

Clare McMullan

From: Pioneer@epsrc.ac.uk
Sent: 02 December 2014 15:38
To: Paul Younger
Subject: EPSRC Pioneer Magazine Online Now

Dear colleague,

Welcome to the latest Pioneer magazine, a special edition looking at EPSRC's role in the innovation cycle: from lab bench to product launch.

Pioneer is available in print form and online. A PDF of the latest edition can be found following this link:
<http://www.epsrc.ac.uk/newsevents/pubs/pioneer13nov2014/>

If you have previously requested a printed copy of the magazine then a copy is on its way to you and should be with you within the next week. However, if you would like to receive a printed copy, or if your address has changed, please let us know by contacting Pioneer@epsrc.ac.uk.

If you already receive a printed edition of the magazine but no longer wish to do so, or if you wish to unsubscribe from both our print and electronic mailing lists, please contact us at Pioneer@epsrc.ac.uk.

We welcome feedback on all EPSRC publications, so if you would like to comment on the latest edition of Pioneer, please drop us a line.

Best regards,



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FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 01 December 2014 17:00
To: Paul Younger
Subject: Calls alert

Hello,

This is EPSRC's email alert of the latest calls for proposals.

Future Systems in ICT Workshop: Call for Expressions of Interest
EPSRC is holding a one day workshop on 18 February 2015 in relation to its Photonics for Future Systems cross-ICT priority, one of five which were identified in the current Delivery Plan (2011-2016).

Issue date: 01 December 2014
Closing Date: 05 January 2015 at 23:59
Status: Open
Type: Expression of interest
Related themes: ICT, Physical Sciences
<http://www.epsrc.ac.uk/funding/calls/futuresysictworkshop/>

Fellowships

Fellowships are available in a number of priority areas:
<http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process:
<http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

If you experience any problems, please contact the EPSRC Webteam: webteam@epsrc.ac.uk

Please note that due to changes on the EPSRC website the subscription features are not currently available. We will be in contact in due course with details of how you will be able to manage your subscription.

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From: PressOffice@epsrc <pressoffice@epsrc.ac.uk>
Sent: 26 November 2014 10:55
Subject: Quantum Leap as Clark unveils UK's network of Quantum Technology Hubs (EPSRC Press Release)

EPSRC Press Release

PN: 83-14

Issue Date Wednesday 26 November 2014

Quantum Leap as Clark unveils UK's network of Quantum Technology Hubs

A new £120 million national network of Quantum Technology Hubs, that will explore the properties of quantum mechanics and how they can be harnessed for use in technology, has been unveiled today at the University of Birmingham.

The new network will involve 17 universities and 132 companies and will be funded by the Engineering and Physical Sciences Research Council (EPSRC) from the £270 million investment in the UK National Quantum Technologies Programme announced by the Chancellor, George Osborne in his Autumn Statement of 2013.

The network will consist of four hubs which were selected after a competitive peer reviewed process. They will be led by the universities of **Birmingham, Glasgow, Oxford and York**.

This programme will deliver a suite of research and innovation investments from a number of partners including EPSRC, Innovate UK, BIS, National Physical Laboratory (NPL), GCHQ, Dstl and the Knowledge Transfer Network.

Greg Clark, Minister of State for Universities, Science and Cities said: "This exciting new Quantum Hubs network will push the boundaries of knowledge and exploit new technologies, to the benefit of healthcare, communications and security.

"This investment in Quantum technologies has the potential to bring game-changing advantages to future timing, sensing and navigation capabilities that could support multi-billion pound markets in the UK and globally.

"Today's announcement is another example of the Government's recognition of the UK's science base and its critical contribution to our sustained economic growth".

Professor Philip Nelson, EPSRC's Chief Executive said: "These new Hubs will build on our previous investments in quantum science. They will draw together scientists, engineers and technologists from across the UK who will explore how we can exploit the intriguing properties of the quantum realm. The area offers great promise, and the Hubs will keep the UK at the leading edge of this exciting field."

The capabilities in Quantum Technologies offer potentially transformative impacts in key areas such as quantum metrology and sensors; quantum simulators; quantum computers and quantum secure communications.

Notes for Editors:

1. **The UK National Quantum Technologies Programme** aims to ensure the successful transition of quantum technologies from laboratory to industry. The programme is delivered by EPSRC, Innovate UK, BIS, NPL, GCHQ, Dstl and the KTN.
2. As a separate but linked part of the programme, The National Physical Laboratory (NPL) is establishing a Quantum Metrology Institute (QMI) at Teddington. The UK National Quantum Technologies Programme will contribute £4 million to the Institute, which will cover all of NPL's leading-edge quantum science and metrology research and provide the expertise and facilities needed for academia and industry to test, validate, and ultimately commercialise new quantum research and technologies.
3. **The Four Hubs**

The University of Birmingham (led by Professor Kai Bongs) – Quantum Sensing and Metrology

Quantum Sensors and Metrology will dramatically improve the accuracy of measurement of time, frequency, rotation, magnetic fields, gravity and other key fundamental measures, which will have impact across a wide range of fields, from electronic stock trading to GPS navigation. They will deliver unprecedented views into the brain for dementia research and into the ground allowing reduced roadworks, detecting sinkholes and finding archaeological treasures.

The Birmingham-led Hub will partner with academics at the universities of Southampton, Strathclyde, Sussex, Nottingham and Glasgow and aims to build a supply chain for quantum sensor technology, build a series of quantum sensor and metrology prototype devices and develop the market and links between academia and industry.

The University of Glasgow (led by Professor Miles Padgett) – Quantum Sensing/Imaging

The Quantum Enhanced Imaging Hub will develop new types of camera with unprecedented sensitivity and the capacity to time the arrival of the detected light. These cameras will open up new markets in medical imaging; security and environmental monitoring; and manufacturing of high value materials. Quantum cameras will be able to visualise gas leaks, see clearly through smoke, look round corners or underneath the skin. Quantum sensors developed by the Hub will detect single contaminant molecules and detect electromagnetic and gravitational fields with exceptional sensitivity.

The University of Glasgow-led hub will partner with academics from the universities of Bristol, Edinburgh, Oxford, Strathclyde, and Heriot-Watt University.

The University of Oxford (led by Professor Ian Walmsley) – Quantum Computing/Simulation

Quantum information processing will enable users to solve problems that even the most powerful of today's supercomputers struggle with. They will accelerate the discovery of new drugs or materials by simulating different molecular designs using programmable software, thus dramatically reducing the laborious trial and error of making each molecule in the laboratory.

Another application is making sense of "big data", the immense torrent of information about economics, climate, and health that can help us make better predictions of future trends.

The Oxford-led hub will partner with academics from the universities of Bath, Cambridge, Edinburgh, Leeds, Southampton, Strathclyde, Sussex and Warwick, as well as dozens of national and international companies. The website is <http://nqit.ox.ac.uk>

The University of York (led by Professor Tim Spiller) – Quantum Communications

Quantum Communications can transform the security of data and transactions across multiple sectors and users, ranging from government and industry to commerce and consumers.

The York-led hub is aiming for breakthroughs that will lead to widespread and affordable use of the technology. These include: chip-scale integration based on Quantum Key Distribution (QKD), thus reducing the size and manufacturing costs of equipment; building a UK Quantum network for the demonstration and testing of new equipment and services - providing early access to advanced technologies for industry, business clusters and communities of users.

The Hub partnership includes leading researchers from the universities of Bristol, Cambridge, Heriot-Watt, Leeds, Royal Holloway, Sheffield, Strathclyde and York, collaborating with world-class researchers and labs in industrial partners.

Several companies and organisations are formally involved in one or more of the Hubs these include: BT, Toshiba, e2v, M Squared Lasers, Dstl, AWE, NPL, Thales, Coherent Lasers, BP, Compound Semiconductor, GCHQ, Selex, Oxford Instruments, and Kelvin Nanotechnology.

The Engineering and Physical Sciences Research Council (EPSRC) is the UK's main agency for funding research in engineering and physical sciences. EPSRC invests around £800m a year in research and postgraduate training, to help the nation handle the next generation of technological change. The areas covered range from information technology to structural engineering, and mathematics to materials science. This research forms the basis for future economic development in the UK and improvements for everyone's health, lifestyle and culture. EPSRC works alongside other Research Councils with responsibility for other areas of research. The Research Councils work collectively on issues of common concern via Research Councils UK.

Innovate UK is the new name for the Technology Strategy Board – we're the UK's innovation agency, accelerating economic growth. We know that taking a new idea to market is a challenge. We fund, support and connect innovative businesses through a unique mix of people and programmes to accelerate sustainable economic growth. For further information visit our website on www.innovateuk.org

The National Physical Laboratory (NPL) is one of the UK's leading science facilities and research centres. It is a world-leading centre of excellence in developing and applying the most accurate standards, science and technology available.

NPL occupies a unique position as the UK's National Measurement Institute and sits at the intersection between scientific discovery and real world application. Its expertise and original research have underpinned quality of life, innovation and competitiveness for UK citizens and business for more than a century:

- NPL provides companies with access to world leading support and technical expertise, inspiring the absolute confidence required to realise competitive advantage from new materials, techniques and technologies
- NPL expertise and services are crucial in a wide range of social applications - helping to save lives, protect the environment and enable citizens to feel safe and secure. Support in areas such as the development of advanced medical treatments and environmental monitoring helps secure a better quality of life for all
- NPL develops and maintains the nation's primary measurement standards, supporting an infrastructure of traceable measurement throughout the UK and the world, to ensure accuracy and consistency.

Government Communications Headquarters (GCHQ) is one of the three UK Intelligence and Security Agencies, along with MI5 and the Secret Intelligence Service (MI6). GCHQ works to protect the UK and its citizens from a range of threats to national security, including from terrorism, serious and organised crime and cyber-attack.

GCHQ welcomes the announcement of investment in Quantum Technology across a range of companies and universities, including several already recognised by GCHQ and EPSRC as Academic Centres of Excellence in Cyber Security.

Quantum Technology covers a wide range of scientific research and technological innovation with significant potential impact on GCHQ's security mission. Of particular interest to GCHQ is Quantum Computation, although a challenging and long-term aspect of Quantum Technology, but capable of having a major effect on all forms of communication and cyber security, and the Q Tech programme is expected to accelerate development in this area. In line with this initiative, GCHQ has started a programme of internal research and funding of academic research into "post-quantum" security requirements and applications. (We distinguish this from Quantum Key Distribution -- securing communications channels using quantum technology -- which has been available for some time.) CESG advice on this technology remains that there is not yet adequate research into the security of such systems and their integration into conventional communications channels for CESG to approve their use. GCHQ welcomes more robust research into QKD.

The Defence Science and Technology Laboratory (Dstl) maximises the impact of science and technology (S&T) for the defence and security of the UK, supplying sensitive and specialist S&T services for the Ministry of Defence (MOD) and wider government.

Dstl is a trading fund of the MOD, run along commercial lines. It is one of the principal government organisations dedicated to S&T in the defence and security field, with three main sites at Porton Down, near Salisbury, Portsmouth West, near Portsmouth, and Fort Halstead, near Sevenoaks.

Dstl works with a wide range of partners and suppliers in industry, in academia and overseas. Around 60% of MOD's Science and Technology Programme is delivered by these external partners and suppliers.

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From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 24 November 2014 17:20
To: Paul Younger
Subject: Calls alert

Hello,

This is EPSRC's email alert of the latest calls for proposals.

EPSRC Centres for Mathematical Sciences in Healthcare

This call is intended to encourage Mathematical Science and Healthcare Technologies researchers to collaborate in developing programmes of challenge led, novel research addressing significant mathematical science challenges of direct relevance to Healthcare Technologies.

Issue date: 18 November 2014

Closing Date: 29 January 2015 at 16:00

Status: Open

Type: Invitation for proposals

Related themes: Healthcare technologies, Mathematical sciences

<http://www.epsrc.ac.uk/funding/calls/centresmathscihealthcare/>

Future Intelligent Technologies Workshop: Call for Expressions of Interest

Intelligent technologies can be considered to have the capacity to replace, augment or complement human activity. This workshop will be delivered as a cross-theme event, with representation from the ICT and Engineering capability themes as well as the Manufacturing the Future challenge theme.

Issue date: 14 November 2014

Closing Date: 07 January 2015 at 23:59

Status: Open

Type: Expression of interest

Related themes: Engineering, ICT, Manufacturing the future

<http://www.epsrc.ac.uk/funding/calls/fitworkshopeoicall/>

ICT Perspectives on Big Data Analytics Workshop

The EPSRC ICT Theme is inviting Expressions of Interest to attend a one-day workshop on Tuesday 03 March 2015 to engage in discussion, to identify research challenges and to initiate new collaborative working partnerships in the area of Big Data Analytics.

Issue date: 10 November 2014

Closing Date: 15 December 2014 at 16:00

Status: Open

Type: Expression of interest

Related theme: ICT

<http://www.epsrc.ac.uk/funding/calls/ictbigdataworkshop/>

Fellowships

Fellowships are available in a number of priority areas:

<http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process:

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Clare McMullan

From: [REDACTED]@epsrc.ac.uk>
Sent: 13 November 2014 11:18
To: [REDACTED]
Cc: Paul Younger
Subject: All SAN Meeting
Attachments: Slide Set version 4 for distribution to SAN members.pptx

Attached for information is a copy of the slide set used for yesterday's meeting.

Best wishes

[REDACTED]
[REDACTED]
Strategy & Planning
TEL: 01793 [REDACTED]
e-mail: [REDACTED]@epsrc.ac.uk

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Strategic Advisory Network Conference Wednesday 12 November 2014

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Programme

10:30 Welcome & Introduction
10:40 Context Setting
11:00 Activity 1 – Portfolio balances and priorities
(12:30 Working lunch available)
14:30 Tea
14:45 Activity 2 – Structuring the Portfolio
16:25 Next Steps
16:30 Close

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Welcome

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One vision ...

Our vision is for the UK to be the best place in the world to research, discover and innovate.

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Two goals ...

■ RESEARCH AND DISCOVER

For the UK to be positioned as an international research leader, where discovery thrives and our support generates the highest quality research in engineering and physical sciences.

■ RESEARCH AND INNOVATE

For the UK's excellent research base and talented researchers to work with us to accelerate innovation for the benefit of society and the economy.

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Three strategies ...

■ BALANCING CAPABILITY

■ BUILDING LEADERS

■ ACCELERATING IMPACT

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Context-Setting

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THE ENVIRONMENT

- ✦ The Industrial Strategies;
- ✦ Eight Great Technologies;
- ✦ The regional agenda/EU;
- ✦ Changing shape and dynamic of the HEI sector;
- ✦ Competing on the International stage;
- ✦ Increasing central government intervention and direction in research funding;
- ✦ Efficiency.

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CURRENT CHALLENGES

- ✦ BIS Capital Consultation;
- ✦ Autumn Statement & Science and Innovation Strategy;
- ✦ Alan Turing Institute;
- ✦ Quantum Technologies;
- ✦ Working towards the next Spending Review.

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NOTABLE SUCCESSES SINCE LAST CONFERENCE

- ❖ 113 Centres for Doctoral Training:
 - Additional £106M (March budget);
 - Total partner co-investment = ca £450M.
- ❖ Quantum Technologies = £270M additional allocation;
- ❖ Newton Fund;
- ❖ Maxwell report – EPSRC into the Life Sciences,

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WHY ARE WE HERE TODAY

- ❖ 2015 Spending Review...
- ❖ Start our thinking:
 - Balances & scenario plans within current structure;
 - Alternative portfolio structure;
 - Your big ideas for SR.
- ❖ Enable Council to determine options for discussion with the community in Q1 2015.

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SPENDING REVIEW – TIMELINE (1)

- ❖ December 2014 - Council defines directional options on which to consult (based on SAN and SAT advice);
- ❖ Q1 2015 – Community Engagement;
- ❖ April 2015 – SATs Conference – reflection on community feedback;
- ❖ 7 May 2015 – General Election;
- ❖ June 2015 – All-SAN to provide a balancing overview;
- ❖ July Council signs off bid priorities;

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SPENDING REVIEW – TIMELINE (2)

- ❖ June/July 2015 – CSR Initiated: RCs Interaction with BIS re Delivery Plans and bids;
- ❖ Autumn Statement – overall Science Vote announced;
- ❖ Early 2016 (?) – RC Allocations.

Notes also:

- RCUK Exec Grp: cross-RC activity
- CSA activity

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GROUND-RULES/KEY MESSAGES FOR TODAY

- ❖ Focus on the big picture – the level above individual themes – as ever, be generous generalists;
- ❖ Think about what Council needs to consider – what are the aspects they should focus on?
- ❖ You will get another opportunity next spring to help us shape plans & priorities, before we go into the SR.

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Activity 1

Consider portfolio balances & priorities

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AIMS

- ❖ Recommend to Council:
 - Overall portfolio balance
 - Advise on key policy aspects

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CONTEXT - COUNCIL SAID:

- ❖ Continue to protect people
- ❖ Deploy the Strategic Plan strategies
- ❖ Explore how to:
 - ensure inter-disciplinarity;
 - enhance working with Innovate UK & Catapults;
 - ensure long-term capability;
 - consider impacts on wider environment and associated risks

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TASK 1

Working in Groups – Review the posters which summarise the SATs outputs regarding +/- 30% funding scenarios.

- A. What do you like about the proposals for balance for research/training/fellowship under +/- 30% scenarios, and why? What issues should Council consider?
- B. What do you like or dislike about the proposals for the particular policy aspect your group is covering?

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TASK 2

Working in Groups:

- A Produce an overall balance proposal for each scenario (+/-30%)
- B Synthesise ideas coming from Theme plans for each of the policy aspects:
- Group 1 – Ensuring long term capability
 - Group 2 – Working with Innovate UK and catapults
 - Group 3 – Ensuring Inter-disciplinarity
 - Group 4 – Challenges and risks to the science base, business and UK global position

Outputs from tasks 1&2 will be displayed over tea.

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To note:

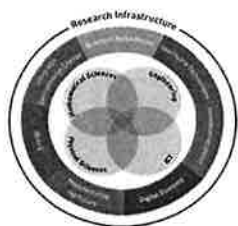
- Theme priorities emerging from SATs are different for specific, remit-related reasons
- There may be language differences (e.g. 'core', 'discipline') – we are working on ironing these out

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Activity 2

Structuring the portfolio to deliver the Strategic Plan

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EPS

USES OF PORTFOLIO STRUCTURES

- Presentational** – to 'package' our strategy to stakeholders, to explain our thinking and plans. Different audiences include BIS, university research strategists, business strategists.
- Funding purposes** – to researchers, to provide routes into funding streams
- Organisational** – provide a day-to-day structure in which staff can operate
- Must deliver the Strategic Plan

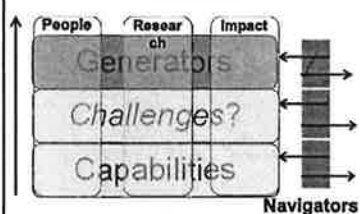
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TASK & TIMINGS

- Review the proposed structure models and assess against criteria
- Propose alternative models if you want – but provide explanation/rationale
- Recommend your preferred option and why
- Work till 16.00 to allow feed-back

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STRUCTURE A



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STRUCTURE A

Capabilities = areas of knowledge

- Not equated to disciplines
- Must be recognisable to community
- Must enable/encourage idea-flow and partnership across boundaries
- Must be able to generate bottom-up challenges and absorb top-down ones

Challenges? = specific questions which need collective, cross disciplinary research enterprise to answer.

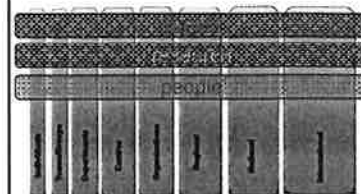
- Questions may be set by national/global need, or may emerge from bottom up thinking.

Generators = levers/translators designed to turn Capability or Challenge outputs into knowledge outcomes/stage activities

Navigators = an interface between the portfolio and researchers and others to help them understand where and how they can interact.

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STRUCTURE B



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STRUCTURE B

This model recognises that we engage with research and researchers at different scales, for different purposes:

- organising and presenting our portfolio this way, we provide entry points:
 - for individuals - for example, to support investigator-led ideas, or allowing individuals time and resource for their research;
 - for teams, groups where larger, longer investment will allow a more sustained, holistic programme of research work, or to enable networking across organisations;
 - for departments, where our investment and interactions recognise an existing organisational structure and local strategy;
 - for centres, where investment enables a bespoke structure to achieve particular research and/or training objectives;
 - at the organisational level, where deployment of investment allows strategic decisions to be made carefully;
 - regionally, where we work, for example, with clusters of universities to maximise efficiency of equipment usage;
 - nationally, where we work with others to achieve a specific aim on behalf of the UK e.g. national computing facilities;
 - internationally, where we invest in collaborations for specific reasons.

Our three strategies sit across these layers

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QUESTIONS

- What exactly is the structure?
- What are the model's key features?
- How might it work in practice?
- What does EPSRC need to do to make it work?
- How is it addressing current realities?
- Does it have different facets when used presentationally vs for funding purposes?

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FEEDBACK ON STRUCTURES DISCUSSION

- 3 minutes for each group
- What is your preferred model and why?

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NEXT STEPS

- Gather your advice for Council
- Council meets 9/10 December
- Let you know outcomes
- Involve you in community engagement activities and keep you informed
- Plans in hand for an additional All-SAN next June.

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NOMINATIONS FOR SATs NOW OPEN

The SAT refresh nomination process is now live. The main page for information is here
<http://www.epsrc.ac.uk/about/governance/recruitment/memberships/>

Please spread the word! Disseminate this to your colleagues, networks, and relevant individuals.

The closing date is 9th December.

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CLOSE

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Thank You

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FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 10 November 2014 18:19
To: Paul Younger
Subject: Out of Office: EPSRC Email Alert

Please be aware that this mailbox is not regularly monitored.

- If you have a query about a call in the email alert, please contact the person identified on the call page on the website.
- If you wish to subscribe to EPSRC's calls email alert please send an email to webteam@epsrc.ac.uk with the email address you would like to subscribe with and your full name, organisation and a contact phone number.
- If you wish to unsubscribe from this alert please use the link at the bottom of the emails you receive email webteam@epsrc.ac.uk with the email address you would like to unsubscribe.
- For all other technical queries please contact the EPSRC Web team - webteam@epsrc.ac.uk.

FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 10 November 2014 18:05
To: Paul Younger
Subject: EPSRC Email Alert

Hello

This is EPSRC's email alert of the latest calls for proposals.

ICT perspectives on Big Data Analytics workshop

The EPSRC ICT Theme is inviting Expressions of Interest to attend a one-day workshop on Tuesday 03 March 2015 to engage in discussion, to identify research challenges and to initiate new collaborative working partnerships in the area of Big Data Analytics.

Issue date: 10 November 2014

Closing date: 15 December 2014 at 16:00

Status: Open

Type: Expression of interest

Related themes: ICT

<http://www.epsrc.ac.uk/funding/calls/ictbigdataworkshop/>

Translational proof of concept awards to accelerate the fight against musculoskeletal disorders

Arthritis Research UK and the EPSRC Medical Technologies Innovation and Knowledge Centre are looking to translate exciting innovations from research findings to a commercially viable product and or service to help improve the lives of those living with MSK conditions.

Issue date: 07 November 2014

Closing date: 05 January 2015 at 17:00

Status: Open

Type: Expression of interest

Related themes: Engineering, Healthcare technologies, Manufacturing the future

<http://www.epsrc.ac.uk/funding/calls/proofofconceptawardsmskd/>

Fellowships

Fellowships are available in a number of priority areas <http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process <http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

If you experience any problems, please contact the EPSRC Webteam: webteam@epsrc.ac.uk

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FOI Office

From: Photocomp@epsrc.ac.uk
Sent: 07 November 2014 23:39
To: Paul Younger
Subject: Enter now: EPSRC Science Photo Competition 2014-15 - closing 1st December

The EPSRC Science Photo Competition 2014-15 is now well under way and there is still time for you to share your research through pictures - and win prizes in a range of categories.

The overall winner of the competition will be awarded £500 worth of camera/photography equipment, and there are great prizes for runners up in each category.

Last year's competition attracted nearly **300 entries**, and provided EPSRC-supported researchers and doctoral students the opportunity to share their research through pictures.

Not only are the 15 winning entries stunning images in their own right, they help to reflect the breadth of EPSRC's portfolio - from information technology to structural engineering, chemical biology to high performance computing, and mathematics to materials science.

In addition to this year's first prize of £500 in camera/photography equipment, prizes of £150 worth of camera/photography equipment will be awarded to the winner of each of the **five categories**.

Runners-up in 2nd and 3rd place of each category will receive £25 worth of camera/photography equipment.

~~All winning images will be featured in EPSRC's Pioneer magazine and other EPSRC publications.~~

For information on how to enter the competition, visit the Science Photo Competition page on our web site <http://www.epsrc.ac.uk/newsevents/events/photocomp2014/>

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From: EPSRC Photocomp <Photocomp@epsrc.ac.uk>
Sent: 07 November 2014 23:39
To: Paul Younger
Subject: Out of Office: Enter now: EPSRC Science Photo Competition 2014-15 - closing 1st December

Thank you for your submission to the EPSRC Science Photo Competition 2014.

Regards

EPSRC Photo Comp Team

Clare McMullan

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 05 November 2014 17:30
To: Paul Younger
Subject: EPSRC Calls Alert

Hello

This is EPSRC's email alert of the latest calls for proposals.

Resource Allocation Panel (RAP): access to ARCHER (Autumn 2014)

EPSRC offers access to ARCHER through calls for proposals to the Resource Allocation Panel (RAP). The aim of this call is to provide access to our national state-of-the-art high performance computing facility for proposals of high scientific quality that would benefit from ARCHER.

Issue date: 05 November 2014

Closing date: 07 January 2015 at 16:00

Status: Open

Type: Invitation for proposals

Related themes: Research infrastructure

<http://www.epsrc.ac.uk/funding/calls/rapaccesstoarcherautumn2014/>

Resource Allocation Panel (RAP): top-up of ARCHER resource on EPSRC grants (Autumn 2014)

Applicants to this call can request ARCHER compute resource only to facilitate the remainder of their existing EPSRC grant.

Issue date: 05 November 2014

Closing date: 07 January 2015 at 16:00

Status: Open

Type: Invitation for proposals

<http://www.epsrc.ac.uk/funding/calls/resource-allocation-panel-rap-top-up-of-archer-resource-on-epsrc-grants-autumn-2014/>

Making sense from data

The EPSRC Information and Communication Technologies (ICT) Theme is inviting outline proposals that explore how to extract meaning from data.

Issue date: 28 October 2014

Closing date: 06 January 2015 at 16:00

Status: Open

Type: Invitation for outlines

Related themes: ICT, Mathematical sciences

<http://www.epsrc.ac.uk/funding/calls/makingsensefromdata/>

User interaction with ICT

EPSRC is inviting outline proposals encouraging researchers to look at opportunities for how humans will interact with ICT technology in the future.

Issue date: 28 October 2014

Closing date: 06 January 2015 at 16:00

Status: Open

Type: Invitation for outlines

Related themes: Digital economy, ICT

<http://www.epsrc.ac.uk/funding/calls/userinteractionwithict/>

Royal Society-EPSRC Dorothy Hodgkin Research Fellowships

The EPSRC is pleased to be working in partnership with the Royal Society to support Royal Society-EPSRC Dorothy Hodgkin Research Fellowships.

Issue date: 22 October 2014
Closing date: 12 January 2015 at 17:00
Status: Open
Type: Invitation for proposals
Related themes: All themes
<http://www.epsrc.ac.uk/funding/calls/rsepsrcdorothyhodgkinfellowships/>

Fellowships

Fellowships are available in a number of priority areas <http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process <http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

If you experience any problems, please contact the EPSRC Webteam: webteam@epsrc.ac.uk

Please note that due to changes on the EPSRC website the subscription features are not currently available. We will be in contact in due course with details of how you will be able to manage your subscription.

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From: PressOffice@epsrc <pressoffice@epsrc.ac.uk>
Sent: 05 November 2014 11:36
Subject: Clark announces £17million for industry PhD collaborations (EPSRC Press Release)

EPSRC Press Release

PN: 79-14

Issue Date: Wednesday 5th November 2014

Clark announces £17million for industry PhD collaborations

Companies and universities across the UK are to benefit from £17 million collaborative funding for postgraduate students in engineering, the physical sciences and mathematics. Nearly forty companies will be involved with over 200 students.

Announcing the awards in Tomorrow's Engineers Week, **Universities, Science and Cities Minister, Greg Clark** said: "Our universities are renowned for producing world-beating research and fostering world-leading scientists. The announcements made today are further strides in bringing businesses and academia closer. This is crucial to ensure our scientists and engineers have the support and opportunities they need to unlock their research's potential."

Professor Philip Nelson, CEO of the Engineering and Physical Sciences Research Council (EPSRC) which supplies the funds, said: "ICASE awards are extremely popular with business and universities. They provide PhD students with first-rate, challenging research training which brings mutual benefit to both academic and partner organisations.

"The student's experience is enhanced by giving them access to training, facilities and expertise not available in an academic setting alone. They also have an opportunity to develop a range of valuable skills and significantly enhance their future employability. Many will become tomorrow's research leaders."

Industrial Cooperative Awards in Science & Technology (ICASE) provides funding for PhD studentships directly to businesses which take the lead in arranging projects with an academic partner of their choice. The awards have been endorsed by representatives for some of the UK's leading companies.

Owen Nicholson, External Research Programme Manager at Dyson Ltd, said: "Our interests are broad and our focus is on the long-term – developing exciting technologies that deliver real benefits to Dyson owners around the world. Dyson has more than 50 live research projects with universities across the UK. With the EPSRC's support and the ICASE studentships, we are able to support PhD's in technical areas which we may otherwise not have been able to pursue independently."

Dr Malcolm Skingle, Director of Academic Liaison at GSK, said: "GSK very much values EPSRC's support of ICASE studentships over the past couple of decades. The research undertaken by these students underpins much of the drug discovery process. These programmes are a win, win, win; for industry, for academia and of course for students. Many of these bright people will be the research leaders and research directors of the future."

Tim Embley, Group Innovation and Knowledge Manager at Costain plc, said: "Universities provide a vital role in developing talent and addressing industry challenges through research. A strong strategic relationship with EPSRC has been the enabler for Costain to engage with the ICASE scheme. This investment will allow the business to develop future business leaders and continue to accelerate valuable innovation to market making a positive impact on our customers' business performance."

Notes for Editors:

How ICASE works

A company allocated an award defines a research project and picks an academic partner. Once the arrangements for the project have been agreed between the company and research organisation, they can recruit a student. Companies may place these studentships with any Research Organisation that also receives Doctoral Training Partnership funding from EPSRC. The rationale for this is twofold:

1. To provide a potentially better student experience (via the student being part of a larger cohort of individuals working in leading research teams for example).
2. To facilitate the strategic use of all EPSRC's students via EPSRC working with a smaller group of companies and research organisations, to target training at areas of particular strategic importance.

How Industrial CASE awards are allocated

EPSRC allocates awards directly to businesses, primarily using an algorithm based on financial contributions to EPSRC-funded research.

Eligibility

To be an Industrial CASE sponsor, companies must have an established UK-based research and/or commercial production capability.

Student eligibility requirements for EPSRC Industrial CASE funding are the same as for our other studentship awards, namely:

- A relevant connection with the UK, usually established by residence
- An upper second class honours degree, or a combination of qualifications and/or experience equivalent to that level

EU students may be eligible for a fees-only award (no maintenance grant).

The Engineering and Physical Sciences Research Council (EPSRC) is the UK's main agency for funding research in engineering and physical sciences. EPSRC invests around £800m a year in research and postgraduate training, to help the nation handle the next generation of technological change. The areas covered range from information technology to structural engineering, and mathematics to materials science. This research forms the basis for future economic development in the UK and improvements for everyone's health, lifestyle and culture. EPSRC works alongside other Research Councils with responsibility for other areas of research. The Research Councils work collectively on issues of common concern via Research Councils UK.

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Clare McMullan

From: EPSRC Strategic Advisory Network <san@epsrc.ac.uk>
Sent: 03 November 2014 14:49
To:

Paul Younger;

Subject: EPSRC All-SAN Conference - Delegate Pack
Attachments: Combined PDF Delegate Pack.pdf

Importance: High

Dear Council and SAN members

First of all thank you for kindly agreeing to participate in the all SAN Conference on 12 November. The primary focus will be looking forward to the next Spending Review and the principal aim of the day is to enable the Executive to make recommendations to Council to the December meeting regarding our next Delivery Plan by generating advice on:

- The appropriate overall balance between research/ training/ fellowships under +/- scenarios;
- Ways to safeguard long-term capability;
- Ways to enhance interaction with Innovate UK and catapults;
- Ways to ensure effective support for inter-disciplinarity;
- Identification of the big strategic impacts and risks;
- Options for a radical approach to structure our portfolio;
- Capture "big ideas" for the next SR and Delivery Plan.

It is hoped that the outputs from the iterations on 12 November will enable Council to:

- Conduct an informed discussion on each of the issues above;
- Propose a package of options to take out to the community in Q1 2015.

I should add that there will be opportunity following the Council discussions on 9/10 December and the stakeholder engagement process for the SAN to have further deliberations next spring in order to firm up advice to Council. You will wish to note therefore that we are looking to arrange a further exceptional all SAN conference during June 2015.

Attached is a plan for the day together with a set of background papers and reading which you may wish to look at in order to prepare, these papers are 'booked-marked' which will enable you to go to specific document(s) within the set of papers. There are two main activities during the day, and the papers include a briefing document describing each of these. **Please note that we will provide hard copies of all the relevant documentation on the**

day so there is no need to print this off. This material is very much intended as provocation for SAN discussion and does not represent developed thinking or indicate a preferred direction. Indeed there is a fair amount of documentation, particularly in relation the portfolio balance exercise scheduled for the morning session – this consists of reports from recent SAT meetings. It might be helpful for you to focus on the aspects of the SAT Output Reports which specifically address the question that you respective breakout group has been assigned to (you can find the Groups under the “Activity 1” section of the papers).

- Group 1 – Inter-diciplinarity (Section 5 of SAT Reports)
- Group 2 – Innovate UK and Catapults (Section 4 of SAT Reports)
- Group 3 - Long Term Capability (Section 6 of SAT Reports)
- Group 4 - Impacts and Risks (Section 8 of SAT Reports)

If you have any questions regarding the paperwork or the event itself do not hesitate to contact me.

I look forward to seeing you all on 12 November.


Strategy & Planning
TEL: 01793 
e-mail: @epsrc.ac.uk

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ALL SAN CONFERENCE - WEDNESDAY 12 NOVEMBER 2014 - DELEGATE LIST

| DELEGATE | INSTITUTION | ACTIVITY 1 | ACTIVITY 2 |
|----------|--|------------|------------|
| | | Group 3 | Group 2 |
| | Engineering and Physical Sciences Research Council | Group 4 | Group 4 |
| | | Group 3 | Group 4 |
| | Engineering and Physical Sciences Research Council | Group 3 | Group 4 |
| | | Group 1 | Group 4 |
| | | Group 4 | Group 2 |
| | | Group 1 | Group 3 |
| | | Group 4 | Group 4 |
| | | Group 2 | Group 1 |
| | | Group 3 | Group 3 |
| | Engineering and Physical Sciences Research Council | Group 1 | Group 1 |
| | | Group 4 | Group 3 |
| | Engineering and Physical Sciences Research Council | Group 2 | Group 2 |
| | | Group 4 | Group 2 |
| | Engineering and Physical Sciences Research Council | Group 3 | Group 3 |
| | Engineering and Physical Sciences Research Council | Group 2 | Group 2 |
| | | Group 2 | Group 1 |
| | Engineering and Physical Sciences Research Council | Group 2 | Group 2 |
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| | | Group 2 | Group 2 |
| | | Group 3 | Group 4 |
| | | Group 4 | Group 1 |
| | | Group 3 | Group 3 |
| | Engineering and Physical Sciences Research Council | Group 4 | Group 4 |
| | | Group 2 | Group 4 |
| | | Group 2 | Group 4 |
| | | Group 4 | Group 1 |
| | | Group 1 | Group 3 |
| | | Group 2 | Group 2 |
| | Engineering and Physical Sciences Research Council | Group 1 | Group 1 |
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| | | Group 4 | Group 3 |
| | Engineering and Physical Sciences Research Council | Group 4 | Group 4 |
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| | | Group 2 | Group 4 |
| | | Group 1 | Group 2 |
| | Engineering and Physical Sciences Research Council | Group 2 | Group 2 |
| | | Group 3 | Group 1 |
| | Engineering and Physical Sciences Research Council | Group 3 | Group 3 |
| | | Group 4 | Group 1 |
| | Engineering and Physical Sciences Research Council | Group 1 | Group 1 |
| | Engineering and Physical Sciences Research Council | Group 2 | Group 2 |
| | | Group 1 | Group 3 |
| | Engineering and Physical Sciences Research Council | Group 1 | Group 1 |
| | Engineering and Physical Sciences Research Council | Group 3 | Group 3 |

ACTIVITY 1 - Portfolio Balance and Priorities

| | GROUP 1 | GROUP 2 | GROUP 3 | GROUP 4 |
|------------------|----------------------|---------------------------|----------------------|-------------------|
| | Inter- diciplinarity | Innovate UK and catapults | Long term capability | Impacts and risks |
| COUNCIL/ SAN | | | | |
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| EPSRC STAFF | | | | |
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| AREA | A | B | C | D |
| | B | C | D | A |
| | C | D | A | B |
| | D | A | B | C |
| Breakout Room | Edwardian I | Edwardian I | Edwardian II | Taj Room |

ACTIVITY 2 - Consider ways of structuring the portfolio to deliver the Strategic Plan

[illegible]

FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 21 October 2014 17:57
To: Paul Younger
Subject: EPSRC Calls Alert

Hello

This is EPSRC's email alert of the latest calls for proposals.

SUPERGEN energy storage challenge call

EPSRC, as part of its contribution to the Research Councils UK Energy Programme, is looking to support collaborative research proposals to undertake fundamental research that will underpin the development of energy storage technologies.

Issue date: 16 October 2014
Closing date: 07 January 2015 at 16:00
Status: Open
Type: Invitation for proposals
Related themes: Energy
<http://www.epsrc.ac.uk/funding/calls/supergen-energy-storage-challenge-call/>

CHIST-ERA (European Coordinated Research on Long-term Challenges in ICST) call 2014

EPSRC is a participant in the European Coordinated Research on Long-term Challenges in Information and Communication Sciences and Technologies ERA-Net (~~CHIST-ERA~~ consortium of European funding organisations with programmes supporting Information and Communication Sciences and Technologies (ICST) research.

Issue date: 15 October 2014
Closing date: 13 January 2015 at 16:00
Status: Open
Type: Invitation for proposals
Related themes: ICT
<http://www.epsrc.ac.uk/funding/calls/chisteracall2014/>

Fellowships for the future of manufacturing: challenges from the Manufacturing Foresight report

The Manufacturing the Future Theme is looking to establish a number of Fellowships that will act as a response to the Manufacturing Foresight report.

Issue date: 15 October 2014
Closing date: 09 December 2014 at 16:00
Status: Open
Type: Expression of interest
Related themes: Manufacturing the future
<http://www.epsrc.ac.uk/funding/calls/fellowships-for-the-future-of-manufacturing-challenges-from-the-manufacturing-foresight-report/>

Fellowships

Fellowships are available in a number of priority areas <http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process <http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

If you experience any problems, please contact the EPSRC Webteam: webteam@epsrc.ac.uk

Please note that due to changes on the EPSRC website the subscription features are not currently available. We will be in contact in due course with details of how you will be able to manage your subscription.

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From: [REDACTED] <[REDACTED]@epsrc.ac.uk>
Sent: 20 October 2014 15:18
To: [REDACTED]

Cc:

Dear SAN Members

Best wishes

Strategy & Planning
TEL: 01793 [REDACTED]
e-mail: [REDACTED]@epsrc.ac.uk

From: EPSRC Strategic Advisory Network
Sent: 05 August 2014 14:40
To: [REDACTED]

Cc:

Subject: SAN Member Update Briefings from EPSRC Council Meetings

Dear SAN Members

Further to my email below, we are now going to schedule an update briefing from the October 2014 EPSRC Council meeting and to also cover some points prior to the All SAN Conference in November 2014. The date scheduled for the update briefing is:

- **Tuesday 21 October 2014 commencing at 14:00-15:00 hours.**

The above update briefing will be hosted by [REDACTED]. For those of you who wish to participate the dial-in details are as below, if you are unable to participate the SAN Bulletin will be sent out via email after the teleconference.

Teleconference Dial-in Details

1. At the specified time*, call into the conference using the appropriate dial-in number:

- Freephone: 0800 [REDACTED]
- Local Access: 0844 [REDACTED]
- Standard International: +44(0)207 [REDACTED]

***Note:** The conference line will be open from **13:50 hours** to allow a prompt start at 14:00 hours.

2. When prompted, enter the conference code: [REDACTED] followed by the # you should now be connected. EPSRC would appreciate that once you have connected to the conference if you could introduce yourself.

If you encounter any problems on the day you can, for operator assistance, dial 00 from the telephone keypad or Customer Service on 08717 [REDACTED] quoting the conference code. Alternatively, contact me on the below telephone number or email.

An outlook meeting schedule will be sent with the above details.

Kind Regards

[REDACTED]

From: [REDACTED] EPSRC, CIS)

Sent: 08 May 2014 11:02

To: [REDACTED]

Younger, Paul

Cc: [REDACTED]

Subject: SAN Member Update Briefings from EPSRC Council Meetings

Dear SAN Members

As you are aware we provide update briefings from each of our EPSRC Council Meetings. We will now only provide one briefing date after each Council Meeting whereas previously we have provided two. We are now planning

ahead to set the dates for the rest of 2014, which will hopefully provide you with a better notification of the dates of the briefings.

The briefings will be either by teleconference or WebEx which will be confirmed nearer to each date. I will be sending a meeting schedule via Outlook so you have the dates electronically but I appreciate that not everyone works with Outlook, so it would therefore be very much appreciated if you could note the dates below.

- May 2014 Council Meeting – Briefing Date: **Thursday 5 June 2014 – 13:30-14:30 hours**
- July 2014 Council Meeting – Briefing Date: **Tuesday 22 July 2014 – 14:00-15:00 hours**
- December 2014 Council Meeting – Briefing Date: **Thursday 18 December 2014 – 13:00-14:00 hours**

There will not be a briefing after the October 2014 Council Meeting as this will be covered at the ***All SAN Conference*** which is taking place on **Wednesday 12 November 2014** in London, if you have not already done so, please note this date.

A SAN Bulletin will be sent out via email after each update briefing which will include all of the areas covered should you not be able to participate in a particular date.

Please do not hesitate to contact me should you have any further questions.

Kind Regards

[Redacted]
[Redacted]
Strategy and Business Planning
EPSRC, Polaris House (FFN), North Star Avenue, Swindon, SN2 1ET
E: [Redacted]@epsrc.ac.uk
T: +44(0)1793 [Redacted]
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W: <http://www.epsrc.ac.uk/>
W: <http://twitter.com/epsrc>

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| | |
|--------------------|--|
| | BUSINESS PLAN TIMELINE |
| September/Oct | SATs meet to work on scenario-modelling. |
| 07 October | Council approves Strategic Plan (subject to final comments). |
| 08 October | Council-SAN sub-group considers structure models. |
| 12 November | All-SAN Conference advises on scenarios and structure models. Feedback to SATs. |
| By end November | Publication of Strategic Plan. |
| 10 December | Council defines directional options on which to consult. Feedback to SAN & SATs. |
| Q1 2015 | Community engagement period. Themes continue developing detailed plans (and throughout year). |
| 03/04 March | Council reviews emerging responses from community. |
| April | SATs conference refines/validates emerging plans, in context of community feedback. Council-SAN sub-group considers feedback on structure models. |
| 12/13 May | Council reviews All-SAN recommendations. |
| May | General Election. |
| June | All-SAN provides balancing overview, in context of (a) election result, (b) community feedback on plans. |
| June onwards | CSR initiated. RC interaction with BIS on development of bids and plans. |
| 07/08 July | Council signs off final Spending Review position and DP priorities (subject to HMT/BIS SR parameters). |
| August – December | Development of detailed Delivery Plan. |
| Late Nov/early Dec | Autumn Statement – departmental settlements. |
| Early 2016 | Research Council allocations. |

| | |
|-----------|---|
| | |
| Feb/March | Council signs off Delivery Plan. |
| March | Publication of Delivery Plan. |

Clare McMullan

From: EPSRC Strategic Advisory Network <san@epsrc.ac.uk>
Sent: 17 October 2014 09:04
To: [REDACTED]

Cc: Paul Younger
[REDACTED]

Subject: FW: SAN Member Update Briefings from EPSRC Council Meetings

Dear SAN Members

Just a little reminder for those who can participate. The update from the October 14 Council Meeting and pre-briefing for the All SAN Conference will take place **on Tuesday 21 October 2014 commencing at 14:00 hours**. Dial-in-details are below and please note that the phone line will be open from 13:50 hours to enable a prompt start at 14:00 hours.

Many thanks
Kind Regards
[REDACTED]

From: PressOffice@epsrc <pressoffice@epsrc.ac.uk>
Sent: 14 October 2014 09:39
Subject: Cambridge team explore power of thorium for improved nuclear design (EPSRC Press Release)

EPSRC Press Release

PN 76-14

Issue Date: 14 October 2014

Cambridge team explore power of thorium for improved nuclear design

The UK is playing a key role in an international project to develop a radical new type of nuclear power station that is safer, more cost-effective, compact, quicker and less disruptive to build than any previously constructed.

Funded by the Engineering and Physical Sciences Research Council (EPSRC), as part of the RCUK Energy Programme, a team at the University of Cambridge is exploring whether the element thorium could help to meet the new design's fuel needs. As well as being three to four times more abundant than uranium, thorium could potentially produce electricity more fuel efficiently and therefore more cheaply.

The aim of the overall project, initiated by the US Department of Energy and led by Georgia Institute of Technology, is to design a power plant whose size would be reduced and safety enhanced by breaking with convention and integrating the main heat exchangers inside the secure pressure vessel where the nuclear reactions take place. This innovation gives the design its name: Integral Inherently Safe Light Water Reactor (I2S-LWR).

Dr Geoff Parks, who is leading the Cambridge team, says: "The fact that we are part of such a pioneering international project not only reflects the UK's enduring reputation in nuclear science and engineering – it also provides a platform for the UK to develop a new suite of relevant, globally marketable skills for the years and decades ahead. If all goes to plan, construction of the first I2S-LWRs could begin in around 10 years, making deployment of nuclear power more practical, more cost-effective and more publicly acceptable worldwide."

The I2S-LWR, which could also be constructed off-site, module by module, and then quickly assembled on site, would be suitable for deployment worldwide. In this country, it could contribute to a new era of nuclear power that helps the UK meet its carbon reduction targets and energy security objectives; no new nuclear power station has been built here since Sizewell B began generating in 1995. With a power rating of around 1GW, the output from the I2S-LWR would be comparable with Sizewell B's 1.2GW rating, but the station should be significantly less costly in real terms.

The EPSRC-funded part of the project will help the UK reinvigorate its technical expertise in civil nuclear power and attract a new generation of engineers and scientists to the field. Expertise of this kind will be crucial to securing the UK's nuclear future but has significantly diminished during the 20 year 'nuclear hibernation' where no new nuclear power stations have come on stream.

The Cambridge team will focus on how thorium, which can be converted into the isotope uranium-233, could be used alongside uranium silicide to fuel the I2S-LWR. The team will assess the

question not just from the perspective of fundamental nuclear reactor physics but also in terms of the scope to achieve high fuel-to-power conversion efficiency and to recycle spent nuclear fuel – key issues impacting the cost-effectiveness of the thorium fuel option.

– Ends –

For media enquiries contact:

[REDACTED] University of Cambridge, Tel: 01223 [REDACTED] E-mail: [REDACTED]@cam.ac.uk;

For images contact the EPSRC Press Office, Tel: 01793 444 404,
e-mail: pressoffice@epsrc.ac.uk

Image 1: A visualisation of the I2S-LWR pressure vessel and contents.

Image 2: A 3D printed model of the I2S-LWR pressure vessel and contents.

Image 3: A schematic of the I2S-LWR concept.

Credit images to the Georgia Institute of Technology

Notes to Editors:

The 3.5-year project, 'Integral Inherently Safe Light Water Reactor (I2S-LWR)' GOW EP/K033611/1, has received around £279,000 in EPSRC funding and is due to run until January 2017.

For more information on the overall international project, see
<http://energy.gov/sites/prod/files/2013/09/f2/9-Petrovic.pdf>

The I2S-LWR would be a type of pressurised water reactor (PWR), a technology well-established around the world. Examples include Sizewell B power station on the Suffolk coast.

In a PWR, heat is taken away from the nuclear core by a primary coolant and then transferred to a secondary coolant which is raised to steam. This steam is then used to drive turbines and generate electricity.

Nuclear power currently produces around one-sixth of the UK's electricity. Most existing nuclear power stations in this country are scheduled to close by 2023. The Coalition Government's vision is that nuclear power should continue to play an important role in the UK's energy mix, with energy companies building new power stations subject to the normal planning process and without public subsidy. www.gov.uk/government/policies/increasing-the-use-of-low-carbon-technologies/supporting-pages/new-nuclear-power-stations

Conventionally, nuclear power stations use uranium oxide as their main fuel. Uranium silicide's higher density and better thermal conductivity mean it could potentially deliver superior power production performance, resulting in lower-cost electricity.

The Engineering and Physical Sciences Research Council (EPSRC) is the UK's main agency for funding research in engineering and the physical sciences. EPSRC invests around £800 million a year in research and postgraduate training, to help the nation handle the next generation of technological change. The areas covered range from information technology to structural engineering, and mathematics to materials science. This research forms the basis for future

economic development in the UK and improvements for everyone's health, lifestyle and culture. EPSRC works alongside other Research Councils with responsibility for other areas of research. The Research Councils work collectively on issues of common concern via Research Councils UK. www.epsrc.ac.uk

The Research Councils UK (RCUK) Energy Programme

The Research Councils UK Energy Programme led by EPSRC aims to position the UK to meet its energy and environmental targets and policy goals through world-class research and training. The Energy programme is investing more than £625 million in research and skills to pioneer a low carbon future. This builds on an investment of £839 million over the past eight years.

The Energy Programme brings together the work of EPSRC and that of the Biotechnology and Biological Sciences Research Council (BBSRC), the Economic and Social Research Council (ESRC), the Natural Environment Research Council (NERC), and the Science and Technology Facilities Council (STFC).

About the University of Cambridge

The mission of the University of Cambridge is to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence. To date, 90 affiliates of the University have won the Nobel Prize.

Founded in 1209, the University comprises 31 autonomous Colleges, which admit undergraduates and provide ~~small-group tuition, and 150 departments, faculties and institutions.~~

Cambridge is a global university. Its 19,000 student body includes 3,700 international students from 120 countries. Cambridge researchers collaborate with colleagues worldwide, and the University has established larger-scale partnerships in Asia, Africa and America.

The University sits at the heart of one of the world's largest technology clusters. The 'Cambridge Phenomenon' has created 1,500 hi-tech companies, 14 of them valued at over US\$1 billion and two at over US\$10 billion. Cambridge promotes the interface between academia and business, and has a global reputation for innovation. www.cam.ac.uk

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FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 01 October 2014 19:09
To: Paul Younger
Subject: EPSRC Calls Alert

Hello

This is EPSRC's email alert of the latest calls for proposals.

EPSRC-JSPS Core-to-Core collaboration in spintronics and advanced materials

EPSRC is seeking proposals from the successful candidates at the first stage of this call which is 'Expression of Interests for participation in the JSPS Core-to-Core Scheme in the area of Spintronics and Advanced Materials'.

Issue date: 26 September 2014
Closing date: 30 October 2014 at 16:00
Status: Open
Type: Invitation for proposals
Related themes: Physical sciences
<http://www.epsrc.ac.uk/funding/calls/epsrcjspscoretocore/>

Bridging the gaps between the engineering and physical sciences and antimicrobial resistance

As part of the cross-council initiative in Antimicrobial Resistance (AMR), the EPSRC is launching this call which will aim to engage engineering and physical sciences (EPS) researchers with the AMR challenge.

Issue date: 26 September 2014
Closing date: 02 December 2014 at 16:00
Status: Open
Type: Invitation for proposals
Related themes: Engineering, Healthcare technologies, ICT, Manufacturing the future, Mathematical sciences, Physical sciences
<http://www.epsrc.ac.uk/funding/calls/bridgingthegapsepsamr/>

Fellowships

Fellowships are available in a number of priority areas <http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process <http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

If you experience any problems, please contact the EPSRC Webteam: webteam@epsrc.ac.uk

Please note that due to changes on the EPSRC website the subscription features are not currently available. We will be in contact in due course with details of how you will be able to manage your subscription.

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[REDACTED]

Wednesday 12 November 2014

Timings:

10:00 am – Arrival and Registration

10:30 am – All SAN Conference to commence

16:30 pm – All SAN Conference to End

A full agenda will be sent out in due course. Please note that refreshments and lunch will be provided.

Overnight Accommodation:

I am sure that you will appreciate that EPSRC are only able to provide overnight accommodation on the evening of Tuesday 11 September 2014 if you are unable to travel on the morning of the 12th to arrive in time for the start of the meeting. ***Please confirm if you will require overnight accommodation for the one night only of the 11th.***

Venue:

Edwardian I

St James Court, A Taj Hotel

Private Rooms

51-54 Buckingham Gate

London

SW1E 6AF

Tel: 020 7769 7766

<http://www.51-buckinghamgate.com/>

Please do not hesitate to contact me if you have any questions or I can assist further.

~~Kind Regards~~

[Redacted]

[Redacted]

Strategy and Business Planning

EPSRC, Polaris House (FFN), North Star Avenue, Swindon, SN2 1ET

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W: <http://www.epsrc.ac.uk/>

W: <http://twitter.com/epsrc>

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FOI Office

From: Photocomp@epsrc.ac.uk
Sent: 08 September 2014 23:49
To: Paul Younger
Subject: EPSRC Science Photo Competition

Hi

Following the success of our first EPSRC Science Photo Competition last year we have just opened this year's competition and the closing date is the 1st December 2014. The competition is open to all EPSRC-supported researchers and EPSRC-supported doctoral students. For more information and details on how to enter please see - www.epsrc.ac.uk/photocomp.

Many thanks

EPSRC Photo Competition Team

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FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 08 September 2014 17:39
To: Paul Younger
Subject: EPSRC Email Alert

Hello

This is EPSRC's email alert of the latest calls for proposals.

Preparatory grant in nanotechnology (Lloyd's Register Foundation)

Lloyd's Register Foundation invites proposals from consortia of universities and research organisations for preparatory grants to establish an international research consortium in nanotechnology.

Issue date: 08 September 2014
Closing date: 24 September 2014
Status: Open
Type: Invitation for proposals
Related themes: Physical sciences

<http://www.epsrc.ac.uk/funding/calls/lloydsregisternanotechnologypreparatorygrant/>

RCUK Digital Economy Theme - Telling Tales of Engagement Competition 2014

The RCUK Digital Economy Theme is running a competition designed to help capture and promote the impact that your digital economy research is having.

Issue date: 05 September 2014
Closing date: 19 November 2014 at 12:00
Status: Open
Type: Expression of interest
Related themes: Digital economy

<http://www.epsrc.ac.uk/funding/calls/tellingtales2014/>

Fellowships

Fellowships are available in a number of priority areas <http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process <http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

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FOI Office

From: EPSRC Calls Alert <EPSRCCallsAlert@epsrc.ac.uk>
Sent: 03 September 2014 17:51
To: Paul Younger
Subject: EPSRC Email Alert

Hello

This is EPSRC's email alert of the latest calls for proposals.

Nuclear Energy University Programs (NEUP) Integrated Research Project (IRP) - US/UK collaborative funding opportunity

The U.S. Department of Energy's Office of Nuclear Energy created Nuclear Energy University Programs (NEUP) in 2009 to consolidate its university support under one programme. The RCUK Energy Programme (RCEP), led by EPSRC, would like to encourage the participation of UK researchers in this programme.

Issue date: 29 August 2014

Closing date: 02 October 2014 at 12:00

Status: Open

Type: Collaborative research

Related themes: Energy, Engineering, LWECC, Manufacturing the future, Mathematical sciences, Physical sciences

<http://www.epsrc.ac.uk/funding/calls/nuclear-energy-university-programs-neup-integrated-research-project-irp-us-uk-collaborative-funding-opportunity/>

Design the Future

Expression of interest are invited for research ideas to explore how designers use the integration of new engineering and technologies, leading to the development of future products, manufacturing processes, devices, services and industrial and infrastructure systems.

Issue date: 29 August 2014

Closing date: 29 October 2014 at 16:00

Status: Open

Type: Invitation for proposals

Related themes: Digital economy, Engineering, ICT, Manufacturing the future, Mathematical sciences

<http://www.epsrc.ac.uk/funding/calls/designthefuture/>

MRC and EPSRC molecular pathology nodes

MRC and EPSRC invite proposals to establish high-quality molecular pathology nodes, each a multidisciplinary centre of innovative diagnostic test discovery and development bringing together the research base, pathology/genetic services and industry.

Issue date: 28 August 2014

Closing date: 10 November 2014 at 16:00

Status: Open

Type: Invitation for proposals

Related themes: Engineering, Healthcare technologies, Manufacturing the future, Mathematical sciences, Physical sciences

<http://www.epsrc.ac.uk/funding/calls/molecularpathologynodes/>

UK-Republic of Korea Civil Nuclear Research Programme

EPSRC, in collaboration with The South Korean Ministry Science, ICT and Future Planning (MSIP), seeks collaborative research applications in nuclear decommissioning nuclear waste treatment and disposal.

Issue date: 22 August 2014

Closing date: 25 November 2014 at 10:00

Status: Open

Type: Invitation for proposals

<http://www.epsrc.ac.uk/funding/calls/ukrokoreacivilnuclearresearch/>

Fellowships

Fellowships are available in a number of priority areas <http://www.epsrc.ac.uk/skills/fellows/areas/>

Applications can be submitted at any time and will be processed on a rolling basis - further information on the application and peer review process <http://www.epsrc.ac.uk/skills/fellows/peerreviewprocess/>

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Clare McMullan

From: [REDACTED]@epsrc.ac.uk>
Sent: 02 December 2014 09:33
To: [REDACTED]

Cc: Paul Younger
Subject: Peter Ferris (EPSRC, CIS)
EPSRC Strategic Plan

Dear SAN Members

I would like to alert you that the revised EPSRC Strategic Plan was published on the EPSRC website today which can be found at the following link <http://www.epsrc.ac.uk/newsevents/news/2015strategicplan/>

Kind Regards

[REDACTED]
[REDACTED]
Strategy and Business Planning
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W: <http://www.epsrc.ac.uk/>
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Clare McMullan

From: Paul Younger
Sent: 17 November 2014 21:41
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: SAN - resignation

Thanks [REDACTED]

I have greatly appreciated the time I spent in these EPSRC networks, and wish you all the best for the future.

Paul Y

From: [REDACTED] [mailto:[REDACTED]@epsrc.ac.uk]
Sent: 17 November 2014 14:04
To: Paul Younger
Cc: [REDACTED]
Subject: RE: SAN - resignation

Dear Paul

Thank you very much for your email and I would like to congratulate you on your Senate Assessor appointment and send you the very best of wishes. We are of course very disappointed that you are unable to continue as a member on the EPSRC SAN and totally understand with the time commitments that you will have.

I am aware that my colleague, [REDACTED] has known you for a longer period of time than myself and may wish to send his own best wishes when he returns to the office, but I would like to thank you on behalf of EPSRC for your commitment, expertise and wealth of knowledge that you have given to us.

With very best wishes

Kind Regards
[REDACTED]

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From: Paul Younger [mailto:Paul.Younger@glasgow.ac.uk]
Sent: 14 November 2014 17:38
To: [REDACTED]
Cc: [REDACTED]
Subject: SAN - resignation

Dear [REDACTED]

I have just today learned that the University have appointed me to serve as a "Senate Assessor" (i.e. academic representative) on the governing body of the institution, which here is called Court. The post starts with immediate effect and brings with it a huge amount of time commitments, such as chairing academic appointment panels, serving on departmental reward and remuneration reviews, strategic subject review panels etc. To cope with this new workload I am having to relinquish some other commitments, internally and externally. As my ability to contribute to the EPSRC SAN has already been limited of late due to teaching commitments, I think it might be best if I resign from this duty now, and thus open up a space for someone with more time to truly commit to it. I have greatly enjoyed my time on SAN (and on SIP before that), and it is thus with considerable regret that I reach this conclusion. I hope that it does not cause you too much of a headache finding a replacement in mid-term.

Best wishes

Paul Younger

Professor Paul L Younger FEng
Rankine Chair of Engineering
and
Professor of Energy Engineering
School of Engineering
Room 623, James Watt Building (South)
University of Glasgow
Glasgow G12 8QQ
SCOTLAND

Tel. 0141 330 5042
Mob. 07711 391 066

Web: <http://www.gla.ac.uk/schools/engineering/staff/paulyounger/>
Email: paul.younger@glasgow.ac.uk

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Clare McMullan

From: [REDACTED]@epsrc.ac.uk>
Sent: 13 November 2014 11:18
To: [REDACTED]
Cc: Paul Younger
Subject: All SAN Meeting
Attachments: Slide Set version 4 for distribution to SAN members.pptx

Attached for information is a copy of the slide set used for yesterday's meeting.

Best wishes

[REDACTED]
[REDACTED]
Strategy & Planning
TEL: 01793 [REDACTED]
e-mail: [REDACTED]@epsrc.ac.uk

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Clare McMullan

From: Paul Younger
Sent: 05 November 2014 10:47
To: [REDACTED]
Subject: RE: Water-Food-Energy sandpit

Thanks [REDACTED]

Paul Y

From: [REDACTED] [mailto:[REDACTED]@epsrc.ac.uk]
Sent: 05 November 2014 10:28
To: Paul Younger
Subject: RE: Water-Food-Energy sandpit

Paul,

It's not a great system but you shouldn't be concerned, your EOI has been received.

Regards.

[REDACTED]

From: Paul Younger [mailto:Paul.Younger@glasgow.ac.uk]
Sent: 04 November 2014 16:58
To: [REDACTED]
Subject: Water-Food-Energy sandpit

Hi [REDACTED]

I hope all is well with you.

I just completed the on-line application for the sandpit and rather expected the tool would either allow me to print the thing before logging off, or would email me a copy of what I submitted, but it did neither. Should I be concerned?

Best wishes

Paul Younger

Professor Paul L Younger FEng
Rankine Chair of Engineering, and
Professor of Energy Engineering
School of Engineering
James Watt Building (South)
University of Glasgow
GLASGOW G12 8QQ, Scotland

Tel. 0141 330 5042

Mob. 07711 391 066

Email: paul.younger@glasgow.ac.uk

Web: <http://www.gla.ac.uk/schools/engineering/staff/paulyounger/>

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Clare McMullan

From: [REDACTED]@epsrc.ac.uk>
Sent: 28 October 2014 14:40
To: [REDACTED]

Cc: Paul Younger
[REDACTED]

Subject: EPSRC Fee Payments

Follow Up Flag: Follow up
Flag Status: Completed

Dear SAN Members

The below notification has been placed on our internal intranet, this may be of interest to those of you who wish to receive Fee payments.

Kind Regards

[REDACTED]
[REDACTED]
Strategy and Business Planning
EPSRC, Polaris House (FFN), North Star Avenue, Swindon, SN2 1ET
E: [REDACTED]@epsrc.ac.uk
T: +44(0)1793 [REDACTED]

Meeting fee payments

Background

Meetings fees can originate from a number of activities with a few examples shown below:

- Panel Meetings
- Commissioning Meetings
- Peer Review Meetings
- Assessment Meetings

The payments received in respect of these meetings are considered by HM Revenue and Customs to be earned income and are subject to the appropriate level of tax deductions for the individual concerned.

As these payments are not paid through the UK SBS payroll the appropriate tax deductions are not made at source so it is the responsibility of the recipient and not the Research Council to ensure that

necessary tax arrangements are in place.

Tax issues within the public sector are subject to particular focus from HM Treasury and HM Revenue and Customs which has led to BIS instructing all Partner Organisations to ensure that appropriate tax arrangements are in place. This has led to statements being made in the Chief Executive's Annual Governance Statement that due attention is paid to tax issues and that the Research Council complies with HM Treasury and HM Customs and Revenue requirements.

A Research Council can be subject to HM Customs and Revenue inspections at any time, so it is important that there is transparency over meeting payments to demonstrate that the Research Council complies with tax arrangements.

Policy/Payments

Meeting payments should be made to the individual who has earned the income. Payments made to third parties remove the transaction's transparency and whilst this does not imply that paying third parties is a deliberate mechanism for avoiding tax it is prudent that the Research Council acts without reproach in a process that allows the individual to account for the income earned.

The only exception would be if the individual has a contractual arrangement with their employer which states that any additional income earned should be paid directly to the employer as recompense for the time spent away from their role. In these cases a record needs to be kept of the payment to facilitate any required disclosure to HM Customs and Revenue. Voluntary donations to the employer or to other third parties i.e. charities would need to be made directly by the individual and not by the Research Council.

In the above cases and also with payments to individuals, it should be made clear to the individual that it is their responsibility to ensure that the appropriate tax arrangements are in place for their particular circumstances.

 - PSU Risk and Assurance Team

9 October 2014

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Clare McMullan

From: Paul Younger
Sent: 19 October 2014 21:15
To: EPSRC Strategic Advisory Network
Subject: RE: SAN Member Update Briefings from EPSRC Council Meetings

Just in case I did not previously mention – I am teaching 2-5 that afternoon.

Paul Y

From: EPSRC Strategic Advisory Network [mailto:san@epsrc.ac.uk]
Sent: 17 October 2014 09:04

To: [REDACTED]

Paul Younger

Cc: [REDACTED]

Subject: FW: SAN Member Update Briefings from EPSRC Council Meetings

Dear SAN Members

Just a little reminder for those who can participate. The update from the October 14 Council Meeting and pre-briefing for the All SAN Conference will take place **on Tuesday 21 October 2014 commencing at 14:00 hours**. Dial-in-details are below and please note that the phone line will be open from 13:50 hours to enable a prompt start at 14:00 hours.

Many thanks
Kind Regards

[REDACTED]

Clare McMullan

From: Paul Younger
Sent: 15 September 2014 10:35
To: EPSRC Strategic Advisory Network
Subject: RE: EPSRC All SAN Conference - Wednesday 12 November 2014

Thanks [REDACTED]

As I further unpack my teaching timetable I discover that I am also now committed to a whole-afternoon session 2-4 on 21st Oct, which will rule me out for the telephone catch-up then ... I seem to be fated this term.

Paul

From: EPSRC Strategic Advisory Network [mailto:san@epsrc.ac.uk]
Sent: 15 September 2014 09:46
To: Paul Younger
Subject: RE: EPSRC All SAN Conference - Wednesday 12 November 2014

Dear Paul

To acknowledge, if your plans happen to change as you are able to attend, even at last minute, please let me know.

Kind Regards
[REDACTED]

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