

ultimo science festival

SYDNEY CENTRAL
5 mins walk
from
RAILWAY STATION

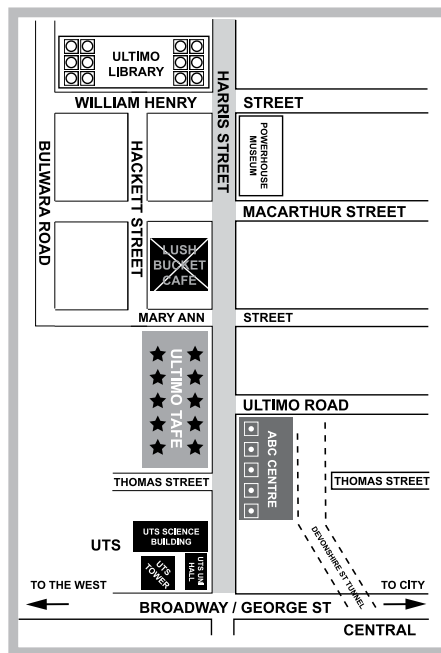
21 - 30 August 2009

festival program

www.ultimo
science
festival.com

This festival is supported by the City of Sydney, the NSW Office for Science and Medical Research and the Australian Government as part of National Science Week.

festival map



- UTS
- ABC Centre
- ★ TAFE NSW
Ultimo College
- Powerhouse Museum
- Ultimo Library
- Harris Street
- ⊗ Lush Bucket Cafe

CONTACT

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FESTIVAL INFO

The Ultimo Science Festival, near Central Railway and Broadway in Sydney, NSW, is ten days and nights of serious science fun for families, for schools, for young, old and in-between, for geeks and non-geeks. There's something for anyone who wants to expand their mind, think about the world and wonder about how stuff works and why it is so.

The Ultimo Science Festival is proudly presented by the Powerhouse Museum, the Australian Broadcasting Corporation, The University of Technology Sydney and TAFE NSW. It is supported by the Australian Government and the City of Sydney.

The Festival will showcase the considerable scientific credentials of these four organisations that created it, bringing together scientific research, technology, engineering, design, education, communication and entertainment.

Most events are free and held all along Harris St, Ultimo from Friday August 21 through to Sunday August 30, 2009. The festival events are an easy stroll from Central train station, buses and the Light Rail.

ABOUT NATIONAL SCIENCE WEEK

For over ten years, National Science Week has been celebrating the contribution of Australian scientists to the world, encouraging interest in scientific pursuits and inspiring people to become fascinated by the world we live in.

With ongoing support from the Australian Government and key industry bodies like Commonwealth Scientific and Industrial Research Organisation (CSIRO) and the Australian Broadcasting Corporation (ABC), National Science Week continues to expand and now attracts a wide audience across all spectrums.

Check out what else is happening in National Science Week on the website: www.scienceweek.gov.au



daily events

21 - 30 August 2009

Powerhouse Museum
All events FREE with entry to Powerhouse Museum:
Adult \$10, child \$5

Sydney Hyperbolic Crochet Coral Reef EXHIBITION

A woolly celebration of higher geometry and feminine handicraft and a testimony to the disappearing wonders of the marine world. It was originally created by respected science writer Margaret Wertheim and Christine Wertheim of the Institute For Figuring in Los Angeles.

Experimentations EXHIBITION

Explore the world, see its strangeness, witness science in action, find out the connections between things and discover by doing. Come and experiment for yourself. Experiment with heat, light, chemistry, electricity and movement.

Space & Transport EXHIBITION

Space: beyond this world - The history of the human desire to travel beyond the Earth's atmosphere. Try the new zero gravity experience.

Cyberworlds: computers and connections EXHIBITION

Technologies have changed dramatically this century. How have people's values, beliefs, hopes and fears changed in relation to technology?

Nuclear matters EXHIBITION

Nine imaginative and daring interactive displays where you can have amazing fun while learning all about nuclear science. Sponsored by ANSTO (*The Australian Nuclear Science and Technology Organisation*)

ABC Atrium Exhibitions

Open 9am - 5pm weekdays only, plus Saturday 29th August

Frontiers of Science EXHIBITION

This influential and innovative science comic series appeared in the Sydney Morning Herald from 1962 to 1987. ABC presents a display of original artwork and reproductions from the Frontiers of Science comic series.

Switch Car

SWITCH is a plug-in hybrid electric vehicle (PHEV). It was commissioned by the NSW Department of Environment and Climate Change and the conversion was carried out by the Institute for Sustainable Futures (ISF) at the University of Technology, Sydney. SWITCH has both a petrol and an electric engine.

Your Green House

The NSW Department of Environment and Climate Change has created Your Green House - an interactive display that shows householders easy ways to save energy and water and reduce waste and greenhouse gases around the home.

The Muse Events

Ultimo TAFE Building C, Harris St. 10am - 4pm. 18 - 30 August

'Adrift' Sculpture-Sound Installation

A work about water, drought, a landscape and a major city.
By Alison Clouston and Boyd.

World Tree (Part Two)' Sculpture-Sound Installation

A whole tree in a gallery. The sounds of climate change.
By Alison Clouston and Boyd.

SCINEMA in the MUSE

Scinema is a Festival of Science Film brilliantly curated by CSIRO's Cris Kennedy, with Cosmos Magazine, that brings a whole world of cinematic science to Ultimo. You can make your own choice from the comprehensive menu of films, sit back and enjoy!

THE WORLD AT NIGHT

Astronomers Without Borders present The World At Night, a collection of stunning photographs and time-lapse videos of the world's most beautiful and historic sites against a night time backdrop of stars, planets and celestial events. It is a bridge between art, humanity, and science.

FREE
no booking
required

FREE
no booking
required

special events

Friday 21 August

Time	Event	Venue
5.30 - 9.30pm	Ultimo Big Night of Science The festival explodes into life on the night of Friday 21 with the biggest bang since the Big One. Psychology, live jazz, physics, space-art, dark matter and more. Meet Space physicist and artist Jon Lomberg, science superstar Dr Fiona Wood, psychologist Bart Anderson and astronomer Professor Joss Hawthorn. Bar open and live music grooving between talks - when too much science is never enough. <i>Tickets: \$10. Bookings essential – call (02) 9217 0222 or www.powerhousemuseum.com/bookings/scifest</i>	<input type="checkbox"/>
4.00 - 5pm	Questacon Science Squad Two sensational science extravaganzas for kids – the Climate Change and Slime Shows. <i>Ultimo Library, Crn Bulwarra Rd and William Henry Street, Ultimo FREE but booking essential – call (02) 9298 3110</i>	<input checked="" type="checkbox"/>

Saturday 22 August

Time	Event	Venue
12.30pm - 3.30pm	SCINEMA in the library Scinema is a Festival of Science Film brilliantly curated by CSIRO's Cris Kennedy in partnership with Cosmos Magazine. Scinema explores how to communicate a love of Science through film and celebrates exciting new discoveries. <i>FREE but booking essential – call (02) 9298 3110</i>	<input checked="" type="checkbox"/>
10am - 4pm	Powerhouse Science Experience This four-day workshop is a chance for enthusiastic secondary school students to engage in real science. A theory will be proposed and an experiment will resolve the question. Experienced demonstrators and scientists guide them through all stages of experimentation then the students will direct the process. All equipment supplied. <i>Tickets: \$100 (for full 4 day experience). Booking essential – call (02) 9217 0222 or www.powerhousemuseum.com/bookings/scifest</i>	<input type="checkbox"/>
11.30am and 1.30pm	Experimentations science shows An array of shows for kids that make the everyday extraordinary. Find the answers to questions like: Can a banana be used as a hammer? <i>FREE with entry to Powerhouse Museum</i>	<input type="checkbox"/>
2pm	World At Night talk Astrophotographer David Malin will speak about the 'World at Night' exhibition images. <i>See 'Daily events at the Muse' FREE but booking essential – call (02) 9217 4133</i>	<input checked="" type="checkbox"/>

Sunday 23 August

Time	Event	Venue
12.30pm - 3.30pm	SCINEMA in the library <i>See Saturday, 22 August</i>	<input checked="" type="checkbox"/>
10am - 4pm	Powerhouse Science Experience <i>See Saturday, 22 August</i>	<input type="checkbox"/>
11.30am and 1.30pm	Experimentations science shows <i>See Saturday, 22 August</i>	<input type="checkbox"/>
2pm	Climate models - can we believe them? Leading climatologist Professor Matthew England will outline the main components of climate models, how they interact, and what physics they are based on. <i>FREE with entry to Powerhouse Museum</i>	<input type="checkbox"/>

Monday 24 August

Time	Event	Venue
11am – 12pm	Science and Environment computer workshops Come along to Ultimo Library to learn how to use our Science and Environment Databases. <i>FREE but booking essential – call (02) 9298 3110</i>	<input checked="" type="checkbox"/>
6pm	The Einstein Lecture Featuring a LASER light show from Melbourne Uni's Roger Rassool and a talk by Science Week guest US theoretical physicist Lawrence Krauss. Krauss is a best selling author and lecturer famed for his prescient suggestion that dark energy might be the key to understanding the beginnings of the universe. <i>FREE but booking essential – call (02) 9217 0222 or www.powerhousemuseum.com/bookings/scifest</i>	<input type="checkbox"/>

Tuesday 25 August

Time	Event	Venue
6pm – 7pm	The Science of Choice How do humans make decisions? During this interactive presentation Dr. David Pihlens from UTS's Centre for Study of Choice explains what we know about how human make choices. <i>FREE but booking essential: events@uts.edu.au or call (02) 9514 7950, UTS tower building, Room 4.13</i>	<input checked="" type="checkbox"/>
6pm – 7.30pm	The Science of Cocktails Join us for a night of molecular mixology! This very exclusive event hosted by Manuel Terron (as seen on Mixing with the Best on the Lifestyle Channel) will take a look at the science behind mixing cocktails. You will mix and taste a range of cocktails – all in the name of science! 18+ only <i>Tickets: \$35 - Booking essential. Tickets can be purchased from the Union Desk, Level 3 UTS Tower Building, or call: (02) 9514 1149 UTS City Campus, The Loft Bar</i>	<input checked="" type="checkbox"/>

Wednesday 26 August

Time	Event	Venue
12:30pm - 1:30pm	From certainty to fallibility An epic tale from the history of mathematics presented by PHM Principal Curator Matthew Connell. <i>FREE with entry to Powerhouse Museum</i>	<input type="checkbox"/>
4pm - 5.30pm	Eureka Sleek Geek Award films Come and watch short films by Australia's future scientists/film makers! The 2008 finalists will screen at Ultimo Library just in time for you to get excited about seeing this year's finalists. <i>FREE but booking required – call (02) 9298 3110</i>	<input checked="" type="checkbox"/>
5.30pm - 7.00pm	Twilight Sidewalk Astronomy See the moon, stars and planets up close and celebrate International Year of Astronomy and the Ultimo Science Festival. <i>FREE no booking required</i>	<input checked="" type="checkbox"/>
7pm - 10pm	Dark Side of Science # 1 'Flesh' (adults only) Live performers, suspension artists, tattooists and scientists demonstrating and discussing the limits of the human body with host Natasha Mitchell from ABC's 'All In The Mind'. <i>Tickets: \$10 Booking essential – call (02) 9217 0222 or www.powerhousemuseum.com/bookings/scifest</i>	<input type="checkbox"/>

Thursday 27 August

Time	Event	Venue
10am	Rhymetime Science Celebrating Children's Book Week. Suitable for children 6 months – 2 years. <i>FREE no booking required</i>	<input checked="" type="checkbox"/>
11.00am	Science Storytime Celebrating National Science Week and Children's Book Week. Suitable for children 2 - 5 years old. <i>FREE no booking required</i>	<input checked="" type="checkbox"/>
3.30pm – 5.00pm	Kids Space-Craft Celebrate the International Year of Astronomy by making a space mobile at our after-school science session. 7-12 years. <i>FREE no booking required</i>	<input checked="" type="checkbox"/>
6.30pm – 7.30pm	What will coral reefs look like in 2050? Associate Professor Peter Ralph talks about the likely impact climate change will have in the next 40 years on important ecosystems. <i>UTS Science building, Level 2, Room 2.40</i>	<input checked="" type="checkbox"/>
5.30pm – 6.00pm	WORKSHOP 'The Science of Cosmetics' Lead by Amanda Foxon-Hill, cosmetic scientist and beauty expert. Roll up your sleeves and create your own natural mud masks, bath soaks and stimulating muscle rub. <i>FREE, but numbers are limited, booking essential – call (02) 9217 4133</i>	<input checked="" type="checkbox"/>
6.30pm – 9pm	DINNER & TALK 'Why the mind matters' After the workshop, there's dinner with a talk by Amanda Foxon-Hill for those who've booked. Amanda talks about empowering the individual to achieve better wellbeing and why she believes that everyone is beautiful. Only \$30 includes 3 course dinner, no drinks. <i>Booking essential – call (02) 9217 5527</i>	<input checked="" type="checkbox"/>

Friday 28 August

Time	Event	Venue
12pm – 3pm	UTS Lifestyle Expo Visit the UTS Lifestyle Expo to explore the science of your body! Free health assessments, market vendors and healthy food samples. Plus many free group exercise classes at the UTS Fitness Centre. <i>UTS Science Building, Harris St level, FREE</i>	<input checked="" type="checkbox"/>
12.15pm – 1.00pm	Mathematics and Sex with Clio Cresswell Spice up your love life with mathematics with award winning mathematician, author and TV star, Dr. Clio Cresswell. <i>FREE but booking essential – call (02) 9298 3110</i>	<input checked="" type="checkbox"/>
7pm – 10pm	Dark Side of Science # 2 'Psyche' (adults only) Pleasure and pain, fear, desire and the mind. See suspension artists and tattooists in action. The audience can interact with spiders, coffins and ropes to explore their own fear, or is it pleasure? Science experts and MC Natasha Mitchell from ABC's 'All In The Mind' lead the discussion. <i>Tickets: \$10, Booking essential – call (02) 9217 0222 or www.powerhousemuseum.com/bookings/scifest</i>	<input type="checkbox"/>

UTS
 ABC Centre
 TAFE NSW Ultimo College
 Powerhouse
 Ultimo Library
 Harris St
 Lush Bucket

special events

Saturday 29 August, ABC FAMILY SCIENCE FUN DAY

Time	Event	Venue
10am - 4pm	ABC Family Science Fun Day The ABC's Atrium will buzz with fabulous science action for everyone all day long! Most activities FREE . <i>No booking required but some events have limited places on the day.</i>	●
	ABC 702 live radio broadcast Meet Simon Marnie and the 702 ABC Sydney Team. Broadcasting live from 10am.	●
	Tour of the Tummy Climb inside the giant, pink, life-like, almost anatomically correct tummy.	●
	Small Wonders wildlife show Two live scientists, 2000 live micro-organisms – a miniature safari in a compost bin! A live adventure through a microscope.	●
	The DNA Demo Table Extract real DNA from a strawberry, have a close look at how a mouse works and fire a Gene Gun!	●
	MadLab Build real electronic devices with soldering irons such as MadEyes (flashing eyes) or the Lie Detector. Small cost for materials, but you take your device home.	●
	Feature Creatures Get up close and personal with turtles, frogs, snakes, insects, spiders and other fascinating creatures.	●
	Mystery Investigators Find out the science behind fire walking, beds of nails, water divining and more... Myth busting with The Skeptics.	●
	Calico bags block printing Decorate your own Ultimo Science Festival bag.	●
	Three great science theatre experiences Observation, Revolution and a Leap of Faith – these plays will pop up at various times throughout the day.	●

Saturday 29 August, ABC CENTRE TALKS

Time	Event	Venue
10.10am, 3.15pm	Feature Creatures talk The creature keepers give a talk on stage about the fascinating animals in their display.	●
10.30am, 1pm	Super Mega Maths Battle for Planet Earth! Join maths comedian Simon Pampera in his fight for planet Earth. Audience members can help out in this multimedia maths comedy explosion! Suitable for ages 10 and up.	●
11am	Catalyst goes to Chile Hear all about Dr Paul Willis' recent Catalyst assignment in Chile. Hear about what happens behind the scenes and how a TV show is planned and produced.	●
11.40am, 2pm	The Surfing Scientist Book Launch & Show Ruben Meerman the Surfing Scientist from ABC's Rollercoaster and Catalyst demonstrates amazing science stuff live on stage. See unbelievable but true tricks straight from his brand new third book "40 Super Human Body Tricks". Awesome demos with liquid nitrogen and much more. Plus you can meet Ruben after the show for book signings.	●

FREE
no booking
required

Saturday 29 August, ABC CENTRE TALKS - continued

Time	Event, FREE - no booking required	Venue
12pm	Dive into DNA This talk covers the basics of DNA through to the complexities of transgenic organisms: how they are created and what they can teach us about our own genetics.	●
1pm	Inventors – how do they do it? ABC TV's New Inventors panellists Bernie Hobbs, Chris Russell and Christine Kininmonth and inventors Dom Dowling and Dr Vivian Robinson discuss the science and the struggle of invention.	●
2pm	Catalyst – The Search for ET The team from ABC TV's Catalyst program look into the possibilities of life out there! Science fact versus science fiction.	●
various times throughout the day	SCINEMA in the ABC Scinema is a Festival of Science Film brilliantly curated by CSIRO's Cris Kennedy, with Cosmos Magazine, that brings a whole world of cinematic science to Ultimo.	●
3pm	Speed meet and greet a geek Chat face-to-face with a whole bunch of research scientists at the ABC Cafe. Real live biologists, physicists, astronomers and more. Suitable only for adults and children aged 10 and over. Limited tickets available on the day	●

Saturday 29 August, OTHER VENUES

Time	Event	Venue
9am – 3pm	UTS Lifestyle Expo <i>See Friday 28 August</i>	■
9am - 4pm	UTS Info Day Find out what it would be like to be a student at UTS. Speak to current students and academics, wander around the campus and take a tour of our facilities.	■
10am - 3pm	The Science of Life – Body of Knowledge Explore the TAFE campus as it's turned into a new realm of science with a range of activities for everyone to enjoy.	★
10am, 11am, 12pm, 1pm, 2pm and 3pm	Forensics Laboratory Tour Get a sneak peek into the world of UTS Forensics by joining this tour of our state-of-the-art laboratories. <i>UTS Science Building. Meet at Faculty of Science booth.</i> FREE, but numbers are limited. Pick up a ticket from the Faculty of Science booth to secure your place on the tour!	■
10.30am, 11.30am, 12.30pm, 1.30pm, 2.30pm and 3.30pm	Biological laboratory tours Find out what pathologists and scientists look for when making a diagnosis. <i>UTS Science Building. Meet at Faculty of Science booth.</i> FREE, but numbers are limited. Pick up a ticket from the Faculty of Science booth to secure your place on the tour!	■
11am-12pm 1pm-2pm	The science of coffee Come along to taste and learn about the science behind making great coffee. <i>Lush Bucket Cafe, 623 Harris St, Ultimo</i> \$10 per person includes coffee tasting and snacks. Bookings essential as places are limited: 0412 562 339	⊗
11.30am and 1.30pm	Experimentations science shows <i>(see Saturday 22 August)</i>	□

Sunday 30 August

Time	Event	Venue
11.30am, 1.30pm	Experimentations science shows <i>See Sunday 23 August</i>	□
2pm	Special Science afternoon talks <i>See the festival website for more details.</i>	□
10am - 4pm	Powerhouse Science Experience <i>See Saturday 22 August</i>	□

Find out more about the night sky at
www.starhunt.net.au
and enter the competition before 23 August.

