

Big Science, Big Data – Big Challenges, Big Solutions?

14 May 2013, Brussels

**Dear ladies and gentlemen,
dear colleagues,**

I am pleased to cordially invite you to participate
in this year's Helmholtz Round Table on:

**Big Science, Big Data –
Big Challenges, Big Solutions?**
on 14 May 2013, 6:00pm

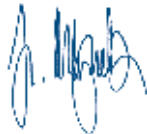
*at the Representation of the Free State of Bavaria
to the EU, Rue Wiertz 77, 1000 Brussels*

As a driver for innovation and future growth in Europe, big science produces increasing amounts of data. The prestigious Human Brain Project or experimental genetics are only two examples of cutting-edge research where scientists collect “big data”. However, the real challenge lies not only in collecting adequate data, but in finding ways to analyse them to come up with usable results. How could better data management help to achieve scientific results that enable us

to tackle the grand societal challenges?
Drawing on EU strategies for data management, our Round Table presents examples of how scientists in different disciplines like biomedicine and high-energy physics are dealing with big data. Without doubt, the key to the solution will not only require further technological development, but also concerted action.
What kind of European approaches could make sure that we all benefit from the “data deluge” instead of being overwhelmed by it?

I look forward to meeting you and exchanging
views with you on these critical issues.

Kind regards,



*Jürgen Mlynek
President of the Helmholtz Association*

Our Research Centres

- Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research
- Deutsches Elektronen-Synchrotron DESY
- German Cancer Research Center
- German Aerospace Center (DLR)
- German Center for Neurodegenerative Diseases (DZNE)
- Forschungszentrum Jülich
- GSI Helmholtz Centre for Heavy Ion Research
- GEOMAR Helmholtz Centre for Ocean Research Kiel
- Helmholtz-Zentrum Berlin für Materialien und Energie
- Helmholtz-Zentrum Dresden-Rossendorf
- Helmholtz Centre for Infection Research
- Helmholtz Centre for Environmental Research – UFZ
- Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research
- Helmholtz Zentrum München – German Research Center for Environmental Health
- Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences
- Karlsruhe Institute of Technology
- Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch
- Max Planck Institute for Plasma Physics (associate member)

Programme

18:00 Get together

18:30 Welcome addresses

- **Dr. Angelika Schlunck**, Director of the Representation of the Free State of Bavaria to the EU
 - **Prof. Dr. Jürgen Mlynek**, President of the Helmholtz Association
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18:45 • **Dr. Carl-Christian Buhr**, Member of the Cabinet of Ms Neelie Kroes, European Commission Vice-President for the Digital Agenda

- **Prof. Dr. Wilfried Juling**, Chief Science and Information Officer of the Karlsruhe Institute of Technology
» Setting the scene «
 - **Dr. Jamie Shiers**, Project Leader for Long-Term Data Preservation in High Energy Physics, CERN
» From challenges to solutions «
-

19:20 Panel discussion | Discussion moderated by **Jacki Davis**, Journalist

- **Prof. Dr. Katrin Amunts**, Forschungszentrum Jülich, Human Brain Project
 - **Prof. Dr. Martin Hrabé de Angelis**, Director of the Institute of Experimental Genetics, Helmholtz Zentrum München – German Research Centre for Environmental Health
 - **Prof. Dr. Jürgen Mlynek**, President of the Helmholtz Association
 - **Dr. Jamie Shiers**, Project Leader for Long-Term Data Preservation in High Energy Physics, CERN
 - **Peter Wittenburg**, Max Planck Institute for Psycholinguistics, Nijmegen, Member of the EC-High Level Expert Group on Scientific Data (Riding the Wave report)
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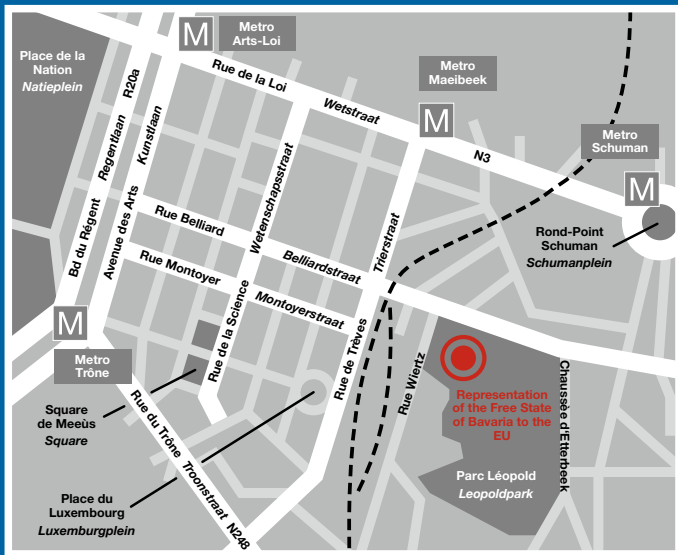
20:00 Informal buffet dinner

PLEASE REGISTER BEFORE 7 MAY 2013

- Please register via email and contact
events.bxl@helmholtz.de
- For questions, please contact Kristine August
Phone **+32 2 5000 971** · email *kristine.august@helmholtz.de*
- To contribute to the sustainable use of natural resources
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Kindly hosted by the
Representation of the Free State
of Bavaria to the European Union

Rue Wiertz 77 · 1000 Brussels