

Schedule of ALAN 2023 Activities—University of Calgary Campus

Registration table—collect your badges and folders:

- 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 welcome and jingle-dress dance (Lynissa Pasap, recorded) 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 Metis Nation Region 3 member 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)

8:30	
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>

Studio A (TI-110)

Session Chairs Meeting

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

	Session chair: Amy Jackson
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
11:45	Christopher Kyba Analysis of aerial imagery of Cologne, Germany, in 5 spectral bands
12:05	Alejandro Sánchez de Miguel SDGSAT-1, JL1, ISS: Intercalibration process and first mosaic
12:25	Ranjay Shrestha NASA's Black Marble Products and Tools in Monitoring Event-driven Changes in the Outdoor Artificial Nighttime Lighting
12:45	<i>Discussion</i>

	Session chair: Eva Schernhammer
	Boris A. Portnov Disaggregating the effects of daytime and nighttime light exposures on obesity, overweight, prostate and breast cancer morbidity worldwide
	Michal Zeman Key role of attenuated vasopressin rhythmicity in negative effects of light pollution
	Nahum Gabinet Investigating the combined effect of ALAN and noise on sleep by simultaneous real-time monitoring using low-cost smartphone devices
	Monika Okuliarova The focus on metabolic and circadian health under dim light at night conditions
	<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>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>
14:55	
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>

10:15 ***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

The Forum (TI-160)

	Session chair: Daphne Chevalier
13:40	Nicola van Koppenhagen Impacts of various combined streetlight characteristics on the abundance of nocturnal ground-dwelling arthropods
14:00	Jacqueline Degen The underestimated impact of streetlights on the orientation of moths revealed by harmonic radar
14:20	Manuel Dietenberger Light only where it is needed: A tailored shielding for street lighting reduces attraction of nocturnal flying insects
14:40	Marie-Pia Marchant Attractiveness of Ephemeroptera insect order to light colour temperature
15:00	<i>Discussion</i>

Studio A (TI-110)

	Session chair: Laura Costa Ferrer
	Johannes Puschnig A decade of SQM light pollution measurements in Austria
	Filip Novak Turning off the lights: using aerial photography to quantify the impact of public lighting in a medium-sized city
	Shengjie Liu High inequality of artificial light due to commercial and sports lighting in Hong Kong
	Chu Wing So Association between indoor lux measurements and outdoor wall brightness in the high-rise urban environment of Hong Kong
	<i>Discussion</i>

15:10

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>

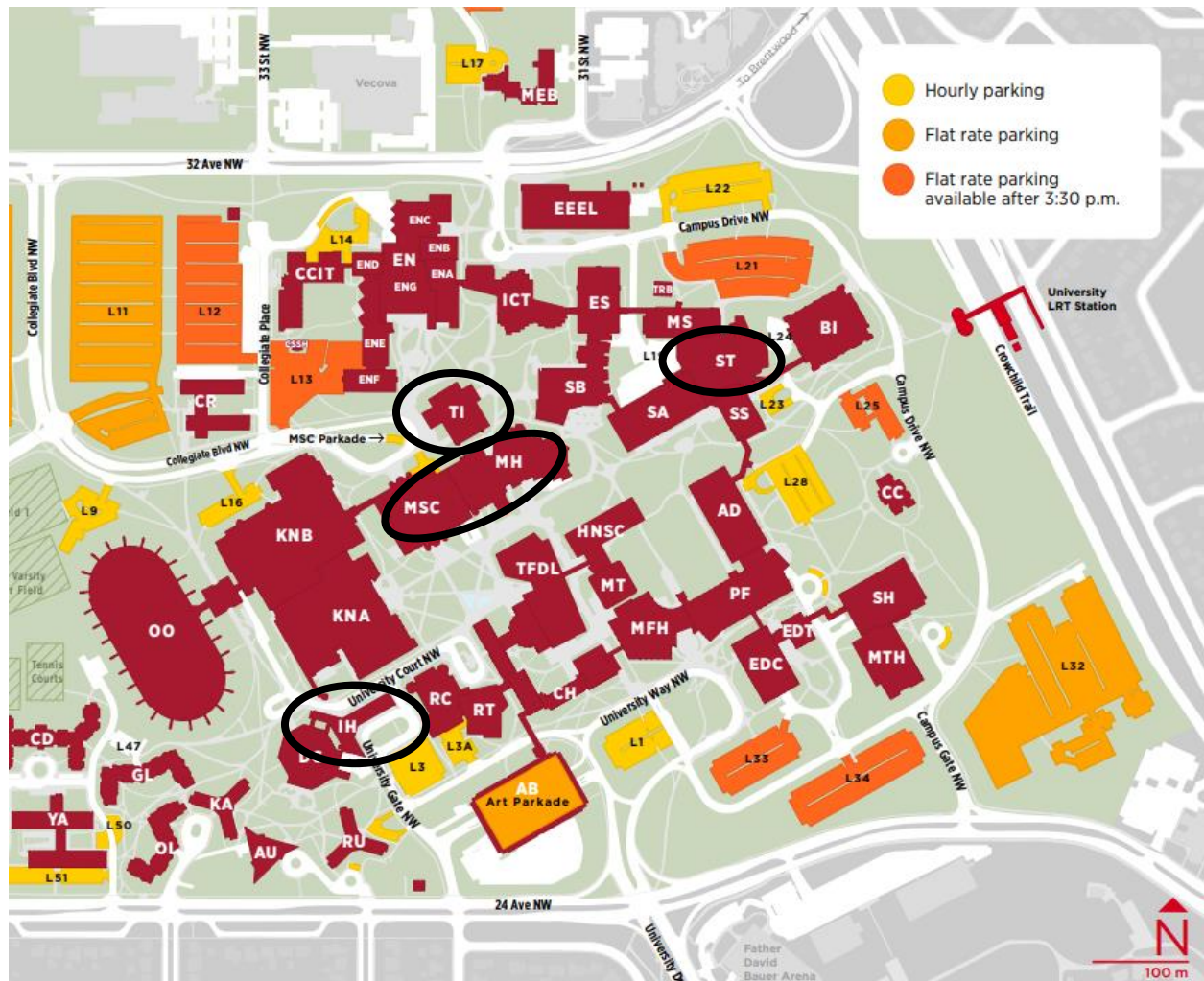
10:25 ***Coffee (Atrium) & Posters (Studio D&E, TI 140 & 148)***

	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)