Club of Amsterdam

Summit for the Future: Energy

Date: January 26-28, 2005, Amsterdam, The Netherlands
Location: HES Amsterdam School for Business
Costs: € 1.000 - 1.214 (incl. VAT)
Summit2005@clubofamsterdam.com
http://www.clubofamsterdam.com/press.asp?contentid=373&catid=61
Registration Form:
http://www.clubofamsterdam.com/contentsummit/registration/Summit_for_the_Future_registration.doc

Gain critical insights and a deeper understanding of the issues that will shape the Knowledge Society. The Summit for the Future 2005 is an international conference that brings together experts, thought leaders, policy makers and knowledge workers.

Is Globalisation the single biggest factor affecting all our visions and strategies for 2020? Is it a threat to the fabric of society - or are those who do not join the people we should be keeping an eye on? Are all innovation and production gradually shifting to the BRICK countries by 2020 (Brazil, Russia, India, China, Korea)? Will Europe simply turn into the world's retirement home? Or will the current knowledge centres in UK and The Netherlands switch to Ireland, Sweden, Finland and Australia? How can we change Brain Drain into Brain Gain - or perhaps Brain Circulation is a better phrase?

At the end of January 2005, we're putting the pick of the strategic thinkers together for our first "Summit of the Future". It will be a creative clash of inspiration. We will debate the significance of global trends in the open plenary sessions - followed by simultaneous workshops in five key knowledge streams:

- **Trade / Service Industry**
- **Energy**
- **Healthcare**
- **Media & Entertainment**
- **Science & Technology**

Each Knowledge Stream can be attended by 25-30 participants.

The results of these workshops will then be discussed in the final plenary forum.

If you like thinking "out of the box", the Club of Amsterdam Summit may prove to be the best conference of 2005.

Energy
Knowledge Stream

Power the world! Transition Paths to Energy Systems of the future

Main theme: Pathways to an intelligent, clean and secure energy system.

1: Harvesting Energy
The world is full of energy. Solar-energy, Wind-energy, Geothermal, Wave and Biomass do provide far more energy than our worldwide demand. To benefit from this unlimited energy source we have to start harvesting and storing this energy on a large scale. Just like we learned to feed ourselves by growing crops using new rational farming techniques 10.000 years ago, we now have to design intelligent ways to harvest energy in order to fore fill the world wide growing energy need.
How can we create intelligent technical and financial pathways to a large scale use of sustainable sources?

2: Storing Energy
Oil and gas are always called ideal fuels because of their high energy content per volume. That may be true but they are far from ideal if we look from the point of sustainability. They are finite, can only be found in specific geological regions and they are carbon based. If we want a more secure more democratic and clean energy system we have to look for new ways to store the energy from sustainable sources like Solar, Wind, Geothermal, Wave. Hydrogen seems a good candidate. It is clean and the electrochemical conversion electricity-hydrogen-electricity makes it ideal as a storage medium.
How can we create intelligent technical and financial pathways to a Hydrogen Economy?

3: Using Energy
There is no energy problem. We have an entropy problem, which essentially means we are wasting energy on a very large scale. In energy terms we are still living in the 19th century where our engines are producing more heat than work. Our homes, our cars, our lights, our industrial production ….. heat is wasted on a large scale.

Our largest energy sources are efficiency and intelligent design of the machines we use. We need new designs; new materials integrated in new systems to create work not heat. Can nanotechnology help us?

How can we create intelligent technical and financial pathways to fundamental new materials and new energy systems?

Why should you attend?
- understand the drivers of change
- tackle key issues with experts
- prepare your organisation with long term visions
- network with thought leaders and policy makers

Who should attend?
Strategists in energy companies and related industries, department heads of universities and research institutes, governmental policy advisors, investors, ngo's.

The speakers at the Opening Event:

Tom Lambert, Chief Executive, Centre for Consulting Excellence,
Vladimir Petrovsky, former Director-General of the UN in Geneva,
Glen Hiemstra, Futurist, Futurist.com,
Wendy L. Schultz, Futurist, Infinite Futures

The speakers about the future of Energy:

Gerd Eisenbeiss: *The Future of Energy*
Member of the Board of Directors, Research Centre Jülich:
Co-ordinator of energy research in German national labs (Helmholtz-Association), vice-chair of the EU-Advisory Group on Energy, member of the board FZJ.

Michiel Jak: *Increase of the efficiency of sustainable sources in a virtual power plant environment* , Senior Consultant Sustainability & Hydrogen, Altran Technologies Netherlands BV,
An innovative scientist with market sense, international practise leader sustainable energy of the Altran Group

Tim Harper, CEO, Cientifica Executive Director, European NanoBusiness Association
Formerly engineer at European Space Agency - and now a global capacity in the Nanotechnology world.

Arnulf Grübler: *The Energy Challenges for the 21st Century*
IIASA - International Institute for Applied Systems Analysis
One of the few who has studied energy systems over the last and the next 100 years.

Katie Begg, Principal Lecturer, Institute of Energy & Sustainable Development, De Montfort University
She was an official expert on JI (Joint Implementation) and the CDM (Clean Development Mechanism) under the UNFCCC (United Nations Framework Convention on Climate Change) from 2002-4 and has published widely in this area in peer reviewed journals, book chapters, and having co-edited 2 books (Flexibility in Climate Policy, 2001, Earthscan and The Business of Climate Change, 2004, Greenleaf).

University Partner: **École Polytechnique, Paris**

and the Knowledge Stream Leader
Rob van Hattum, Head of Science Programmes, VPRO television, Content Director, Dutch Science Centre NEMO.
A recent production was a multi-media broadcasting event about the Hydrogen economy: A three hour live radio show, an internet document and forum and a 2 x 50 minutes documentary called "The Hydrogen Revolution".

Exhibitions
Agenda 21 and Rio + 10 Development Targets by Bayer CropScience
World Summit Award

Partners of the Summit for the Future are:
Bayer CropScience, HES Amsterdam School of Business, Medical Faculty University Basel, Switzerland, École Polytechnique, Paris, KnowledgeBoard, Association for International Broadcasting, Fuel Cell Markets, H2World, The World Future Society, Health Management Forum, Shaping Tomorrow, European Health Telematics Association, Medical Knowledge Institute, Entertainment Media Verlag, World Summit Award.