

Curriculum Vitae

JAMES ROBERT BENYA, PE, FIES, FIALD, LC, IEEE

Principal, Benya Lighting Design, West Linn, OR USA

Professor of Environmental Design, University of California at Davis

Chairman, Board of Fellows, Illuminating Engineering Society of North America (IESNA), 2006-2007

Co-Chairman, International Daylighting Symposium, Bilbao, Spain 2007

Keynote Speaker, 2006 Light Congress, New York

2006 IESNA Centennial Conference Featured Speaker and Author of Century Series Essay

2005 and 2006 LightFair International New York Master Lecturer on Sustainable Design

"At the leading edge of light" Metropolis magazine, 1999

"One of the top lighting designers in the US", Departures by American Express, 1999

"Top 25 Retail Lighting Designers in US", Display and Design Ideas, 2002

"Daylighting Expert", Metropolis Magazine, 2004

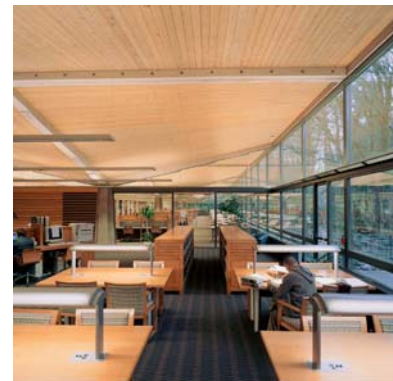
Jim Benya is a professional lighting designer and consultant with over 34 years of experience. He is a Registered Professional Electrical Engineer, Fellow of the Illuminating Engineering Society of North America (FIES), a Fellow of the International Association of Lighting Designers (FIALD), a member of the Institute of Electrical and Electronic Engineers (IEEE) and is Lighting Certified by the NCQLP. For more information, see www.benyalighting.com.

Designer

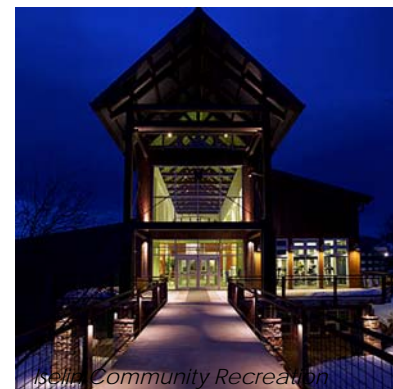
Mr. Benya's principal business is lighting design, in which he is recognized worldwide for a broad range of commercial and residential lighting design work, with a premier reputation in the specialties of energy efficiency, sustainable design and daylighting. His work has been published in every major lighting design and architectural journal, including *Architecture*, *Architectural Record*, *Architectural Lighting*, *Progressive Architecture*, *LD&A*, *Lighting Dimensions*, *Interiors*, *Interior Design*, *Designers West*, *Northern California Home and Garden*, *Architectural Digest*, and *Building Design and Construction*. He has won over 200 lighting design awards, including the Edison Award of Excellence, the Edison Award for Sustainable Design, the International Illumination Design Award of Excellence, the IALD Special Citation for Sustainable Design and the Halo/ASID First Place Award. His work is featured in nine books, including the Best of Lighting Design.

Educator

Mr. Benya began teaching in 1974 and recently joined the faculty of the University of California at Davis and the California Lighting Technology Center. In addition, he continues to provide certified professional development classes for the AIA, ASID, IIDA, IFMA, NECA and BOMA. Jim is considered one of the top presenters and speakers in the field, making educational presentations to over 2500 construction, energy and regulatory professionals every year. Mr. Benya's presentations include LightFair International, the IESNA Annual Conference, the IALD Annual Conference, the IDA Annual Meeting, the AIA Annual Conference, the ASID Annual Conference, the USGBC Annual Conference, the Energy Center of Wisconsin Annual Conference, the Efficiency Vermont Annual Conference, Light Congress, InfoCOMM, Electric, Electric West, and others. He is a former Adjunct Professor of Architecture at CCAC, the University of California and the University of Michigan. He has presented classes and lectures at over 50 colleges and universities including UC



Lewis and Clark Law Library, Edison Award for Sustainable Design, 2002



Aspen Community Recreation Center, Aspen, International Dark Sky Gold Award for Sustainable Design 2003

Berkeley, UC Irvine, UC San Diego, UCLA, Michigan, MIT, Oklahoma, Texas, Nebraska, Wisconsin, Oregon, Washington, Montana, Idaho, Nevada-Reno, Arizona State, Yale, Vermont, New Jersey Institute of Technology, and Virginia. Among Mr. Benya's corporate and agency education clients include General Electric, OSRAM, Sylvania, Philips, Southern California Edison, Pacific Gas & Electric, Portland General Electric, Seattle City Light, BC Hydro, Salt River Project, San Diego Gas and Electric, Commonwealth Edison, Consolidated Edison, Oklahoma Gas & Electric, Lutron Electronics, Engineered Lighting Products, Litecontrol, New York State Research and Development Corp., US EPA, US DOE (FEMP), Battelle National Labs, Sandia National Labs, Berkeley National Labs, Lightolier, Lithonia, and others.

Author

Mr. Benya was first published in *Electrical Consultant* in 1975. Since then, he is considered one of the best and most prolific writers in the history of lighting design, authoring or contributing to numerous technical and design journals ranging from the Advanced Lighting Guidelines and the Retrofit Handbook to the ASHRAE Green Guide, articles in design magazines and environmental journals (see publications list, attached). He is a contributing editor and columnist to *Architectural Lighting Magazine* and is a former columnist and contributing editor to *Architectural Record*. He also writes an Internet column on the Better Bricks website. His first textbook, ***Lighting Design Basics*** (with Mark Karlen) was published by Wiley and Sons in 2004.

Lighting Community

Jim is the past Director of Education and Director of External Affairs for the IALD and serves on the Board of LightFair International on behalf of IALD. Jim is a member of the Board of the International Dark Sky Association and Chairman of the Model Lighting Ordinance Task Force. He served on the Board of the National Council on Qualifications for the Lighting Professions, and as Past Chairman of the LC Test Committee, Past Chairman of the Examination Committee, and Test Committee member. He is former Chairman of the Design Process Committee for the IESNA, and serves on the California Energy Commission Advanced Lighting Advisory Committee (ALAC). He is a former member of the California Energy Commission's Advanced Lighting Professional Advisory Committee (ALPAC), Professional Advisory Group (PAG) and the Lighting Efficiency Advisory Group (LEAGue). He is a past member of the LightFair Conference Advisory Committee, the LightFair New Products Showcase Committee, the IESNA Annual Conference Committee, the Pan Pacific Lighting Exposition Conference Committee, and the IALD/IESNA Joint Committee on Certification.

Expert

In addition to providing consulting and educational services, Mr. Benya serves as an expert researcher and witness in the field of illumination. Over 15 years, he has been involved in over 40 trial cases ranging from personal injury claims to cases involving lighting design malpractice, product liability, trade dress/patent infringement, and libel. In addition, he has testified in public process as an expert, recognized by the State of California and surrounding states. Most recently, Mr. Benya has developed methods for simulating light pollution and testified in Environmental Impact reviews of proposed outdoor lighting systems. He has been interviewed and quoted broadly in the lighting press and in the Wall Street Journal, New York Times, San Francisco Chronicle, San Jose Mercury News, Christian Science Monitor, Arizona Republican, and other local and national press. Recently, products conceived and/or developed by Jim have become a commercial success including the Finelite Series 2, the Finelite Series 4, the Lithonia Avante Sconce, the Lightolier PowerTrip, and the Lutron Microwatt. He serves as a product development consultant to GE, Lightolier, Finelite, H E Williams, Focal Point, Lutron and Vistron.

Vitae

Education **University of Michigan**
BSE, Electrical Engineering, 1973
BS, Computer Science, 1973
Graduate Work in Computer Science, 1973

Affiliations **Illuminating Engineering Society of North America**
Fellow, 1991; Member, 1975
Technical Review Council, 2006-2007
Board of Fellows 1991-1996, 2003-present; Chair, 2006-2007
IESNA Presidential Citation 1994, 2007
IESNA South Pacific Coast Vice President's Award 1990
Member, Energy Management Committee 1992-2002

International Association of Lighting Designers (IALD)
Fellow 2006 and Professional Member, 1987
Board of Directors, 2000-2002
Director of Education 2000
Director of External Affairs 2001-2002
Representative to LightFair Board, 2001-2003
Representative to NCQLP Board and Council 2001-2005
Award for Distinguished Service, 2004

International Dark Sky Association (IDA)
Board of Directors (2001-present)
Chairman, Model Lighting Ordinance Working Group 2001-present

National Council for Qualifications for the Lighting Professions
Board of Directors 2001-2006
Chair, Test Committee, 1996-1998
Chair, Examination Committee 1998-2000
Test Committee 1996-1998, 2003-present

National Society of Professional Engineers
Member 1978-present

Institute of Electrical and Electronic Engineers
Member 2005-present

U.S. Green Buildings Council
Member 2000-present

American Management Association
Member 1992-present

California Energy Commission
Advanced Lighting Advisory Committee 1996-2002
Advanced Lighting Professional Advisory Group 1987-1992
Lighting Efficiency Advisory Group 1993-1996

American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
Committee 90.1 Member 1991-1996

Registrations and Certifications **Professional Engineer**
Michigan 24679
California E12078
Oregon pending

Lighting Certified, NCQLP, 1998
Certified Lighting Efficiency Professional (AEE) 1992-1997
Class A Energy Auditor, Iowa, 1977-present

Patents	D409325, Recessed wall mounted lighting fixture, with Ranieri Demand Response Communication System, engineering patent, with NEV Electronics and the University of California
Employment History	Principal, Benya Lighting Design , West Linn, OR, 1994-present Co-owner, Roeder Design , Dallas TX, 1998 Co-owner, Pacific Lightworks LLC , Portland OR and Pacific Lightworks Canada Ltd. Vancouver, BC, 1996-1998 Principal, Luminae Souter Lighting Design , San Francisco and Honolulu, HI, 1984-1994 Chief Electrical Engineer, Smith Hinchman & Grylls Associates , Detroit, MI 1980-1984 Electrical Engineer, Smith Hinchman & Grylls Associates , Detroit, MI 1973-1980
Community Service (partial list)	Architectural Heritage Museum of Portland <i>Pro-bono lighting design services 2000-present</i> Habitat for Humanity (Seattle and Portland) <i>Pro-bono lighting design services 1999-present</i> Holy Redeemer Catholic Church, Stayton <i>Pro-bono lighting design services 2002-2003</i> Artist's Repertory Theater <i>Pro-bono lighting design services 2005-present</i> New Mexico Heritage Museum <i>Pro-bono lighting design services 2002-2003</i>
Professional Writing Affiliations	VNU Publications Editor at Large, <i>Architectural Lighting</i> , 2006 Contributing Editor, <i>Architectural Lighting</i> , 2002-2005 Contributing Editor, <i>Architectural Lighting</i> , 1987-1992 Wiley and Sons Author, 1998-present <i>Textbook, "Lighting Design Basics" with Karlen</i> McGraw Hill Contributing Editor, <i>Architectural Record</i> , 1992-2001 New Buildings Institute Contributing Author, 1998-present <i>Advanced Building Guidelines 2004</i> <i>Advanced Lighting Guidelines 2001, 2003</i> Electric Power Research Institute Author, 1990-1996 <i>Lighting Fundamentals Handbook</i> <i>Lighting Controls: Patterns for Design</i> <i>Advanced Lighting Guidelines 1993</i> <i>Daylighting Guide</i> National Electrical Contractors Association Author, 2000-present <i>NECA/IESNA 501</i> <i>NECA/IESNA 502</i> <i>NECA/IESNA 503</i> <i>NECA/IESNA 505</i>

University of California at Davis

Professor of Environmental Design, 2007

Daylighting Academy Faculty, 2006

LightFair International

Master Series Presenter 2005-2006

Daylighting and Lighting Institute Lecturer 2004

Workshop Presenter 1990, 1991, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2007

Infocomm International

Infocomm Faculty 1997-2006

Annual three day class in lighting for AV facilities, with Yorgey

New Jersey Institute of Technology

Seminars in Daylighting for Schools 2004-2005

Energy Center of Wisconsin

Annual Seminars in Lighting Design 2000-2004, 2007

California High Performance Schools

Lighting and Daylighting Instructor 1999-2005

Architecture Magazine Seminars on Sustainable Design

Instructor, 2004-2005

Marylhurst University

Adjunct Lecturer in Interior Design 2002

Lutron Electronics/International Communications Institute

Audio Visual Lighting Instructor/Course Developer

1998-present

OSRAM SYLVANIA

APP\$ELL Lighting Instructor/Course Developer

1995-1997

US Federal Relighting Initiative

Federal Energy Management Program

Distance Learning Instructor 1998-present

American Society of Interior Designers

CEU Instructor 1983-present

Academy of Lighting Design

CEU Instructor 1996-present

California College of Arts and Crafts

Adjunct Professor of Architecture, 1986-1995

University of California at Berkeley

Adjunct Professor of Architecture 1984-1986

University of Michigan

Adjunct Professor of Design 1980-1984

Lawrence Institute of Technology

Adjunct Professor of Architecture 1974-1979

Major Awards

The Edison Award

- 2002 Award for Sustainable Design, LEWIS AND CLARK LAW LIBRARY
- 1996 Award of Merit, IL FORNAIO PORTLAND
- 1992 Award of Merit, ESPRIT DE CORP
- 1989 Award of Excellence, RUSS BUILDING
- 1989 Award of Excellence, BANK OF THE WEST
- 1989 Award of Merit, BROWN AND BAIN
- 1984 The Edison Award, FRANCO FERINI (with Moyer)

HALO/ASID Awards

- 1990 Halo/ASID First Place Commercial, BANK OF THE WEST

International Association of Lighting Designers Annual Awards

- 2003 Special Citation for Sustainable Design, SYMANTEC SPRINGFIELD

International Illumination Design Awards

- 2003 Guth Award of Merit, WEST LINN LIBRARY
- 2003 Guth Award of Merit, LEWIS AND CLARK LAW LIBRARY
- 2003 Guth Award of Merit, SYMANTEC SPRINGFIELD
- 2000 Guth Award of Merit, Grand Veranda Hotel
- 2000 Guth Award of Merit, Lithonia Lighting
- 1997 Guth Award of Merit, HARRAH'S MARDI GRAS CASINO
- 1996 Guth Award of Merit, CITY OF PHOENIX STREET LIGHTING
- 1995 Guth Award of Merit, PALACE CASINO
- 1994 Guth Award of Merit, CITY OF MEMPHIS TROLLEY AND MAIN STREET
- 1993 Guth Award of Merit, ESPRIT DE CORP OUTLET
- 1993 Guth Award of Merit and EPRI Efficiency Award, BEECH RESIDENCE
- 1992 Guth Award of Merit, STANFORD CHILDREN'S HOSPITAL
- 1991 Guth Award of Merit and EPRI Energy Efficiency Award, WOLF RESIDENCE/MARIN DESIGNERS SHOWCASE
- 1991 Guth Award of Merit, THE RESORT AT SQUAW CREEK
- 1991 Guth Award of Merit, THE MARIN CIVIC CENTER
- 1990 Guth Award of Merit, HILLSBOROUGH RESIDENCE
- 1989 Guth Award of Merit, EMBASSY SUITES KAA NAPALI, MAUI
- 1988 Award of Excellence, ST. MARY'S CATHEDRAL
- 1987 Guth Award of Merit, PAN PACIFIC LIGHTING EXPOSITION
- 1987 Guth Award of Merit, FRANCO FERINI
- 1986 Guth Award of Merit, RESIDENCE IN MARIN
- 1984 Guth Award of Merit, COMPREHENSIVE HEALTH SERVICES OF DETROIT
- 1984 Guth Award of Merit, AYL A FOR MEN
- 1981 Guth Award of Merit, ATLANTA INTERNATIONAL AIRPORT

Other Awards

- 2003 Better Bricks Professional Finalist, Sustainable Design Consultant
- 1995 US Department of Transportation and Endowment for the Arts Design for Transportation Award of Merit
- 1980 Michigan Governor's Award
- 1976 Electrical Consultant Energy Efficiency Design Award

PUBLICATIONS (Partial List)

<i>Title</i>	<i>Pub Date</i>	<i>Published by</i>	<i>Role</i>
Digital Imagery	2006	Architectural Lighting Magazine	Editor at Large
Dimming for Dummies	2006	Architectural Lighting Magazine	Editor at Large
Technologies of Sustainable Lighting	2006	Architectural Lighting Magazine	Editor at Large
Lighting for a Sustainable Future	2005	LD+A	Author, essayist
The Jewelry of Architecture	2005	Architectural Lighting Magazine	Regular Columnist
Useful Tools: Sustainable Technology Reviewed	2005	Architectural Lighting Magazine	Regular Columnist
Accessorizing with Lenses, Louvers , and Color	2005	Architectural Lighting Magazine	Regular Columnist
LightFair 2004 from the Floor	2004	Architectural Lighting Magazine	Regular Columnist
Lighting Design Basics	2004	Wiley and Sons	Co-author with Karlen
21 st Century Daylighting	2004	Architectural Lighting Magazine	Regular Columnist
The Light Art of James Turrell	2004	Architectural Lighting Magazine	Regular Columnist
Energy Codes – the Good, the Bad and the Ugly	2004	Architectural Lighting Magazine	Regular Columnist
Office Lighting Today	2003	Architectural Lighting Magazine	Regular Columnist
LightFair 2003 Review	2003	Architectural Lighting Magazine	Regular Columnist
LightFair 2004 Review	2004	Architectural Lighting Magazine	Regular Columnist
Light+Building Review	2004	Architectural Lighting Magazine	Regular Columnist
Bridges in Light	2003	Architectural Lighting Magazine	Regular Columnist
Starless Starless Night	2003	Architectural Lighting Magazine	Regular Columnist
ASHRAE Green Guide	2003	ASHRAE	Lighting Section Author
California High Performance Schools	2000, 2001, 2002	CHPS Consortium (SCE, SDG&E, PG&E, SMUD)	Lighting and Daylighting Author
Better Bricks	Internet 2002	Northwest Energy Efficiency Alliance	Contributing columnist
Advanced Lighting Guidelines	2001	New Buildings Institute	Contributing Scientist, Engineer and Author
Lighting Controls Pattern Book	1997	Electric Power Research Institute	Contributing Engineer and Author
Lighting Retrofit Handbook	1997	Electric Power Research Institute	Contributing Engineer and Author
Office Lighting AP\$ELL (internal sales education training)	1996	OSRAM SYLVANIA	Author
Advanced Lighting Guidelines 1993	1993	California Energy Commission; EPRI	Principal Engineer and Technical Author
ASHRAE.IES Standard 90.1-1989 User's Manual	1992	ASHRAE	Contributing writer Section 6
Lighting Fundamentals Handbook	1992	Electric Power Research Institute	Principal Engineer and Technical Author
Advanced Lighting Guidelines 1990	1990	California Energy Commission	Principal Engineer and Technical Author
Draft Standard for Installation	1996	National Electrical	Author

of Commercial Lighting Fixtures		Contractor's Association	
Draft Standard for Energy Efficient Residential Lighting Fixtures	1994	Green Seal	Co-Author (with Sardinsky)
Draft Standard for Compact Fluorescent Lamps	1993	Green Seal	Author
Draft Standard 90.1R Sections 8 and 9 (Electrical and Lighting)	1992	ASHRAE	Author
Showcase Homes Lighting Guide	6/94	PG&E	Author
Lighting Controls Study: Market Opportunities and Barriers to Implementation	8/94	Lighting Research Center	Contributing Author
Lighting: Significant Changes in the 1992 Title 24	3/92	PG&E "Ideas"	Author
Efficient Lighting for Commercial Buildings	6/85	PG&E	Author, Chapter 4 "Lighting Design"
Office Lighting	1/02	Architectural Lighting	Author
A Fixed Level Lighting System for the Visual Task Photometer	12/80	LD+A (IESNA)	Author
Methods of Computer Aided Illumination Design	10/75	LD+A (IESNA)	Author
Do it Yourself Photography	4/96	Lighting Design + Application	Author
Lighting on the Bleeding Edge	8/95	Architectural Record Lighting	Author
Light and the Human Animal	5/95	Architectural Record Lighting	Author
Quick! Read About Power Quality Now, Before You Fry a Subtransformer	8/93	Architectural Record Lighting	Author
Shattering Lighting Myths	2/93	Architectural record Lighting	Author
Lighting Design Meets Energy Efficiency	12/92	Electric Perspectives	Author
Lighting 2-D Art	8/92	Architectural Record Lighting	Author
Lighting Retrofit Considerations	7/92	Building Operating Management	Author
European Lighting: Impressions	8/91	Architectural Record Lighting	Author
Compact Fluorescent Caveats	5/91	Architectural Record Lighting	Author
Bluer Light, Better Sight	2/91	Architectural Record Lighting	Author
How to Become a Lighting Designer	8/90	Architectural Lighting	Author
Title 24 1991's Impact on Lighting	5/90	Architectural Lighting	Author
Getting Lighting Built Right Part II-Managing the Cost of Lighting	4/90	Architectural Lighting	Author
Getting Lighting Built Right Part I	1/90	Architectural Lighting	Author
General Illumination of Office Spaces	8/89	Architectural Lighting	Author
Making a Living at Lighting	2/89	Architectural Lighting	Author
Lighting for Healing	1/89	Architectural Lighting	Author
The art of control Part I: Architectural and residential dimming	8/88	Architectural Lighting	Author
Should Lighting Designers be Licensed	5/88	Architectural Lighting	Author
Matching Electric Light Sources	4/88	Architectural Lighting	Author
High Style, low voltage	2/88	Architectural Lighting	Author

Design and Application			
Photobiology: A Growing Concern	7/84	Designers West	Author
Light Loads	4/83	Progressive Architecture	Author
Retail: Jamba Juice	11/96	General Electric	Project
Lighting Culture	11/96	Architectural Lighting	Article/Industry Focus
Phoenix Towers Rise	5/96	Architectural Record Lighting	Project
Sky Dome	4/96	Lighting Design + Application	Project
Home Lighting Handbook	6/92	General Electric	Featured projects
Pacific Energy Center Features Lighting Classroom, Laboratories	5/92	Architectural Record Lighting	Project
Civic Splendor	11/91	Architectural Record Lighting	Project
The Hows and Whys of Shopping Center Lighting	2/91	Architectural Record Lighting	Article
Polished Banking	2/91	Designers West	Project
Packaging Repartee Part II	9/90	Architectural Lighting	Letters
Bringing Gothic Up to Date	6/90	Architectural Lighting	Project
Packaging - a Fact of Life?	6/90	Architectural Lighting	Letters
City Light	10/89	Designers West	Project
A Closer Look at Silver Film Reflectors	9/89	Architectural Lighting	Letters