

FESTIVAL PROGRAM

Saturday, 10 September 2016.

Astronauts and earthlings, experts and amateurs, family and friends unite for a night starring astronomy and light.

ASTRO LIGHT 2016

ACTIVITIES

6.00-10.00pm

Pumping Station

Get hands-on and explore the science of light and astronomy with activities for people of all ages. Back by popular demand, the crazy laser maze returns with green laser beams and smoke machines that test your limbs and limits!

Lower Ground Floor

Eye-opening optics activities and displays with organisations such as the Centre for Nanoscale Biophotonics.

ART INSTALLATIONS

6.00-10.00pm

Arena

Interact with the *Stellarsphere*, a giant living, breathing light bubble by studio Eness, studded with custom LED disks that shine like stars inside and out.

Welcome Room

Deakin University's *Daniel Armstrong* and *Art in Science* students showcase an array of astronomy-inspired 2D, 3D and projection works.

PLUS

Spot prizes for best dressed – solo and group astronomy and light costumes rewarded.

TALKS & PANEL SESSIONS

6.15-10.00pm (overlapping sessions across 3 stages)

CAASTRO Amphitheatre

- 6.15-6.30pm: **Welcome and AstroLight Festival opening.**
6.30-7.00pm: **Glimpse of the invisible** with Sean Elliott.
7.15-7.45pm: **Kitchen Cosmology** with Dr Chris Lassig.
8.00-8.30pm: **55 days in space** with NASA astronaut Marsha Ivins.
8.45-9.15pm: **Dark skies panel** with Dr Margaret Grose, Judith Bailey and Dr Theresa Jones.
9.30-10.00pm: **Dark Matter and Q&A** with Dr Katie Mack.

Energy Lab

- 6.30-7.00pm: **Using Synchrotron Light to investigate the solar system** with Dr Helen Brand and **The Darker Side of Lighting the Night** with Dr Theresa Jones.
7.15-7.45pm: **Astronomy at 80 Below** with Dr Christian Reichardt and **Indigenous Astronomy** with Dr Duane Hamacher.
8.00-8.30pm: **Treating Blindness with Bionics** with Dr David Garret and **Nanoscale Astronomy** with Prof. Andrew Greentree.
8.45-9.15pm: **Galaxy Hunting using the Hubble Space Telescope** with Dr Michele Trenti and **Art of Astronomy** with Daniel Armstrong.

Science Stage (Family Friendly)

- 6.30-7.00pm: **Light Fantastic** with Dr Tanya Hill and **Exploring the Universe with Metal Spiders** with Dr Ben McKinley.
7.15-7.45pm: **Fluro-fish and the secrets of regeneration** with Celia Vandestadt and **Fluorescence** with Dr Philipp Reineck.
8.00-8.30pm: **Astronomy Education** with Dr Michael Fitzgerald and **Science Fiction Science Fact – Laser combat in movies** with Prof. Brant Gibson.
8.45-9.15pm: **Fluorescent Proteins – From Nature to the Lab** with Emma Wilson and **How to Catch a Shadow** with Jacquie Milner.

STARGAZING

6.00-10.00pm

Arena

Stargaze like never before with a field full of telescopes and models such as the Murchison Wide Field Array. Astronomical experts bring the Moon, Saturn, Jupiter and Venus direct to you (weather permitting).

MINI EXPO

6.00-10.00pm

Entrance & Lower Ground Floor

Connect with the latest research and initiatives of Victoria's astro and optics societies, citizen-science groups and universities, with info stalls and specialists onsite to answer your every query.

FOOD, BAR & SHOP

6.00-10.00pm

Multiple sites across Scienceworks

Food trucks with intergalactic offerings complement delicious onsite café options and rocket-fuel at the Luna bar. Stock up at the shop on freeze-dried astronaut food or junior NASA suits for your next mission.

SHOWS + WORKSHOP

Available only with an AstroLight Festival ticket. Additional entry fees occur. Book early to avoid disappointment!

ASTRO LIGHT 2016

CAPTURING THE COSMOS

6:30pm | 7:15pm | 8:00pm | 8:45pm | 9:30pm

Planetarium

Explore the entire southern sky with a full-dome Planetarium show *Capturing the Cosmos* for an extra \$4.

Narrated by award-winning Australian actor Geoffrey Rush, this show highlights the incredible data being captured by telescopes such as SkyMapper and the Murchison Wide-field Array.

Best for ages 8+

LIGHTNING ROOM REVEALED

6:30pm | 7:00pm | 7:30pm | 8:00pm | 8:30pm | 9:00pm | 9:30pm

Lightning Room

Lightning strikes all night! Experience the power of two-million volts from the giant Tesla Coil in our Lightning Room for an extra \$4.

This electrifying 15-minute show includes an electromagnetic can crusher, a Jacob's ladder and three metre bolts of lightning!

Due to the awesome sparks and noise of our high voltage demonstrations, the Lightning Room is not recommended for young children and babies.

Suitable for ages 6+

LED WEARABLES WORKSHOP

6:30pm | 7:30pm | 8:30pm

Test Lab

Dazzle the night with your own glowing LED wearable created in a 50-minute workshop for an extra \$10.

Get the electronic know-how to use conductive thread, LEDs, batteries and simple switches to construct your own wrist band or brooch.

Strictly limited to children 10+ and adults. Children under 12 must be accompanied by an adult.



Program is subject to change