



University of  
**BRISTOL**

# The Peter Timms Lecture and Symposium

School of Chemistry  
LTI

Wednesday 18<sup>th</sup> May 2022



# Previous Lecturers

|                                   |             |
|-----------------------------------|-------------|
| <b>Professor Geoff Cloke FRS</b>  | <b>2013</b> |
| <b>Professor Craig Hawker FRS</b> | <b>2014</b> |
| <b>Professor Bert Meijer</b>      | <b>2015</b> |
| <b>Professor Karen L. Wooley</b>  | <b>2016</b> |
| <b>Professor Xi Zhang</b>         | <b>2017</b> |
| <b>Professor Takuzo Aida</b>      | <b>2018</b> |
| <b>Professor Ian Manners FRS</b>  | <b>2019</b> |

# Welcome to the Peter Timms Lecture and Symposium 2022



**P**eter Timms (1937-2005) graduated from Oxford University in 1959 and then worked for Borax Consolidated where he developed an interest in high temperature chemistry. This theme shaped his DPhil research at Oxford (with CSG Phillips), his postdoctoral research at Rice University (with J.L. Margrave), and his research as Assistant Professor at Berkeley. He returned from the USA as a Ramsay Fellow at Bristol, later becoming Lecturer and Reader in Inorganic Chemistry. He was awarded a Corday–Morgan Medal for work on synthetic reactions of boron, silicon and transition-metal high-temperature species. He formally retired in 2002 but continued to work with Edwards on chemistry relevant to the electronics industry, on silica films and on the destruction of toxic waste gases. The Peter Timms Symposium is held in recognition of his pioneering work in inorganic and materials chemistry and his many contributions to the School of Chemistry.



**P**rofessor Joanna Aizenberg received a B.S. degree in Chemistry from Moscow State University, and a Ph.D. degree in Structural Biology from the Weizmann Institute of Science. After spending nearly a decade at Bell Labs, Joanna joined Harvard University, where she is the Amy Smith Berylson Professor of Materials Science and Professor of Chemistry and Chemical Biology.

The Aizenberg lab's research is aimed at understanding some of the basic principles of biological architecture and the economy with which nature solves complex problems in the design of multifunctional, adaptive materials. These biological principles are then used as guidance in developing new, bio-inspired synthetic routes and nanofabrication strategies that would lead to advanced materials and devices, with broad implications in fields ranging from architecture to energy efficiency to medicine. Research topics of interest include biomimetics, smart materials, wetting phenomena, bio-nano interfaces, self-assembly, surface chemistry, structural color, metamaterials and catalysis.

Aizenberg is elected to the National Academy of Sciences, National Academy of Engineering, American Academy of Arts and Sciences, American Philosophical Society, American Association for the Advancement of Science; and she is a Fellow of the American Physical Society, Materials Research Society and External Member of the Max Planck Society. Dr. Aizenberg's select awards include: MRS Medal, Kavli Innovations in Chemistry Leader Award, ACS; Fred Kavli Distinguished Lectureship in Nanoscience, MRS; Ronald Breslow Award for the Achievement in Biomimetic Chemistry, ACS; and Harvard's Ledlie Prize for the most valuable contribution to science. She has >280 publications, >90 issued patents, and is a Founder of four start-up companies.

# SCHOOL OF CHEMISTRY

## PROGRAMME

**1:30 - 1:35pm**

**Chair: Professor Charl FJ Faul**

University of Bristol

*Introductory Comments*

**1:35 - 2:20pm**

**Keynote Lecture**

**Dr Kim Jelfs**

Imperial College London

*Remembering the lab in computational discovery of molecular materials*

**2:20 - 2:50pm**

**Chair: Dr Avinash Patil**

**Dr Pierangelo Gobbo**

University of Trieste

*Can higher-order behaviours emerge by assembling protocell units into tissue-like materials?*

**2:50- 3:10pm**

**Dr Anita Etale**

University of Bristol

*The promise of sustainable, low cost materials for water treatment: Opportunities from plant-derived cellulose*

**3:10 - 3:30pm**

Tea and Coffee Break

**3:30 - 3:35pm**

**Professor Nick Norman**

*Introductory Comments on Peter Timms*

**3:35 - 4:35pm**

**Chair: Professor Steve Mann FRS**

*Introductory Comments*

**The Peter Timms Lecture**

**Professor Joanna Aizenberg**

Harvard University

*Synthetic materials with self-regulation*

**4:35– 4:45pm**

**Professor Charl FJ Faul and Mrs Liz Timms**

*Closing remarks*

**4:45– 6:00pm**

**Wine Reception in the East Foyer**



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