



Who Are We?

C1net is the new 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 259 with members from Europe, India, USA and Russia and we have 214 followers on Twitter. A total of 8 POC awards of £50,000 have now been made.

BIVS CALL OPEN – NOW £10K

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

C1net Workshop 2 on Metabolic Modelling Introduction to Kinetic Modelling Oxford, 28 Sept – 2 Oct 2015

Our second workshop “Metabolic Modelling”, a 5 day residential event held at Lady Margaret Hall, Oxford, was over-subscribed and a great success. Course leader David Fell and his team of 4 tutors offered expert tuition to a total of 25 NIBB scientists (18 from C1net and 7 from other NIBBS).

This combined theoretical and practical course explained the theory of kinetic modelling and related concepts such as Metabolic Control Analysis, with particular emphasis on examples drawn from microbial metabolism. A busy schedule indeed, but a little time was found for networking on the river!!!!

The whole of the course material - lectures and practical instructions - is on Oxford Brookes website at:
<http://mudshark.brookes.ac.uk/Meetings/C1netWork2>

**“Thank you very much for this amazing experience!
Everything about this workshop was
absolutely great!”**



Jacque Minton Network Manager
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CALENDER (C1net Other)

13-14 January 2016

AIC - The Future of Aromatics 2016,
Amsterdam, The Netherlands
<http://www.wplgroup.com/aci/event/future-aromatic-conference/>

14 January 2016

Anaerobic Membrane Bioreactors for
Wastewater Treatment and Energy Recovery-
14 Jan 16, University of Southampton
<http://www.anaerobicdigestionnet.com/>

14 January 2016

Innovate UK in "Innovation Opportunities from
waste", The Studio, Manchester.
https://www.eventbrite.co.uk/e/scoping-workshop-innovation-opportunities-from-waste-tickets-19599002143?dm_t=0,0,0,0,0

28-29 January 2016

IBioIC Annual Conference "Realising the
Future", Glasgow
http://www.ibioic.com/IBioIC_2nd_Annual_Conf.htm

February 28 - March 5, 2016

6th Advanced Lecture Course on Systems
Biology, Innsbruck, Austria
<http://www.sysbio2016.org/>

23-24 March 2016

Gasification 2016, Rotterdam, The Netherlands
<http://www.wplgroup.com/aci/event/gasification/>

21-22 June 2016

ACI - Oleofuels 2016, Liverpool
<http://www.wplgroup.com/aci/event/oleofuels/>

26-30 June 2016

Metabolic Engineering 11, Awaji Yumebutai
International Conference Center, Awaji Island,
Japan
<http://www.iche.org/sbe/conferences/metabolic-engineering-conference/2016>

24 – 26 July 016

C1net Conference 2, East Midland Conference
Centre, Nottingham
<http://www.c1net.co.uk/Events-conf-2.html>



East Midlands Conference Centre and Orchard Hotel

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

About

Hosted by C1net (BBSRC-NIBB), 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 (£200K available annually, £150K of which will be awarded following this conference) and will give plenty of opportunity for networking.

Confirmed Speakers so far:

Rolf Thauer (Max Planck Institute)
Josh Silverman (Calysta, USA)
Peter Duerre (University of Ulm)
Colin Murrell (University of East Anglia)
Christian Kennes (University of La Coruña)
Linsey Garcia-Gonzalez (VITO NV)
Stéphane Guillouet (INSA de Toulouse)
Miriam Rosenbaum (Aachen University, Germany)

Details

What: FREE participation and full board for 2 nights and days.
When: 19:00, Sunday 24 July - 17:00, Tuesday 26 July 2016
Where: East Midlands Conference Centre and Orchard Hotel,
The University of Nottingham, NG7 2QL

Application

Open to C1net members only. **Places limited.**
Attendance will be on successful application only.
Application opens 11 January and closes 31 May 2016

FOR MORE DETAILS OR TO APPLY
visit <http://www.c1net.co.uk/Events-conf-2.html>



Metal Circuits, Synthetic Biology and C1 gases Scoping Workshop – Canterbury 12-13 November 2015

C1net member and PhD student Bart Pander sports an appropriate T-shirt depicting a phylogenetic tree linking humans to Clostridia, whilst sampling fermentation products at the Metal Circuits, Synthetic Biology and C1 gases Scoping Workshop in Canterbury.

This event, organized jointly by Metals in Biology and C1net, was hosted at Cathedral Lodge, in the idyllic setting of Canterbury Cathedral Close.

It was designed as an intimate, quick-fire affair with the aim of initiating and nurturing allegiances between industry and academia to encourage joint research. 30 delegates attended the meeting, of whom, 21 came from academia and 9 from industry.

The programme, spread over two days and one night, included 2 pitching sessions, a round table discussion, plenty of time for networking and a presentation from the Knowledge Transfer Agency on the different funding streams available. In total there were 8 pitches from industry and 15 from academia and with many new alliances formed we hope to report on more concrete results in the future.

OUTREACH

Secret Science Show – 25 September 2015

“European Researchers' Night” celebrated its **10th anniversary** this year. Led by an EU initiative, and taking place simultaneously in 280 cities across Europe on 25 September, this event gave anybody and everybody the opportunity to become a scientist for a day.

Nottingham's contribution was the much anticipated “Secret Science Show” at Wollaton Hall, and taking part were C1net members Louise Dynes and Dr Vinod Kumar. Together they gave a presentation and interactive demonstration on ‘the power of microbes’ explaining how microbes can turn unwanted substances into useful ones such as plastics and fuels. Dr Kumar also explained and demonstrated how a bioreactor worked.

The audience of 86, with an age range from 6 to 60 participated enthusiastically in the Q&A session and left with the message that only a very small percentage of bacteria are bad and that many are useful .



“Plenty more to come in 2016!” said Louise Dynes, Outreach Officer, University of Nottingham

CPIs New C1 gas fermentation Facility

CPI's new C1 gas fermentation development laboratory is designed to support fermentation process development at 1 to 10L scales utilising C1 gases and hydrogen as feedstocks as well as traditional carbohydrate growth substrates.

The open access facility will help the scientific community to develop and characterise fermentation processes utilising C1 gasses for the production of value added products such as platform chemicals, intermediates and bio-plastics with tangible economic and environmental advantages.

The delivery of a laboratory facility that allows safe operation of fermentation processes utilising flammable gases requires a high degree of consideration at the design and build stage. CPI was able to draw on the skills of its engineers and safety experts, bringing in external consultants where needed, to successfully accomplish this complex project.

<http://www.uk-cpi.com/case-studies/design-and-build-of-new-c1-gas-fermentation-facility-2/>



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@C1Net_NIBB

BIOCHEMISTRY SOCIETY AWARDS



In 2017 the Biochemical Society Awards will recognize established researchers as well as scientists in the early stages of their career. The deadline for nominations is 31 January 2016. Nominations can be submitted by both members and non-members of the Biochemical Society.

**Nomination deadline:
31 January 2016**

<http://www.biochemistry.org/Awards/Nominations.aspx>