

# Chemistry in ACTION

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2022

## Chemistry in Action

For A level and IB students

Join us for an amazing day of chemistry, taking students from their studies to cutting-edge research and future applications in great style! Five sessions from leading chemists in academia and industry will inspire the scientists of the future. A special session on examination success will ensure students are equipped with the tools to excel. There will be plenty of interactivity throughout the day, with polls, quizzes and (of course) your chance to question the scientists - join us at Chemistry in Action this spring!

- Nanoinvasion
- Colourful Chemistry
- Strange Ice
- Lateral Flow Tests: Why Chemistry is More Than Just Chemicals
- The Periodic Table of the Oceans



Emmanuel Centre, London,  
London,  
SW1P 3DW  
or online



**Online: £12+VAT \***  
**Venue: £24 +VAT \***

Plus one COMPLIMENTARY staff ticket per 10 students.

\*VAT may be reclaimable. Please check with your finance department

Education in Action is the leading provider of inspirational, informative, Education in Action study days for A-level, IB, BTEC and GCSE students.

Award-winning, world-class speakers

Cutting-edge content

Thought-provoking demos and presentations

Examination hints, tips and guidance

Modestly priced to offer access to all

Complimentary staff ticket for every 10 students booked

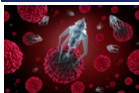
**Bookings can be amended up to 28 days before the event day**

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## Nanoinvasion /

Jamie Gallagher - Science Presenter



All around us is a hidden world where nothing is as it seems - the world of nanotechnology. Join Jamie as we shrink down and get hands on with the tiny tech that is changing our phones, food, sport and health. Delve into a world where pencils are stronger than steel, metal becomes transparent and robots become doctors.

An award-winning scientist and science communicator, Jamie spends his days sharing his love of science. His work has taken him to stages around the world as well as TV and radio. Jamie has a PhD in materials science.



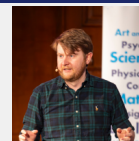
## Lateral Flow Tests: Why Chemistry is More Than Just Chemicals /

Alex Baker - University of Warwick



We're all used to lateral flow tests now, but what are they and how can they be used to fight health inequalities? Join organic chemist Alex to find out how to make lateral flow tests, how they can be used to fight both Covid-19 and health inequalities, and why chemistry is more than just chemicals.

Alex is an organic chemist with a particular interest in carbohydrates, polymers and nanoparticles. His work is used to design medical diagnostics with a particular focus on the developing world and fighting health inequalities.



## Colourful Chemistry /

Peter Hoare - Newcastle University



With demonstrations galore, we will discover the chemistry of some important elements, especially the transition metals, involving key chemical processes such as redox, catalysis, complex formation, combustion and kinetics.

Peter has a chemistry PhD and over 20 years experience as a chemistry teacher. He is also an experienced chemistry A-level exam marker, education consultant and CPD trainer.



## The Periodic Table of the Oceans /

Kate Hendry - British Antarctic Survey



For life to thrive in the oceans it needs elements from across the periodic table, from phosphorous to silicon, iron to zinc. Join Kate as she uncovers the essential building blocks of everything in the sea... even the polar bears.

Kate Hendry is a chemical oceanographer who explores the deep sea, from the Arctic to the Antarctic.



## Strange Ice /

Andrea Sella - Chemist and broadcaster, University College London



Ice may be familiar to us, but it's so strange it breaks almost every rule in the textbooks. Professor Andrea Sella will explore how we know about its properties, how it compares with other ices, and the way in which ice may be the canary warning us that our futures may be much less certain than we imagine.

Andrea is a synthetic chemist and broadcaster who is interested in the structure and bonding in the rare earths. He has been involved in numerous radio and television projects.



## Education in Action

Gilmoora House | 57-61 Mortimer Street | London W1W 8HS

020 3008 6441 | [office@educationinaction.org.uk](mailto:office@educationinaction.org.uk)

[www.educationinaction.org.uk](http://www.educationinaction.org.uk)