OUR NEXT IMPERIAL LATES

Future Commuter

13 February 2020

If you've ever experienced the joys of the London commute or worried about the carbon footprint of a summer getaway, you may have wondered what the future of transport might deliver. Well now is your chance. Travel over to Imperial in February to meet the scientists and engineers exploring the probabilities of our future mobility.

Beautiful data

12 March 2020

Data, data everywhere but perhaps we should stop and think? This most precious of commodities could deliver breakthroughs in medicine and patient care, help us better understand the universe or make our lives easier by training our household devices to know what we like. But does the data revolution also threaten our personal privacy and how much of a say do we have in how our data is used? Explore both sides of this (bit) coin at Imperial Lates.

Latest events direct to your inbox!

The Imperial Lates series offers just a glimpse into the exciting programme of events that Imperial hosts throughout the year. Fancy joining us for another lecture, concert or exhibition?

Sign up for our newsletter and you'll never miss out again!

imperial.ac.uk/whats-on/events-signup

Imperial College London

imperial.ac.uk/Festival/Lates
imperialcollegelondon
#ImperialLates

IMPERIAL LATES

Thursday 5 December 2019

18.00–21.00

As the night's draw in we celebrate the chillier side of science...

#ImperialLates

IMPERIAL LATES

#ImperialLates

Key to events

- 1 Map reference
- Pre-registration required
- Time-specific event

PLANNING TO ATTEND A TALK?

See below to help you plan. Our talks are first come first served, apart from '1.5 degrees: Avoiding peril in Antarctica'. All of our other activities are drop in.

1 Talk

1.5 degrees: Avoiding peril in Antarctica

Martin Siegert, Grantham Institute; Rod Downie, WWF UK; Bethan Davies, Royal Holloway University of London; Jane Rumble, Foreign and Commonwealth Office

19.00–20.00 Pre-registration required

Join an expert panel discussing the science behind warming limits for Antarctica and their influence on global policy makers.

2 Exhibit

Cryo-printing brains

Zhengchu Tan, Department of Mechanical Engineering

Find out what your brain really feels like with the team behind a new Cryogenic 3D Printing technique that replicates soft biological structures.

3 Exhibit

Flash frozen molecules

Eugene Chua Yue Dao, Luke Yates, Kailash Ramlaul and Christopher Aylett, Department of Infectious Disease

Play with 3D molecules imaged by cryo-electron microscopy, and see how cryogenic liquids are used to flash freeze molecular machines.

4 Exhibit

Chilling with new-born babies

Sudhin Thayyil, Department of Brain Sciences

Wrap baby dolls in the latest, low temperature, low-cost approaches to brain damage prevention during the first hours of life.

5 Exhibit

Cooling an artificial sun

Antonis Sergis, Department of Mechanical Engineering

Shake up shimmering bottles of liquid turbulence to see how heat moves with engineers developing nanofluid coolants for nuclear reactors and engines.

6 Exhibit

Melting poles and mental health

Emma Lawrance, Institute of Global Health Innovation

Share your fears about global warming and hopes for global action with researchers exploring how climate change may impact mental health.

7 Exhibit

Temperature fluctuations in the early universe

Dave Clements, Department of Physics

Thermal image yourself and build models of the Planck satellite, which observed the (very cold) cosmic microwave background.

8 Workshop

Christmas chemistry crafts

Maxie Roessler, Department of Chemistry

Make scientific Christmas decorations inspired by low temperature research into the chemistry of life.

9 Exhibit

Traversing Europe's largest icecap

Glen Gowers, Department of Earth Science and Engineering

Discover a polar research adventure with explorers retracing the route and scientific achievements of a 1932 student expedition.

10 Exhibit

Liquid nitrogen ice cream

Richard Kong, Department of Chemistry

Choose your flavour, select a topping, and learn the science of this cryogenic fluid with our culinary chemists giving out festive, frozen treats.

11 Exhibit

SuperPosition

Ben Stickler and Kiran Khosla, Department of Physics

Grab a drink and play your way through the quirky world of ultra-cold physics with this quantum card game.

12 Exhibit

Off-the-shelf melting

William Scott, Department of Earth Science and Engineering

Discuss the stability of polar ice shelves in Antarctica with glaciologists, geochemists and oceanographers.

13 Talk

Next stop Neptune

Adam Masters, Department of Physics

Talks will start in the College Café at: 18.30, 19.10 and 19.50

Journey out to the coldest planet we've ever visited with a planetary scientist working with NASA to plot our return.

14 Talk

A day in the life of...

Imperial academics take to the stage to tell stories of their career.

Talks will start in the Business School Lecture Theatre at:

18.40
A cold matter physicist (Noah Fitch)

19.20
An insulating feather powered designer (Elena Dieckmann)

20.00
A mental health researcher exploring climate change (Emma Lawrance)

15 Workshop

Temperature spectra art station

Geraldine Cox

See temperature in a new light by contributing to a gigantic, colourful, paper cut-out artwork inspired by Matisse.

16 Exhibit

Ultra cold molecules

Noah Fitch, Department of Physics

Catch and trap dust particles using light techniques developed for cooling molecules down to the coldest temperatures imaginable.

17 Workshop

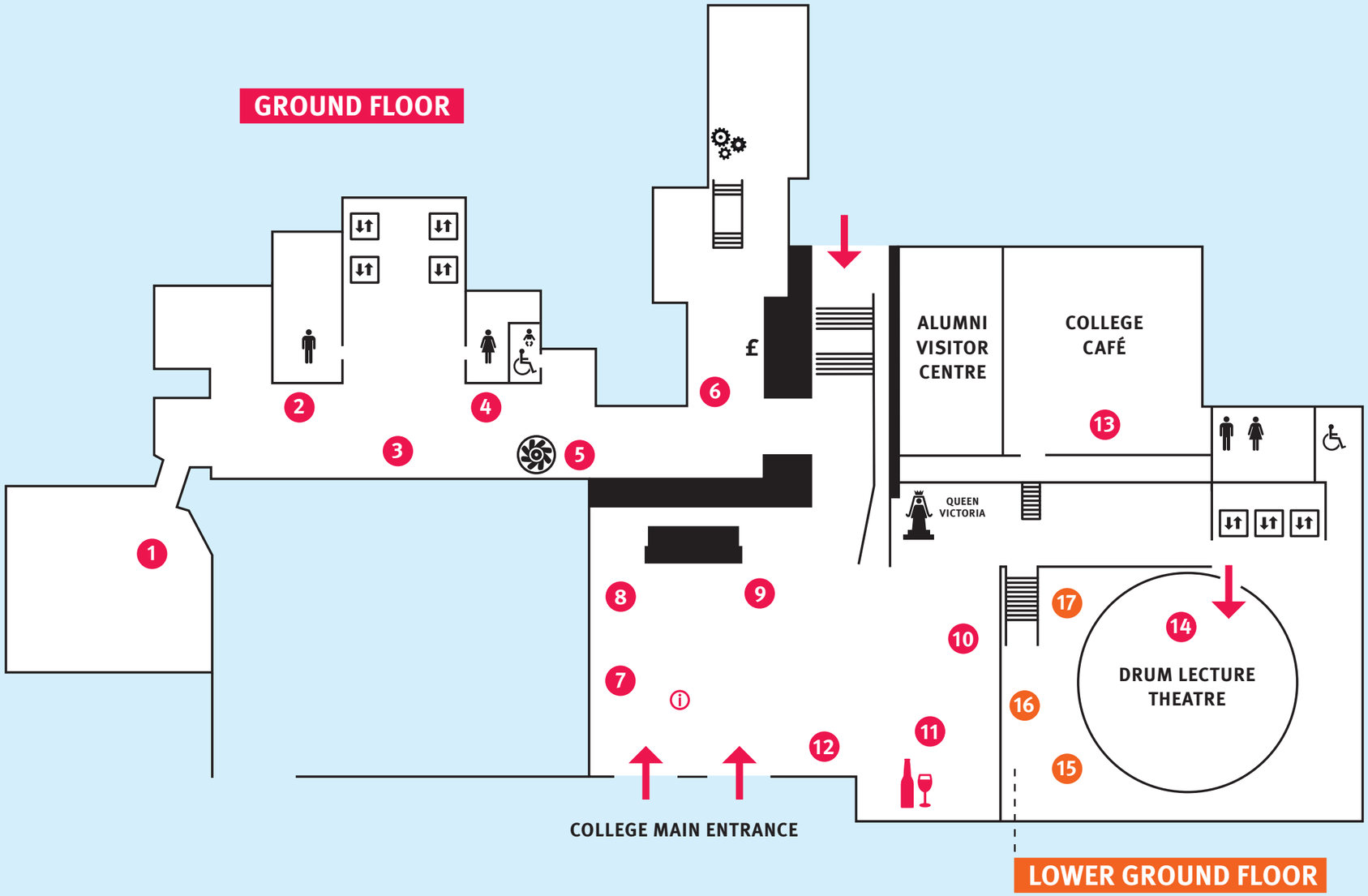
Keeping cool in the glare of the Sun

Helen O'Brien, Department of Physics

Build your own spacecraft to avoid overheating in orbit close to the Sun with engineers and physicists working on ESA's Solar Orbiter mission.

IMPERIAL LATES

WINTER WONDERLAB



GROUND FLOOR

1. **1.5 degrees: Avoiding peril in Antarctica**
   19.00–20.00
2. **Cryo-printing brains**
3. **Flash frozen molecules**
4. **Chilling with new-born babies**
5. **Cooling an artificial sun**
6. **Melting poles and mental health**
7. **Temperature fluctuations in the early universe**
8. **Christmas chemistry crafts**
9. **Traversing Europe's largest icecap**
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    A cold matter physicist (Noah Fitch)
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    A mental health researcher exploring climate change (Emma Lawrance)

LOWER GROUND FLOOR

15. **Temperature spectra art station**
16. **Ultra cold molecules**
17. **Keeping cool in the glare of the Sun**

Key:

- Lates listing
- Information desk
- Bar
- Pre-registration required
- Time-specific event
- Stairs
- Lift
- Cash machine
- Toilets
- Baby changing facility

Tell us what you think! We want to make sure these events work for you – tell us what you like and what you don't

bit.ly/WinterWonderlabEval

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