

# Chemistry in ACTION

NOV  
13  
2024

## Chemistry in Action

### About this day

For A-level, IB, BTEC Level 3 and T Level chemistry students

Join us for an amazing day of exhilarating chemistry which will take students from key concepts learnt in the classroom to the latest advancements in chemical research! Through five engaging sessions students will meet experienced scientists from academia and industry and be inspired to become the scientists of the future.

Each day also includes a special session on examination success that will ensure students are equipped with the tools they need 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 autumn!

Host: Alex Baker (Organic Chemist, University of Warwick)

More speakers for this exciting event will be announced soon!

- [When Medicines become Drugs - How Small Chemical Changes Change the World](#)
- [Strange Ice](#)
- [Nanoinvasion](#)



King's House Conference Centre,  
Manchester,  
Manchester,  
M1 7HB



**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**

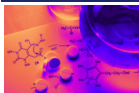


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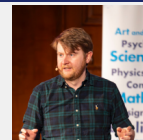
## When Medicines become Drugs - How Small Chemical Changes Change the World /

Alex Baker - University of Warwick



Why is morphine used in the NHS but heroin isn't? Why is an isomer of methamphetamine sold over the counter in the USA? It's simple Chemistry. In this talk, Alex will consider the small chemical changes that separate molecules that heal, from molecules that harm and explore the impacts these chemical changes have on the world. Along the way we will think about isomerism, solubility and how medicines work.

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.



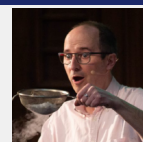
## Strange Ice /

Andrea Sella - Chemist and broadcaster, University College London



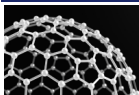
From the freezer to a refreshing drink, ice is everywhere. But how well do you really know it? Andrea Sella will demonstrate how ice is a material so strange that it breaks almost every rule in our textbooks. Discover its unusual properties, compare it with other ices, and uncover what ice may be telling us about the certainty of our futures...

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.



## Nanoinvasion /

Jamie Gallagher - Science Presenter



All around us as hidden world is taking over, it is a strange alien world where nothing is as it seems - the world of nanotechnology. Join materials scientist Dr Jamie Gallagher as we shrink down and get up close 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.



## 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)