Kate Sweater Hickcox

LIGHTING DESIGN / RESEARCH

PROFILE

Kate Sweater, MS, LC, MIES has been working in the field of lighting for over a decade, with experience in architectural lighting design, fixture design & engineering and lighting research into lighting technologies and human factors, in the United States and Europe.

Kate holds a Master of Science in Architectural Sciences (Lighting) from the Lighting Research Center at Rensselaer Polytechnic Institute, and a Bachelors of Fine Art (Furniture) from the Rhode Island School of Design.

CONTACT

dwaal-design . com

kate@dwaal-design . com

SOCIAL

Kate Sweater Hickcox

EXPERIENCE

OWNER, DESIGN PRINCIPLE @ DWAAL

2014 - CURRENT

Lighting design studio that considers each lighting project as an opportunity to learn and grow. Research alongside thoughtful creative design are the basis of our approach. We will try to discover the essence of the space, and find ways to express this through lighting.

OFFICER, GENERAL MANAGER @ INVISUA NA

January 2017 - January 2018

Invisua NA brings the possibilities of dynamic lighting to indoor applications. We developed an innovative dynamic lighting system that will make indoor lighting more interesting, flexible and natural. Our fixtures also bring saturated colors, tunable white, and a high level of control to displays and retail.

PART TIME FACULTY @ PARSONS SCHOOL OF DESIGN

July 2016 - CURRENT

Teaching part time in the School of Constructed Environments - Allied studios class (Lighting Design and Interior Design students)

LIGHTING PRODUCT RESEARCH ADVISOR @ MOOOI, BV

March 2013 - June 2013

Working on a contract basis, as a lighting product research advisor and consultant - focusing on LED products and integration into the American market

RESEARCH SPECIALIST @ LIGHTING RESEARCH CENTER, RPI

August 2011 - December 2013

Research in the field of lighting - from technologies to applications and energy use, from design to health and vision. Research and testing of solid-state lighting systems and technologies, as well as supporting the application of lighting technologies through education and design.

LIGHTING FIXTURE DESIGN ENGINEER @ BALDINGER LIGHTING

July 2007 - November 2008

Design and engineering of high-end custom lighting fixtures (made on premises, in-house shop) for residential, hospitality, and many other applications.

HONORS

LIGHTING DESIGN FELLOW @ DESIGN TRUST FOR PUBLIC SPACE

August 2016 - June 2017

EDUCATION

MASTERS OF SCIENCE, LIGHTING @ RENSSELAER POLYTECHNIC INSTITUTE

July 2009 - June 2011

BFA FURNITURE DESIGN @ RHODE ISLAND SCHOOL OF DESIGN

September 1998 - June 2002

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SOCIAL

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SKILLS

• Holds certificate of completion: NIH course "Protecting Human Research Participants"

• AutoCAD (3-D), Adobe Suite, Rhino, Illustrator, Photoshop, Excel, Microsoft Office Suite, AGI32, Sketchup, LabView, SPSS

• Teaching, Lectures, Education, Mentoring

• Blueprints, scale drawings/models, hand drawings/renderings

• 3-D work including figurative sculpting, casting, molds, models

• Woodshop skills (planeing, joining, bending, etc), Metalworking (TIG, MIG, Arc welding, Oxy-Acetylene, forging, casting, fine-soldering/silver), waxworking, casting plastics/resins, patternmaking, sculpture, CNC, lasercutting

• Project management, design research, sustainable design, product design

RECENT PUBLICATIONS

Bullough, J.D., N.P. Skinner, and K. Sweater Hickcox. 2013. Visual task performance and perceptions of lighting quality under flickering illumination. Journal of Light and Visual Environment 37(4): 189–193. doi: IEIJ130000510

Petteri Teikari, Hemi Malkki , Benjamin Lochocki and Kate Sweater Hickcox. Arduino-based LED stimulator system for vision research.
doi: 10.1167/13.15.55 Journal of Vision January 1, 2013 vol. 13 no. 15 article P20

ASSIST recommends...Dimming: A Technology-neutral Definition
Published April 2013
This volume of ASSIST recommends offers recommended parameters for lamp dimming based on users' expectations for how a light should dim and is suitable for all light source technologies.
Volume 12, Issue 1: Dimming: A Technology-neutral Definition

Sweater Hickcox, K., N. Narendran, J.D. Bullough, and J.P. Freyssinier. 2013. Effect of different coloured luminous surrounds on LED discomfort glare perception. Lighting Research and Technology 45(4): 464–475; doi:10.1177/1477153512474450.

ORGANIZATIONS

Member of the IES Brightness Committee

Member of the IES Museum & Art Gallery Lighting Committee