



## 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.



## Progress

Membership currently stands at 310 with members from Europe, India, USA, Russia and Brazil and 262 followers on Twitter. A total of 8 POC awards of £50,000 have now been made.

### **BIV CALL OPEN – NOW £10K**

APPLY HERE - <http://www.c1net.co.uk/Funding.html>

### **POC CALL OPENS 27 JULY 2016 – UP TO 4 X £50K CALL TITLE: GAS-TO-VALUE: FERMENTATION-BASED CONVERSION PROCESSES.**

Opportunity: We are seeking to fund the development of biological and engineering innovations that lower costs or improve value in the conversion of carbon-rich gases by fermentation.

APPLY HERE - <http://www.c1net.co.uk/Funding.html>

## **C1net Conference 2 – Chemicals from C1 Gas 24-26 July 2016**

Hosted by C1net this FREE, two-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 and will showcase presentations from C1net POC grant winners. This event will include the launch of the 2016 POC call and will give plenty of opportunity for networking.

<http://www.c1net.co.uk/Events-conf-2.html>



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[www.c1net.co.uk](http://www.c1net.co.uk)

## CALENDER (C1net Other)

**3-7 July 2016**

2016 Synthetic Genome Summer Course,  
University of Edinburgh

<http://syntheticgenomes.wordpress.com/>

**19-20 July 2016**

Practical HPLC analysis course, 2 days "hands-on", Advanced Technology Innovation Centre, Loughborough Science Park LE11 3QF

[info@rlc-lab.com](mailto:info@rlc-lab.com)

**24 – 26 July 016**

C1net Conference 2, East Midland Conference Centre, Nottingham

<http://www.c1net.co.uk/Events-conf-2.html>

**30-31 July 2016**

GRC on Molecular Basis of Microbial One-Carbon metabolism, Waterville Valley, NH, US

(<https://www.grc.org/programs.aspx?id=12764>)

**9 September 2016**

4th Annual SYNPOL Course on "Biopolymers from bacterial fermentation of syngas", Madrid, Spain

<http://www.synpol.org/Courses-Workshops/>

**11 - 15 September 2016**

14th International Conference on Carbon Dioxide Utilization, University of Sheffield

[www.iccdu2016.org.uk](http://www.iccdu2016.org.uk)

**26-29 September 2016**

15<sup>th</sup> International Symposium on Biopolymers ISBP2016, Madrid, Spain

[www.isbp2016.com](http://www.isbp2016.com)

**4-6 October 2016**

Synbiobeta, San Francisco

<http://synbiobeta.com/conferences/san-francisco-2016/>

**18-20 October 2016**

The European Forum for Industrial Biotechnology and the Bioeconomy SECC, Glasgow

<http://www.efibforum.com/>

**14-16 November 2016**

Synthetic Biology UK 2016, Edinburgh

<https://www.biochemistry.org/Events/tabid/379/View/Conference/Page/1/MeetingNo/SA186/Default.aspx>



## Joint BBSRC-NIBB IB Skills Conference, Manchester, 18 & 19 May 2016

by Pawel Piatek, University of Nottingham

The meeting was incredibly useful in giving us an insight into career paths after our PhD. The first day focused on the importance of the growing life sciences sector and its effect on jobs. Due to time limitations, we were split into two groups according to our preferences. I chose the marketing and sales seminars which gave an idea of what we could do for a company's marketing potential if we have the technical and scientific knowledge to link customers with the product. Personally I never found sales and marketing my calling, and the seminars underlined this for me! However I finally had a concrete reason *why* I don't want to choose this career path.

The second day focused on the corporate environment. I've always winced at the word "corporate" and generally stayed away from it, (hence I am in academia), but there were some superb talks on this. Neil Parry, Unilever, gave a great talk on the research aspects of working in a global corporation, which showed that R&D divisions within large multinationals are not only robust and well-funded, but have a similar level of creativity and discovery spirit as in academia. I particularly enjoy this talk.

Alongside the talks there was plenty of opportunity for networking, which is crucial for building relationships and gathering insider information on jobs and research projects. I found this equally important to the seminars, as I met a lot of interesting academics and industry people - imparting information that cannot be found on websites or brochures. I also feel that this is the real way of getting ahead when job hunting after your PhD - a CV and cover letter is impersonal and forgettable, while making a solid face to face impression isn't. It is also **hugely** beneficial to have a deck of business cards ready to be handed out to whomever you meet.



## OUTREACH

### Family Discovery Day, University of Nottingham, 7 May 2016

Not even the sunniest day of the year so far, stopped 379 parents and children visiting the Family Discovery day at the University of Nottingham. Most of these visited the C1net/SBRC stand where younger children in made plasticine microbes and C1 gas molecular models from balloons. Captive adults were simultaneously engaged in conversations on global warming, the fuel dilemma and the value of gas fermentation. Everyone we spoke to seemed very receptive to the idea of using waste polluting gases to make biofuels and were supportive of the pioneering work being done in this area.



**PINT OF SCIENCE**  
REAL SCIENTISTS IN PUBS NEAR YOU  
23-25 MAY 2016  
NOTTINGHAM EVENTS

<b>BEAUTIFUL MIND</b> EVENTS FROM 7 PM CANAL HOUSE 48-52 CANAL ST, NOTTINGHAM NG1 7EH	<b>ATOMS TO GALAXIES</b> EVENTS FROM 7:30 PM SPANKY VAN DYER'S 17 GOLDSMITH ST, NOTTINGHAM NG1 5JT
<b>PLANET EARTH</b> EVENTS FROM 7:30 PM ROUGH TRADE 8 BROAD ST, NOTTINGHAM NG1 3AJ	<b>TECH ME OUT</b> EVENTS FROM 7 PM HIREDOLLA 7 HIGH PAYMENT, NOTTINGHAM NG1 1HF

FOR TICKETS VISIT  
PINTOFSCIENCE.CO.UK

@PINTOFSCIENCE  
@STEMREACHNOTTS  
#PINT16

### Pint of Science – “Rough Trade”, Nottingham 25 May 2016

Pint of Science is an international science festival which takes place annually throughout the UK and other countries. Scientists (of any type) present and discuss their latest research in a relaxed environment over a pint, at local venues, exactly as the name suggests. Nottingham was chosen as one of the hosting cities for the first time and on 25 May 2016, at “Rough Trade” record shop, PhD student and C1net member Bart Pander gave a talk 'Gas Eating Microbes to the Rescue!' to an audience of 50 interested adults. He described his work with microbes that eat carbon monoxide to provide energy and fix carbon. He continued, that not only does this reflect the biochemistry of how life started 4 billion years ago but also how it can be used to make biofuel from industrial waste gas: turning waste into valuable products. Finally he explained how these microbes are hidden to our eyes and due to their special energy needs were only recently discovered. The talk stimulated some vibrant discussion on microbes and gas fermentation.

See more of Bart on Youtube:

<https://www.youtube.com/watch?v=hiZPFv8VqYM>

“These ancient bacteria turn waste into valuable products” said Bart

## CONGRATS LANZATECH Lucky #13 on the CNBC Disruptors list

Selected from more than 750 nominated companies, pioneering gas fermentation company LanzaTech was ranked 13 out of 50 in the fourth annual CNBC Disruptor 50 list which recognises innovators revolutionizing the business landscape. Companies were ranked by ability to disrupt established industries and public companies, giving increased weighting to "creating a new market or ecosystem," scalability and originality.

With its flexible biological catalyst, LanzaTech's process is changing the way people think about carbon, reusing it for multiple applications. The process enables companies to make money by economically producing new goods, from household cleaning products to sneakers, car upholstery and plastics from recycled greenhouse gases.

<http://www.cnbc.com/2016/06/07/2016-cnbc-disruptor-50.html>



 Founder Sean Simpson – pictured right



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@C1Net\_NIBB



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BBSRC NIBB Business Interaction Vouchers (£10K) will be used to encourage and support collaboration between academic partners and industrial partners within the C1NET framework. They will be awarded to undertake a defined piece of work by the academic partner for the industrial partner.

PLEASE NOTE: BIV awards should focus attention on UK based partners where there is benefit to the UK research base and the UK economy. In exceptional circumstances, where there is not a UK company to exploit the research a BIV may be awarded to an overseas partner company.