

# ALAN 2018 preliminary schedule

## Sunday, November 11

7:30-8:45 AM (tentative) Registration

20:00-21:00 Skyglow presentation, **Gavin Heffernan & Harun Mehmedinovic**

## Monday, November 12

8:00-9:00 registration open & poster setup

8:45-9:00 session chair meeting

### Oral Session 1 – Opening Session

**Chair: John Barentine**

9:00-9:20	Welcome to ALAN! Welcome to Utah!	
9:20-9:45	<b>Alan Matheson Jr.</b>	Utah's commitment to dark skies
9:45-10:05	Daniel Mendoza	Urban Emissions and Nightlights
10:05-10:25	Sara Pritchard & Erin McLaughlin	Describing artificial light at night: Keywords in light pollution literature and why they matter
10:25-10:40	Dave Kieda & Stephen Goldsmith	The University of Utah Consortium for Dark Sky Studies
10:40-11:00	Coffee break	

## Oral Session 2 – Technology & Design

**Chair: Nancy Clanton**

11:00-11:05	Gold Sponsor Pitches	
11:05-11:20	Poster session elevator pitches	
11:20-11:45	<b>Vellachi Ganesan</b>	From Singapore to Salt Lake City: Perspectives of Lighting and Darkness Design
11:45-12:05	Bob Adams	Letting the Stars Shine
12:05-12:25	Bruce Kinzey	Decoupling Outdoor Lighting from Sky Glow
12:25-12:35	Discussion & conclusion	
12:35-13:45	Lunch	
13:45- 15:30	<b>Poster Session 1</b>	
15:00-15:30	coffee available	

### Posters:

Presenter	Title
Abraham Haim	Loss of the Night Darkness by Artificial Light at Night (ALAN) – Is It a Loss of Ecosystem Services?
Alexandre Simoneau	Hyperspectral study of the impact of private lighting on skyglow at the Asiago Observatory, Italy
Constance Walker	Globe at Night: An Awareness Campaign to Reduce Light Pollution
Amit Green	Exposure to Screens of Digital Media Devices, Sleep and Concentration Abilities in Israeli Adults
Cooper Farr	Addressing the impact of light pollution on birds in Salt Lake City, Great Salt Lake and its Wetlands
Jochen Krautwald	Ecolinguistical analysis of knowledge transfer of the topic of artificial outdoor lighting
Jaromir Petrzala	City emission function as the solution of an inverse problem
Kai Pong Tong	Measuring European angular distribution of upwelling artificial light with the Suomi NPP VIIRS–DNB
Kellie Pendoley	Environmental Management Light Pollution Guidelines for Marine Turtles, Seabirds and Migratory Shorebirds

Li-Wei Hung	From HPS to LED: the plan for measuring changes in skyglow before and after a countywide lighting retrofit project
Martin Morgan-Taylor	Modelling and measurements of Light pollution at Malvern Hills AONB, for the effect of Herefordshire conversion to blue-rich LED lighting.
Melissa Hey	Light pollution and faunal community effects on litter decomposition
Nataliya Rybnikova	Short Wavelength Illumination in the Areas of Different Socio-Economic Status: A case study of the metropolitan area in Israel
Nicole Rodriguez Cavero	Using Astronomical CCD Imagery Techniques for the Study of Urban Light Domes at a Small College
Nicolas Valet	Evaluating streetlights characteristics relevance for the limitation of light pollution impact on bats within protected areas
Salvador J. Ribas	Interaction of clouds and fog with the measure of Night Sky Brightness
Sharolyn Anderson	The All-sky Light pollution Ratio (ALR) characterized using field data and modeled VIIRS data
Stan Moaraf	Artificial light at night increases survival of new neurons and suppresses melatonin in birds
Susanne Stephan	Effects of skyglow on physiology and diurnal rhythm of phytoplankton strains

## Oral Session 3 - Parallel Session

### Session 3a Mixed session

**Chair: Kellie Pendoley**

### Session 3b Lighting regulation

**Chair: Sibylle Schroer**

15:30-15:50	Oren Levy	Martin Morgan-Taylor
	Coral reproduction and the timing of spawning in the era of rapid urbanization and ecological light pollution (ELP)	The Island of Saint Helena as an example of Metrics Based Legislation to Address Artificial Light at Night Problems and to Promote Dark-sky Tourism
15:50-16:10	Elizabeth Perkin	Benedikt Huggins
	Stream Insect Acclimation to ALAN	Legal restrictions on artificial light at night
16:10-16:30	Adam Mitchell	Sébastien Giguère
	LED Lighting: Fighting the brightening on turtle nesting beaches	10 years of social engagement: lessons from Mont-Megantic's International Dark-Sky Reserve
16:30-16:50	Jeremy White	Nancy Clanton & April Stevenson
	A citizen science approach to quantify illuminance levels of sea turtle habitat in Gulf Islands National Seashore	Helping Communities Develop a Lighting Ordinance
16:50-17:00	Discussion & conclusion	
17:00-18:30	Optional open discussion in poster room	
17:15-18:15	Workshop: Discussion of light assessment in epidemiological studies	
19:00	Mixer and stargazing	

## Tuesday, November 13

### Oral Session 4 – Plenary session - Society

Chair: Dietrich Henckel

9:00-9:25	<b>Josiane Meier</b>	Contentious Lighting: Understanding Lighting Conflicts
9:25-9:40	Poster session elevator pitches	
9:40-10:00	Andreas Hänel	From Research to Practice: ALAN in Star Parks in Germany
10:00-10:20	Robert Sullivan	Best Management Practices for Mitigating Social and Ecological Impacts of Artificial Lighting at Night on BLM-Administered Lands
10:20-10:40	Megan Bonham	Representing the Night Sky: Examining the Roles of 'Lay Experts' and Sensory Experiences in Dark Sky Preservation
10:40-10:50	Discussion and Conclusion	
10:50-11:10	Coffee break	

## Oral Session 5 - Parallel session

### Session 5a M&M

### Session 5b Biology & Ecology

Chair: Salvador Ribas

Chair: Liz Perkin

11:10-11:30	Brian Espey	Anat Barnea
	Monitoring public lighting in Ireland: using space imagery and lighting inventories	Artificial Light At Night Increases Neurogenesis And Suppresses Melatonin In Birds In A Dose-dependent Manner
11:30-11:50	Geza Gyuk	Andrew Farnsworth
	NITELITE: a High-Altitude Balloon (HAB) framework for angularly dependent temporal sensing of light pollution	Migratory birds' exposure to artificial light at night at the continental scale
11:50-12:10	Kai Pong Tong	Itay Malek
	Characterizing local properties of artificial light at night	Reproductive and Body Mass Responses of Australian Budgerigars ( <i>Melopsittacus Undulatus</i> ) to Short Wavelength Artificial Light at Night (ALAN) Exposure: Is it an exceptional Avian Model?
12:10-12:30	Andreas Jechow	Kamiel Spoelstra
	Winter (and arctic) light pollution: a new frontier?	Rhythms in the dark: direct and systemic impact of light at night on temporal organization of activity
12:30-12:50	Zoltán Kolláth	Kévin Barré
	Spectral survey of sky quality	Landscape-dependent effects of artificial light on bat activity
12:50-13:00	discussion & conclusion	12:50-13:00 discussion & conclusion
13:00 – 14:00	Lunch	
14:00-15:30	<b>Poster Session 2</b>	
15:10-15:30	coffee available	

## Posters:

Presenter	Title
Adam Mitchell	Sky42 - Measuring light with autonomously operated DSLR cameras: Generation II
Ariadna Garcia Saenz	Evaluating Artificial light at night (ALAN) risk exposures in gastroesophageal cancer and chronic lymphocytic leukemia in Spain (MCC-Spain study)
Alexandre Simoneau	Call for features: New light pollution model
Constance Walker	"Dark Skies for All": Public Engagement on Light Pollution
Dan Duriscoe	Using broadband CCD photometry and spectroscopy to identify sources of sky glow
Dénes Száz	Dual ecological trap of the night-swarming mayfly Ephoron virgo at lamp-lit bridges in Europe
Salvador J. Ribas	Pyrenees La Nuit: Pyrenean strategy for the protection and improvement of the nocturnal environment
Héctor A. Solano Lamphar	SkyMeAPP: a citizen science Project to study the emission function of ground based light sources
Inbal Ayalon	The effect of ecological light pollution on the physiology and recruitment on coral reefs from Eilat Red Sea
Jacqueline Degen	Combining radar technology and all-sky imagery to study flight to light behavior of moths
Jennifer Liu	Growth and development of African Clawed Frog ( <i>Xenopus laevis</i> ) larvae reared under different intensities of LED light at night
John Barentine	Do International Dark Sky Places Stay Dark After Accreditation?
Janet Wong	Use of Live Sky Quality Meters for Outreach and Public Awareness
Ken Walczak	NITELITE: An Open Source Stratospheric Light Pollution Imaging System
Kornél Kolláth	Monitoring the night sky at Lake Balaton
Ladislav Kómar	Estimation of city uplight fraction for selected U.S. cities using minimization technique
Paul Marchant	Major Errors in Research on Lighting and Public Safety
Roland Dechesne	Integrated study of Sky Glow, Calgary, Alberta, Canada
Souhad Chbeir	Disruption of endogenous circadian rhythms by exposure to light at night accelerates pancreatic tumor growth in mice
Steffon Williams	The effect of artificial light at night (ALAN) on activity patterns of a nocturnal salamander

## Oral Session 6 - Parallel session

### Session 6a Mixed session

**Chair: Constance Walker**

### Session 6b Biology & Ecology

**Chair: Susanne Stephan**

15:30-15:50	Benjamin Banet	Franz Hölker
	From Brighter than the Moon to Dimmer than the Stars: Hemispherical Photography of Nighttime Illumination Across the American West	Illuminating lakes: assessing skyglow effects in ecosystem-scale experiments
15:50-16:10	Roland Dechesne	Franziska Kupprat
	What Went Wrong? The Failure of New York City's Crime-Reducing Lighting Scheme	Melatonin concentrations are decreased by very low intensities of artificial light at night in European perch ( <i>Perca fluviatilis</i> )
16:10-16:30	Sibylle Schroer	TBA
	STARS4ALL – Citizen science to save European nightscapes	
16:30-16:50	Rosalía Lugo	Simone Giavi
	Youth Organization for Lights Out: Engaging Chicago Youth in Light Pollution Research and Activism	Street lamps disrupt flower-visitor interactions beyond the illuminated area
16:50-17:00	Discussion & conclusion	

Conference dinner in the evening starting at 19:00 earliest (Keynote by **Shirlee Silversmith**)



## Wednesday, November 14

### Oral Session 7 – Health

Chair: Not yet assigned

9:15-9:40	<b>Eva Schernhammer</b>	Night shift work, cancer risk, and beyond: new insights from epidemiological studies
9:40-10:00	Amit Green	Comparing the Response to Acute and Chronic Exposure to Short Wavelength Lighting Emitted from Computer Screens
10:00-10:20	Manolis Kogevinas	Artificial light at night (ALAN), blue light spectrum exposure and colorectal cancer risk in Spain (MCC-Spain study)
10:20-10:40	Kristan Aronson	Residential outdoor light at night and breast cancer risk in Vancouver, British Columbia
10:40-10:50	discussion & conclusion	
10:50-11:10	coffee break	

## Oral Session 8 – Measurement & Modeling

Chair: Li-Wei Hung

11:10-11:35	<b>Ron Gibbons</b>	The Balance of Roadway and Outdoor Lighting
11:35-11:55	Ranjay Shrestha	TBA
11:55-12:15	Rémi Boucher	IDA's first International Dark-Sky Reserve is 10 years old: Monitoring the evolution of night sky brightness over Mont-Megantic's protected dark sky
12:15-12:35	Christopher Kyba	A proposed method for estimating regional and global changes in energy consumption for outdoor lighting
12:35-12:55	Hector Linares	Modelling the night sky brightness and light pollution sources of Montsec protected area
12:55-13:05	discussion & conclusion	
13:05 – 14:20	lunch & take down posters	

## Oral Session 9 – Biology and Ecology

Chair: Franz Hölker

14:20-14:45	<b>Neil Carter</b>	Effects of artificial light at night on wildlife habitats: integrating science with decision- support tools
14:45-15:05	Jeffrey Buler	Nocturnally-migrating birds traverse Earth's most light-polluted regions, and bright lights confound their habitat use en route
15:05-15:25	Tim J. W. Walles	Zooplankton response to "skyglow" revealed by high-resolution in-situ video in large experimental lake enclosures
15:25-15:45	Maja Grubisic	How much light is too much? Identifying critical thresholds of impacts of nocturnal LED illumination on aquatic primary producers
15:45-15:55	Discussion	
15:55-16:00	Announcement of ALAN 2020	
16:00-16:05	Conference wrap up	