider the role of personal memory and cultural perspectives in our role as ambassadors of light when we practice outside our own hometowns.

Powerful **Light**

POWERFUL LIGHT: THE CORUSCANT AND THE TRANSFORMATIVE

Observing and analyzing the good and the beautiful: this is the joyous inner life of the Lighting Designer. This talk will explore why we find some luminous environments so pleasing..... and others not so. Some spaces delight by offering the coruscant - by glittering and sparkling. Other spaces inspire us as the light creates wondrous transformation of the architecture, expanding space and creating volumes. The power of light to transform architecture and enrich the human experience is unmistakable.

LEARNING OBJECTIVES

1. Learn to analyze examples of architecture enhanced by the coruscant or by the transformative use of light. We will look at nature, life, art, and architectural spaces as we explore and analyze.
2. Understand the key lighting parameters at work in different successful architectural spaces.
3. Consider the role of personal memory and cultural perspectives in our perception of successful and delightful luminous architectural spaces.

Communicating **Light**

COMMUNICATING LIGHT: INSPIRATION, PRESENTATION, AND REALIZATION

Seeking inspiration, effective presentation, and witnessing the realization of the lighting design project. How do we ensure the end result of our lighting design process is faithful to the original inspiration, and that our lighting design adds value to the lives of all who will inhabit the built environment?

LEARNING OBJECTIVES

1. Inspiration: We begin each lighting design project by listening, discussing, and seeking inspiration. What are our favorite sources of inspiration? (Great art, sunrise, architecture, poetry...)
2. Presentation: Next, we sketch, collect, and organize our ideas into a presentation for the client. How shall we present our work most effectively? (Images of all kinds)
3. Realization: Finally, we witness and assist in the realization of the lighting design. How do we ensure the end result is faithful to the original inspiration and that our lighting design adds value to the lives of all who will inhabit the built environment? (Mock-ups and field work and finally the finished project)

Speaking Engagements

2018

City Light: Pieces, Places, and Postcards

Symposium Citylights, Frankfurt University of Applied Sciences, Frankfurt, Germany, March 22, 2018

2017

Big Light: Wide, Tall, and Deep

IALD Greater China Region Forum, Shanghai, China, September 2, 2017

City Light: Pieces, Places, and Postcards

CTBUH 2017 Australia Conference, Sydney, Australia, October 31, 2017

IES Annual Conference, Portland, Oregon, August 12, 2017

The Philips Lighting Elite Designer Development Program, Shanghai, China, June 6, 2017

Lighting Detective Workshop

Transnational Lighting Detectives TNT Forum, Kyoto, Japan, June 9, 2017

Pecha Kucha "Heritage Light"

Transnational Lighting Detectives TNT Forum, Kyoto, Japan, June 8, 2017

Shanghai Huangpu River International Lighting Competition

Final Judging in Shanghai, Shanghai, China, June 5, 2017

2016

City Light: Pieces, Places, and Postcards

University of Colorado at Boulder, Boulder, Colorado, November 7, 2016

IALD Greater China Region Forum, Shanghai, China, September 10, 2016

Public Light: Media Façades and the LED Tsunami

IALD Enlighten Europe 2016, Prague, Czech Republic, November 15, 2016

Hilton Vancouver Washington, Vancouver, Washington, October 12, 2016

Diodes and the Death of Daylighting as an ECM

With Paul C. Hutton and Sukreet Singh, Cuningham Group Architecture

Greenbuild International Conference and Expo, Los Angeles, California, October 6, 2016

Cultural Light: the Indigenous and the Instinctive

Lightfair International, San Diego, California, April 27, 2016



2015

Public Light: Media Façades and the LED Tsunami

Transnational Lighting Detectives TNT Forum, Mexico City, Mexico, November 20, 2015

IESNA Denver at the University of Colorado, Boulder, Colorado, October 8, 2015

IALD Greater China Forum, Shanghai, China, September 24, 2015

Speaking of Radiance

Guangzhou International Lighting Exhibition, Guangzhou, China, June 9, 2015

Mondo *arc India

Considering the Value of Independent Lighting Design, Mumbai, India, March 14, 2015

Education Globally in Architectural Lighting Design

Magasinet in Münchenbryggeriet, Stockholm, Sweden, March 20, 2015

With Professor Jan Ejhed, the Lighting Laboratory at the Royal Institute of Technology in Stockholm

IALD Enlighten Asia in Japan, Tokyo, Japan, March 4, 2015

Cultural Light: the Indigenous and the Instinctive

Light Middle East Conference, Dubai, UAE, October 9, 2015

Lighting Designer Workshop at the American University of Beirut, Beirut, Lebanon, September 30, 2015

Guangzhou International Lighting Exhibition, Guangzhou, China, June 9, 2015

Magasinet in Münchenbryggeriet, Stockholm, Sweden, March 20, 2015

AIA Hong Kong Chapter, Hong Kong, China, March 11, 2015

IALD Enlighten Asia in Japan, Tokyo, Japan, March 4, 2015

University of Colorado at Boulder, Boulder, Colorado, February 16, 2015

2014

Light and Culture: Indigenous and Instinctive

With Monica Lobo, LD Studio

Encuentro Iberoamericano de Lighting Design EILD, Medellin, Colombia, November 7, 2014

Tribute in Light

Transnational Lighting Detectives TNT Forum, Madrid, Spain, October 4, 2014

Communicating Light: Inspiration, Presentation, Realization

Lightfair International, Las Vegas, Nevada, June 5, 2014

Powerful Light: the Coruscant and the Transformative

DICE Summit, Reno, Nevada, September 18, 2014

Guangzhou Lightfair, Guangzhou, China, June 10, 2014

Seminario de Iluminación IES, Mexico City, Mexico, May 8, 2014

Space and Light

Istanbul Light, Istanbul, Turkey, April 3, 2014

2013

Powerful Light: the Coruscant and the Transformative

IALD Enlighten Europe, Berlin, Germany, November 11, 2013

Communicating Light: Inspiration, Presentation, Realization

IALD Enlighten Americas, Montreal, Canada, October 5, 2013



Pecha Kucha "The Green Flash"

IALD Enlighten Americas, Montreal, Canada, October 5, 2013

Transnational Lighting Detectives TNT Forum, Taipei, Taiwan, September 21, 2013

Lighting Master Class: Workplace Design

Brandi Institute for Light and Design, Hamburg, Germany, September 3-5, 2013

Charles Stone in the US and Asia

IALD Enlighten Asia, Tokyo, Japan, March 7, 2013

Lighting Design Showcase in Asia, Six Designers Talk Asian Sense of Light

International Lighting Design Symposium, Tokyo, Japan, March 6, 2013

2012

Communicating Our Passion for Light

Encuentro Iberoamericano de Lighting Design EILD, Queretaro, Mexico, October 27, 2012

2011

Celebration and Remembrance: Lighting Monuments and Memorials

Phillips International Lighting Seminar, Jakarta, Indonesia, December 1, 2011

Seeking Sunrise

Lysdagen, Oslo, Norway, November 17, 2011

Light's Role in Nocturnal Urban Spaces: A Collaboration Explores its Potential

With Randy Burkett, Randy Burkett Lighting Design

IALD Enlighten Americas Lighting Days, New Orleans, Louisiana, September 24, 2011

2010

Seven Expressions of Light

Economic Times ACETECH Lighting Forum, Mumbai, India, November 12, 2010

IALD Enlighten Americas, Denver, Colorado, October 8, 2010

Arc Show, London, England, February 4, 2010

2009

White Light in the Public Realm

Expo CIHAC, Benito Juárez, Mexico, October 14, 2009

2007

Dreaming of White Light (Dining by Design)

With Kimberly von Brandenstein

Princeton Arts Council Dinner, Princeton, New Jersey, October 27, 2007

White Light in a Green World

UTSA College of Architecture, AIA San Antonio, San Antonio, Texas, October 10, 2007

Awake at Night: Luminous Skyscrapers

Tall Buildings Forum, Shanghai, China, July 9, 2007

Lighting of Religious Buildings

Guangzhou International Lighting Technology Symposium, Guangzhou, China, June 9, 2007

At the Theatre: A House Full of People and Light

AHEC 12th SEA & GRCH Convention, Hangzhou, China, June 7, 2007

Georgia Aquarium Case Study

Lightfair International, New York, New York, May 10, 2007

On The Water

ELDA Design Designer Conference, Euro luce, Italy, April 21, 2007

Civic Light: Getting Back to White

Arc Show, London, England, February 12, 2007

Roblon International Symposium

Roblon Aktieselskab, Frederikshavn, Denmark, February 1, 2007

2006

Lighting the Silk Road

Silk Road Immersion Session, Nagoya, Japan, November 7, 2006

En Busca de la Esencia Luminosa en la Arquitectura

With Enrique Garcia, Fisher Marantz Stone

Expo CIHAC, Mexico City, Mexico, October 20, 2006

Light in Architecture in the 21st Century

Association of Siamese Architects: 72nd Anniversary, Bangkok, Thailand, May 6, 2006

2005

Lighting Design: Perspectives and Opportunities

Edison Price Lighting, New York, New York, April 13, 2005

Bright Lights, Big City

Lightfair International, New York, New York, April 12, 2005

2004

Urban Light: Museums, Monuments & Memorials

New York Center for Architecture, New York, New York, October 13, 2004

The Power of Lighting Design: the Impact of Lighting Design on Your Project

CEDIA Expo, Indianapolis, Indiana, September 11, 2004

Imagining the Office of the Future

Fannie Mae/Waterfront, Washington, DC, July 21, 2004

2003

Cities of Light: Expressions of Color

Color Kinetics, Tokyo, Japan, October 24, 2003

Lanterns in the Landscape

Portuguese Centre of Design, Universitat de Barcelona, Lisbon, Portugal, June 27, 2003

Unique Clients, Projects, Solutions

Color Kinetics, Hong Kong, China, October 1, 2003

Rensselaer Polytechnic Institute, Troy, New York, January 14, 2003

Private Engagement, London, England, January 5, 2003

Private Engagement, Rotterdam, Netherlands, January 3, 2003

2002

Around the World at the Speed of Light

Chicago Section of the IES, Chicago, Illinois, November 11, 2002

IESNA, Seccion Mexico, Mexico City, Mexico, November 8, 2002

Lighting With a Passion: Sense & Sensibilities of Lighting

Lightfair International, San Francisco, California, June 3, 2002

ERCO, Edison, New Jersey, July 1, 2002

Considering Light

The Arts Council of Princeton Annual Meeting, Princeton, New Jersey, June 1, 2002

God is in the Details - What did Mies van der Rohe Know?

Lightfair International, Las Vegas, Nevada, May 30, 2002

Towers of Light

IES - Great Plains Section, April 24, 2002

IALD Light Night

Light + Building, Frankfurt, Germany, April 16, 2002

Odyssey of Light

Virginia Polytechnic Institute and State University, Blacksburg, Virginia, February 1, 2002

2001

2001 A Light Odyssey

IESANZ Convention, Auckland, New Zealand, April 22, 2001

Mr. Stone has also spoken at numerous private corporate events and prominent architectural offices around the world.

Recent **FMS Awards**



National Museum of African American History and Culture



Park Avenue Armory Veterans Room



World Trade Center Transportation Hub

World Trade Center Transportation Hub

2017 IES Illumination Award of Distinction

2017 IES Illumination Award of Merit

National Museum of African American History and Culture

2017 IALD Award of Merit

Park Avenue Armory Veterans Room

2017 IALD Special Citation for Inventive and Sensitive Reimagination of Historic Gas Luminaires

2017 IES Illumination Award of Merit

2017 IESNY Lumen Award of Excellence

The Peninsula Paris

2016 IES Illumination Award of Merit

Covington & Burling

2016 IESNY Lumen of Excellence

2016 IES Illumination Award of Merit

2015 GE Edison Award

2015 GE Edison Award of Excellence

The National September 11 Memorial Museum

2015 IALD Award of Excellence

The National September 11 Memorial Museum

Chanel Boutique New Bond Street London

2015 IES Illumination Award of Merit

Christian Dior Beverly Hills

The Space Shuttle Atlantis Exhibit, Kennedy Space Center

2014 IES Illumination Award of Merit

Jacob K. Javits Convention Center Renovation and Expansion

2014 SARA Award of Merit

Minton-Capehart Federal Building

2014 GSA Design Award

The Barnes Foundation

2013 IES Illumination Award of Merit

2013 IES Illumination Award of Excellence: The Control Innovation Award

Miho Institute of Aesthetics – Chapel

2013 IESNY Lumen of Excellence

2013 IES Edwin F. Guth Memorial Award

2013 IES Illumination Award of Merit

The National September 11th Memorial

2012 IALD Award of Excellence

2012 IESNY Lumen of Excellence

2012 IES Illumination Award of Merit

Burj Khalifa

2011 PALME Award - Best Use of Exterior Lighting

2011 IESNY Lumen Citation