



IESANZ 2019 CONFERENCE PRELIMINARY PROGRAM

21-22 November 2019

Melbourne Convention & Exhibition Centre

Current as of 1 June 2019. Subject to Change.

PRE-CONFERENCE WORKSHOP

WEDNESDAY 20 NOVEMBER 2019	
8:00am - 5:00pm	REGISTRATION
9:00am - 5:00pm	PRE-CONFERENCE WORKSHOP Venue: Crown Melbourne Specifying, Measuring and Applying Human Centric Lighting <i>Dr Mark S. Rea and Dr Mariana G. Figueiro</i>
5:30pm - 6:30pm	WALKING TOUR: Guided Tour of the Forum Melbourne

THURSDAY 21 NOVEMBER 2019									
7:00am - 5:00pm	REGISTRATION								
8:30am - 10:15am	PLENARY SESSION 1								
8:30am - 8:45am	Official Welcome / Opening								
8:45am - 9:45am	KEYNOTE: Human Centric Lighting will not Happen Until we Understand V(λ) <i>Dr Mark S. Rea</i>								
9:45am - 10:15am	How Things are Connected in the Strangest Ways <i>Dr Emrah Baki Ulas</i>								
10:15am - 10:45am	MORNING TEA								
10:45am - 12:15pm	<table border="1"> <thead> <tr> <th>CONCURRENT SESSION 1: HUMAN-CENTRIC LIGHTING IN FOCUS</th> <th>CONCURRENT SESSION 2: FUTURE OF LIGHTING</th> </tr> </thead> <tbody> <tr> <td>Lighting for Control Rooms - Not all Control Rooms are the Same <i>Jennifer Long, Visual Ergonomics Pty Ltd</i></td> <td>IoT-Based PHM Framework for LED Lighting Systems <i>Shan N Lee, Monash University Malaysia</i></td> </tr> <tr> <td>Lighting: Human-Centred Design with Radiation <i>Tim Shotbolt, Light & the Biosphere</i></td> <td>Spatial Optimization of a Multispectral Illumination Source <i>Sanush Abeysekera, Monash University Malaysia</i></td> </tr> <tr> <td>A Feasibility Study of Using Ocular Behaviour as an Indicator for Assessing Glare in an Office Setting <i>Zahra Hamedani, Griffith University</i></td> <td>Spectral Optimization of a Commercialised Multi-channel SSL Luminaire with Tunable Circadian Impact <i>Rachel Saw, Monash University Malaysia</i></td> </tr> </tbody> </table>	CONCURRENT SESSION 1: HUMAN-CENTRIC LIGHTING IN FOCUS	CONCURRENT SESSION 2: FUTURE OF LIGHTING	Lighting for Control Rooms - Not all Control Rooms are the Same <i>Jennifer Long, Visual Ergonomics Pty Ltd</i>	IoT-Based PHM Framework for LED Lighting Systems <i>Shan N Lee, Monash University Malaysia</i>	Lighting: Human-Centred Design with Radiation <i>Tim Shotbolt, Light & the Biosphere</i>	Spatial Optimization of a Multispectral Illumination Source <i>Sanush Abeysekera, Monash University Malaysia</i>	A Feasibility Study of Using Ocular Behaviour as an Indicator for Assessing Glare in an Office Setting <i>Zahra Hamedani, Griffith University</i>	Spectral Optimization of a Commercialised Multi-channel SSL Luminaire with Tunable Circadian Impact <i>Rachel Saw, Monash University Malaysia</i>
	CONCURRENT SESSION 1: HUMAN-CENTRIC LIGHTING IN FOCUS	CONCURRENT SESSION 2: FUTURE OF LIGHTING							
	Lighting for Control Rooms - Not all Control Rooms are the Same <i>Jennifer Long, Visual Ergonomics Pty Ltd</i>	IoT-Based PHM Framework for LED Lighting Systems <i>Shan N Lee, Monash University Malaysia</i>							
Lighting: Human-Centred Design with Radiation <i>Tim Shotbolt, Light & the Biosphere</i>	Spatial Optimization of a Multispectral Illumination Source <i>Sanush Abeysekera, Monash University Malaysia</i>								
A Feasibility Study of Using Ocular Behaviour as an Indicator for Assessing Glare in an Office Setting <i>Zahra Hamedani, Griffith University</i>	Spectral Optimization of a Commercialised Multi-channel SSL Luminaire with Tunable Circadian Impact <i>Rachel Saw, Monash University Malaysia</i>								
12:15pm - 1:15pm	LUNCH								
1:15pm - 2:45pm	<table border="1"> <thead> <tr> <th>CONCURRENT SESSION 3: HEALTH, WELLBEING AND LIGHT</th> <th>CONCURRENT SESSION 4: LATEST IN LIGHTING STANDARDS</th> </tr> </thead> <tbody> <tr> <td>Human Centric Lighting for Night Shift Workers <i>Bow Jaruwangsanti, Design by Bow</i></td> <td>AS4282 Control of the Obtrusive Effects of Outdoor Lighting - Standards Update from 1997 - 2019 <i>Laurie Cook, Beca Ltd</i></td> </tr> <tr> <td>Speaker to be advised</td> <td>Why Light Pollution must be a Part of the Conversation <i>Landon Bannister, Southern Lighting and Distribution</i></td> </tr> <tr> <td>Speaker to be advised</td> <td>Speaker to be advised</td> </tr> </tbody> </table>	CONCURRENT SESSION 3: HEALTH, WELLBEING AND LIGHT	CONCURRENT SESSION 4: LATEST IN LIGHTING STANDARDS	Human Centric Lighting for Night Shift Workers <i>Bow Jaruwangsanti, Design by Bow</i>	AS4282 Control of the Obtrusive Effects of Outdoor Lighting - Standards Update from 1997 - 2019 <i>Laurie Cook, Beca Ltd</i>	Speaker to be advised	Why Light Pollution must be a Part of the Conversation <i>Landon Bannister, Southern Lighting and Distribution</i>	Speaker to be advised	Speaker to be advised
	CONCURRENT SESSION 3: HEALTH, WELLBEING AND LIGHT	CONCURRENT SESSION 4: LATEST IN LIGHTING STANDARDS							
	Human Centric Lighting for Night Shift Workers <i>Bow Jaruwangsanti, Design by Bow</i>	AS4282 Control of the Obtrusive Effects of Outdoor Lighting - Standards Update from 1997 - 2019 <i>Laurie Cook, Beca Ltd</i>							
Speaker to be advised	Why Light Pollution must be a Part of the Conversation <i>Landon Bannister, Southern Lighting and Distribution</i>								
Speaker to be advised	Speaker to be advised								
2:45pm - 3:15pm	AFTERNOON TEA								
3:15pm - 5:30pm	PLENARY SESSION 2								
3:15pm - 3:45pm	A Roadmap for Implementation of Human Centric Lighting <i>Dr Douglas Steel, NeuroSense</i>								
3:45pm - 4:45pm	KEYNOTE: The Lighting Design Objectives (LIDOs) Procedure <i>Dr Christopher "Kit" Cuttle</i>								
4:45pm - 5:30pm	KEYNOTE: <i>Prof Steven W. Lockley</i>								
5:30pm - 6:30pm	WELCOME DRINKS								
6:30pm - 8:00pm	WALKING TOUR: City Lights Tour								

FRIDAY 22 NOVEMBER 2019									
7:00am - 5:00pm	REGISTRATION								
8:30am - 10:30am	PLENARY SESSION 3								
8:30am - 9:30am	KEYNOTE: From Retinal Cell to Virtual Reality: A Psychobiological Approach to Human Centric Lighting <i>Dr Motoharu Takao</i>								
9:30am - 10:30am	KEYNOTE: "Human Centric Lighting": Does it Really Have to be Blue-Enriched and Tunable? <i>Dr Mariana G. Figueiro</i>								
10:30am - 11:00am	MORNING TEA								
11:00am - 12:30pm	<table border="1"> <thead> <tr> <th>CONCURRENT SESSION 5: FUTURE OF LIGHTING</th> <th>CONCURRENT SESSION 6: TECHNOLOGY LIGHTING THE WAY</th> </tr> </thead> <tbody> <tr> <td>Circa, a Wearable Spectral Sensor to Measure Light Exposure Impacting the Human Circadian System <i>Anas Mohamed, Monash University Malaysia</i></td> <td>Study of Unified Glare Rating of LED Luminaires with Diffusers <i>Dariusz Kacprzak, The University of Auckland</i></td> </tr> <tr> <td>Influence of LED-Based Assistive Lighting on the Autonomous Mobility of Low Vision People <i>Vineetha Kalavally, Monash University Malaysia</i></td> <td>Performance of LED Lighting Systems in the Presence of Load Control Ripple Injection Signalling <i>Sean Elphick, Australian Power Quality & Reliability Centre, University of Wollongong</i></td> </tr> <tr> <td>Visual Comfort in Green Office Buildings: Using Field Studies to Inform Design <i>Veronica Garcia-Hansen, Queensland University of Technology</i></td> <td>A Whole New Level of Real-Time Light Simulation and Design Communication Tools <i>Christopher Blewitt, migenius Pty Ltd</i> <i>Carl Gray, GrayLight</i></td> </tr> </tbody> </table>	CONCURRENT SESSION 5: FUTURE OF LIGHTING	CONCURRENT SESSION 6: TECHNOLOGY LIGHTING THE WAY	Circa, a Wearable Spectral Sensor to Measure Light Exposure Impacting the Human Circadian System <i>Anas Mohamed, Monash University Malaysia</i>	Study of Unified Glare Rating of LED Luminaires with Diffusers <i>Dariusz Kacprzak, The University of Auckland</i>	Influence of LED-Based Assistive Lighting on the Autonomous Mobility of Low Vision People <i>Vineetha Kalavally, Monash University Malaysia</i>	Performance of LED Lighting Systems in the Presence of Load Control Ripple Injection Signalling <i>Sean Elphick, Australian Power Quality & Reliability Centre, University of Wollongong</i>	Visual Comfort in Green Office Buildings: Using Field Studies to Inform Design <i>Veronica Garcia-Hansen, Queensland University of Technology</i>	A Whole New Level of Real-Time Light Simulation and Design Communication Tools <i>Christopher Blewitt, migenius Pty Ltd</i> <i>Carl Gray, GrayLight</i>
	CONCURRENT SESSION 5: FUTURE OF LIGHTING	CONCURRENT SESSION 6: TECHNOLOGY LIGHTING THE WAY							
	Circa, a Wearable Spectral Sensor to Measure Light Exposure Impacting the Human Circadian System <i>Anas Mohamed, Monash University Malaysia</i>	Study of Unified Glare Rating of LED Luminaires with Diffusers <i>Dariusz Kacprzak, The University of Auckland</i>							
Influence of LED-Based Assistive Lighting on the Autonomous Mobility of Low Vision People <i>Vineetha Kalavally, Monash University Malaysia</i>	Performance of LED Lighting Systems in the Presence of Load Control Ripple Injection Signalling <i>Sean Elphick, Australian Power Quality & Reliability Centre, University of Wollongong</i>								
Visual Comfort in Green Office Buildings: Using Field Studies to Inform Design <i>Veronica Garcia-Hansen, Queensland University of Technology</i>	A Whole New Level of Real-Time Light Simulation and Design Communication Tools <i>Christopher Blewitt, migenius Pty Ltd</i> <i>Carl Gray, GrayLight</i>								
12:30pm - 1:30pm	LUNCH								
1:30pm - 3:00pm	<table border="1"> <thead> <tr> <th>CONCURRENT SESSION 7: ENERGY EFFICIENCY</th> <th>CONCURRENT SESSION 8: INDUSTRY AND STANDARDS PANEL</th> </tr> </thead> <tbody> <tr> <td>Real Time and Weather Modelling of Daylight Availability in Complex Transport Structures: reduces Illumination and Electricity Capex & Opex by 50% <i>Richard Morrison, Light in Design by Jenarick Consulting</i></td> <td rowspan="3">Panellists to be advised</td> </tr> <tr> <td>Update on Regulation of Lighting Products under the Greenhouse and Energy Minimum Standards Act <i>David Boughey, Department of Environment and Energy</i></td> </tr> <tr> <td>Speaker to be advised</td> </tr> </tbody> </table>	CONCURRENT SESSION 7: ENERGY EFFICIENCY	CONCURRENT SESSION 8: INDUSTRY AND STANDARDS PANEL	Real Time and Weather Modelling of Daylight Availability in Complex Transport Structures: reduces Illumination and Electricity Capex & Opex by 50% <i>Richard Morrison, Light in Design by Jenarick Consulting</i>	Panellists to be advised	Update on Regulation of Lighting Products under the Greenhouse and Energy Minimum Standards Act <i>David Boughey, Department of Environment and Energy</i>	Speaker to be advised		
	CONCURRENT SESSION 7: ENERGY EFFICIENCY	CONCURRENT SESSION 8: INDUSTRY AND STANDARDS PANEL							
	Real Time and Weather Modelling of Daylight Availability in Complex Transport Structures: reduces Illumination and Electricity Capex & Opex by 50% <i>Richard Morrison, Light in Design by Jenarick Consulting</i>	Panellists to be advised							
Update on Regulation of Lighting Products under the Greenhouse and Energy Minimum Standards Act <i>David Boughey, Department of Environment and Energy</i>									
Speaker to be advised									
3:00pm - 3:30pm	AFTERNOON TEA								
3:30pm - 5:00pm	PLENARY SESSION 4								
3:30pm - 4:30pm	KEYNOTE: The Effect of Light on our Sleep-Wake Cycle: New Lighting Insights, Definitions and Designs <i>Luc Schlagen</i>								
4:30pm - 5:00pm	The Wrap Up Closing discussion with Keynotes <i>Dr Mark S. Rea, Dr Kit Cuttle, Alertness CRC speaker, Dr Motoharu, Dr Mariana G. Figueiro and Luc Schlagen</i>								
6:30pm - Midnight	IESANZ AWARDS & GALA DINNER								