

Schedule of ALAN 2023 Activities—University of Calgary Campus

Registration table—collect your badges; Authors deliver PowerPoints

- August 9: 3:00 pm to 6:00 pm in the lobby of International House
- August 10: 9:00 am to 6:00 pm in the lobby of International House
- August 11: 7:45 am to 9:00 am in the Atrium of the Taylor Institute
- August 12: 7:45 am to 9:00 am in the Atrium of the Taylor Institute

Poster set-up in Taylor Institute, Studio D&E (rooms 140 & 148)

- August 10: 3:00 pm to 6:30 pm
- August 11: 7:45 am to 9:00 am

Tours and Workshop

Both tours depart promptly at 8:30 am from International House. Plan to get breakfast in MacEwan Hall (6-minute walk, see map on page 8). Bake Chef and Coffee Company open at 7:00 am and Tim Hortons opens at 7:30 am; other fast-food restaurants open at 8:00 am. *Takeaway is recommended.* Collect your boxed lunch at International House (in the lobby) then check-in with the tour guide to board the bus.

- August 9
 - 8:30 am to 5:30 pm: **Martian Analogues in the Rockies tour**
 - 6:30 pm: **Optional dinner** for tour participants and delegates in The Landing (beside International House)
- August 10, 8:30 am to 5:00 pm: **Cretaceous/Tertiary Boundary & Tyrrell Museum of Paleontology tour**
- August 10, 1:00 to 5:00 pm: **How to Shoot Landscapes by Night—From Field to Photoshop, Senate Room** in International House

Reception in the Taylor Institute Atrium and Forum

- August 10, 6:30 – 9:30 pm: Food, social time, cash bar. First Nations dance plus a presentation by Chris Ratzlaff of the Alberta Aurora Chasers.

Public Event in the Science Theatres, room ST-148

- August 11, 7:30 to 9:30 pm: Join Dr. John Barentine for an educational exploration of light pollution. While aimed at the public, ALAN delegates are welcome to attend; but you must pre-register so we can manage attendance. Register [here](#).
- Note: there is no conference supper or event planned for delegates the evening of August 11.

Banquet in the Taylor Institute, Forum (TI-160)

- August 12, 6:30 to 9:30 pm. Casual dress dinner with an invited talk by Jennifer Howse

Conference Sessions Aug 11-13

Plenary and concurrent presentations and posters, and delegate breakfasts, lunches, and coffee breaks all happen in the Taylor Institute.

Taylor Institute Map



The Forum (TI-160): plenary sessions, technical sessions, reception (plus Atrium), and banquet

Studio A (TI-110): technical sessions, session chair meeting

Studios D & E (TI 140 & 148): posters

Atrium: delegate breakfasts, lunches, and coffee breaks; cash bar and food for reception; group photo (photo may be outside)

Friday 2023 Aug 11 Morning

The Forum (TI-160)

Studio A (TI-110)

8:30		Session Chairs Meeting
9:00	Opening Remarks	
	Session chair: Dietrich Henckel	
9:30	Nona Schulte-Römer , Invited Speaker Better safe than sorry? A social-scientific reflection on light and security	
9:55	Lan Yu Empirical Measurement of Lighting Technology Changeover in New York City	
10:15	Ken Walczak Identifying Sources of Sky Glow Through Triangulation with a Distributed All-Sky Camera Survey	
10:35	<i>Discussion</i>	

10:55 ***Coffee (Atrium) & Posters (Studio D&E, TI 140 & 148)***

	Session chair: Amy Jackson	Session chair: Eva Schernhammer
11:25	Taohan Lin Changes in the Association Between GDP and Night-Time Lights During the COVID-19 Pandemic: A Subnational-Level Analysis for the US	Boris A. Portnov Disaggregating the effects of daytime and nighttime light exposures on obesity, overweight, prostate and breast cancer morbidity worldwide
11:45	Christopher Kyba Analysis of aerial imagery of Cologne, Germany, in 5 spectral bands	Michal Zeman Key role of attenuated vasopressin rhythmicity in negative effects of light pollution
12:05	Alejandro Sánchez de Miguel SDGSAT-1, JL1, ISS: Intercalibration process and first mosaic	Nahum Gabinet Investigating the combined effect of ALAN and noise on sleep by simultaneous real-time monitoring using low-cost smartphone devices
12:25	Ranjay Shrestha NASA's Black Marble Products and Tools in Monitoring Event-driven Changes in the Outdoor Artificial Nighttime Lighting	Monika Okuliarova The focus on metabolic and circadian health under dim light at night conditions
12:45	<i>Discussion</i>	<i>Discussion</i>

12:55 ***Lunch (Atrium)***

Friday 2023 Aug 11 Afternoon

The Forum (TI-160)

	<p>Session chair: Zhuosen Wang</p>
13:55	<p>Hector Linares Arroyo Illumina-Light v2, the PC version of Illumina</p>
14:15	<p>Pietro Fiorentin A facility for measuring and assessing the spectral responsivity of SQM radiometers</p>
14:35	<p>Qian Xiao Contiguous U.S. (2012-2019): Spatial Variations, Temporal Trends and Environmental Justice Analyses</p>
14:55	<p>Andreas Jechow Towards a new reference for ecologically dark skies: pan-continental all-sky measurements of overcast skies at places (almost) free of ALAN</p>
15:15	<p><i>Discussion</i></p>

Studio A (TI-110)

	<p>Session chair: Nahum Gabinet</p>
	<p>Eva Schernhammer The association between night shift work and breast cancer risk in the Finnish twins cohort</p>
	<p>Caroline Vilbrandt Gather Around Light – What Love and Compassion Can Do - About the positive impact of an informal voluntary network of people</p>
	<p>Fanny Soulard Intercultural Intelligence: How it can Help to Promote Better Lighting Design Practices in Countries with no Regulations.</p>
	<p>Maja Grubisic Identifying thresholds of effects of artificial light at night for biodiversity protection</p>
	<p><i>Discussion</i></p>

15:25

Coffee (Atrium) & Posters (Studio D&E, TI 140 & 148)

	<p>Session chair: Hector Linares Arroy</p>
15:55	<p>Laura Costa Ferrer Study of the Spectral Response of Sky Quality Measurers</p>
16:15	<p>Brian Espey High-Resolution Modelling of Light Sources & Obstructions using LiDAR Data</p>
16:35	<p>Amy Jackson Sky Brightness in Texas: A Comparative Study Between International Dark Sky Places and Control Communities</p>
16:55	<p>Sam Morrell Developing a Generalisable Monte Carlo Radiative Transfer Model for the Study of Artificial Light at Night (ALAN)</p>
17:15	<p><i>Discussion</i></p>

	<p>Session chair: Jessica Heim</p>
	<p>Sebastián Fingerhuth A tool to measure the effectiveness of sky glow regulations in Chile</p>
	<p>Li-Wei Hung Nighttime Visual Impacts from Offshore Wind Farms</p>
	<p>Leora Radetsky LUNA Technical Requirements enable energy-efficient outdoor lighting that mitigates light pollution</p>
	<p>Annette Krop-Benesch Public light planning: finding the right balance</p>
	<p><i>Discussion</i></p>

Free evening (optional public event at 7:30)

Saturday 2023 Aug 12 Morning

The Forum (TI-160)

Studio A (TI-110)

9:00	Opening Remarks Session chair: Franz Hölker
9:05	Mark Ditmer , Invited Speaker Integrating Sensory Ecology into Wildlife Studies Is a Bright Idea
9:30	Carrie Ann Adams The effects of ALAN on habitat use by nightjars in Western Canada vary across behavioral and landscape contexts
9:50	Remi Boucher Greenhouses: a growing threat of light pollution and practical solutions to mitigate it
10:10	<i>Discussion</i>

10:55 ***Coffee (Atrium) & Posters (Studio D&E, TI 140 & 148)***

	Session Chair: Carrie Ann Adams	Session chair: Doug Sam
11:00	Audrey Botté Shedding light on ALAN's impact on marine coastal organisms. Disruption of daily rhythm and physiological consequences in the cultivated oyster <i>Crassostrea gigas</i> .	Waleska Valle Teens using Photovoice to promote light pollution awareness
11:20	Ruben Evens What happened to the dark at night: a birds' perspective	Nataliya Rybnikova On the Association between Night-Time Light and Characteristics of the Buildings' Shape: Volume vs Lateral Surface Area
11:40	Stan Moaraf Involvement of melatonin in brain plasticity and nocturnal motor activity in birds	Dietrich Henckel Visual Diversity and Artificial Lighting at Night in Public Spaces
12:00	Elizabeth Atchoi Attraction or avoidance? Shearwaters avoid artificial light in Y-maze experiment	Jessica Heim Cultural and Societal Impacts of Increasing Satellites in the Night Sky
12:20	<i>Discussion</i>	<i>Discussion</i>

12:30 ***Group Photo (Atrium or Outside)***

12:40 ***Lunch (Atrium)***

Saturday 2023 Aug 12 Afternoon

	<i>The Forum (TI-160)</i>	<i>Studio A (TI-110)</i>
	Session chair: Daphne Chevalier	Session chair: TBA
13:40	Nicola van Koppenhagen Impacts of various combined streetlight characteristics on the abundance of nocturnal ground-dwelling arthropods	Johannes Puschnig A decade of SQM light pollution measurements in Austria
14:00	Jacqueline Degen The underestimated impact of streetlights on the orientation of moths revealed by harmonic radar	Filip Novak Turning off the lights: using aerial photography to quantify the impact of public lighting in a medium-sized city
14:20	Manuel Dietenberger Light only where it is needed: A tailored shielding for street lighting reduces attraction of nocturnal flying insects	Shengjie Liu High inequality of artificial light due to commercial and sports lighting in Hong Kong
14:40	Marie-Pia Marchant Attractiveness of Ephemeroptera insect order to light colour temperature	Chu Wing So Association between indoor lux measurements and outdoor wall brightness in the high-rise urban environment of Hong Kong
15:00	<i>Discussion</i>	<i>Discussion</i>

15:40 ***Coffee (Atrium) & Posters (Studio D&E, TI 140 & 148)***

	Session chair: Nicola van Koppenhagen
15:40	Daphne Chevalier Lights, camera, attraction? Artificial light at night and predator-prey interactions
16:00	Elizabeth Parkinson ALAN impacts aquatic-terrestrial resource exchange and invertebrate community composition
16:20	<i>Discussion</i>

18:30 ***Banquet (The Forum, TI-160)***
Speaker: **Jennifer Howse**, Reclamation Under Alberta Skies

Sunday 2023 Aug 13

The Forum (TI-160)

9:00	Opening Remarks Session chair: Lin Meng
9:05	Diane Turnshek , invited speaker Persuasive Measurements for Environmental Justice
9:35	Kyriaki Papantoniou Night shift work, sleep deprivation and COVID-19 risk in a population based cohort in Catalonia (the COVICAT study)
9:55	Doug Sam Dark Sky Places, Native Spaces: Mesa Verde as a Model for Critical Indigenous Involvement in Dark Sky Parks
10:15	<i>Discussion</i>

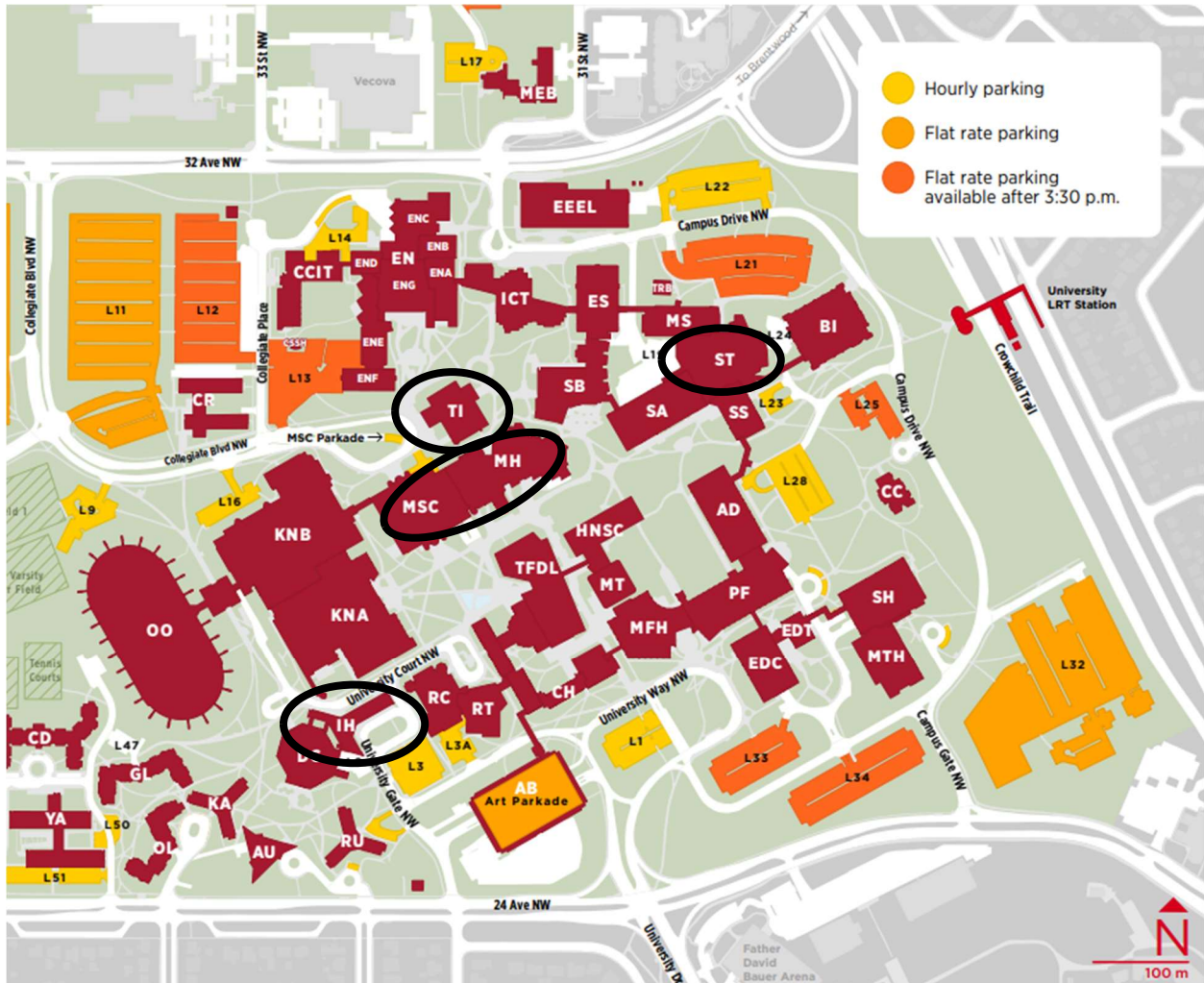
10:25 ***Coffee (Atrium) & Posters (Studio D&E, TI 140 & 148)***

	Session Chair: Ruben Evens
10:55	Mona Storms How skyglow determines the impact of streetlights on free-flying nocturnal pollinators
11:15	Evelien Castrop Investigating effects of ALAN on native plant ecology
11:35	Matthew Hatfield The impact of artificial light at night on the behaviour and physiology of freshwater fish
11:55	Claire Hermans Bouncing bats: spatial interaction of artificial light and vegetation on foraging behaviour of synanthropic bat species
12:15	<i>Discussion</i>

12:25 ***Lunch (Atrium)***

	Session Chair: Annette Krop-Benesch
13:25	Keren Levy Artificial light at night affects crickets' gene expression and circadian behavior
13:45	Solène Guenat Perception and mitigation potential of light pollution in Switzerland
14:05	Brian Pincott , Invited Speaker, who bravely agreed to give a wrap-up of the conference
14:35	Announcement of Winner of Poster Prize
14:45	LPTMM announcement. ALAN 2025 team announcement.
14:55	Closing remarks
15:10	<i>ALAN 2023 Ends</i>

University of Calgary Campus



IH – International House – delegate accommodations

TI – Taylor Institute – reception, banquet, papers, posters

MH and **MSC** – MacEwan Hall and MacEwan Student Centre – fast-food court.

ST – Science Theatres – free public event

See [University of Calgary Interactive Map \(arcgis.com\)](https://arcgis.com)