



## Who Are We?

C1net is a BBSRC NIBB dedicated to the development and scalable production of C1 gas fermentation for the whole IB community. C1net provides a cross-sector forum with the goals to foster and enhance collaboration between industry and academia; develop skills and expertise; share best practice; define common research priorities; and target funding opportunities in C1 gas fermentation. The management board is currently 12 strong, with Professor Nigel Minton (University of Nottingham) as PI and Professor Davis Fell (Oxford Brookes) as Col.



Dr Christian Arenas (University of Nottingham) IS *Cupriavidus necator* at New Scientist Live, London see page 3!!

## HAPPY NEW NETWORK!!!

It is now almost 5 years since the launch of C1net in March 2014, making this the last C1net newsletter. In this time much progress has been made: membership stands at 533 with members from Europe, India, USA, Russia, China, South Korea and New Zealand; we have 479 followers on Twitter and a total of 18 POC awards of £50,000 and 18 BIV awards of £10,000 have been made. We have held 5 workshops, 2 sandpits and 4 conferences, with a final one in January. We have also commissioned 3 reports (one jointly with P2P, CBMnet and BIOCATNET) with a 4<sup>th</sup> one on Life Cycle analysis on the way. And to kick-start the next generation of fermentation scientists we have held 43 outreach events (including 2 at New Scientist Live) and awarded 5 summer studentships.



In recognition of the great progress made and future potential of gas fermentation, it gives me great pleasure to announce, that the C1net will not end in March 2019, but thanks to BBSRC funding, it will evolve into CCnet (Carbon recycling: converting waste derived GHG into chemicals, fuels and animal feed). This new BBSRC-NIBB will not only continue the work done by C1net, but will also bring in those communities working on photosynthetic (cyanobacteria) and autotrophic CO<sub>2</sub> utilising chassis as well as exploring the potential of anaerobic digestion as a feedstock generator. We hope you will continue your membership of the new network, which will come with a plethora of new opportunities and funding. More details of which will be circulated to you in the near future.



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## CALENDER (C1net Other)

### Women in Innovation: Building Success – Various dates and venues

Part of Innovate UK's second Women in Innovation programme. Wed, 6 Feb, London | Tue, 5 Mar, Belfast. [Read more](#)

### 20-23 January 2019

C1net Final Conference, East Midlands Conference Centre, Nottingham  
[Read more](#)

### 24-25 January 2019

"Biogas and Beyond" ADnet Research Colloquium, Manchester. For more details and to apply email [adnet@soton.ac.uk](mailto:adnet@soton.ac.uk)

### 24-25 January 2019

Gas in Biotechnology Workshop, Vienna, Austria – a 2 day workshop  
[Read more](#)

### 30 January 2019

BBSRC INNOVATOR of the YEAR 2019 Award-Applications deadline.  
[Read more](#)

### 31 January 2019

2020 Biochemical Society Awards – Nominations open  
[Read more](#)

### 30-31 January 2019

IBioIC 5<sup>th</sup> Annual Conference, Glasgow  
[Read more](#)

### 21-22 February 2019

The 4th International Conference on Bioscience and Biotechnology (BioTech 2019) Kuala Lumpur, Malaysia. [Read more](#)

### 25 – 27 February 2019

Maximising Your Investment in Emerging Technology, University of Nottingham.  
[Read more](#)

### 29 April – 1 May 2019

Clean and Sustainable Growth Study Group Workshop, University of Nottingham.  
[Read more](#)

### 9 – 10 December 2019

Synthetic Biology UK 2019, University of Warwick  
[Read more](#)



## C1net Conference 4 East Midlands Conference Centre, Nottingham, 20-23 January 2019

Hosted by C1net (BBSRC-NIBB), this FREE, three-day conference will bring together academic and industrial partners to identify and address key challenges in the study of those organisms able to grow on C1 compounds and commercially exploit them as platforms for chemical manufacture. The programme will include talks from invited speakers from academia and industry, as well as from selected submitted abstracts & will showcase presentations from C1net POC grant winners.

### Invited Speakers

Rolf Thauer (Max Planck Institute, Germany)  
Volker Müller (Goethe-University, Frankfurt)  
Terry Papoutsakis (University of Delaware)  
Arren Bar-Even (Max Planck Institute, Germany)  
Bryan Tracy (White Dog Labs Inc. USA)  
Sean Simpson (LanzaTech, USA), Lori Giver (Calysta)  
Wolfgang Buckel (Max Planck Institute, Germany)  
Byung-Kwan Cho (Korea Advanced Institute of Science and Technology)

### Details

What: Free participation and full board (for non-Notts delegates)  
When: 19:00, Sunday 20 - Wednesday 23 January 2019  
Where: East Midlands Conference Centre and Orchard Hotel, The University of Nottingham, NG7 2RJ

### FOR MORE DETAILS AND FULL PROGRAMME

<https://c1net.co.uk/event/fourth-annual-conference-nottingham/>

**REGISTRATION IS NOW CLOSED**

130 delegates are now registered!!!





## New Scientist LiveExCeL London, 20-23 September 2018

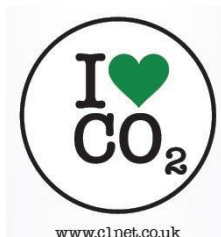
New Scientist Live is an award-winning, mind-blowing festival of ideas and discoveries for everyone curious about science and why it matters. For four days in September, it transforms ExCeL London, into the most exciting place in the universe. More than 120 speakers and 100 exhibitors come together in one venue to create an unrivalled atmosphere and energy, packed with thought-provoking talks, ground-breaking discoveries, interactive experiences, workshops and performances. This year over 40,000 visitors attended the festival, from school children to families, academics, industrialists and the media.

For the second year running, SBRC-Nottingham and C1net hosted an exhibition stand which highlighted the great research currently taking place in gas fermentation. The stand took the form of a model lab with several interactive activities. Thanks to [Don Whitley Scientific](#), we were able to give visitors the experience of what it's like to work in an anaerobic cabinet, whilst a collaboration with [ARUP](#) provided a VR (virtual reality) laboratory experience which enabled visitors to make a serial dilution!! Another one of the highlights of the event was an amazing *Cupriavidus necator* bacterium costume (or Cooper as he was named) hand-made by C1net member Dr Christian Arenas. This was a superb addition to the stand bringing in frequent curious visitors!! Many younger visitors were very interested in Cooper and Dr Christian explained that *Cupriavidus necator* is not a harmful bacteria but a helpful one which can turn waste gases into something useful! See Christian as *C. necator* on page 1. Special thanks go to the committee: Louise Dynes (Project Manager), Dr Christian Arenas, Dr Ruth Cornock, Michelle Kelly and Dr Pippa Strong and volunteers: Dr Andrew Dempster, Dr Muhammad Ehsaan, Stylianos Grigoriou, Diego Orol Gomez, Dr Patrick Ingle, Dr Carmen McLeod, Jacque Minton, Claudio Tomi Andriano and Federico Turco.

## C1net member is 3 Minute Thesis Winner

An 80,000 word PhD thesis would take 9 hours to present. The 3MT® competition challenges PhD researchers to explain their research to an intelligent but non-specialist audience in a concise and engaging way. At the finals held at East Midlands Conference Centre in May 2018, PhD student (UNotts) and C1net member Bummi Omorotionmwan emerged as the winner. Her talk 'Better Fuel, More Savings' was on the sustainable production of biofuels from microorganisms. She was also awarded the highest score in the University of Nottingham Tri-Campus (UK, China and Malaysia) competition in October 2018.

**'It was definitely a great experience engaging in the 3MT this year. It has made me think about my research in a more generally relevant scope and made it easy for me to communicate my work to anyone anywhere!' said Bummi''**



## BBSRC Innovator of the Year 2019

Do you know a brilliant BBSRC-funded researcher that deserves recognition? Innovator of the Year is ready to recognise and reward impact from BBSRC's research portfolio, from commercial success to influence on public policy, from breakthrough inventions to innovative solutions to global problems.

BBSRC relies on recommendations to highlight excellent researchers and encourage them to apply. We encourage everyone to apply, from early-career researchers who are demonstrating promising impact to experienced academics with a lifetime's work to celebrate.

Winners of each of the four categories – Commercial Impact, Social Impact, International Impact and Early Career Impact – will receive a £10,000 award, with a further £10,000 for the BBSRC Innovator of the Year winner. Awards will be presented at a high-profile event in London in May 2019.

Further information : <http://bbsrc.ukri.org/innovator>



The UKRI BBSRC Innovator of the Year competition recognizes and rewards inspirational individuals and small teams who have harnessed the potential of excellent BBSRC-funded research to deliver impact.

Do you know of exciting BBSRC-funded research that is making a difference? If you DO, please strongly encourage your research colleagues to apply!

Information on how to recommend a person or small team can be found on our website at [bbsrc.ukri.org/innovator](http://bbsrc.ukri.org/innovator)

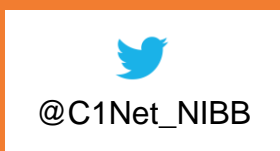
**CATEGORY WINNERS:**  
Commercial Impact  
Social Impact  
International Impact  
Early Career Impact  
**£10,000** award, plus a further **£10,000** for the overall winner  
Awards presented at a high-profile event in London in **MAY 2019**  
**APPLICATION DEADLINE: 30 JANUARY 2019**

**INNOVATOR OF THE YEAR**



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**THE BIOCHEMICAL SOCIETY AWARDS 2020**

**NOMINATIONS OPEN**  
**DEADLINE 31 JANUARY 2019**  
[Biochemistry.org/Awards](http://Biochemistry.org/Awards)



Nominations have now opened for the 2020 Biochemical Society Awards - the field's most prestigious awards that recognize established researchers as well as scientists in the early stages of their career. Nominations are welcomed from across the UK and overseas until 6pm (GMT) on Thursday 31 January 2019 ([add to your calendar](#)).

Now in their 58th year, the Society will present 12 awards in 2020, recognizing excellence and achievement in both specific and general fields of science.

This year's results will be announced in April 2019. All of our award prize and medal lectureships carry prize money and all award winners will be invited to submit an article to a Society-owned publication.

Further information is available [online](#).