

# Welcome to EuroScience Open Forum

**2004** Stockholm  
25|28 August

*The first pan-European  
General Science Meeting!*

Highlighting Science, Technology  
and Innovation in Europe



# Euroscience

European association for  
the promotion of Science  
and Technology

**is a pan-European  
interdisciplinary organisation**

**which aims to:**

- Influence science and technology policies in Europe
- Strengthen the links between science and society
- Contribute to the integration of European science
- Provide an open forum for debate on science & technology

That is why Euroscience created the first pan-European scientific meeting,

**ESOF2004!**

Euroscience is the voice of scholars and scientists, of students as well as professors, of industrial researchers as well as managers, of scientific journalists as well as decision-makers... and of any person interested in the impact of Science and Technology in Europe.

Help shape the new Scientific Europe from within:

**join**

**“The Voice of Science in Europe”**

visit our website [www.euroscience.org](http://www.euroscience.org)

Contact:

**Euroscience**

8 rue des Écrivains

F-67000 Strasbourg

Tel: +33 3 88 24 11 50 • Fax: +33 3 88 24 75 56 • e-mail: [office@euroscience.ws](mailto:office@euroscience.ws)

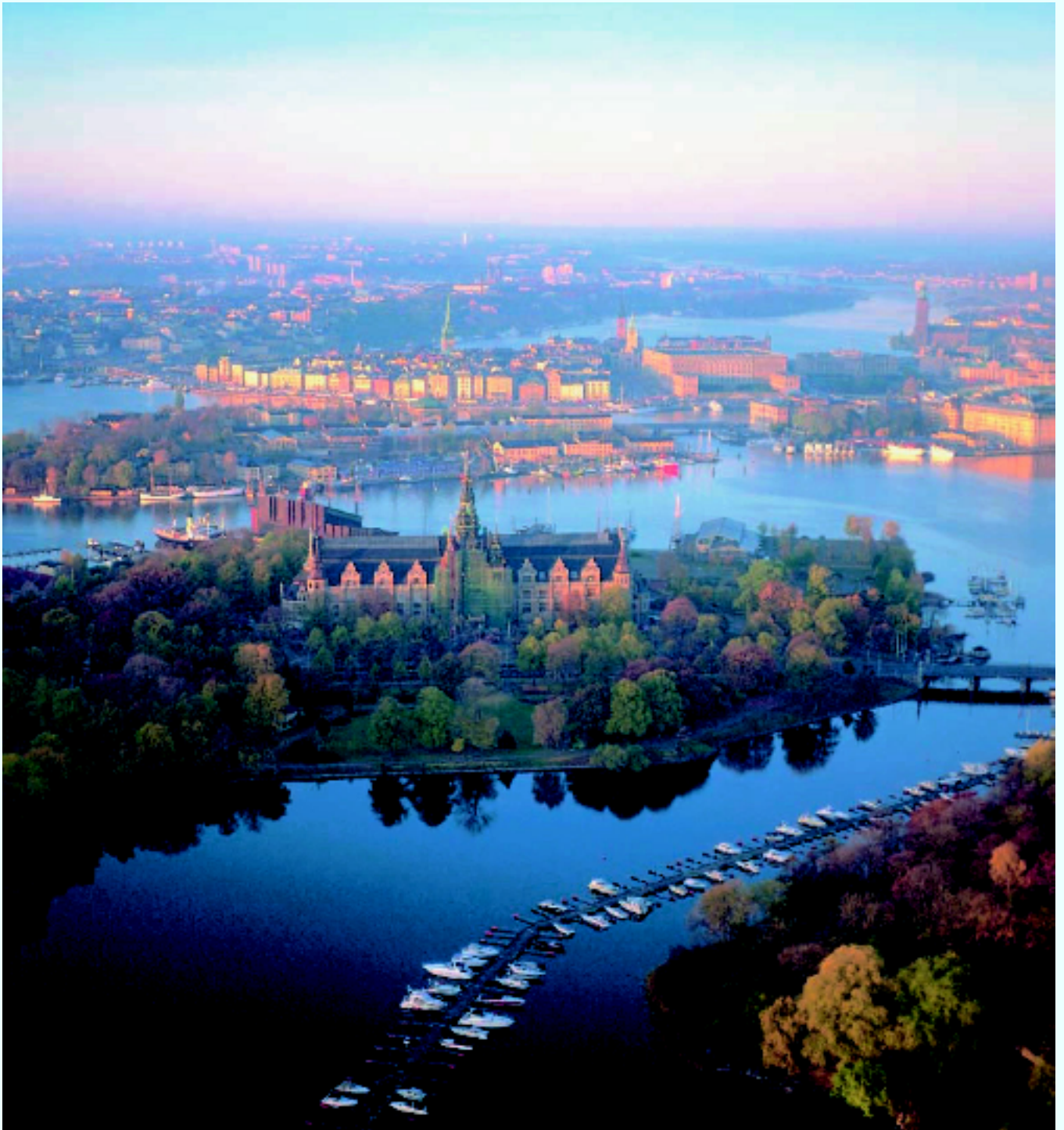




Welcome to EuroScience Open Forum 2004  
- the first pan-European General Science Meeting ever!

Highlighting Science, Technology and Innovation in Europe

25-28 AUGUST 2004 • STOCKHOLM, SWEDEN





# About European research ...



## On the internet

Everything you always wanted to know ...  
about European research and the European Research Area  
... complete keyword index and search facilities make it  
easy to find what you are looking for.  
<http://europa.eu.int/comm/research/>

## RTD Info

Magazine for European research,  
published every three months by the  
Directorate-General for Research.  
<http://europa.eu.int/comm/research/rtdinfo/>



## CORDIS

Information and tools for participants in EU-funded R&D  
programmes, including the Sixth Framework Programme  
<http://www.cordis.lu/>  
<http://fp6.cordis.lu/>



## European research in action

A collection of leaflets on a variety  
of themes. From the environment  
to nanotechnologies, transport, etc.  
<http://europa.eu.int/comm/research/leaflets/>



E-mail: [research@cec.eu.int](mailto:research@cec.eu.int)



SIXTH FRAMEWORK PROGRAMME



## - *Europe needs an independent arena*

Dear Participant,

Welcome to ESOF2004, the first pan-European Forum of all the sciences. Events on the ground make scientific Europe a reality. ESOF2004 is a crucial part of that.

Change rarely comes from upstairs. Rather, it occurs 'bottom-up'. Without a strong Association of our own, we could never become actors of our own destiny. Without Euroscience, researchers, scientists and engineers would lose their voice in higher places, and could never achieve as much:

- **Mobility:** *Euroscience* has put the 'scientific visa' onto the agenda. We are pressing for portable pension schemes, etc.
- **Basic Research:** *Euroscience* calls for reforms in the funding system. We have co-organised international meetings about the proposed 'European Research Council'
- **Careers:** *Euroscience* has held a European conference on science-based careers. Europe must offer decent careers.
- **Status:** *Euroscience* participates in drafting the 'Charter for European Researchers' with the Marie Curie Group of the European Commission.
- **Funding:** *Euroscience* is pressing signatories of the Lisbon and Barcelona Declarations to honour their intentions. This will continue. They must not get away merely with fine words.
- **Public Perception:** *Euroscience* is the instigator of ESOF2004. It will be a biennial event, visiting the major scientific cities of Europe and bringing European science to the attention of all citizens.

Scientists are mature citizens. Do not wait for the politicians to act, or we may wait a long time. Come and join *Euroscience*. Make sure Europe doesn't happen without you.

*Euroscience* welcomes all, professionals or otherwise. 'The sciences' include social and economic sciences and also the humanities. Europe means the whole of geographical Europe - a single family of nations. Scholarship and science, shared between us all, will keep it that way.

The new European spirit is something we must create.

The good news is that this process has begun.



A handwritten signature in black ink that reads "Jean-Patrick Connerade". The signature is fluid and cursive.

Imperial College  
President of *Euroscience*

# THE ESF – NETWORKING OF SCIENCE IN EUROPE

**“The ESF promotes the development of European science at the forefront of knowledge by bringing together leading scientists and scholars and research and funding agencies to debate, plan and implement European research.”**

**T**he European Science Foundation (ESF) is the European association of national organisations responsible for the support of scientific research. Established in 1974, ESF currently has 76 Member Organisations (research councils, academies and other national scientific institutions) from 29 countries. The ESF is a non-governmental organisation, although its Member Organisations are usually publicly funded agencies. It maintains close links with many European and other international bodies with interests in scientific research.

The scientific work sponsored by the ESF covers the medical sciences, life, earth and environmental sciences, humanities, social sciences, and the physical and engineering sciences (which includes materials sciences). In these domains, five disciplinary Standing Committees, composed of leading scientists nominated by the Member Organisations, are responsible for identifying scientific priorities, formulating strategies and developing research agenda.

At the ESF website [www.esf.org](http://www.esf.org) you will find more information on the ESF instruments:

- EUROCORES (ESF Collaborative Research Programmes)
- ESF Exploratory Workshops
- ESF Scientific Forward Looks
- ESF Scientific Programmes
- Research Infrastructures
- EURESCO (European Research Conferences)
- EURYI (European Young Investigator Awards)

## **European Science Foundation**

1, quai Lezay-Marnésia  
BP 90015 • F-67080 Strasbourg cedex  
France



## Welcome to the 1st EuroScience Open Forum

August, 2004

Science is important. The natural, engineering and social sciences and the humanities help to build new knowledge which teaches us more about ourselves and the world. Such enhanced understanding and the innovation that may ensue can help to solve environmental and climate challenges, infrastructural and energy needs, health issues and societal tensions. When I late 1999 proposed to the Euroscience Governing Board that Europe needs a recurrent independent platform for dialogue on science one of my main hopes were that such a meeting would bring science higher up on the agenda of society.



Europe has a strong heritage in science. Today, Europe has great abilities and opportunities but its "scientific system" is not optimised in many ways. Europe should strengthen its lifelong learning systems, facilitate mobility, enhance its efforts in public and industrial R&D and make the research funding system at the European level more focused on quality than anything else. Several sessions in the ESOF2004 Programme deal with what Europe could and should do to reach its potential.

The public is a very large contributor to science funding and the results of science are important to us all. Therefore, scientists have to reach out and involve themselves in a true dialogue on and about the sciences. The extensive *Science in the City* and *School Activities* Outreach Programmes involve hundreds of people from all over Europe and are expected to attract thousands of participants. In these activities hands-on experimentation and curiosity based questioning are key elements and some activities include art and theatre as communication tools.

ESOF2004 is also about the sheer joy and fascination as well as the worries that science can bring. In the Programme there are 100 sessions with 13 plenary lectures, over 70 panel sessions and 14 career programme sessions. The speakers include scientists (some Nobel Laureates), policy makers, communicators, decision makers and others. These sessions bring up issues like ageing, climate change, science journalism, "How to write a best seller", communicating risk, energy, gender & health, limitations in human performance, the AIDS epidemic, the mind and the immune system, the universe, nanotechnology, ethics, the situation for the science based industries in Europe, the artificial human, brain imaging of thoughts and feelings, mobility, women in science and much more.

Moreover, there are Award & Prize ceremonies, an extensive exhibitor's programme throughout the week (see to that you visit the booths) and social events. The latter may prove to be equally important to the rest of the meeting when it comes to making new contacts and having great discussions.

I want to acknowledge the immense work and substantial contributions made by all the great people, organisations and partners that have made this meeting possible.

A meeting of this kind becomes truly great only if we all contribute to the dialogue – therefore I welcome you to take a very active part in all the elements that constitute ESOF2004!

A handwritten signature in black ink, appearing to read 'Carl Johan Sundberg'. The signature is fluid and cursive, written over a white background.

Carl Johan Sundberg  
Karolinska Institutet  
Chair ESOF2004 Steering Committee



The Swedish Research Council has three main tasks:

- Research funding
- Research information
- Research policy

The Swedish Research Council is a Government agency under the Ministry of Education and Science

## Swedish Research Council

# Aiming for excellence in basic research

### **Funds basic research of the highest scientific quality**

With an annual budget of approximately 2.5 billion Swedish kronor, the Swedish Research Council is the single largest provider of public funds for Swedish basic research.

### **Reinforces the role scientific research plays in society**

New findings and knowledge contribute not only to the quality of life of the individual, but are also essential for the growth and wealth of the nation. Research communication towards the society is one of the major tasks of the Council.

### **Strengthens research conditions in domestic and international contexts**

The Swedish Research Council plays a strategic role in advising the Swedish Government on matters of research policy.

To make Sweden an attractive international meeting place the Council actively promotes collaboration between Swedish researchers and researchers in other countries. Part of this work is to stimulate Swedish participation in the research themes of the European Union (EU) framework programme for research and technical development.

Please visit us at the exhibition, Folkets Hus #5.



**VETENSKAPSRÅDET**  
SWEDISH RESEARCH COUNCIL

[www.vr.se](http://www.vr.se)



## *Welcome to Sweden*

It is a particular pleasure for me to wish all the participants of the EuroScience Open Forum most welcome to Sweden. I am proud that the first pan-European scientific meeting is being held in my country. Sweden has a long tradition of investing in research and development (R&D). Expenditure for R&D in relation to GDP amounts to more than 4 percent. Industry contributes heavily to these investments, mainly in development. Public funds are the most important for science and research.

Sweden is also at the forefront in many research areas. The persistent public investments in research have contributed to this. So have the Nobel prizes, which have been awarded for more than a century by Swedish scientific institutions.

The initiative to establish EuroScience should be applauded. In order to strengthen European research, we have to create platforms for dialogue and exchange of ideas, such as this Forum. Europe clearly needs to invest more in science and to cooperate more intensely in order for European research to be able to compete internationally. European leaders have confirmed their intention to make Europe the most competitive and dynamic knowledge society and economy through the Lisbon and Barcelona objectives. To achieve these objectives Europe needs a funding mechanism to strengthen basic research, where excellence through peer review is the sole merit.

I am convinced that this meeting will be very successful and that it will contribute to strengthening European research and research collaboration.



A handwritten signature in black ink, appearing to read 'Thomas Östros'.

*Thomas Östros*  
Minister of Education and Science

## *Welcome to Stockholm*

Distinguished guests,

On behalf of the City of Stockholm I would like to take this opportunity to welcome you to Stockholm. We are proud and delighted to have been selected host for the very first EuroScience Open Forum. Stockholm is a city of science, with a great number of students and world renowned research institutions. During your visit I hope that you find Stockholm as beautiful as I do and that you will have time to take part in Stockholm's cultural life. Stockholm offers a wide range of cultural activities and hosts approximately 100 museums.

Once again, I would like to welcome you and wish you a pleasant stay in our city!

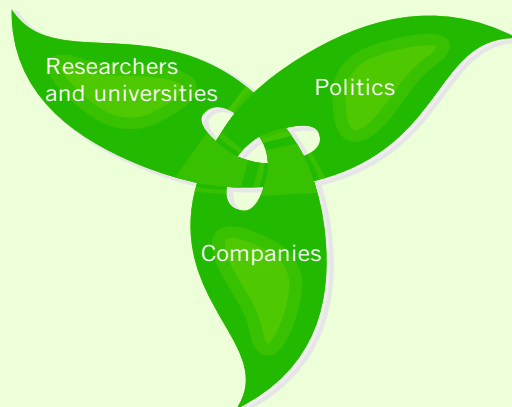


Sincerely,

A handwritten signature in black ink, appearing to read 'Annika Billström'.

*Annika Billström*  
Mayor of Stockholm

# Effective Innovation Systems & Problem-oriented Research for sustainable Growth



VINNOVA is a government body which mission is to promote sustainable growth by developing effective innovation systems and funding problem-oriented research in the fields of technology, transport and working life

VINNOVA promotes effective innovation systems at a national, sectoral and regional level. The interaction between these different levels is a decisive factor in the development of strong, sustainable growth

Welcome to visit [www.VINNOVA.se](http://www.VINNOVA.se) and learn about our on-going activities



SWEDISH AGENCY FOR INNOVATION SYSTEMS

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VINNOVA, SE-101 58 Stockholm, Sweden • Visiting address: Mäster Samuelsgatan 56  
Phone: +46 (0)8 473 30 00 • Fax: +46 (0)8 473 30 05  
[VINNOVA@VINNOVA.se](mailto:VINNOVA@VINNOVA.se) • [WWW.VINNOVA.SE](http://WWW.VINNOVA.SE)



## Meeting Location

### **Stockholm City Conference Centre**

#### **Norra Latin**

Address: Drottninggatan 71b  
Phone: +46(0)8-506 166 70/71  
Fax: +46 (0)8-506 167 87  
e-mail: norralatin@stoccc.se

#### **Folkets Hus**

Address: Barnhusgatan 12-14  
Phone: +46 (0)8-506 166 27  
Fax: +46 (0)8-10 90 71  
e-mail: folketshus@stoccc.se

## Meeting Registration

The ESOF2004 Meeting Registration Area will be located on the main level of Folkets Hus.

Registration hours are as follows:

Wednesday 25 August  
09:00 - 20:00

Thursday 26 August  
07:45 - 19:00

Friday 27 August  
07:45 - 18:00

Saturday 28 August  
07:45 - 14:00

Registrants are requested to wear their badges at all times when attending ESOF2004 meetings. Anyone without a valid meeting badge may be denied entry to the sessions and other activities.

Congrex Sweden AB  
P.O. Box 5619  
SE-114 86 Stockholm  
Sweden

Phone: +46 (0)8 459 66 00  
Fax: +46 (0)8 661 91 25  
e-mail:

esof2004.registration@congrex.se

## Information Desks

Information desks are located at the entrance level of Folkets Hus and at Norra Latin. They will be open during conference hours. In addition to this there will be volunteers that will assist you.

## Message Board

A Message Board is located right by the Registration Desk.

The Message Board will display last-minute changes in the programme and will be updated several times a day. The Message Board may be used by attendants for personal notes, i.e. to get into contact with colleagues.

## Medical Care

If you need medical care, please contact the Information Desks, or any ESOF personnel. Alternatively, dial 112.

## Science in the City

Many activities will take place in different places in Stockholm during meeting days. For detailed information see page SC1.

## Internet Café

An Internet Café, hosted by Nature, will be open daily during meeting hours, situated at the Atrium Norra Latin, 2nd Floor. Multiple work stations are available for you to surf the web and check personal e-mail.

## Speakers' Preparatory Room

The Speakers' Preparatory Room will be situated in Norra Latin, Room 360. This will be indicated by signs. The Preparatory Room is equipped with slide and overhead projectors, computers. Here speakers can review their visual material prior to their presentation. Open daily during session time.

## Press Centre

The Press Centre is located on floor 3, rooms 300 and 307, close to the Congress Hall, in Folkets Hus

### Opening Hours

Every day 08:00 –19:00

Computer room (room 300)

The computer room is equipped with 15 desktops with internet connections, 4 internet connections for your own laptops, one ISDN connection, two faxes, two phone lines and two printers.

## Coffee and Sandwiches

There are two coffee shops at Folkets Hus and one at Norra Latin where coffee, other beverages and sandwiches can be bought.

## Tape Recording/ Photography/ Videotaping

It is permitted to document sessions for private purposes. Such material is not to be sold, otherwise commercialised or copied.

## Founding Partners



**EUROPEAN COMMISSION**  
Community Research



FORSKNINGSRÅDET FÖR ARBETSLIV  
OCH SOCIALVETENSKAP  
SWEDISH COUNCIL FOR WORKING LIFE  
AND SOCIAL RESEARCH



*The Swedish Research Council for Environment,  
Agricultural Sciences and Spatial Planning*



**KAROLINSKA  
INSTITUTET**

**ROBERT BOSCH STIFTUNG**



Stiftelsen  
Riksbankens Jubileumsfond  
The Bank of Sweden Tercentenary Foundation

**Stifterverband**  
für die Deutsche Wissenschaft



**VETENSKAPSRÅDET**  
SWEDISH RESEARCH COUNCIL



*- We would like to thank our partners for their support, which made this novel event possible -*

## Major Funders

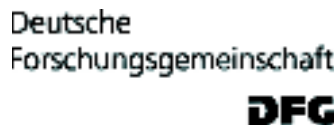


# nature

## TORSTEN OCH RAGNAR SÖDERBERGS STIFTELSE



## Funders



The EuroScience Foundation





# ESOF2004 Committees and Team

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## Steering Committee

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Chair: **Carl Johan Sundberg**

Karolinska Institutet, Stockholm and Vice President, Euroscience

Vice-Chair: **Ekkehard Winter**

Stifterverband, Essen

**Jean-Pierre Bourguignon**

Institut des Hautes Études Scientifiques, Paris

**Jean-Patrick Connerade**

Imperial College, London and President, Euroscience

**Jens Degett**

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**Frédéric Sgard**

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Secretary: **Gabriella Norlin**

Project Leader ESOF2004, Stockholm

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Volkswagen Foundation, Hannover

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Riksbankens Jubileumsfond, Stockholm

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National Hellenic Research Foundation, Greece

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Karolinska Institutet, Stockholm and Vice President, Euroscience

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London

**Wim Blockmans**

NIAS-KNAW, Wassenaar

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Institut des Hautes Études Scientifiques, Paris

**Gail Cardew**

The Royal Institution, London

**Robert Erikson**

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**Ingemar Ernberg**

Karolinska Institutet, Stockholm

**Angela Friederici**

Max-Planck Institut, Leipzig

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Universidad Pontificia Comillas, Madrid

**Ortwin Renn**

Akademie für Technikfolgenabschätzung in Baden-Württemberg

**Ekkehard Winter**

Stifterverband, Essen

**Ingrid Wüning**

Robert Bosch Stiftung, Stuttgart

Secretary: **Gabriella Norlin**

Project Leader ESOF2004, Stockholm

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**Gail Cardew**

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Imperial College, London and President, Euroscience

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EMBO and EMBL, Heidelberg

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Directorate-General for Research, European Commission, Brussels

**Howard Moore**

UNESCO Venice-ROSTE

**Raymond Seltz**

Secretary General, Euroscience, Strasbourg

**Ekkehard Winter**

Stifterverband, Essen

**Ingrid Wüning**

Robert Bosch Stiftung, Stuttgart

Secretary: **Gabriella Norlin**

Project leader ESOF2004, Stockholm

## Local Organising Committee

---

Chair: **Carl Johan Sundberg**  
Karolinska Institutet, Stockholm and Vice president, Euroscience

**Anders Bárány**  
The Nobel Museum, Stockholm

**Camilla Modéer**  
Public & Science, Stockholm

**Christina Polgren**  
Swedish Centre for School Biology and Biotechnology, Uppsala

**Uno Svedin**  
International Department, FORMAS, Stockholm

**Katarina Villner**  
Swedish Maritime Museums, Stockholm

**Ekkehard Winter**  
Stifterverband, Essen

Secretary: **Erica Almberg**  
Project Coordinator ESOF2004, Stockholm

## European Outreach Committee

---

Chair: **Ekkehard Winter**  
Stifterverband, Essen

**Hein Meijers**  
European Science Communication & Information Network (ESCIN), Haag

**Jan Riise**  
EUSCEA (European Science Events Association), Gothenburg

**Annette Smith**  
The British Association for the Advancement of Science (BA), London

**Walter Staveloz**  
European Collaborative for Science, Industry & Technology Exhibitions (ECSITE), Brussels

**Richard West**  
EIROforum, Munich

Secretary: **Gabriella Norlin**  
Project Leader ESOF2004, Stockholm

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---

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European Science Foundation, Strasbourg and Treasurer, Euroscience

**Jean-Patrick Connerade**  
Imperial College, London, and President, Euroscience

**Carl Johan Sundberg**  
Karolinska Institutet, Stockholm and Vice president, Euroscience

**Ingrid Wünnig**  
Robert Bosch Stiftung, Stuttgart

Secretary: **Gunnar Leman**  
Swedish Research Council, Stockholm

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---

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European Science Foundation, Strasbourg

**John Durant**  
At-Bristol, Bristol

**Peter Wrobel**  
London

**Bo Øksnebjerg**  
Novozymes, Bagsvaerd

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---

Chair: **Tina Zethraeus**  
Swedish Research Council, Stockholm

**Jens Degett**  
European Science Foundation, Strasbourg

**Peter Green**  
Alpha Galileo, London

**Peter Wrobel**  
London

Secretary: **Erica Almberg**  
Project Coordinator ESOF2004, Stockholm

## Career Programme Team

---

Chair: **Christine Heller del Riego**  
Universidad Pontificia Comillas, Madrid

**Dagmar M. Meyer**  
Marie Curie Fellowship Association

**Nevin Bayoumi**  
Naturejobs - Nature, London

**Daniel Kremer**  
Karolinska Junior Faculty, Stockholm

## Project Team

---

The ESOF2004 office is located at Vetenskapsrådet, Swedish Research Council, in Stockholm.

**Gabriella Norlin**  
Project Leader

**Erica Almberg**  
Project Coordinator

**Mona Holmfors**  
Project Coordinator

**Eva Jiretorn**  
Web Editor

**Irene Mangion**  
Project Administrator, Strasbourg

**Sofia Norberg**  
Project Coordinator

**Marianne Orhall**  
Project Administrator

**Henrik Pompeius**  
Fundraising Coordinator

**Marie-Louise Sundin**  
Project Administrator

# Grants

in the field of  
European Foreign  
and Security  
Policy Studies

Compagnia di San Paolo, Riksbankens Jubileumsfond and VolkswagenStiftung are launching a joint research and training programme for young Europeans. It combines three goals:

- Generating new ways of thinking and new policy approaches
- Qualifying and networking the next generation of intellectual leaders
- Making an impact on the public debate

The programme aims at analysing the Common Foreign and Security Policy of the EU and the European Security and Defence Policy. For research into this field grants will last up to two years, starting in spring 2005. The programme also includes sojourns in another European country and the participation in conferences and summer schools.

Eligible for grants are postdoctoral researchers, advanced Ph.D. candidates, or young professionals with equivalent background. The three foundations will deal with the applications jointly.

For more information visit [www.rj.se](http://www.rj.se).

**Deadline for applications is September 30, 2004.**

Applications to all three foundations should be submitted to VolkswagenStiftung, Kastanienallee 35, 30519 Hannover, Germany.



Stiftelsen  
Riksbankens Jubileumsfond  
The Bank of Sweden Tercentenary Foundation



VolkswagenStiftung



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# Opening & Closing Sessions

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**Welcome to  
ESOF2004  
in  
Stockholm,  
Sweden**

**Welcome to  
ESOF2006  
in  
Munich,  
Germany**

## Opening session

---

**Wednesday, 25 August** 12:00-13:45  
Folkets Hus, Congress Hall AB & C

*ESOF2004 – Why? What? Then?*

**Moderator: Quentin Cooper**, BBC

Participants:

**Thomas Östros**  
Swedish Minister for Education and Science

**Jean-Patrick Connerade**  
President Euroscience

**Rainer Gerold**  
Director of "Science and Society", DG Research, European  
Commission

**Ingrid Hamm**  
Chief Executive, Robert Bosch Stiftung

**Pär Omling**  
Director General, Swedish Research Council

**Carl Johan Sundberg**  
Vice President Euroscience

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**Jonas Frisé**  
Karolinska Institutet  
*Making brain gain possible*

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Entertainment

## Closing session

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**Saturday 28 August** 19:00-20:00  
Norra Latin, Aulan

*Welcome to ESOF2006 in Munich, Germany*

**Moderator: Quentin Cooper**, BBC

Participants:

**Carl Johan Sundberg**  
Vice President Euroscience

**Jean-Patrick Connerade**  
President Euroscience

**ESOF2006 champions::**

**Wolfgang M. Heckl**  
Ludwig-Maximilians Universität

**Ekkehard Winter**  
Stifterverband

**Ingrid Wüning**  
Robert Bosch Stiftung

## ***President´s Reception***

**Wednesday 25 August 19:00 -21:00**

**Venue:** Stockholm City Conference Centre, Norra Latin

Payment 15 € in connection with meeting registration.

Hosted by Torsten och Ragnar Söderbergs Stiftelser ([www.soderbergs-stiftelse.se](http://www.soderbergs-stiftelse.se))



## ***Will You Win an Ig Nobel Prize?***

**Thursday 26 August 20:30**

**Venue:** Café level 2, Norra Latin

The Ig Nobel Prizes honour achievements that "first make people LAUGH and then make them THINK." Marc Abrahams, the Ig Nobel organiser, will explain and demonstrate some of these things.

Hosted by Euroscience

## ***Press Reception***

**Thursday 26 August 20:15**

**Venue:** Nobel Museum

Hosted by

Biovitrum AB ([www.biovitrum.com](http://www.biovitrum.com))

Light refreshments will be served

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## ***Reception at the Stockholm City Hall***

**Friday 27 August 19:00-21:00**

**Venue:** Stockholm City Hall

The Stockholm City Hall is the venue for the Nobel Prize dinner. In order to obtain a ticket, the registration form must be specifically marked. The number of tickets is limited.

Hosted by the City of Stockholm and the County Council





# Karolinska Institutet

## A leading academic center in contemporary genomics, proteomics and bioinformatics

After a focused build-up in the last 10 years – as well as extensive international recruiting – Karolinska Institutet in Stockholm is now one of the largest and most research-intensive medical universities in Europe. KI can showcase a wide variety of both laboratory and clinical studies that will help us better understand human health and disease.

In addition to classic approaches, scientists at KI have developed extensive sets of tools and methodologies to characterize gene functions in a high throughput fashion. We have also implemented state-of-the-art genomics, proteomics and bioinformatics approaches to better characterize genetic factors in human disease, including many common complex diseases. This work is greatly aided by the availability of a host of epidemiological resources and patient materials.

KI also functions as the academic centerpiece of a rich and growing research cluster consisting of a wide variety of life sciences companies. Together with partners from around the world – in research, business and education – Karolinska Institutet harnesses the creative power of medical innovation to improve people's health.

For further information, whether about partnerships, research or employment opportunities, please see <http://info.ki.se>



KAROLINSKA  
INSTITUTET

[info.ki.se](http://info.ki.se)

## European Young Investigator Awards ceremony

**Organiser:** EUROHORC and ESF

**Thursday 26 August**  
**19:00-20:15**

**Folkets Hus Congress Hall AB**

Twenty-five young scientists will be awarded a grant up front in their career. The award is between 1.000.000 and 1.250.000 Euros and will give the researchers the opportunity to create their own research group and gain independence for five years. This is the first official European Young Investigator Awards (EURYI) ceremony. Professor Ernst Ludwig Winnacker, the European Union Research Organisations Heads of Research Councils (EUROHORCs), and Professor Bertil Andersson, the European Science Foundation (ESF) will introduce the awardees. Kroumata percussion ensemble will perform. The European Young Investigator Awards (EURYI) is designed to attract outstanding young scientists, in all research domains including the humanities, from any country in the world to create their own research teams at European research centres.

## European Science Writers Award

**Organiser:** Euroscience Foundation

**Thursday 26 August**  
**20:30-21:00**

**The Nobel Museum**

The third European Science Writers Award will be handed over at a reception for journalists at the Nobel Museum in the evening of 26 August. Svante Lindquist, the Nobel Museum, Wilhelm Krull, Volkswagen Stiftung, Philip Campbell, Nature and Gero von Randow, Die Zeit, will be part of the ceremony.

## The Rammal award 2002

**Organiser:** Euroscience

**Friday 27 August**  
**09:30-12:30**

**Norra Latin Room 361**

The 2002 Rammal medal will be awarded to Professor Gerassimos Papadopoulos in connection with the session "Risk, society and sustainability"

## The Rammal award 2003

**Organiser:** Euroscience

**Thursday 26 August**  
**16:15-18:00**

**Norra Latin Room 361**

The 2003 Rammal medal will be awarded to Professor Anne-Marie Moulin in connection with the session "The social responsibility of scientific institutions"

## The Swedish Scientist Prize

**Organiser:** The Swedish Association of Scientists

**Friday 27 August**  
**12:30-13:00**

**Folkets Hus Room 203**

The Swedish Association of Scientists has awarded the best doctoral thesis and the best graduate essay in a selected scientific field since 1997. This year the best Swedish work in the field of biomedicine will be awarded. The Royal Swedish Academy of Sciences has selected the awardees. The prize will be handed over in connection with the ESOF2004 career programme. The Swedish Association of Scientists will offer refreshments.

# Euroscience Activities During ESOF2004

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## Euroscience Governing Board Meeting (Old Board)

Wednesday 25 August, 9:00-11:00  
Apotekarsocieteten, Wallingatan 26A

## General Assembly of Euroscience

Open to all members (you can become member at ESOF2004)

Friday 27 August, 10:00-12:30  
Apotekarsocieteten, Wallingatan 26A

### *Agenda*

1. Report from the President: Ongoing Actions and Plans
2. Results of the 2004 Governing Board election
3. Brief words from or about some Distinguished Guests of Euroscience:
  - Mr Koji Omi, former Minister of Science and Technology Policy of Japan
  - Drs Carlos Vogt and Evando Mirra of the Brazilian Society for Science (SBPC)
  - Dr. Kerstin Niblaeus, Director General of the Council of the EU, representing Mr Javier Solana
  - Members of the European Parliament
4. ESOF2006 and plans for the future of ESOF
5. Financial Report for Euroscience
6. Report from the Head Office in Strasbourg (Membership, Local Sections, Work Groups, ...)
7. Other issues
8. Closing of Meeting

## Euroscience Governing Board Meeting (New Board)

Friday 27 August, 12.30-13.30  
Apotekarsocieteten , Wallingatan 26A

## Meetings of ESOF Committees during ESOF2004

Tuesday 24 August 17:00 Norra Latin	ESOF2004 Steering Committee meeting
Tuesday 24 August 20:00 Tessinska Palatset, Slottsbacken 4 The Old Town	Reception for all ESOF Committee members
Thursday 26 August 07:30 Norra Latin	ESOF2004 Steering Committee Breakfast
Friday 27 August 07:15 Norra Latin	ESOF2004 Partner Breakfast
Sunday 29 August 09:00-12:00 Swedish Research Council Regeringsgatan 56	ESOF2004 all Committee Meeting



	Opening & Closing Sessions
	Plenary Lectures
	Sessions
	ESOF2004 Career Programme
	Exhibitors
	Science in the City incl. School activities
	Social Events
	Awards & Prizes
	Satellite Events
	Other events

All information current of 26 July 2004

## Monday 23 August

12:00-18:00		<b>Managing a Transformation to a low Carbon Economy</b> Karolinska Institutet MEB Nobels väg 12B
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## Tuesday 24 August

08:00-17:00		<b>Biotechnology: Possibilities, Risks, Ethics and Society</b> Näringslivets Hus Storgatan 19
09:00-11:00		<b>Sustainability gathering</b> NORDREGIO Holmamiralens väg 10 Skeppsholmen
09:00-17:00		<b>European Cultural Heritage Research – its Future Role in European Science</b> Kulturhuset Studio 3 3rd floor
09:00-18:00		<b>Managing a Transformation to a low Carbon Economy</b> Karolinska Institutet MEB Nobels väg 12B
16:00-19:00		<b>Boat excursion in the Nationalpark</b> Strömkajen Nybroviken
19:00-21:00		<b>Put the allspace in a nutshell - A panel discussion on "Art and Science"</b> Nobel Museum
		<b>Science Café</b> Stockholms Akademiska Forum





## Wednesday 25 August

09:00-20:00		<b>Meeting Registration</b>
12:00-13:30		<b>Opening Session</b> Folkets Hus Congress Hall AB & C
12:00-18:30		<b>Exhibitors</b> Folkets Hus and Norra Latin
09:00-11:00		<b>Open Seminar on Global Change Research in Europe</b> IGFA secretariat FORMAS Ridderholmen
09:00-12:00		<b>Science Generation: Euro-CASE workshop</b> IVA Grev Turegatan 16
09:00-15:00		<b>Earthquakes, World Jigsaw, Water &amp; Weather, Crystal Cool</b> Stockholm University
10:00-17:00		<b>Science + Fiction - Between Nano-World and Global Culture</b> The Nobel Museum
10:00-19:00		<b>DNA art</b> Karolinska Institutet MEB Nobels väg 12A
		<b>Good Reasons Why</b> Kungsträdgården
		<b>National Resource Centres for Teachers</b> Kungsträdgården
		<b>Pedagogical spearheads in practice</b> Kungsträdgården
		<b>Physics on the Road</b> Kungsträdgården
		<b>Polar Dialogues</b> Kungsträdgården
		<b>Science Circle</b> Kungsträdgården
		<b>Teutolab – a hands-on science laboratory for school children</b> Kungsträdgården
		<b>Expedition into the Microcosmos</b> The Natural History Museum
		<b>Vattenfall Science Dialogue</b> Kungsträdgården
10:30-10:50		<b>VA! Dialogue between the young public and scientists</b> Kungsträdgården
11:00-12:00		<b>The Nobel laureate of the day</b> Kungsträdgården
11:30-12:00		<b>Workout - a combination of science and well-being</b> Kungsträdgården
12:00-12:30		<b>The Amazing Profmobil</b> Kungsträdgården
12:00-13:00		<b>Klara Soup Theatre</b> Kulturhuset
12:30-13:00		<b>Renewable energy in various forms</b> Kungsträdgården
13:00-14:00		<b>Science Café</b> Stockholms Akademiska Forum

14:00-14:30	<b>The Amazing Profmobil</b> Hötorget
14:30-15:00	<b>How we use electricity yesterday, today and tomorrow</b> Kungsträdgården
14:45-16:15	<b>Should your diet match your genes?</b> Norra Latin Room 353
	<b>Can European citizens influence the agenda for neuroscience?</b> Folkets Hus 2nd floor 203
	<b>Molecules as Art?</b> Folkets Hus 2nd floor 204
14:45-17:45	<b>Can chemistry survive in Europe?</b> Norra Latin Room 359
	<b>Climatic extremes and their impacts: can they be predicted?</b> Folkets Hus Congress Hall C
	<b>Does science help to run the country?</b> Norra Latin Aulan
	<b>European Research at the Cutting Edge</b> Folkets Hus Congress Hall AB
	<b>Health and disease: does gender matter?</b> Norra Latin Room 361
	<b>Innovation and creativity in Europe</b> Norra Latin Musiksalen
	<b>Psychopathology of organisations</b> Norra Latin Room 356
	<b>Science journalists: loudspeakers, storytellers or critics?</b> Norra Latin Room 461
	<b>The open access revolution</b> Norra Latin Room 357
15:00-16:00	<b>Science Café</b> Stockholms Akademiska Forum
16:00-16:30	<b>The Amazing Profmobil</b> Sergels Torg
16:00-17:00	<b>The Nobel laureate of the day</b> Kungsträdgården
16:15-17:45	<b>Expressive musicians and affective computers</b> Folkets Hus 2nd floor 204
16:30-17:30	<b>Saving the European Heritage with Science and Technology</b> TheVasa Museum
19:00-21:00	<b>Presidents' Reception</b> Stockholm City Conference Centre Norra Latin

## Thursday 26 August

07:45-19:00	<b>Meeting Registration</b>
09:00-18:30	<b>Exhibitors</b> Folkets Hus and Norra Latin
07:45-08:45	<b>Klara Soup Theatre</b> Kulturhuset
08:15-09:15	<b>From the astronomical theory to sustainable development</b> <b>André Berger</b> Norra Latin Aulan
	<b>Life sciences and universities in a complex world</b> <b>Hans Wigzell</b> Folkets Hus Congress Hall AB
09:30-10:00	<b>Naturejobs Career Talks</b> Folkets Hus 2nd floor 203
09:30-11:00	<b>New fixed teeth in 30 minutes: from fiction to reality</b> Norra Latin Room 461
09:30-12:30	<b>Beyond global warming: where on Earth are we going?</b> Norra Latin Room 361
	<b>Engineering energy</b> Norra Latin Room 353
	<b>Infectious disease in an expanding Europe</b> Norra Latin Aulan
	<b>Lost in translation: media, science and politics</b> Folkets Hus Congress Hall C
	<b>Making links, building bridges: Science matters in South Eastern Europe</b> Folkets Hus 2nd floor 204
	<b>Testing molecular evolution: fossils, Darwin, DNA</b> Norra Latin Room 357
	<b>The limitations of human performance</b> Norra Latin Room 359
	<b>Who owns the genome?</b> Norra Latin Musiksalen
10:00-17:00	<b>Naturejobs Career Workshops: Personal Career Advice</b> Folkets Hus 201
	<b>Science + Fiction - Between Nano-World and Global Culture</b> The Nobel Museum
10:00-19:00	<b>Can one Gorge oneself to Health?</b> Kungsträdgården
	<b>Expedition into the Microcosmos</b> Swedish Museum of Natural History
	<b>Good Reasons Why</b> Kungsträdgården
	<b>National Resource Centres for Teachers</b> Kungsträdgården

	<b>Opening &amp; Closing Sessions</b>
	<b>Plenary Lectures</b>
	<b>Sessions</b>
	<b>ESOF2004 Career Programme</b>
	<b>Exhibitors</b>
	<b>Science in the City incl. School activities</b>
	<b>Social Events</b>
	<b>Awards &amp; Prizes</b>
	<b>Satellite Events</b>
	<b>Other events</b>

10:00-19:00	<p><b>Pedagogical spearheads in practice</b> Kungsträdgården</p> <p><b>Physics on the Road</b> Kungsträdgården</p> <p><b>Polar Dialogues</b> Kungsträdgården</p> <p><b>Science Circle</b> Kungsträdgården</p> <p><b>Teutolab – a hands-on science laboratory for school children</b> Kungsträdgården</p> <p><b>Vattenfall Science Dialogue</b> Kungsträdgården</p>	14:45-16:45	<p><b>Electronic visits from neighbouring laboratories in Europe</b> Folkets Hus</p> <p><b>Electronic visits from our neighbouring laboratories in Europe</b> Folkets Hus Congress Hall C</p>
10:30-11:00	<p><b>Naturejobs Career Talks</b> Folkets Hus 2nd floor 203</p>	14:45-17:45	<p><b>Technology transfer in emerging countries</b> Norra Latin Room 461</p> <p><b>Ageing: the demographic challenge</b> Norra Latin Aulan</p> <p><b>Giving substance to sustainable development</b> Norra Latin Musiksalen</p> <p><b>Nanotechnology: applications and implications</b> Folkets Hus Congress Hall AB</p>
11:00-12:00	<p><b>The Nobel laureate of the day</b> Kungsträdgården</p>	14:45-18:15	<p><b>Spreading the word: who profits from scientific publishing?</b> Norra Latin Room 357</p>
11:00-12:30	<p><b>Science, precaution and the future of innovation</b> Norra Latin Room 461</p>	15:00-15:20	<p><b>Fruit from foreign countries</b> Kungsträdgården</p>
11:15-11:45	<p><b>Naturejobs Career Talks</b> Folkets Hus 2nd floor 203</p>	15:00-16:00	<p><b>Science Café</b> Stockholms Akademiska Forum</p>
12:00-12:30	<p><b>Naturejobs Career Talks: "Negotiate your salary"</b> Folkets Hus 2nd floor 203</p> <p><b>The Amazing Profmobil</b> Kungsträdgården</p>	16:00-16:30	<p><b>The Amazing Profmobil</b> Sergels Torg</p>
12:00-13:00	<p><b>Klara Soup Theatre</b> Kulturhuset</p>	16:00-17:00	<p><b>The Nobel laureate of the day</b> Kungsträdgården</p> <p><b>Science Café</b> Stockholms Akademiska Forum</p>
12:30-12:50	<p><b>Fossil fuels without carbon dioxide</b> Kungsträdgården</p>	16:15-17:45	<p><b>The social responsibility of scientific institutions</b> Norra Latin Room 361</p> <p><b>Universal language or polyglot discourse?</b> Norra Latin Room 353</p>
13:00-13:30	<p><b>Naturejobs Career Talks</b> Folkets Hus 2nd floor 203</p>	16:15-18:00	<p><b>The Rammal award 2003</b> Norra Latin Room 361</p>
13:30-13:50	<p><b>VA! Dialogue between the young public and scientists</b> Kungsträdgården</p>	16:30-16:50	<p><b>VA! Dialogue between the young public and scientists</b> Kungsträdgården</p> <p><b>Saving the European Heritage with Science and Technology</b> The Vasa Museum</p>
13:00-14:00	<p><b>Science Café</b> Stockholms Akademiska Forum</p>	16:30-17:30	<p><b>Dali and Science: a lifelong obsession</b> Kulturhuset</p>
13:30-14:30	<p><b>Birth of the U.S. nanotechnology initiative</b> Neal Lane Folkets Hus Congress Hall C</p> <p><b>Mathematics is alive and well and thriving in Europe</b> Luc Lemaire Folkets Hus Congress Hall C</p>	18:00-19:00	<p><b>The X-change/BA Café at Norra Latin</b> Norra Latin</p>
14:00-14:30	<p><b>Naturejobs Career Talks</b> Folkets Hus 2nd floor 203</p>	19:00-20:15	<p><b>European Young Investigator Awards ceremony</b> Folkets Hus</p>
14:30-14:50	<p><b>Vattenfall and biofuels</b> Kungsträdgården</p>	20:30-21:30	<p><b>The Pipe Organ as a Multi-Media Artwork</b> The German Church</p>
14:45-16:15	<p><b>The Amazing Profmobil</b> Hötorget</p> <p><b>Universities between public values and commercialisation</b> Norra Latin Room 361</p> <p><b>Prime time for hot Pi</b> Norra Latin Room 353</p>	20:30-22:00	<p><b>Will You Win an Ig Nobel Prize?</b> Norra Latin Café level 2</p>
		20:30-23:00	<p><b>European Science Writers Award</b> The Nobel Museum</p>

## Friday 27 August

07:45-18:00	<b>Meeting Registration</b>	10:00-19:00	<b>Polar Dialogues</b> Kungsträdgården
09:00-18:30	<b>Exhibitors</b> Folkets Hus and Norra Latin		<b>Science Circle</b> Kungsträdgården
08:15-09:15	<b>Light at bicycle speed... and slower yet!</b> Lene Vestergaard Hau Folkets Hus Congress Hall C		<b>Teutolab – a hands-on science laboratory for school children</b> Kungsträdgården
	<b>Promoting growth in Europe</b> André Sapir Folkets Hus Congress Hall AB	11:00-12:00	<b>Vattenfall Science Dialogue</b> Kungsträdgården
	<b>Telling the stories of science</b> Shirley Malcom Norra Latin Aulan	11:00-12:30	<b>The Nobel laureate of the day</b> Kungsträdgården
09:30-11:00	<b>Mobility Symposium: Mobility of Early Stage Researchers in Europe</b> Folkets Hus 2nd floor 204		<b>Mobility Symposium: The Special Situation of Young Researchers in Central and Eastern Europe</b> Folkets Hus 2nd floor 204
	<b>Governance of Young Scientists Associations</b> Folkets Hus 2nd floor 203	11:00-19:00	<b>Art and Science – a series of short films, a play and discussion</b> Kulturhuset
09:30-12:30	<b>The Rammal award 2002</b> Norra Latin Room 361	11:30-12:00	<b>Workout - a combination of science and well-being.</b> Kungsträdgården
	<b>Developing a strategy for European research funding agencies</b> Norra Latin Room 359	12:00-12:30	<b>The Amazing Profmobil</b> Kungsträdgården
	<b>Life on a chip</b> Norra Latin Room 461	12:00-13:00	<b>Klara Soup Theatre</b> Kulturhuset
	<b>New mathematics for new challenges</b> Norra Latin Aulan	12:30-13:00	<b>Renewable energy in various forms</b> Kungsträdgården
	<b>Public participation in risk management</b> Norra Latin Room 353	12:30-13:00	<b>The Swedish Scientist Prize</b> Folkets Hus
	<b>Risk, society and sustainability</b> Norra Latin Room 361	13:00-14:00	<b>Science Café</b> Stockholms Akademiska Forum
	<b>Science in colour</b> Norra Latin Musiksalen	13:30-13:50	<b>VA! Dialogue between the young public and scientists</b> Kungsträdgården
	<b>Seeing our thought and plans</b> Folkets Hus Congress Hall C	13:30-14:30	<b>Can Europe compete in pharmaceutical research &amp; development?</b> Didier de Chaffoy de Courcelles Norra Latin Aulan
	<b>Where are the women in science?</b> Norra Latin Room 357		<b>The changing public nature of science</b> Helga Nowotny Folkets Hus Congress Hall AB
10:00-17:00	<b>Science + Fiction - Between Nano-World and Global Culture</b> The Nobel Museum	14:00-14:30	<b>The Amazing Profmobil</b> Hötorget
10:00-19:00	<b>DNA art</b> Karolinska Institutet MEB Nobels väg 12A	14:30-15:00	<b>How will future energy systems be developed?</b> Kungsträdgården
	<b>Expedition into the Microcosmos</b> The Natural History Museum	14:45-16:15	<b>Mobility Symposium: Mobility beyond Europe: Mobility seen in a global context</b> Folkets Hus 2nd floor 203 & 204
	<b>Good Reasons Why</b> Kungsträdgården		<b>Communicating risk in a sound bite</b> Norra Latin Room 359
	<b>National Resource Centres for Teachers</b> Kungsträdgården		<b>Climate and risk management: are we ignoring the obvious?</b> Norra Latin Musiksalen
	<b>Pedagogical spearheads in practice</b> Kungsträdgården	14:45-17:15	<b>Communicating life sciences</b> Folkets Hus Congress Hall C
	<b>Physics on the Road</b> Kungsträdgården		

14:45-17:45	<b>Cancer in an ageing Europe</b> Folkets Hus Congress Hall AB
	<b>From quarks to galaxies</b> Norra Latin Aulan
	<b>More women PhDs in science and engineering in Europe?</b> Norra Latin Room 361
	<b>Science for kids</b> Norra Latin Room 357
	<b>Scientific citizenship and the European construction</b> Norra Latin Room 461
	<b>Who controls science?</b> Norra Latin Room 353
15:00-16:00	<b>Science Café</b> Stockholms Akademiska Forum
16:00-16:30	<b>The Amazing Profmobil</b> Sergels Torg
16:00-17:00	<b>The Nobel laureate of the day</b> Kungsträdgården
16:15-17:45	<b>Digital media in the global fight against HIV and AIDS</b> Norra Latin Musiksalen
	<b>Mobility Symposium: Return and Reintegration of Mobile Researchers</b> Folkets Hus 2nd floor 203 & 204
17:00-17:20	<b>VA! Dialogue between the young public and scientists</b> Kungsträdgården
18:00-18:45	<b>The X-change/BA Café at Norra Latin</b> Norra Latin
19:00-21:00	<b>Reception at the Stockholm City Hall</b>


## Saturday 28 August

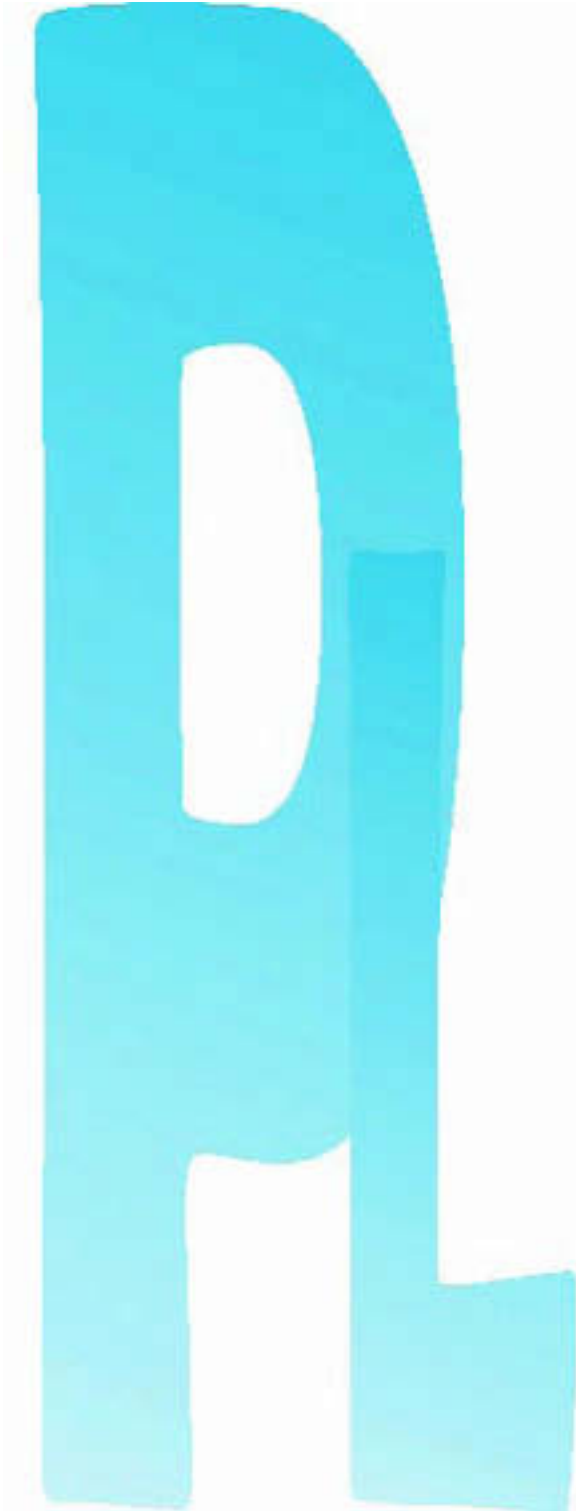
07:45-14:00	<b>Meeting Registration</b>
9:00-14:00	<b>Exhibitors</b> Folkets Hus and Norra Latin
07:45-08:45	<b>Klara Soup Theatre</b> Kulturhuset
08:15-09:15	<b>Self-organization and stability at the nanoscale</b> Catherine Bréchnignac Norra Latin Aulan
	<b>The cell cycle and cancer</b> Tim Hunt Folkets Hus Congress Hall AB
09:30-11:00	<b>Body, mind and health</b> Norra Latin Room 353
	<b>Careers Workshop: A European employment market for researchers: challenges and opportunities</b> Folkets Hus 2nd floor 204
	<b>Careers Workshop: From slaves to masters - the long and winding road to independence</b> Folkets Hus 2nd floor 203
	<b>The artificial human: fear, fiction and fact</b> Folkets Hus Congress Hall C
09:30-12:30	<b>Can Europe adapt to climate change?</b> Norra Latin Musiksalen
	<b>European science policy in a global context</b> Norra Latin Room 357
	<b>How to write a best seller</b> Norra Latin Aulan
	<b>Moral challenges to science</b> Norra Latin Room 359
	<b>Red light for green biotechnology?</b> Norra Latin Room 461
	<b>The overlooked evolutionary dimension of modern fisheries</b> Norra Latin Room 361
10:00-17:00	<b>Science + Fiction - Between Nano-World and Global Culture</b> The Nobel Museum
10:00-19:00	<b>Expedition into the Microcosmos</b> The Natural History Museum
11:00-12:00	<b>Science Café</b> Stockholms Akademiska Forum
11:00-12:30	<b>Careers Workshop: Trends in European career systems - how much flexibility do we need, how much in</b> Folkets Hus 2nd floor 203
	<b>Careers Workshop: The role of mentoring and networking for the development of a scientific career</b> Folkets Hus 2nd floor 204

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11:00-12:30	<b>Self-organising complex systems</b> Norra Latin Room 353 <b>The Top 10 mysteries of the early Universe</b> Folkets Hus Congress Hall C	14:45-16:15	<b>Careers Workshop: Intersectoral mobility - a one-way street? Myths and reality</b> Folkets Hus 2nd floor 203 <b>Is basic research a luxury or a necessity for the European economy?</b> Norra Latin Aulan <b>Is there a gender bias in scientific excellence?</b> Norra Latin Room 357
11:00-17:00	<b>Art and Science – a series of short films, a play and discussion</b> Kulturhuset	14:45-17:45	<b>It's not easy being green</b> Norra Latin Room 461 <b>Science and the media: how does science become headline news?</b> Norra Latin Musiksalen <b>Should Europe explore the planets?</b> Folkets Hus Congress Hall C <b>What does science mean to you?</b> Folkets Hus Congress Hall AB
11:30-12:00	<b>Workout - a combination of science and well-being.</b> Kungsträdgården	16:00-16:30	<b>The Amazing Profmobil</b> Sergels Torg
12:00-12:30	<b>The Amazing Profmobil</b> Kungsträdgården	16:00-17:00	<b>The Nobel laureate of the day</b> Kungsträdgården
12:00-13:00	<b>Klara Soup Theatre</b> Kulturhuset	16:15-17:45	<b>Are scientists allowed to have children?</b> Norra Latin Room 357 <b>Can Europe become a knowledge-based society without a new support mechanism for basic research? Pot</b> Norra Latin Aulan
12:00-19:00	<b>Good Reasons Why</b> Kungsträdgården <b>National Resource Centres for Teachers</b> Kungsträdgården	18:00-19:00	<b>Careers Workshop: Plenary Session</b> Folkets Hus 203 & 204
12:00-19:00	<b>Pedagogical spearheads in practice</b> Kungsträdgården <b>Physics on the Road</b> Kungsträdgården <b>Polar Dialogues</b> Kungsträdgården <b>Science Circle</b> Kungsträdgården <b>Teutolab – a hands-on science laboratory for school children</b> Kungsträdgården <b>DNA art</b> Karolinska Institutet MEB Nobels väg 12A <b>Vattenfall Science Dialogue</b> Kungsträdgården	19:00-20:00	<b>The X-change/BA Café at Norra Latin</b> Norra Latin <b>Closing Session</b> Norra Latin Aulan
12:30-13:00	<b>Fossil fuels without carbon dioxide</b> Kungsträdgården		
13:00-14:00	<b>Science Café</b> Stockholms Akademiska Forum		
13:00-16:00	<b>Stockholm annual rings - bus excursion</b>		
13:30-13:50	<b>VA! Dialogue between the young public and scientists</b> Kungsträdgården		
13:30-14:30	<b>A unifying hypothesis of the neural basis of social cognition</b> Giacomo Rizzolatti Norra Latin Aulan <b>20th Century in astronomy - second revolution?</b> Ene Ergma Folkets Hus Congress Hall AB		
14:00-14:30	<b>The Amazing Profmobil</b> Hötorget		
14:30-15:00	<b>Vattenfall and biofuels</b> Kungsträdgården		
14:45-16:15	<b>Careers Workshop: "Family life" and "research career" - a contradiction in terms?</b> Folkets Hus 2nd floor 204		

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*Thursday 26 August*

**08:15-09:15**  
**13:30-14:30**

*Friday 27 August*

**08:15-09:15**  
**13:30-14:30**

*Saturday 28 August*

**08:15-09:15**  
**13:30-14:30**

**Venues:**

Folkets Hus:

Congress Hall AB and C

Norra Latin:

Aulan



## **From the astronomical theory to sustainable development**

Thursday 26 August  
08:15-09:15  
Norra Latin Aulan

### **André Berger**

André Berger is licencié en sciences mathématiques from the Université Catholique de Louvain (UCL), MSc in Meteorology from MIT and DSc from UCL. He is currently Professor at the Institute of Astronomy and Geophysics Georges Lemaître, UCL, Belgium. He has been awarded several titles and prizes for his research on meteorology and climate change, amongst which the prestigious European Latsis Prize (2001) for contributions to the understanding of the Ice Age climate. He is a member of the Academies of Science of France, Belgium and the Netherlands and associate member of the Royal Astronomical Society. Dr Berger is Commandeur de l'Ordre de la Couronne (1997), Officier de l'Ordre de Léopold (1989) and was made Chevalier in 1996.



## **Life sciences and universities in a complex world**

Thursday 26 August  
08:15-09:15  
Folkets Hus Congress Hall AB

### **Hans Wigzell**

Hans Wigzell recently retired as President of the Karolinska Institutet in Stockholm after serving in that position since 1995. He is an internationally renowned immunologist, has been chairing the Nobel Prize Committee for Physiology or Medicine, and is since 1999 also Chief Scientific Advisor to the Swedish government. Wigzell has pioneered the introduction of science theatre in Sweden and has played a major role in reshaping a classical university like the Karolinska Institute into a university for the future.



## Birth of the U.S. nanotechnology initiative

Thursday 26 August  
13:30-14:30  
Folkets Hus Congress Hall C

### Neal Lane

Dr. Neal Lane, an atomic physicist, is University Professor at Rice University, with appointments in the Department of Physics and Astronomy and as Senior Fellow of the James A. Baker III Institute for Public Policy, where he is engaged in matters of science and technology policy. From 1998 to 2001, Dr. Lane served in the Clinton Administration as Assistant to the President for Science and Technology and Director of the White House Office of Science and Technology Policy, and from 1993 to 1998 as Director of the National Science Foundation (NSF) and member (ex officio) of the National Science Board. Before becoming the NSF Director, Dr. Lane was Provost and Professor of Physics at Rice University in Houston, Texas.



## Mathematics is alive and well and thriving in Europe

Thursday 26 August  
13:30-14:30  
Folkets Hus Congress Hall AB

### Luc Lemaire

Luc Lemaire started his mathematical career in a very European manner: a licence in mathematics in Brussels where he was born, followed by four years doctoral and post doctoral work at Warwick University (England), four months at the Institut des Hautes Etudes Scientifiques near Paris, then three months at Bonn University. Back in Brussels, he is Professor at the Mathematics Department of the Université Libre, specialising in differential geometry and the calculus of variations. He is also Vice President of the European Mathematical Society, and in charge of the EMS Mathematical Summer Schools programme.



## Light at bicycle speed... and slower yet!

Friday 27 August  
08:15-09:15  
Norra Latin Aulan

### Lene Vestergaard Hau

In 1999 Danish scientist Lene Vestergaard Hau became one of the all-time most prominent women physicists when the journal Nature published a paper in which Hau and colleagues described how they had sent a pulse of laser light into a tiny cloud of extremely cold gas and slowed the light to bicycle speed. Later, in 2001, they published one also in Nature how they had halted a light pulse, stored it for several milliseconds in an atom cloud, and then subsequently let the light pulse loose and sent it back on its way. Her formalised training is in theoretical physics but her interest moved to experimental research in an effort to create a new form of matter known as a Bose-Einstein condensate. Since 1999 she has held the position of Gordon McKay Professor of Applied Physics and Professor of Physics at Harvard. In 2001 Lene Vestergaard Hau received the MacArthur "genius" award.



## Promoting growth in Europe

Friday 27 August  
08:15-09:15

Folkets Hus Congress Hall AB

### André Sapir

André Sapir is Professor of Economics at the Université Libre de Bruxelles, where he holds a chair in international economics and European integration. Since May 2001, he is also Economic Advisor to the President of the European Commission. He was the Chairman of the High-Level Study Group appointed by President Prodi which authored the report "An Agenda for a Growing Europe", released in July 2003 and published by Oxford University Press in March 2004. He holds a PhD in Economics from The Johns Hopkins University in Baltimore.



## Telling the stories of science

Friday 27 August  
08:15-09:15

Folkets Hus Congress Hall C

### Shirley Malcom

Shirley Malcom is Head of the Directorate for Education and Human Resources Programs of the American Association for the Advancement of Science (AAAS). The directorate includes AAAS programmes in education, activities for underrepresented groups, and public understanding of science and technology. She has held the rank of Assistant Professor of Biology, University of North Carolina, Wilmington. Dr Malcom received her Doctorate in Ecology from The Pennsylvania State University; Master's degree in Zoology from the University of California, Los Angeles. She has chaired a number of national committees addressing education reform and access to scientific and technical education, careers and literacy. She served on the National Science Board, the policymaking body of the National Science Foundation, from 1994 to 1998 and from 1994-2001 served on the President's Committee of Advisors on Science and Technology.



## Why is Europe giving up its strong position in pharmaceutical R&D?

Friday 27 August  
13:30-14:30

Norra Latin Aulan

### Didier de Chaffoy de Courcelles

Dr. Didier de Chaffoy de Courcelles, D.Sc., G.U.O., is Senior Vice President, Drug Discovery Europe, of Johnson & Johnson Pharmaceutical Research & Development (J&JPRD). He is a member of the J&JPRD Board (Raritan, New Jersey, USA), the Board of Directors of Janssen Pharmaceutica (Beerse, Belgium) and the Sir James Black Foundation (London, UK). As head of Drug Discovery for Europe, Dr. de Chaffoy leads a team of over 450 researchers in Belgium, France and Spain, dedicated to the discovery of drugs. Dr. de Chaffoy earned a Bachelor of Science degree in chemistry at the University of Leuven. He obtained a Master of Science and a Doctor of Science degree, as well as an accreditation for teaching and research at academic institutions, from the University of Antwerp. Dr. de Chaffoy joined the Janssen Research Foundation in 1981, whose R&D organization is now part of J&JPRD.





## The changing public nature of science

Friday 27 August  
13:30-14:30

Folkets Hus Congress Hall AB

### Helga Nowotny

Helga Nowotny has previously been Professor of Social Studies of Science at ETH Zurich and Director of Collegium Helveticum. She is currently Chair of EURAB, the European Research Advisory Board of the European Commission and the Director of the post-doctorate Fellowship programme "Society in Science: The Branco Weiss Fellowship".



## Self-organisation and stability at the nanoscale

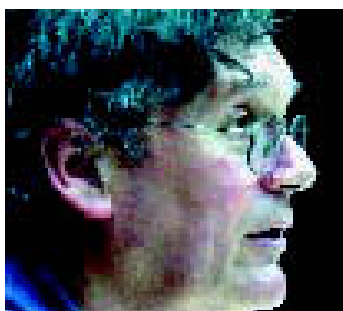
Saturday 28 August  
08:15-09:15

Norra Latin Aulan

### Catherine Bréchnignac

Since November 1995, Catherine Bréchnignac is scientific director of the Physical Sciences and Mathematics Department of the CNRS. From 1989 to 1995 she directed the Aimé Cotton Laboratory, a CNRS unit, in Orsay.

Catherine Bréchnignac, CNRS research director, is an aggregates specialist ("small" clusters ranging from a few thousand to a few million atoms). The study of atomic clusters, which is a truly interdisciplinary study, provides a bridge between atomic and molecular physics and solid state physics.



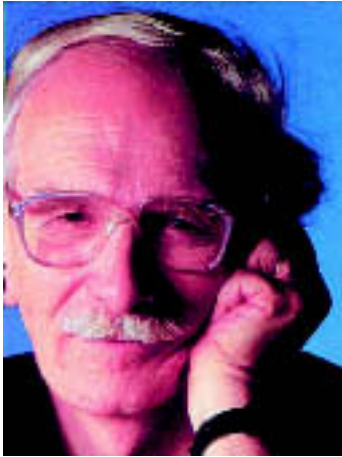
## The cell cycle and cancer

Saturday 28 August  
08:15-09:15

Folkets Hus Congress Hall AB

### Tim Hunt

Dr Tim Hunt is a Principal Scientist at Cancer Research UK, Clare Hall Laboratories. He did his Ph.D. in the Department of Biochemistry entitled "The Synthesis of Haemoglobin". In 1982, he discovered cyclins, which turned out to be "Key Regulator(s) of the Cell Cycle", and led to a share of the Nobel Prize in Physiology or Medicine in 2001 together with Lee Hartwell and Paul Nurse. Dr Hunt has helped write two books: together with Andrew Murray, he wrote "The Cell Cycle: An Introduction", and with John Wilson composed "Molecular Biology of the Cell: A Problems Approach" to accompany the textbook by Alberts et al. The Problems are now in their 3rd edition. Apart from researching, writing and lecturing, Dr Hunt finds himself on several advisory panels. He recently chaired the Life Sciences Panel for selection of European Young Investigators under the aegis of the European Science Foundation. Dr Hunt is a Fellow of the Royal Society, a Fellow of the Academy of Medical Sciences, a Foreign Associate of the National Academy of Sciences of the USA, a Member of EMBO, a Foreign Member of the American Academy of Arts and Sciences and a Member of Academia Europaea.



## **A unifying hypothesis of the neural basis of social cognition**

Saturday 28 August  
13:30-14:30  
Norra Latin Aulan

### **Giacomo Rizzolatti**

Giacomo Rizzolatti is Professor of Human Physiology at the Department of Neurosciences of the University of Parma in Italy. Professor Rizzolatti graduated in medicine from the University of Padua, specialising in Neurology. Professor Rizzolatti was President of the European Brain Behaviour Society and Italian Society for Neuroscience. He directed the European Training Programme in Brain and Behaviour Research (ETP) sponsored by the European Science Foundation for several years and for a short time he was a member of the European Medical Research Council. Among his major awards: the Golgi Prize for Physiology, the George Miller Award of the Cognitive Neuroscience Society and the Feltrinelli Prize for Medicine of Accademia dei Lincei.



## **20th Century in astronomy - second revolution?**

Saturday 28 August  
13:30-14:30  
Folkets Hus Congress Hall AB

### **Ene Ergma**

Professor of Astrophysics, University of Tartu. Professor Ergma is the President of the Estonian Parliament and Vice-President of the Estonian Academy of Sciences. She is also in charge of the Women and Sciences in the Enwise Countries Group. Professor Ergma has served on the ALLEA (All European Academies), Committee for Science and Ethics since 2000. In 2001 she was awarded the order of the White Star, fourth class.



## Session Themes:

Ageing: The Demographic Challenge .....	Ss3
Climate and Environmental Change.....	Ss3
Communicating Science .....	Ss4
Dealing with Risk.....	Ss7
Emerging Technologies .....	Ss8
Energy.....	Ss9
Evolution of Life.....	Ss10
Health .....	Ss10
Human Brain .....	Ss12
Humanity and Space .....	Ss12
Knowledge in Society .....	Ss13
Nanoscience and Nanotechnology .....	Ss13
Predictability and Chaos.....	Ss14
Science and Arts.....	Ss14
Science and Ethics .....	Ss15
Science Policy Issues in Europe .....	Ss16

# ROBERT BOSCH STIFTUNG

## Who we are

Established in 1964, the Robert Bosch Stiftung is one of the major German foundations associated with a private company. It represents the philanthropic and social endeavors of founder Robert Bosch (1861-1942) and fulfills his legacy in a contemporary manner by taking on challenges of modern day society, developing forward-looking concepts and putting them into practice in exemplary fashion. The Robert Bosch Stiftung focuses its support on Science in Society, Health, International Relations, and Education. In Stuttgart, it maintains three public health and research facilities.

The Robert Bosch Stiftung, the objectives of which are exclusively non-profit, holds 92% of the capital stock of Robert Bosch GmbH. From 1964 until 2003, the foundation provided approximately 630 million Euros in funding, 49 million Euros in 2003 alone.



## Program Area “Science in Society”

With our programs in this area we aim

- to promote the dialogue between science and society
- to foster the debate on science and society
- to give science-based advice to policy makers and the public
- and to improve conditions for excellent research in Europe.

We approach these aims with a wide range of activities including fellowship programs for journalists, programs on geriatric research, research into the sustainable use of natural resources, in to pharmacogenomics and complementary medicine, workshop series on the relationship between science and society and programs enhancing the dialogue between scientists, scholars, school teachers and pupils.

Further information can be found at [www.bosch-stiftung.de](http://www.bosch-stiftung.de)

Representatives of the Robert Bosch Stiftung at this meeting:  
Dr. Ingrid Wüning,  
Rafael Benz, Eva Roth



### Ageing: the demographic challenge

**Organiser:** Frans Willekens, Interdisciplinary Demographic Institute, The Netherlands

Thursday 26 August

14:45-17:45  
Norra Latin Aulan

Why are there fewer babies in Europe today? With increasing numbers of old people spending more time in retirement, how can society foot the bill? Will pensioners have to return to compete in the labour market? Can immigration solve the problem? Will Europe fall behind the global competition?

Speaker/s:

R. Lesthaeghe, Free University, Brussels, Belgium

*Why are there fewer babies in Europe today?*

J. Vaupel, Max Planck Inst. for Demographic Research, Rostock, Germany

*Ageing and longevity*

Gunhild Hagestad, Centre for European Studies, School of Management, Agder University College, Kristiansand, Norway

*Ageing, families and individual lives*

Frans Willekens, Interdisciplinary Demographic Institute, The Netherlands

*Migration in an ageing society*

## Climate and Environmental Change

### Climatic extremes and their impacts: can they be predicted?

**Organiser:** Philip Campbell, Nature, London, UK

Wednesday 25 August

14:45-17:45  
Folkets Hus Congress Hall C

Over days or years, predictions of regional rainfall are subject to significant uncertainties. However, authorities are required to plan for mitigation of the consequences of extreme events and climate change. Can the short-term planning problems be resolved by better networks than are currently available?

Speaker/s:

Myles Allen, University of Oxford, Clarendon Laboratory, UK

*A forward look at Europe's rainfall*

Pavel Kabat, ALTERRA Green World Research, The Netherlands

Erlend Kallen, Dpt. of Meteorology, Stockholm University, Sweden

John Schellnhuber, Tyndall Centre, School of Environmental Sciences, University of East Anglia, UK

*Climate change impacts and the networks that deal with them*

Zbigniew Kundzewicz, PAN Research Centre, Poznan, Poland

*How are flood hazards in Europe likely to change?*

Robert Muir-Wood, RMS Ltd, London, UK

*Insurance models and realities*

Concluding panel discussion moderator:

Philip Campbell, Nature, UK

## Beyond global warming: where on Earth are we going?

**Organiser:** Susannah Elliott, International Geosphere-Biosphere Programme, Sweden

Thursday 26 August

09:30-12:30  
Norra Latin Room 361

Throughout the world, there are signs that the Earth is changing rapidly. There are a number of issues such as global warming, the decline in global fish stocks and coral reef stress. Fifty percent of the land surface has been modified by human activities and more than half the world's accessible freshwater is being used directly or indirectly by humans. These and many other changes are having a cumulative impact on the global environment. We have now entered an era that has no precedent. What does the future hold? What surprises are in store? Will extreme weather events become the norm? Where is the 'Achilles' heel' of the planet and how can we avoid damaging it?

Moderator:

Guy Brasseur, IGBP Max Planck Inst. for Meteorology, Germany

Speaker/s:

Will Steffen, International Geosphere-Biosphere Programme

*How stable is the Earth system?*

John Schellnhuber, Tyndall Climate Change Centre, Norwich, UK

*Switches and choke points in the Earth system: the planet's Achilles' heels*

Stefan Rahmstorf, Potsdam Inst. of Climate Impact Research, Germany

*Abrupt climatic change: are the Pentagon and Hollywood right?*

Paul Crutzen, Max-Planck Institute for Chemistry, Germany

*Atmospheric chemistry in the Anthropocene*

Katherine Richardson, Aarhus University, Denmark

*Global change and the future of oceans*

Uno Svedin, International Group of Funding Agencies, Sweden

*Institutional challenges: preparing science to tackle abrupt changes*

### Climate and risk management: are we ignoring the obvious?

**Organiser:** Aviott John, IIASA - International Institute for Applied Systems Analysis, Austria

Friday 27 August

14:45-16:15  
Norra Latin Musiksalen

It is suggested that something bad or even catastrophic might be happening to the climate; can we manage the consequences? The substantial costs of reducing human influences on climate change are biting now, but the benefits may not be evident for centuries. Are Abrupt Climate Change (ACC) and Negative Emission Technologies (NET) properly appreciated in the assessment of climate risk management strategies? Despite enormous efforts in building emission scenarios, the attainability of CO<sub>2</sub> concentration targets has not been assessed. Do additional options enable the reduction of atmospheric CO<sub>2</sub> concentrations to levels lower than what could otherwise have been achieved? Can NET substantially reduce the cost of low emission scenarios, and thus improve mankind's ability to manage climate risks?

Moderator:

Philip Campbell, Nature, London, UK

Speaker/s:

Bert Bolin, Dpt. of Meteorology, Stockholm University, Sweden

*Introducer*

Michael Obersteiner, IIASA - International Institute for Applied Systems Analysis, Laxenburg, Austria

*Climate risk management strategies*

Kenneth Moellersten, IIASA - International Institute for Applied Systems Analysis, Laxenburg, Austria

*Technologies removing carbon from the atmosphere*

Christian Azar, Department of Physical Resource Theory,

Chalmers, Göteborg, Sweden

*Assessing low emission targets*

## Can Europe adapt to climate change?

**Organiser: Sheila Anderson**, Research Councils, UK

Saturday 28 August

09:30-12:30

Norra Latin Musiksalen

There is increasing understanding of the changes likely to occur to the climate, but less certainty about how we should respond. Actions to reduce greenhouse gases provoke international disagreements. What may happen to Europe and what should we do to adapt to inevitable changes?

Speaker/s:

David Stainforth, Oxford University, UK

*Climateprediction.net: public involvement in climate prediction*

Franziska Matthies, Tyndall Centre headquarters, University of East Anglia, Norwich, UK

*Climate change and health in Europe*

Richard Klein, Potsdam Institute for Climate Impact Research (PIK), Germany

*Adapting Europe to climate change*

Jonathan Köhler, Tyndall Centre HQ at University of East Anglia,

Department of Applied Economics, University of Cambridge, UK

*Shifting our economies for climate change*

## Communicating Science

### Can European citizens influence the agenda for neuroscience?

**Organiser: Tinne Vandensande**, King Baudouin Foundation, Belgium, on behalf of the Consortium of 11 partner organisations from nine European countries

Wednesday 25 August

14:45-16:15

Folkets Hus Room 203

In 2004-2006 an innovative series of participatory initiatives involving European citizens from a number of countries will be implemented. Citizens will be charged with assessing both research developments, and ethical and socio-political aspects of neuroscience. They will address their recommendations to the research community and policy-makers. Is there an ideal model for public participation? Should there be greater public involvement in the discussion of future research, technological decision-making and governance? Why should the public influence the scientific agenda in neurobiology? Should there be more concern about neurobiology than other subjects?

Speaker/s:

Simon Joss, Centre for the Study of Democracy, University of Westminster, London, UK

*A participatory governance initiative at European level*

Rinie van Est, Rathenau Institute, The Hague, The Netherlands

*The role of civil society*

Tinne Vandensande, King Baudouin Foundation, Brussels, Belgium

*European citizens' deliberation on brain science*

## The open access revolution

**Organiser: Helen Doyle**, Public Library of Science, USA

Wednesday 25 August

14:45-17:45

Norra Latin Room 357

Open access publication allows anyone, anywhere, with a connection to the Internet to find and read and use published articles online. The more freely accessible new research discoveries are, the greater their value to scientists, doctors, educators and the public. Are there any drawbacks? Will open access interfere with peer review? Will it be more difficult to distinguish between good, bad and pseudo science?

Speaker/s:

Jan Velterop, BioMed Central Ltd, Current Science Group, UK

*The open access revolution in science communication*

Richard Durbin, Sanger Institute, UK

*Turning data into knowledge: lessons from genomics*

Barend Mons, Erasmus MC, University Medical Centre Rotterdam,

Department of Medical Informatics, The Netherlands

*Datamining and medical informatics: present and future*

Luisa Dillner, BMJ Knowledge/BMJ Learning, British Medical

Journal Publishing Group Limited, London, UK

*Public access to health information*

Robert Terry, The Wellcome Trust, UK

*Incentives for open access publication*

David Prosser, SPARC Europe, Oxford, UK

*Knowledge in an open access world*

## Science journalists: loudspeakers, storytellers or critics?

**Organiser: Kaianders Sempler**, Ny Teknik, Sweden

Wednesday 25 August

14:45-17:45

Norra Latin Room 461

What is the changing face of science journalism in Europe? This seminar discusses the role of journalists in responding to the following questions. Is science no longer revolutionary? Is science on the side of the Western establishment against the Third World? Has science lost its good reputation? Why isn't science sexy? Is science good or evil? Is science a threat to democracy? Why are there 10 astrologers to every astronomer?

Moderator:

Kaianders Sempler, science journalist, Sweden

Speaker/s:

Sven Sjøberg, Oslo University, Norway

Panelists:

Peter Wrobel, editor at Nature magazine, UK

Lionel Milgrom, chemist and science critic, UK

Werner Hadorn, science journalist and President Emeritus of

EUSJA, Switzerland

Wolfgang Goede, science journalist, Germany

Winfried Goepfert, Science Journalism Institute, Freie Universität Berlin, Germany

Viola Egikova, science journalist at Mospravda, Russia  
Sophie Coisne, science journalist at Science et Vie, France  
Istvan Palugyai, science journalist, Budapest, Hungary

## Lost in translation: media, science and politics

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**Organiser: Stephan Herrera**, Acumen Journal of Life Sciences, The Economist, USA

Thursday 26 August 09:30-12:30  
Folkets Hus Congress Hall C

Most people acquire most of their knowledge about science and technology through the media. How much is lost in translation between scientists and journalists? Does this influence the public's perception of science? Is it the cause of the furor over stem cells, genetically modified food and nanotechnology? What are the responsibilities of the media? How should scientists and journalists communicate controversy and uncertainty to the public? How can misunderstandings be avoided? As pressure groups become increasingly savvy about politicising scientific issues, how should the research community defend reality?

Speaker/s:

Stephan Herrera, Acumen Journal of Life Sciences, The Economist, USA

*The media: Informing or confusing the public?*

Anna Gergely, Keller & Heckman LLP, Brussels, Belgium  
*Anatomy of a backlash*

Ortwin Renn, Inst. für Sozialwissenschaften, Stuttgart, Germany

*Has the public calculus of risk-reward changed?*

Anders Hägerstrand, NeuroNova AB, Stockholm, Sweden

*The impact of politics on academe and entrepreneur*

Emmanuelle Boubour-Schuler, Rice University, Houston, USA

*The scientist: setting the record straight*

Ernst Ulrich von Weizsäcker, Wuppertal Institute for Climate, Environment and Energy, Germany

*How science gets lost in the fog of politics*

Peter Biacs, Hungarian Office for Food Safety (MEBiH), Budapest, Hungary

*The love-hate relationship with biotechnology*

## Spreading the word: who profits from scientific publishing?

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**Organiser: Françoise Praderie**, Observatoire de Paris and **Siméon Anguelov**, UNESCO, France

Thursday 26 August 14:45-18:15  
Norra Latin Room 357

A half-day two-session symposium devoted to the problems facing science publishing today. The first session will analyse the roles of scientists as users, writers and reviewers of scientific papers using the classical and the new technologies for dissemination. The importance of maintaining high quality refereeing will be stressed. The second session will be centred on the issues faced by the scientific learned societies in publishing and sustaining scientific journals.

Moderators:

Wilhelm Krull, Volkswagen Foundation, Hannover, Germany

Pierre Baruch, Université Paris VII, France

Speaker/s:

Hans Dieter Daniel, Eidgenössische Technische Hochschule, Zürich, Switzerland

*Publications as a measure of scientific advancement and of scientists' productivity*

Roger Elliott, Oxford University, UK

*Who owns scientific data? The impact of intellectual property rights on the scientific publication chain*

Sally Morris, Association of Learned and Professional Society Publishers, Worthing, UK

*The economics of scientific publications: what does it cost and who pays?*

Hélène Bosc, Institut national de la recherche agronomique, Tours, France

*In a paperless world, a new role for academic libraries?*

Frank Gannon, EMBO, Heidelberg, Germany

*Conclusion*

## Prime time for hot Pi

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**Organiser: Gero von Randow**, DIE ZEIT, Germany

Thursday 26 August 14:45-16:15  
Norra Latin Room 353

Mathematics is coming out of the closet. Once an arcane subject for science writers, it is now becoming a hot topic in the media. Has the attitude in the media towards mathematics changed? How can you explain complicated mathematical topics in the media? Is mathematics properly understood when presented in the media?

Session Chair:

Gero van Randow, DIE ZEIT, Germany

Speaker/s:

Heinz-Otto Peitgen, University of Bremen, Germany

Ranga Yogeshwar, Westdeutscher Rundfunk Köln, Anstalt des öffentlichen Rechts, Germany

*Math & TV*

Albrecht Beutelspacher, Mathematisches Institut, Giessen, Germany

*Mathematics - the entertaining way!*

## Electronic visits from neighbouring laboratories in Europe

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**Organiser: Claus Madsen**, ESO, Germany

Thursday 26 August 14:45-16:45  
Folkets Hus Congress Hall C

The session includes specially invited guests: school pupils, aged 15-18. Experience has shown that direct encounters between young people and active scientists can be very conducive to greater interest in science among students about to decide their future careers. This session will include teleconferences to four EIROforum world-class research laboratories from where experienced scientists at their workplace will introduce their current front-line work and interact live with the audience in Stockholm. The fields will include particle (CERN) and astrophysics (ESO), as well as human genome (EMBL) and space research (ESA). Swedish scientists with relation to these organisations will also participate.

Moderator:/Speaker:

Richard West, ESO, Germany

## Universal language or polyglot discourse?

**Organiser:** Marion Steinicke, Interdisciplinary Graduate Centre of the University of Heidelberg (IDK), Germany

Thursday 26 August

16:15-17:45  
Norra Latin Room 353

Has the established role of English as the undisputed lingua franca solved all problems of scientific communication – amongst scientists and between scientists and the general public? There is an increasing need for the communication of science to a broader public. Scientific terminology tends to evolve into an ‘in group’ jargon and into specific, sometimes highly metaphorical, vocabularies. This session will discuss the utility of a universal scientific language, the problems of establishing terminological norms and the influence of scientific language on public opinion.

Speaker/s:

Roland Pochet, Université Libre de Bruxelles, Belgium  
*The difficult pathway between demagogic speeches and honest, doubtful and careful scientific jargon*  
Jens Rometsch, University of Heidelberg, Germany  
*Hermeneutic problems of scientific discourse*  
Lodewijk Arntzen, University of Heidelberg, Germany  
*Change in scientific language in physics*  
Heinz Georg Held, Università di Pavia, Italy  
*The function of scientific translation*  
Pit Kapetanovic, University of Heidelberg, Germany  
*The paradox of artificial languages*  
Birger Bergh, University of Lund, Sweden  
*Latin - the future language of Europe*

## Science in colour in Czech Republik, Austria, Slovenia, and the UK

**Organiser:** Elizabeth Rasekoala, African-Caribbean Network for Science & Technology, UK

Friday 27 August

09:30-12:30  
Norra Latin Musiksalen

‘Science in colour’ brings together 20 young people aged 13-15 from ethnic minority backgrounds in four European countries (African-Caribbeans from the UK, Turks from Austria, and Roma from the Czech Republic and Slovenia). They will discuss scientific issues facing a multi-cultural and multi-racial Europe. How can science be communicated effectively to ethnic minorities in Europe? How can science in Europe be made socially more cohesive?

Speaker/s:

Czech Republic  
Dagmar Dvorakova, The Academy of Sciences of the Czech Republic, Prague  
Martin Cichy, Romano Jasnica Association, Usti nad Ladem  
Jan Hron, Roma Secondary School, Kolin

Austria

Rita Litauskay, Bureau for International Research and Technology Co-operation (BIT)  
Yasin Kilicdagi  
Ayse Cicek

Slovenia

Gorazd Weiss, Austrian Science and Research Liaison Office  
Ljubljana

United Kingdom

Elizabeth Rasekoala, African-Caribbean Network for Science & Technology  
- 4 young African-Caribbean people from Old Trafford Schools who also attend the Old Trafford Youth Centre

## Communicating life sciences

**Organiser:** Michaël Renvillard, ECSITE Executive Office, Belgium

Friday 27 August

14:45-17:15  
Folkets Hus Congress Hall C

Raising the Debate at European Level with the Science Centres Community.

Important scientific and technological advances have taken place in biology over the past few years. Through the application of developments such as cloning and genetic modification, the life sciences have a growing influence on everyday life. It has thus become a major topic in European Science Centres & Museums. Using the BIONET digital exhibition (<http://www.bionetonline.org>) as a common basis for activities, the session will link 3 different science centres (in Newcastle, Valencia and Bologna) with scientists who will answer essential questions on the topic.

Session Chair:

Linda Conlon, The Life Science Centre, Newcastle, UK

## Science for kids

**Organiser:** Albert Gerdes, DFG-Research Center Ocean Margins, University of Bremen, Germany

Friday 27 August

14:45-17:45  
Norra Latin Room 357

Do scientists find it more difficult to communicate with children than with adults? If so, why? Is it beneficial to start communicating at an early age? What motivates scientists to work with children? How is the success of the work measured? What role do teachers play in the communication process? Is there a need to organise an exchange of information on a European level?

Speaker/s:

Albert Gerdes, DFG-Research Centre Ocean Margins, University of Bremen, Germany  
*Science for kids - Why? How? Where?*  
Simon Nicholson, Winchester, UK  
*The investigators: science and kids' TV*  
Michael Seifert, University of Tübingen, Germany  
*Why stars do not fall down from heaven*  
Marianne Loeken, Norwegian Research Council, St Hanshaugen, Norway  
*How curious is Per?*

## How to write a best seller

**Organiser:** Stefan Klein, Berlin, Germany

Saturday 28 August

09:30-12:30  
Norra Latin Aulan

Popular books are an important means of communicating science. In an increasingly fast-paced media environment, it is not easy to hold the attention for issues posing an intellectual challenge. Still, several spectacular successes in the last years have demonstrated that even subjects as exotic and demanding as string theory are accessible to a broad public. How can books be both precise and understandable to everyone? What are the topics readers find interesting? How



much enlightenment do they want, how much myth do they need? Is narration foreign or integral to scientific culture? What is the impact of science writing on society?

Speaker/s:

Stefan Klein, Berlin, Germany

*Who needs popular books about science?*

Tor Nørretranders, Hellerup, Denmark

*Can clear language be too clear? Explaining science*

Simon Mawer, PFD, UK

*Learning from Novels*

Abel Gerschenfeld, Editions Robert Laffont, Paris, France

*Forget your colleagues: The publisher's take on science*

Anton Zeilinger, University of Vienna, Austria

## Science and the media: how does science become headline news?

**Organiser: Ginger Pinholster**, American Association for the Advancement of Science, USA

Saturday 28 August

14:45-17:45

Norra Latin Musiksalen

How do scientific developments evolve into stories for newspaper and television? Why is science communication handled differently in the United States versus Europe? What are the varying challenges that scientists face as they attempt to tell their stories? What are the key components of a winning science story? What obstacles hinder effective science communication? What were the best science stories of recent months, which stories lost something in the translation as they were reported, and why?

Speaker/s:

Harry Griffin, Roslin Institute, Roslin BioCentre, Scotland, UK

*Working with the media: lessons learned from the creators of Dolly*

Dawn Duncan, Medical Research Council, London, UK

*Connecting scientists and the media: a press officer's view*

Malen Elvira de Ruiz, El País, Madrid, Spain

*The best science stories of recent months*

Ginger Pinholster, AAAS, Washington DC, USA

*The challenges of placing a story in the global media*

Nils Bruzelius, The Washington Post, Washington DC, USA

*What makes a winning science story?*

Gordon Woods, University of Idaho, USA

*The scientist's role in accurate news coverage*

## What does science mean to you?

**Organiser: Andrew Moore**, European Molecular Biology Organization, Germany

Saturday 28 August

14:45-17:45

Folkets Hus Congress Hall AB

What does science mean to you? - a chance for all sectors of society to express opinions in real time voting on modern biology and its applications! As well as celebrating some of the contributions of European life science research towards improved life and lives, we will critically examine controversial areas of research, the challenges in public perception, dialogue, and education in the life sciences. In the context of talks and discussions, the public will be able to interact with leading communicators on subjects from genetically modified plants to nanotechnology, and more!

Session Chair:

Frank Burnet, University of the West of England, Faculty of Applied Sciences, Bristol, UK

Speaker/s:

Adriano Aguzzi, ETH, Institute of Neuropathology, University Hospital, Zürich, Switzerland

*Science and direct democracy: the Swiss experience*

Bernard Dixon, Middlesex, UK

*Lessons for scientists, educators and regulators*

Frank Burnet, University of the West of England, Faculty of Applied Sciences, Bristol, UK

*A question of trust?*

Wolfgang Heckl, Ludwig Maximilians University of Munich,

Centre for Nano-Scale Analytics, Faculty of Geosciences, Germany

*Communication NanoScience*

Helena von Troil, Archeon, Helsinki, Finland

*Penicillin and pigoons: wonders and fears of biology*

## Dealing with Risk

### Public participation in risk management

**Organiser: Kjell Andersson**, Karita Research, Sweden

Friday 27 August

09:30-12:30

Norra Latin Room 353

The more awareness there is in society about all aspects of political decisions, the better. This is especially difficult in areas that involve complex, value-laden issues. Awareness can only be achieved by transparency, citizen participation and insight. As the EU White Paper on Governance has acknowledged, 'people increasingly distrust institutions and politics or are simply not interested in them'. What are the roles of scientists, politicians, interest groups and the media in setting the agenda? What is the role of technology assessment and public participation in risk management? Case studies on (e.g.) food safety, biotechnology and the use of mobile telephones will be presented.

Speaker/s:

Sören Wibe, Riksdagen, Stockholm, Sweden

*Agenda setting in contemporary political life*

Ortwin Renn, University of Stuttgart, Chair of Environmental Sociology, Institute of Social Sciences, Germany

*Deliberative approaches to manage systemic risks*

Kjell Andersson, Karita Research, Stockholm, Sweden

*Awareness creation in policy making*

Björn Hedberg, Swedish Radiation Protection Authority, Stockholm, Sweden

*Communicating risks with mobile phone systems*

Eskil Ullberg, IKU, Uppsala, Sweden

*Perspectives on IPR and patenting*

### Risk, society and sustainability

**Organiser: Alik Ismail-Zadeh**, International Institute of Earthquake Prediction, Russian Academy of Sciences, Russian Federation

Friday 27 August

09:30-12:30

Norra Latin Room 361

Does the world face major threats resulting from the expansion of human activity? Or are the greatest threats natural disasters? Are we at greater risk today than in the past? Do we understand the risks better today than we used to? Can science be used to minimise the risk to human life and to the environment? Will it solve the problems of biodiversity, energy and global warming? How likely are pandemics? Is society able to assess the risks accurately? What are the consequences for policy?



#### Moderators:

Uri Shamir, The Stephen and Nancy Grand Water Research Institute  
Technion - Israel Institute of Technology, Haifa, Israel  
Françoise Praderie, Observatoire de Paris, France

#### Speaker/s:

Gerassimos Papadopoulos, National Observatory of Athens, Greece  
*Earthquake hazards and mitigation efforts in the Mediterranean area*

Friedemann Wenzel, Karlsruhe University, Germany  
*Megacities - Megarisks*

John Paterson, School of Law, Univ. of Westminster, London, UK  
*Sustainable development and the precautionary principle*

Tom Beer, CSIRO Environmental Risk Network,  
Aspendale, Australia

*Environmental risk management*

Peter Wiedemann, Society for Risk Analysis Europe,  
Jülich, Germany

*Risk and Sustainability: mutual lessons from approaches to the use of indicators*

### Communicating risk in a sound bite

**Organiser: Fiona Fox**, Science Media Centre, The Royal Institution, London, UK

Friday 27 August

14:45-16:15  
Norra Latin Room 359

This is a media training workshop for scientists, giving tips on how to communicate risk to the media. It will help scientists to understand why journalists expect a yes or no answer to questions such as 'Is it safe?', and use mock interviews to practise how to answer them effectively. Whether the issue is MMR, BSE, railway safety or hormone replacement therapy, the risk communication issues are broadly similar – and this media training session will help you tackle them head on.

#### Speaker/s:

Fiona Fox, Science Media Centre, The Royal Institution,  
London, UK

## Emerging Technologies

### European research at the cutting edge

**Organiser: Claus Madsen**, EIROforum, Germany

Wednesday 25 August

14:45-17:45  
Folkets Hus Congress Hall AB

This session covers a wide spectrum of scientific disciplines, ranging from particle physics, space science and astrophysics to neutron research, materials science and molecular biology. Active scientists, working at or with some of the world's leading research facilities, operated by the European Intergovernmental Research Organisations, will provide an insight into the most recent discoveries made by these facilities and provide an outlook to the future of their respective areas of research.

#### Speaker/s:

Alvaro Gimenez, Research and Scientific Support Department,  
ESA, France

*Europe opens new frontiers in space sciences*

François Nedelec, EMBL, Heidelberg, Germany

*When physics meets biology: understanding cellular machines*

Ted Forgan, University of Birmingham, UK

*Superconductivity, magnetism and neutrons*

Andreas K. Freund, ESRF, Grenoble, France

*Seeing atoms move with synchrotron light*

Ambrogio Fasoli, CRPP-EPFL, Switzerland

*Burning plasma physics: the new frontier of fusion energy science*

Didier Queloz, Observatoire de Geneve, Switzerland

*Planets outside the solar system, from first discoveries to the*

*challenge of detecting other planets*

Jonathan Ellis, CERN, Switzerland

*Why do particle masses matter?*

### New fixed teeth in 30 minutes: from fiction to reality

**Organiser: Björn Klinge**, Karolinska Institutet, Institute of Odontology, Sweden

Thursday 26 August

09:30-11:00  
Norra Latin Room 461

Teeth lost due to caries, trauma or periodontal disease can be replaced using titanium implants anchored directly into the living bone. What was a treatment period of at least nine months is now reduced to 30 minutes. Using computer-aided radiography, images are reconstructed, and the surgical procedure is planned in 3D. The implants and prosthetic bridge are manufactured after the data is transferred to the laboratory. During the single surgical session, a computer-generated template is used to guide the position of the implants and the prosthesis is finally attached. We will present the story from the discovery of the unique biological properties of titanium to the treatment of a patient by this revolutionary technique.

#### Speaker/s:

Björn Klinge, Karolinska Institutet, Huddinge, Sweden

*A rabbit, a summer-holiday, and a visionary*

Matts Andersson, Nobel Biocare AB, Göteborg, Sweden

*From vision to production*

Daniel van Steenberghe, Catholic University of Leuven, Belgium

*Computer-assisted oral implant surgery*

### Life on a chip

**Organiser: Gunnar von Heijne**, Stockholm Bioinformatics Center, Sweden

Friday 27 August

09:30-12:30  
Norra Latin Room 461

In the 'biology of the future', in silico and in vivo approaches will become more and more integrated. This is already happening in genomics, proteomics and systems biology, and will no doubt also gradually transform other areas of biology and biomedicine. Which possibilities can we anticipate from this development? What will it mean for biology? Is there a risk that we will lose touch with the detailed workings of the cell in this new quest for integrative, large-scale knowledge? What will be the role of mathematical modeling and simulation of biological processes? Will clinical medicine really be transformed, or will the new developments mainly affect the more basic areas of biomedicine?

#### Speaker/s:

Richard Durbin, Sanger Centre, UK

*Interpreting the genome sequence*

Jan Lundberg, Astra Zeneca, Sweden

*Future developments in the pharmaceutical industry*

Antoine Danchin, Genetics of Bacterial Genomes, Institut Pasteur, Paris, France

*Cells and Computers: is this more than a metaphor?*

Uri Alon, Weizmann Institute, Israel

*Simplicity in biology*

## Red light for green biotechnology?

**Organiser: Karin Metzloff**, EPSO, European Plant Science Organisation, Belgium

Saturday 28 August

09:30-12:30

Norra Latin Room 461

Plant genomics is a powerful tool that has the potential to increase the efficiency of traditional breeding. Major contributions to understanding evolution and fitness in plants are expected and could become an integral part of ecosystem research. Can these advances improve the quantity and quality of food? Can they increase the use of renewable resources and induce changes in agricultural practice for the sake of the environment? Why is plant genomics regarded with deep suspicion by many consumers and policy makers?

Speaker/s:

Wilhelm Gruissem, Institute of Plant Sciences, Technology, ETH Zentrum, Zürich, Switzerland

*A delicate balance: production, land use, productivity*

Lothar Wilmitzer, MPIMP, Potsdam, Germany

*Plant biotechnology and novel products*

Dani Zamir, The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel

*Analysis & use of naturally occurring plant diversity*

Stefan Jansson, Plant Science Centre, University of Umeå, Sweden

*Plant genomics as a tool in ecology*

Beate Kettlitz, European Consumer Organisation BEUC, Brussels, Belgium

*Consumer awareness and expectations*

Phil Dale, John Innes Centre, Norwich, UK

*A debate with the public: a case study from the UK*

Speaker/s:

Sven Kullander, Uppsala University, Sweden

*A new generation of nuclear reactors - safe and cost-competitive*

Lars Strömberg, Vattenfall, Stockholm, Sweden

*Electricity from fossil fuels with zero emissions*

Tomas Kåberger, International Institute for Industrial Environmental Economics IIIIEE, Lund University, Sweden

*Forseeable cost reductions in energy from renewables*

Mats Leijon, Uppsala University, Sweden

*New renewables in theory and practice*

Hans Bernhoff, Uppsala University, Sweden

*Wave and underwater electricity*

Lena Neij, International Institute for Industrial Environmental Economics IIIIEE, Lund University, Sweden

*Forseeable cost reductions in energy from renewables*

Jan Sundberg, Uppsala University, Sweden

## It's not easy being green

**Organiser: Bertrand Fort**, Intellectual Exchange Asia-Europe Foundation, Singapore

Saturday 28 August

14:45-17:45

Norra Latin Room 461

What makes green technology sustainable? What roles could institutional and behavioural changes play in achieving sustainable development through the adoption of clean technology? What factors are crucial for the transfer of environmentally sound technology between Asia and Europe? The objective is to formulate possible solutions to the challenges of developing and adopting environmentally sound technology (EST) with a special focus on renewable energy.

Speaker/s:

Hélène Connor, HELIO International, Paris, France

*Green technology criteria and indicators*

Martin Khor, Third World Network, Kuala Lumpur, Malaysia

*Technology transfer challenges*

Philippe Bergeron, Regional Institute of Environmental Technology (RIET), Singapore

*Experiences in Asia-Europe technology transfer*

Thongchai Panswad, Thailand Environment Inst. (TEI), Bangkok, Thailand

*Experiences in Asia-Europe technology transfer*

Frans Berkhout, SPRU Environment and Energy Programme, University of Sussex, Brighton, UK

*Critical factors for EST adoption*

Hideyuki Mori, Institute for Global Environmental Strategies (IGES), Kanagawa, Japan

*Supportive networks for green technology*

## Energy

### Engineering energy

**Organiser: Per Storm**, Royal Swedish Academy of Engineering Sciences, IVA, Stockholm, Sweden

Thursday 26 August

09:30-12:30

Norra Latin Room 353

Wind, wave and water OR fossil, fission and fusion? - all known sources of energy have disadvantages. We all require a consistent, dependable source of electrical energy. The question is how to balance the many engineering problems, ecological issues and constraints on reliability. There will be economic issues with all of these. It is possible that some newer sources will help: geothermal, offshore wind and ocean wave energy. The electricity and gas networks are becoming interlinked in Europe. What impact will this have? Can a new generation of inherently safe nuclear reactors combined with transmutation of radioactive waste be an acceptable and important carbon dioxide technology? Can carbon dioxide be trapped and stored in suitable geological formations (carbon sequestration)? Can we foresee a scientific break-through in the field of renewables to make it possible for them to compete economically with new nuclear and clean coal?

## Testing molecular evolution: fossils, Darwin, DNA

**Organiser: John Stuart Peel**, Uppsala University, Department of Earth Sciences (Palaeobiology), Sweden

Thursday 26 August

09:30-12:30  
Norra Latin Room 357

The sequencing of the 3 billion letters that make up our genome is a new milestone in the understanding of the evolution of life. Inscribed in the genomes of living organisms is an evolutionary message from the far past. By comparing contemporary genomes we learn how various life forms have evolved. Thus, comparing human and ape genomes helps answer the question of what it takes to make a human being. Can we test evolutionary predictions at the molecular level, such as the origin of animals, against documented patterns from the fossil record? Can we combine these molecular and morphological approaches to predict future evolutionary change?

Speaker/s:

Graham Budd, Department of Earth Sciences (Palaeobiology), Uppsala University, Sweden,  
*From fossils to molecules: a palaeontological view of evolution and development*

Keith Bennett, Department of Earth Sciences (Palaeobiology), Uppsala University, Sweden  
*Quaternary environmental change and evolution: blocking, assisting, or irrelevant?*

Laura Parducci, Department of Earth Sciences (Palaeobiology), Uppsala University, Sweden,  
*Ancient DNA in pollen: insights in the recent history of plant populations*

Siv Andersson, Department of Evolution, Genomics and Systematics, Uppsala University, Sweden  
*Gene transfer and manipulation: how common is it in nature?*

Ulf Gyllensten, Department of Genetics and Pathology, Rudbeck Laboratory, Uppsala University, Sweden

*Origin of modern humans: a molecular perspective*  
Carles Vilà, Department of Evolution, Genomics and Systematics, Uppsala University, Sweden

*Investigating the roots of civilization: genetic analysis of the domestication of animals*

## The overlooked evolutionary dimension of modern fisheries

**Organiser: Ulf Dieckmann**, International Institute for Applied Systems Analysis, Austria

Saturday 28 August

09:30-12:30  
Norra Latin Room 361

Most fish are killed by commercial fishing. Fisheries have reached a ceiling, with three stocks out of four being maximally exploited or overexploited. Assuming that current fish species fill defined ecological niches, it follows that drastically, altered conditions cannot leave their life-history patterns unaffected. How will this affect fish stocks? Is there an evolutionary dimension that has been overlooked?

Speaker/s:

Ulf Dieckmann, International Institute for Applied Systems Analysis, Laxenburg, Austria

*Fisheries-induced evolution in the northeast Atlantic*

Mikko Heino, Institute of Marine Research, Bergen, Norway

*Fisheries-induced evolution in the northwest Atlantic*

Adriaan Rijnsdorp, Netherlands Institute for Fisheries Research, IJmuiden, The Netherlands

*Fisheries-induced evolution in the North Sea*

David Conover, Marine Sciences Research Center, State University of New York, USA

*Exploitation-induced evolution in the lab*

David Reznick, Dpt. of Biology, University of California, USA

*Exploitation-induced evolution in the field*

Richard Law, Department of Biology, University of York, UK

*Future implications of fisheries-induced evolution*

## Health

### Should your diet match your genes?

**Organiser: Siân Astley**, Institute of Food Research, UK

Wednesday 25 August

14:45-16:15  
Norra Latin Room 353

Will the new ‘-omic’ technologies revolutionise nutritional science? Hugely complex interrelationships within humans are being studied for the first time. Can nutrition be used to prevent disease? A personalised diet linked to your personal genetic profile may be an attractive concept, but is this an ethical way forward? Do people want it? And what are the risks to personal and society freedoms?

Speaker/s:

Siân Astley, Institute of Food Research, UK

*What are these things called ‘omics’?*

Gunilla Önning, Lund University, Sweden

*Effects of food components on gene expression*

Jaap Keijer, RIKILT - Institute for Food Safety, The Netherlands

*Risk-benefits of food bioactives*

### Health and disease: does gender matter?

**Organiser: Karin Schenck-Gustafsson**, Centre of Gender Related Medicine, Sweden

Wednesday 25 August

14:45-17:45  
Norra Latin Room 361

There are established differences between the sexes in the prevalence and severity of a broad range of diseases, and in the response to therapy. These differences influence our attitudes to the results of HRT studies, to our interpretation of the issues surrounding fetal programming and to the economics of public health. What are the mechanisms and origins of the observed differences? What are the implications for diagnosis, prevention and therapy?

Speaker/s:

Joke A. Haafkens, Gender Mainstreaming and Women’s Health, WHO Regional Office for Europe, Copenhagen, Denmark

*Gender mainstreaming in Europe*

Susana Sans, Generalitat de Catalunya, Hospital Sant Pau, Spain

*Cardiovascular epidemiology in Europe in a gender perspective*

Lucilla Poston, Guy, Kings and St Thomas School of Medicine, St Thomas Hospital, London, UK

*Fetal programming for adult disease: role of gender*

Karin Schenck-Gustafsson, Department of Cardiology, Karolinska University Hospital, Stockholm, Sweden

*Where are the all women in cardiovascular drug studies?*

Maria Grazia Modena, Department of Cardiology II, Policlinico Hospital, Modena, Italy

*Cardiovascular disease and sex hormones*

Vera Regitz-Zagrosek, Charité, Deutsches Herz Zentrum, Germany  
*Cardiovascular disease and genetics in a gender perspective*

## **The limitations of human performance**

**Organiser: Lennart Kaijser**, Karolinska Institutet, Sweden

Thursday 26 August

09:30-12:30

Norra Latin Room 359

Different sports require different capabilities. Over the past five decades sports physiologists have studied several limiting mechanisms. The heart has long been considered the most important limiting organ for endurance. What about the lungs – can they be limiting in highly trained endurance athletes? Sprinters who seem to have the best finish most often have a superior ability to maintain speed better than their competitors. What factors determine this “sprint endurance”? How important are our genes for performance and for the ability to improve by training?

Speaker/s:

Lennart Kaijser, Karolinska Institutet, Stockholm

*Lungs, heart and circulation or muscle metabolism as limitation of performance.*

Bengt Saltin, Copenhagen Muscle Research Centre, Denmark

*Importance of genes for training efficiency*

Michael J. Rennie, University of Nottingham, UK

*How does muscle mass affect performance - is there an optimum size for different events?*

## **Infectious disease in an expanding Europe**

**Organiser: Alison Abbott**, Nature, Germany

Thursday 26 August

09:30-12:30

Norra Latin Aulan

Following the heightened threat of bioterrorism, and the outbreaks of SARS and bird flu, there is new awareness of the dangers of infectious disease. What are the key issues involved in the handling of unexpected disease outbreaks in Europe?

Session Chair:

Hans Wigzell, Karolinska Institutet, Sweden

Speaker/s:

Albert Osterhaus, Institute of Virology, Erasmus University, Rotterdam, The Netherlands

*Is Europe well-prepared for the next emerging disease?*

Stefan Kaufmann, MPI for Infection Biology, Berlin, Germany

*Infectious disease in an extended Europe*

Ragnar Norrby, Swedish Institute for Infectious Disease Control, Stockholm, Sweden

*The case for a European CDC*

Jens Kuhn, Partners AIDS Research Center, Channing Laboratory,

Brigham & Women's Hospital, Harvard Medical School, USA

*Global biosecurity - oversight, international collaboration and integration of scientists to prevent biological weapons attacks*

## **Cancer in an ageing Europe**

**Organiser: Tina Dalianis**, Karolinska Institutet, Department of Oncology-Pathology, Sweden

Friday 27 August

14:45-17:45

Folkets Hus Congress Hall AB

What can we say about the increase in cancer incidence in Europe? What are the implications? How will the changes affect therapy? What new treatments will be influential? What scientific developments today will help treatment tomorrow? Are large specialist centres inevitable?

Speaker/s:

Peter Boyle, Int. Agency for Research on Cancer, Lyon, France

*The epidemiology of cancer in Europe today*

Thomas Tursz, Institute Gustave Roussy, Villejuif, France

*Survival after cancer therapy in Europe*

Michael Nishimura, The University of Chicago, USA

*Gene therapy in use for tumour therapy*

Gustav Gaudernack, Norwegian Radium Hospital, University of Oslo, Norway

*New aspects in immune therapy for cancer*

Julio Celis, The Danish Centre for Translational Breast Cancer Research, Copenhagen, Denmark

*Cancer proteomics and functional genomics*

## **Digital media in the global fight against HIV and AIDS**

**Organiser: Andreas Törnblad**, Face of AIDS Foundation, Sweden

Friday 27 August

16:15-17:45

Norra Latin Musiksalen

The vision of the Sweden-based non-profit Face of AIDS Foundation is to develop its Global AIDS Film Archive into a world leading educational and information tool, free for all to use as a unique visual digital online knowledge bank in the fight against HIV and AIDS. Based at the Karolinska Institute in Stockholm, the non-profit Face of AIDS Foundation started to develop its Global AIDS Film Archive in 1987. During 17 years of ongoing film documentation, the Swedish documentary film producer Staffan Hildebrand has travelled the world with his film team, documenting major aspects of the epidemic. Face of AIDS has now started to develop a global network of film teams, in order to help facilitate training of young local film-makers and the use of digital video technology. The Face of AIDS Pilot Film team in Cambodia has been working and experimenting for one year. The goal is to have five film teams based in different cities in the world up and running by 2006, using digital video technology in the global fight against HIV and AIDS. The Pilot Phase in Cambodia has just been completed and the Cambodian video team will show glimpses of their work and share their unique experiences in using digital video technology in the local fight against HIV and AIDS.

Speaker/s:

Anders Milton, Swedish Red Cross and Face of AIDS Foundation, Karolinska Institutet, Sweden

Staffan Hildebrand, Face of AIDS Project, Stockholm, Sweden

*Digital technology in the global fight against HIV*

Robert Bresevic, Face of AIDS Project, Interactive Institute, Stockholm, Sweden

Cedric Jancloues, Face of AIDS Phnom Penh, Cambodia

*Using digital media locally to fight the epidemic*

Doung Vanneth, Phnom Penh, Cambodia



## Body, mind and health

**Organiser:** Mats Lekander, Karolinska Institutet, Sweden

Saturday 28 August

09:30-11:00  
Norra Latin Room 353

Many health problems involve disturbances of the interplay between the nervous, the endocrine and the immune systems. The study of this interplay is called psychoneuroimmunology. One large area of study is stress, where efforts are made to separate adaptive functions from the negative consequences on mental and medical health that can result from overload. Another important area is the study of how the immune and the endocrine systems influence the brain, by taking an active part in the adjustment of factors such as emotion, sleep and cognition.

Speaker/s:

Mats Lekander, Department of Clinical Neuroscience, Karolinska Hospital and Institute, Sweden

*Review and history of psychoneuroimmunology*

Robert Dantzer, INSERM, Institut François Magendie, Bordeaux, France

*The immune system and sickness behaviour*

Pontus Stiern, Institutionen för klinisk vetenskap (KLIV), Karolinska Institutet, Sweden

*Stress systems and disease*

Torbjörn Åkerstedt, Institutet för psykosocial medicin (IPM), Karolinska Institutet, Sweden

*Stress and sleep*

## Human Brain

### Seeing our thought and plans

**Organiser:** Wolf Singer, Max Planck Institute for Brain Research, Germany

Friday 27 August

09:30-12:30  
Folkets Hus Congress Hall C

How does the brain work? How can neuronal interactions explain perception, emotions, decision making, action planning and make us aware of these processes? We can now investigate these phenomena, using the new technique in imaging to analyse our neurobiological functions. How will that help and inform us?

Speaker/s:

Chris Frith, Institute of Cognitive Neuroscience, Wellcome Department Cognitive Neurology, London, UK

*The feeling of being in control: the neural basis of our awareness of action*

Rainer Goebel, University of Maastricht, Neurocognition Group, The Netherlands

*Physiological self-regulation of regional brain activity*

Catherine Tallon-Baudry, CNRS.-LENA, France

*Neural representations of the visual world: how the brain brings bits and pieces together*

Wolf Singer, Max Planck Institute for Brain Research, Frankfurt am Main, Germany

*The brain, an orchestra without conductor*

## Humanity and Space

### From quarks to galaxies

**Organiser:** Michael Kobel, Physikalisches Institut, Universität Bonn, Germany, together with Phil Burrows (London), Giorgio Chiarelli (Pisa) and François le Diberder (Paris) as ELCSSG outreach subcommittee coordinators on behalf of the European Committee for Future Accelerators (ECFA), Germany

Friday 27 August

14:45-17:45  
Norra Latin Aulan

Over the last decades the field of particle physics has achieved astonishing insights into the simplicity that belies the complexity of the microworld. Forces that govern the atomic and subatomic world have been measured, and the building blocks of matter, quarks and leptons, have been discovered. A unified model of matter and its interactions has thereby been established. We do not understand what gives rise to the mass that we see all around us. Why does the universe contain matter and almost no antimatter? What is the role played by gravity? Do the four forces of nature become 'unified' at some high energy scale? Are there hidden extra dimensions in nature? These questions are intimately related to cosmology, to the first fraction of a second of the universe after the big bang. Why is the universe flat? Why does it have almost the same temperature everywhere? What is the nature of dark matter? What is the mysterious dark energy that makes the universe expand faster and faster?

Speaker/s:

Gerard 't Hooft, Spinoza Instituut, The Netherlands

*The nature of matter and forces*

Licia Verde, University of Pennsylvania, Department of Physics and Astronomy, USA

*The cosmic connection: from quarks to galaxies*

Ugo Amaldi, University of Milano Bicocca, Italy

*From accelerators to cancer therapy*

Ulf Danielsson, Department of Theoretical Physics, Uppsala University, Sweden

*Theories spanning time and space of the universe*

Albrecht Wagner, DESY Hamburg, Germany

*Pushing the frontier: tools for the next decades*

### The Top 10 mysteries of the early Universe

**Organiser:** Rolf Landua, CERN, Switzerland

Saturday 28 August

11:00-12:30  
Folkets Hus Congress Hall C

'The Top 10 mysteries of the early Universe' is an on-stage act by 2-3 CERN scientists and a presenter. The entertaining and fast-moving performance is aimed at the general public and modelled along the lines of the Top 10 charts on TV. It is intended to give an overview of the scientific mysteries in contemporary high energy physics and cosmology.

Speaker/s:

Rolf Landua, CERN, EP Division, Geneva, Switzerland

John Ellis, CERN, Geneva, Switzerland

Licia Verde, University of Pennsylvania, USA



## Should Europe explore the planets?

**Organiser:** Piero Messina, European Space Agency, France

Saturday 28 August

14:45-17:45

Folkets Hus Congress Hall C

Exploration and the quest for knowledge are central aspirations for mankind. The exploration of space presents extraordinary challenges to science and technology. The race to the Moon brought an unforeseen benefit: the motivation of two generations of children to become scientists and engineers. Mars is the next step. What might be the benefits of the technological challenges, particularly in seemingly unrelated fields such as health, safety, environment preservation and monitoring? How should Europe prepare for space exploration to maximise the benefits?

Speaker/s:

Franco Ongaro, Aurora Programme Office, European Space Agency, France

*The ESA's Aurora Programme for the human and robot*

## Knowledge in Society

### Psychopathology of organisations

**Organiser:** Joachim Hasebrook, International School of New Media (ISNM), University of Lübeck (and Hochschule für Bankwirtschaft, Frankfurt/Main), Germany

Wednesday 25 August

14:45-17:45

Norra Latin Room 356

Can the latest methods and findings of scientific clinical psychology be applied to organisations? Are they relevant to the economics and sociology of organisations? Will they help improve the diagnosis and, where necessary, indicate therapeutic needs for people or of the structure of organisations?

Speaker/s:

Leif Edvinsson, University of Lund, Sweden

*Managing the unmanageable: knowledge and skills management*

Sara Cox, Institute of Work, Health & Organisations (I-WHO), The University of Nottingham, UK

*Reproductive behaviour and job stress*

Paul Babiak, HRBackOffice, USA

*Snakes in suits: when psychopaths go to work*

Erich Barthel, Business School of Finance and Management, University of Applied Science, Germany

*Developing Human Capital - from Psychology to Economy*

Joachim Hasebrook, ISNM, Germany & Stefan G. Hofmann, Boston University, USA

*Introduction, summary and conclusion*

### Science, precaution and the future of innovation

**Organiser:** Brendan O'Neill, Spiked, England

Thursday 26 August

11:00-12:30

Norra Latin Room 461

Is fear holding humanity back? The precautionary principle demands that actions be regulated on the basis of expressed concerns rather than scientific data. If precaution and safety become the watchwords of our age, what is the future for scientific inquiry?

Session Chair:

Helene Guldberg, Spiked, London, UK

Speaker/s:

Helene Guldberg, Spiked, London, UK

Colin Berry, London, UK

*Science, precaution and the future of innovation*

## New mathematics for new challenges

**Organiser:** Luc Lemaire, Université Libre de Bruxelles, Belgium and European Mathematical Society

Friday 27 August

09:30-12:30

Norra Latin Aulan

Mathematics is alive and well and living everywhere. The 20th century has been called a golden age of mathematics, and the next century looks as promising, with major progress on many fundamental problems. Invisible mathematics is present in many aspects of our lives (from CDs to credit cards and mobile phones, from image compression to the control of planes, from medical imaging to biostatistics). Most aspects of science and technology can benefit from the use of sophisticated mathematics, either known, ancient, recent or under development. For example, computer science and telecommunication raise new questions in logic and combinatorics, biology and medicine could motivate a whole new mathematical field – a progress similar to the creation of calculus for physics – and financial systems require new mathematical models.

Speaker/s:

Luc Lemaire, Université Libre de Bruxelles, Belgium and European Mathematical Society

Gerard Huet, INRIA - Rocquencourt, France

*Functionality theory applied to Informatics, Logic*

Terry Lyons, Mathematical Institute, University of Oxford, UK

*Pure mathematics meets finance*

Simon Tavaré, University of Southern California, USA, and University of Cambridge, UK

*Mathematics in biology and medicine*

Martin Groetschel, Konrad-Zuse-Zentrum für Informationstechnik, Berlin, Germany

*Discrete optimisation and telecommunication*

## Nanoscience and Nanotechnology

### Nanotechnology: applications and implications

**Organiser:** Wolfgang M. Heckl, Ludwig-Maximilians-Universität, Germany

Thursday 26 August

14:45-17:45

Folkets Hus Congress Hall AB

How should we deal with expected innovations in very small-scale technology? Understanding at a molecular scale, e.g. the exact mechanism of a virus illness or a genetic defect, or how complex objects build in nature automatically due to interaction of individual atomic or molecular construction units, may also lead to the potential to intervene in these processes. This may have positive as well as negative consequences. Is the development of nanotechnology threatened by such concerns?

Speaker/s:

Mark Welland, Nanoscale Science Laboratory, Cambridge, UK  
*Nanoscience research, what is it about and what are the hot topics?*

Andrew Moore, EMBO, Heidelberg, Germany  
*From GMOs to Nanotechnology and beyond; learning from the past, looking to the future*

Wolfgang M. Heckl, Centre for Nanoscience, University of Munich, Germany  
*Nanoscience - a short history of the origins from Feynman to Binnig*

Douglas Parr, Greenpeace, UK  
*The Greenpeace view on nanotechnology*

## Predictability and Chaos

### Self-organising complex systems

**Organiser: Ingemar Ernberg**, Karolinska Institutet, Sweden

Saturday 28 August 11:00-12:30  
Norra Latin Room 353

Systems that seem to "self-organise" are common in physics, cosmology, chemistry and biology, but also appear in man initiated economical and social systems. It occurs when a system settles with relatively stable conditions and seems to continue to evolve with no need for external influences. Although some efforts have been made over the recent years to pinpoint the essences of self-organising systems, science has still not even defined them. This is still a major challenge, in particular in dealing with more complex systems. We are going to briefly review the current status regarding self-organisation in some of the disciplines, with a focus on comparing cosmology, physics and biology and discuss how we can make future scientific progress in this field. Is self-organisation an illusion? Can it be dissected in a meaningful way with the current laws of physics? Could there even be a common theory of (self)organisation?

Moderator:

Ingemar Ernberg, Karolinska Institutet, Sweden

Speaker/s:

Eörs Szatmary, Collegium Budapest, Institute for Advanced Study, Hungary

*Evolving self-organisation in biosocial systems*

Istvan Hargittai, Eötvös University, Budapest, Hungary

*Chemical symmetry and self-organisation*

Claes Blomberg, Royal Technical Highschool Stockholm, Sweden

*Higher order structures in physics*

Paavo Pylkönen, University of Skovde, Sweden

*Ontological interpretation of quantum theory, relevance in biology*

John Skår, Karolinska Institutet, Sweden

*Commentary on self-organisation in economical systems*

Peter Århem, Karolinska Institutet, Sweden

*Our mind and self-organisation - Popper before Parmenides*

Steven Jörsäter, Stockholm, Sweden

*Self-organised objects in the Universe*

## Science and Arts

### Molecules as art?

**Organiser: Gabor Naray-Szabo**, Federation of European Chemical Societies, Hungary

Wednesday 25 August 14:45-16:15  
Folkets Hus Room 204

Can molecules be viewed as aesthetic objects? Can computer graphics be used to communicate the excitement of chemistry? Examples of 'molecular beauty' will be exhibited and discussed.

Speaker/s:

Cristina De Matteis, School of Pharmacy, University of Nottingham, UK

*Lighting up the invisible*

Samar K. Das, University of Bielefeld, Germany

*Beautiful nanoobjects, geometry and art*

Paul Mezey, Departments of Chemistry, Physics and Physical Oceanography, Memorial University of Newfoundland, Canada  
*Shape, beauty, and functionality of molecules*

### Expressive musicians and affective computers

**Organiser: Anders Friberg**, KTH - TMH, Sweden

Wednesday 25 August 16:15-17:45  
Folkets Hus Room 204

The emotional communication between performer and listener can be analysed and modelled quantitatively. A musical performance can be analysed in terms of a set of physical variables and its emotional character can be predicted. These principles can be used in a number of different applications in musical human-computer interaction. The outcomes can be used to give constructive feedback to music students in the automatic tutoring system. New musical controllers can be designed that use body gestures to control the sound production and the emotional content of the music. Live demonstrations and hands-on testing will be provided at the symposium.

Speaker/s:

Anders Friberg, KTH - TMH, Stockholm, Sweden

*Computer synthesis of music performance*

Roberto Bresin, TMH - KTH, Stockholm, Sweden

*Computer analysis of music performance*

Patrik Juslin, Dpt. of Psychology, Uppsala University, Sweden

*Quantitative modeling of emotions in music performance*

Kjetil Hansen, KTH - TMH, Stockholm, Sweden

*DJS' scratching: from analysis to modelling*

### The artificial human: fear, fiction and fact

**Organiser: Horst A. Glaser**, University of Pisa, Department of Linguistics, Italy

Saturday 28 August 09:30-11:00  
Folkets Hus Congress Hall C

Are humanoids such as Frankenstein, RoboCop or Terminator precursors of modern science? Is science as frightening as spooky literature and Hollywood films would make us believe? Can we actually clone humans and make body parts using adult stem cells? What sort of robots already exist and what sort may exist tomorrow?

Speaker/s:

Jochen Eulert, Univ. of Würzburg, Chair for Orthopedics, Germany  
*Prosthetic human renewal*

Peter Gendolla, University of Siegen, Chair for Literature, Art and New Media, Germany

*Androids in film and television*

Christoph Klein, Medical School of Hannover, Section of Experimental Hematology/Oncology, Germany

*Stem cell research*

Alois Knoll, Technical University of Munich, Chair for Robotics and Embedded Systems, Garching bei München, Germany

*What can robots do?*

Eberhard Passarge, University of Essen, Institute for Human Genetics, Germany

*Stem cell research and cloning*

Sabine Roszbach, University of the Saarland, Institute for Comparative Literature, Germany

*The human automaton in art history and literature*

## Science and Ethics

### Who owns the genome?

**Organiser:** Li Westerlund, Rydin Carlsten Advokatbyrå, Sweden

Thursday 26 August

09:30-12:30

Norra Latin Musiksalen

Intellectual property is a fundamental issue in genomics. Although the patenting of genes and other inventions has its basis in law, the subject intersects the fields of economics, science and ethics. The patentability of novel sequences that do not define a naturally occurring protein is well established. Public debate concerns the patentability of naturally existing substances or of novel uses of genetic information. While inventors are happy to see their inventions patented, the present system may result in the patenting of 'existing inventions' and impede technological development in pharmaceuticals and biotech. When should intellectual property rights be allowed? How do we ensure a good balance between the benefits to industry and society? Can laws and regulations keep up with developments in science and technology?

Speaker/s:

Li Westerlund, Rydin Carlsten Advokatbyrå, Stockholm, Sweden

*Setting the stage: issues and trends in Europe*

Barbara A. Caulfield, Affymetrix, Inc., Santa Clara, USA

*A view from across the Atlantic*

Sandy Thomas, Nuffield Council on Bioethics, London, UK

*The ethical challenges of gene patents*

Joseph Straus, Max Planck Institute, München, Germany

*Driving investment: the critical link between intellectual property law and private sector investment*

Martin J. Adelman, George Washington University, Law School, Department of Intellectual Property, USA

*Is there a good reason why United States law on gene patenting is so different from the law of the rest of the world?*

### The social responsibility of scientific institutions

**Organiser:** Lydie Koch Miramond, Scientific Advisor DSM, French Atomic Energy Commission; Convenor: Euroscience Working Group on Ethics in Science, France

Thursday 26 August

16:15-18:00

Norra Latin Room 361

Do scientists have a duty to alert everyone to the possibly harmful consequences of their research? Do modern societies allow them to express their concerns? Is public investment in science and technology predicated upon the expectation of some return to society? What returns might inspire and merit, or destroy public confidence? Can the social responsibilities of scientists be discharged collectively through scientific institutions?

Speaker/s:

Barbara Rhode, European Commission Directorate General for Research, Unit on Ethics and Science, Belgium

*Ethics in the European Research Area*

Margaret A. Somerville, Centre for Medicine, Ethics and Law, McGill University, Montreal, Canada

*Science, society and the human spirit*

Gerard Toulouse, ALLEA, Laboratoire de Physique Théorique, Ecole Normale Supérieure, France

*Science and war, science and peace: the role of science*

### Moral challenges to science

**Organiser:** David Coates, Academia Europaea, UK

Saturday 28 August

09:30-12:30

Norra Latin Room 359

Is science morally committed to the establishment of a secular culture? How does this interact with science's memory of its own past? What are the reasons for the increasing number of debates on the culture of science? Are the tensions exemplified by spectacular cases of 'faked research', or are we witnessing a profound credibility crisis of science? Is it possible to reduce ethics to 'natural', scientific facts? Did Charles Darwin attempt to naturalise ethics in his writings? Are Darwin's proposals still valid?

Speaker/s:

Gabriel Motzkin, Hebrew University, Jerusalem, Israel

*Memory and secularization as moral challenges to science*

Carl Friedrich Gethmann, University of Essen, Germany

*The crises of the ethos of science*

Giovanni Boniolo, University of Padua, Italy

*Darwin and the foundations of ethics*

Jürgen Mittelstrass, University of Konstanz, Germany

*Round-table discussant*

Jürgen Renn, Max Planck Inst. for the History of Science, Berlin, Germany

*Round-table discussant*

### Does science help to run the country?

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**Organiser:** Kjell Andersson, Karita Research, Sweden

Wednesday 25 August

14:45-17:45  
Norra Latin Aulan

Mad cow disease, GMOs in food and agricultural products, research with human embryonic stem cells, global climate change, fostering innovation and economic growth, preserving biodiversity, AIDS, fighting terrorism – all of these issues confront policy makers every day. Decisions must be made that are informed by up-to-date science. Many European countries have established mechanisms to analyse scientific and technical issues. How can policy makers address future challenges effectively? How effective are they? How often is their advice actually used by their clients? Are some organisational styles and methods of operation better than others? (Linked to a satellite event held on 24 August at the Swedish Riksdag.)

Moderator:

Hans Bergström, USA

Speaker/s:

Majléne Westerlund Panke, Riksdagen, Stockholm, Sweden

*A scientific approach versus modern superstition*

David Cope, UK Houses of Parliament, Parliamentary Office of Science and Technology, London, UK

*The interface between science and politics*

Albert Teich, AAAS, Washington DC, USA

*Policy advice for science and technology in the USA*

Britt-Marie Drott Sjöberg, SVT-fakultet, NTNU, Institutt for Psykologi, Trondheim, Norway

*Future competence-challenges in science and policy*

### Can chemistry survive in Europe?

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**Organiser:** Frank Agterberg, Cefic, on behalf of AllChemE, Belgium

Wednesday 25 August

14:45-17:45  
Norra Latin Room 359

It is impossible to doubt that industry depends on basic science. Yet, chemistry constitutes a paradox in Europe, where excellent basic science has not resulted in a dominant position worldwide. Although European chemical industry is the largest industry in the world, providing a strong basis for European economy and employment, increasing regulatory constraints decrease its ability to innovate and its competitiveness. Together with the decrease in the number of young people choosing chemistry as a career, this makes the future demand for basic science in chemistry uncertain. Will chemical research and development move out of Europe, endangering emerging technologies that are enabled by chemistry, for example nanotechnology and biotechnology?

Moderator:

Jon Mc Cleverty, Bristol University, UK

Speaker/s:

Pietro Tundo, University Ca' Foscari of Venice, Italy

*Chemistry crossing borders for high quality of life in Europe*

Marcos Gomez, BASF, Germany

*Innovation through collaboration in a chemical company*

Kristy Mac Donald, Science Council & RSC, UK

*From excellence in education to excellence in practice: the skills base for effective applied research*

Frank Agterberg, Cefic Research & Science, Belgium

*A strategy for European collaborative research – towards a European technology platform for sustainable chemistry*

Istvan Horvath, Eotvos University, Hungary

*A roadmap for successful industrial-academic collaboration: integration of locally managed research for global technology development*

### Innovation and creativity in Europe

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**Organiser:** Per Olof Berg, Stockholm School of Entrepreneurship, Sweden

Wednesday 25 August

14:45-17:45  
Norra Latin Musiksalen

In Europe business and science parks are appearing alongside centres of scientific excellence. Should national resources be directed towards these centres? Or do they flourish better independently? Is size an important issue? Is multidisciplinary essential? What can we learn from existing examples? What is the best model to maximise innovation and creativity in Europe? What are the commercial and legal issues?

Speaker/s:

Hans Wigzell, Karolinska Institutet, Sweden

*Building a Nobel Class bio-innovation region*

Linda Nielsen, Copenhagen University, Denmark

*Öresund science region – development of a competitive transnational-multi cluster - innovation region*

Luis Sanz, IASP International Association of Science Parks, Parque Tecnológico de Andalucía- Sede Social, Málaga, Spain

*From science & technology parks to innovation environments*

Eero Holstila, Culminatum OY, Espoo, Finland

*Can science regions be governed?*

Anthony Hopwood, Saïd Business School, Oxford, UK

*Making large prestigious universities entrepreneurial and innovative*

Herbert Buscher, DG Enterprise, Brussels, Belgium

*Driving and monitoring science-based innovation at the European level*

### Making links, building bridges:, Science matters in South Eastern Europe

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**Organiser:** Howard Moore, UNESCO-Roste

Thursday 26 August

09:30-12:30  
Folkets Hus Room 204

There are many problems facing scientists in Eastern and South-Eastern Europe (including the Alpine states). These include: the lack of connectivity, limited access to major funding sources, barriers to mobility and low investment. The seminar will present ideas on how they can be surmounted and examples of 'success stories'. There are some interesting self-help case studies that could inspire others. For example, a team of dynamic people who have created a wonderfully equipped faculty of medicine, a department of computing that has succeeded in attracting a range of private sector sponsorship and networking in astronomical observation.

Session Chair:

Nada Svob-Dokic, Institute for International Relations, Croatia



Speaker/s:

Milica Uvalic, University of Perugia, Dpt. of Economics, Italy  
*Science, technology and economic development in South Eastern Europe*

Magda Stavinschi, Romanian Academy, Astronomical Institute, Romania

*Solutions in a world without solutions*

Ivan Dimov, Bulgarian Academy of Sciences, Bulgaria

*SEE Network of Centres of Excellence in Mathematics, Informatics and Engineering - challenges and achievements*

Miroslav Trajanovic, Innovation Centre for Information

Technology, University of Nis, Serbia & Montenegro

*The contribution of IT towards building bridges within the region*

Dijana Plaseska-Karanfilska, Macedonian Academy of Sciences and Arts, Research Centre for Genetic Engineering and Biotechnology, FYR of Macedonia

*The case for networking: science and technology in Macedonia*

## Universities between public values and commercialisation

**Organiser: Sandra Bitusikova**, European University Association, Belgium

Thursday 26 August

14:45-16:15

Norra Latin Room 361

The new environment for higher education has changed considerably in recent decades and presents both threats and opportunities to the sector. The acceleration and changing nature of globalisation have generated a set of uncertainties concerning the respective roles and importance of the State and higher education institutions, a stronger vocational emphasis in education, the commercialisation of “knowledge products”, and a new way of organising academic work. The massification of higher education and the erosion of commitment to fund it through the public purse have led to increased pressures for commercialisation as reflected in the diversification of income sources and the rise of for-profit activities or for-profit institutions. Finally, increased commercialisation and the growth of transnational education have led to discussions regarding the further inclusion of higher education in the GATS negotiations and demands for a global quality framework to deal with obstacles to mobility and the uncertain quality of cross-border providers.

These trends can be construed as representing a major threat to the historical core values of higher education, e.g. in impeding the free exchange of research results, weakening blue-sky research capacity, and eroding the values of a liberal education (*Bildung*) and the civil role of higher education. At the same time there are also opportunities to be embraced.

*This session will discuss from different perspectives the implications that this new environment holds both in terms of general higher education policies and the specific activities of individual institutions.*

Session Chair:

Eric Froment, President of EUA, Brussels, Belgium

Speaker/s:

David Andrew Phoenix, University of Central Lancashire, UK

Lea Brunner, ESIB, Bern, Switzerland

Lesley Wilson, EUA, Brussels, Belgium

## Technology transfer in emerging countries

**Organiser: Sam Vaseghi**, Euroscience Working Group for Technology Transfer (ESWGTT), Germany

Thursday 26 August

14:45-17:45

Norra Latin Room 461

How can capital be attracted into the laboratory to fund technology transfer? Is there anything specific in this process for emerging countries?

Speaker/s:

Eduard Tropp, St Petersburg Scientific Centre of the Russian Academy of Sciences, Russian Federation

*Innovation activity in the consortium of research*

Sam Vaseghi, Euroscience Working Group for Technology Transfer, Hamburg, Germany

*Attracting capital versus technology transfer*

Piotr Swiatek, EU-Bureau of Federal Ministry of Education and Research, Bonn, Germany

*Developing potentials - generating synergies*

Warden Campbell, EARMA WG VIMak in HEROs,

La Laguna Tenerife, Spain

*Successful initiatives in Knowledge Management*

Alexander Makarenko, National Technical Univ., Kiev, Ukraine

*Goals, scales and possibilities of technology transfer in post USSR countries*

## Giving substance to sustainable development

**Organiser: Annika Nilsson**, Department of Water and Environmental Studies, Linköping University, Sweden

Thursday 26 August

14:45-17:45

Norra Latin Musiksalen

Should science be a tool for facilitating political goals? Under the heading of science for sustainable development, researchers should focus on the interactions between nature and society. Science for sustainable development needs to move from the recognition of problems to the implementation of solutions.

The introductory presentation will be followed by a round-table discussion that will also feature John Marks, Director of Science and Strategy at the European Science Foundation, Felix Dodds, Stake Holder Forum for Our Common Future, Lisa Sennerby Forsse, Secretary General of the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, and Jakob Ström, Swedish Ministry of the Environment.

Session Chair:

Thomas Rosswall, International Council for Science, Paris, France

Speaker/s:

Jill Jäger, Vienna, Austria

*The next step for science for sustainability*

Roger Kaspersen, Stockholm Environment Institute, Sweden

*Can Europe learn from developing country cases?*

Carl Folke, Dpt. of Systems Ecology, Stockholm Univ., Sweden

*The water kingdom of Kristianstad*

Susan Owens, Dpt. of Geography, University of Cambridge, UK

*Interpreting sustainable development: a question of values?*

Björn-Ola Linnér, Department of Water and Environmental Studies, Linköping University, Sweden

*Must implementation lead to fragmentation?*



## Where are the women in science?

**Organiser:** Nelli Didenko, Euroscience Local Section in Russia

Friday 27 August

09:30-12:30

Norra Latin Room 357

Why are women underrepresented in physics and related fields, such as engineering? Why does the percentage of women decrease sharply with each step of career advancement? What strategies can be developed to increase women's participation in and impact on the field?

Speaker/s:

Judy Franz, IUPAP c/o APSOne Physics Ellips College Park, USA

*Women physicists in Europe and the US: working together*

Marcia Barbosa, Instituto de Fisica UFRGS, Brazil

*Equity on women in physics*

Iryna Vavilova, Kiev University, Ukraine

*Women in science of Ukraine: past, present and future*

Renata Vitman, Ioffre Physico-Technical Research Institute, RAS, Russian Federation

*Educated women in the period of financial crisis in science*

Irina Eliseeva, St Petersburg Scientific Centre of the Russian

Academy of Sciences, Russian Federation

*Women scientists in research and TT in Russia*

Nina von Sartori, EU-Bureau of the BMBF, Germany

*Women in European research - the specific German situation*

## Developing a strategy for European research funding agencies

**Organiser:** Regis Cabral, A&U2iNAnalys och Utredningsuppdrag i Norr, Sweden

Friday 27 August

09:30-12:30

Norra Latin Room 359

As we look into the future, it is a good idea to look into the past and learn from the wealth of expertise that European research funding agencies offer. Why were they set up? How do they obtain funds? How do they decide on their priorities? How do they achieve quality and value for money? How do they manage the tensions between national interests and the international nature of science?

Speaker/s:

Imre Hronszky, Budapest University of Technology and Economics, Hungary

*From East-West TEMPUS to Europe of knowledge 2020*

Regis Cabral, A&U2iN, Analys och Utredningsuppdrag i Norr, Lycksele, Sweden

*Learning from the history of the European Science Foundation*

Rosario Ramos, Universidad de las Palmas de Gran Canaria, Spain

*Developing a European research strategy: The Importance of the Regional Dimension*

Nuri Süha Bayindir, Eastern Mediterranean University, Turkish Republic of Northern Cyprus

*Special funding strategies to encourage the development of knowhow and technology in developing countries*

Lúisa Henriques, Fundação para a Ciência e Tecnologia, Portugal

*The dynamics of funding research in Europe. From the OECD model for national science and technologies policies to the coordination of national funding*

## Who controls science?

**Organiser:** Gail Cardew, Royal Institution of Great Britain

Friday 27 August

14:45-17:45

Norra Latin Room 353

Scientists, by definition, “do” science, but do they control it? This provocative discussion will examine the controls exerted on science at every level. Who controls what science is funded and what isn't? Why are billions spent on fashionable areas such as genomics and only a fraction of this on diseases that affect the developing world? Who controls what science is used for? Are there any hidden agendas? Are corporate companies driven by greed over curiosity? Do governments make informed choices? Are the processes transparent? Should the public have a say? Indeed, should science be controlled at all, and if so, by whom?

Session Chair:

Pallab Ghosh, BBC, UK

Speaker/s:

Antonio Coutinho, Instituto Gulbenkian de Ciencia, Portugal

Claudio Scazzocchio, Inst. de Génétique et Microbiologie, France

Clive Ballard, Alzheimer's Society, King's College London, UK

Michel Friedlander, Altran, France

Robert Terry, The Wellcome Trust, UK

## More women PhDs in science and engineering in Europe?

**Organiser:** Yolanda S. George, American Association for the Advancement of Science, Directorate for Education and Human Resources Program, USA

Friday 27 August

14:45-17:45

Norra Latin Room 361

Despite the dramatic growth of the number of women doctorates in science and engineering, in Europe and the USA, governments are concerned about: (1) the declining number of female science and engineering undergraduates; and (2) the paucity of women professors in science and engineering, and in industrial research. European and USA presenters will describe positive actions and concerns as they move forward to increase the participation of women in the science and engineering PhD workforce.

Speaker/s:

Pierre Bismuth, Schlumberger Ltd., Paris, France

*Women in industrial research: a wake-up call*

Teresa Rees, School of Social Sciences, Cardiff Univ. Wales, UK

*National policies on women and science in Europe*

Wanda Ward, National Science Foundation, Directorate for Social, Behavioral & Economic Sciences, Arlington, USA

*Overview and results of the NSF ADVANCE program*

Anders Flodstrom, Kungl Tekniska Högskolan (KTH), Stockholm, Sweden

*KTH response to increasing the number of women*

Denise Denton, College of Engineering, Univ. of Washington, USA

*The University of Washington NSF ADVANCE program*

Shirley Malcom, American Association for the Advancement of Science (AAAS), Directorate for Education and Human Resources Programs, USA

*Lessons that the EU & US can learn from each other*

## Scientific citizenship and the European construction

**Organiser: Georges Waysand**, Universités Paris 6 and Paris 7, France

Friday 27 August

14:45-17:45  
Norra Latin Room 461

Lack of citizenship is the ordinary lot of scientists in today's Europe. Expertise, even when it is independent, cannot replace good citizenship and explicit political debate. The sciences should continue to be means for the critical examination of reality, a role made even more important in rapidly changing societies like ours. What input should scientists have in the European constitution?

Speaker/s:

George Waysand, CNRS and Universités de Paris 6 & 7, France; "Initiative Citoyens en Europe"

*Scientists and European Construction - not only a bartering for credit and jobs*

Peter Tindemans, Euroscience Governing Board, the Netherlands  
*Scientific Research and the European Constitutional Treaty*

Martin Andler, Université Versailles St Quentin en Yvelines, France  
*Elements of analysis of Sauvons la Recherche and its European perspective*

Nicole Dewandre, "Scientific advice and governance"; DG RTD, European Commission, Brussels, Belgium

*Science and Society Actions for the European Research Area*

Ray Ison, Open Systems Research Group, Open University London, UK

*Participatory Decision Making in Science and Technology*

Osmo Pekonen, Agora Centre, University of Jyväskylä, Finland  
*Building the Basics of Scientific Citizenship: the Finnish Experience*

José M. Gago, University of Lisbon, Portugal

*Scientific Citizenship and the Initiative for Science in Europe*

## European science policy in a global context

**Organiser: Frédéric Sgard**, OECD Global Science Forum, France

Saturday 28 August

09:30-12:30  
Norra Latin Room 357

Will Europe's goal of becoming "the most competitive and dynamic knowledge-based economy in the world" constrain collaborations between European scientists and those of other parts of the world? Are efforts towards strengthening and integrating European science compatible with the increasing globalisation of science? Is Europe talking enough with its other partners when planning for increasingly expensive large research projects or infrastructures? European laboratories and research organisations are more and more invited to participate in international research projects. This can raise many issues for governments and scientific organisations willing to undertake worldwide scientific co-operation dealing with large infrastructures, database networks or integrated projects. Indeed, scientific partners outside the European Union are faced with the complex situation of having both national and European institutions as potential interlocutors. This symposium addresses the problem of the mechanisms of co-operation needed for developing international scientific projects between Europe and the rest of the world. This issue is of growing interest in a context of increasing European integration.

Session Chair:

Hans Chang, European Strategic Forum on Research Infrastructures (ESFRI)

Speaker/s:

Judy Franz, American Physical Society, USA, and Kiyoshi Kurokawa, Science Council of Japan, Japan

*How can European initiatives for major new undertakings be co-ordinated with those of other major regions of the world; is there a risk of missed opportunities or duplications of effort through insufficient co-operation? Can funding agencies (regional and national) better collaborate in support of planning and coordination of major international research programmes?*

Khotso Mokhele, National Research Foundation, South Africa  
*What are the problems faced by developing countries in developing true partnerships through collaboration with European scientists within major international programmes?*

Carlo Heip, Centre for Estuarine and Marine Ecology, The Netherlands, and Ian Corbett, European Southern Observatory, Germany

*How can Europe's national governments or agencies co-ordinate their policies and strategies as new international collaborative programmes develop? How do they need to evolve as Europe moves towards more internal integration?*

Robert-Jan Smits, European Commission, Directorate-General for Research, Belgium

*What is the role of the European Commission and of other European institutions and bodies in the coordination of international projects?*

## Is basic research a luxury or a necessity for the European economy?

**Organiser: Luc van Dyck**, European Life Sciences Forum ELSF, Germany

Saturday 28 August

14:45-16:15  
Norra Latin Aulan

In January 2000, the European Commissioner for Research, Philippe Busquin, launched the concept of a European Research Area (ERA) with the aim of combating the fragmentation of research efforts in Europe. This strategy was later perceived as an essential element to achieve the goal set at the Lisbon summit (2000) by the European Heads of States and Governments to turn the European Union (EU) into the most advanced knowledge-based economy in the world by 2010. To reinforce this objective, the European Heads of States and Governments pledged at the Barcelona summit (2002) to spend 3% of the gross domestic product (GDP) on research and technology development, also by 2010.

Basic research is a key component of innovation: Without the knowledge generated through basic research, there cannot be applied research. For many years, however, the EU, through the Framework Programmes of the Commission, focused primarily on targeted research, followed in this by many European governments. Only recently has the need to support basic research in a more substantial and coordinated manner been recognized at the political level in Europe.

In this session, two prominent economists and a representative from the private sector will discuss the need and economic justification of the investments in basic research in Europe. Philippe Aghion, Professor at the University of Harvard and one of the authors of the famous Sapir report ("AN AGENDA FOR A GROWING EUROPE - Making the EU Economic System Deliver") will illustrate the role of basic research and higher education in economic growth.

Professor Mathias Dewatripont, from the European Center for Advanced Research in Economics, will argue that investments in and execution of basic research in Europe are good for Europe, notably by comparing the strategies of imitation versus the strategies of innovation as driving forces of economic progress. Finally, Dr de Chaffoy de Courcelles, Senior Vice President with Johnson & Johnson Pharmaceutical R&D, will present the point of view of a business leader. In the USA it is common to hear from business leaders that, in their opinion, the financial effort of the public authorities should concentrate on basic research, or more generally, on the kind of research that would not be provided by the market and that has a potential for large, positive spillover, over the different sectors of the economy. Should it be different in Europe?

Moderator:

Andreu Mas-Colell, Universidad Pompeu Fabra, Spain

Speaker/s:

Philippe Aghion, Harvard University, Cambridge, USA

*Why foster basic research in Europe? Imitation versus innovation or basic research as an engine for Europe's progress*

Mathias Dewatripont, European Centre for Advanced Research in Economics, Brussels, Belgium

*The role of basic research and higher education in economic growth*

Didier de Chaffoy de Courcelles, Johnson & Johnson Pharmaceutical R&D, Belgium

*Basic research in Europe: the point of view of an industry leader*

## Is there a gender bias in scientific excellence?

**Organiser:** Rainer Gerold, Women and Science Unit, DG Research, European Commission, Belgium

Saturday 28 August

14:45-16:15  
Norra Latin Room 357

The promotion of gender equality in science is a vital part of the European Union's research policy. Despite increased numbers of women scientists in European public research, it remains important for the success of European research to correct the gender imbalance in science. Women represent a valuable share of Europe's pool of trained scientists. They need to regard science as a rewarding career. There will be a report on the outcome of the seminar entitled 'Minimising gender bias in the definition and measurement of scientific excellence' held at the European University Institute in Florence in October 2003. How does one define and measure scientific excellence? Are the achievements of women and men scientists assessed on the same basis? Will there ever be a research environment free of gender bias?

Moderator:

Sylvie Coyaud, Italy

Speaker/s:

Margo Brouns, Centre for Gender Studies, University of Groningen, The Netherlands

*Gendered meritocracy - gender bias in the construction of scientific quality*

Agnès Wold, Institut för Klinisk Immunology, University of Göteborg, Sweden

Flora de Pablo, Centro de Investigaciones Biológicas, SCIC, Spain

*Women scientists of the CSIC: steps and rhythm*

## Can Europe become a knowledge-based society without a new support mechanism for basic research? Potential roles of the European Research Council (ERC)

**Organiser:** Luc van Dyck, ELSF, Germany

Saturday 28 August

16:15-17:45  
Norra Latin Aulan

The establishment of a European Research Council (ERC) is a major science policy issue in Europe. The aim is to create a new instrument to foster and fund basic research of the highest quality in all scientific disciplines, including the social sciences and the humanities, at the European level. During the last months, notably thanks to the efforts of the scientific community, progress towards establishing an ERC has been remarkable: The project is now being discussed at the highest political level in Europe. In March 2004, the European Council, the Heads of States and Governments, announced that enhanced support for basic research of the highest quality and the case for specific funding, including the possibility of setting up a Research Council, will be examined. The European Commission is now preparing concrete proposals for the establishment of an ERC. The aim of the session is to discuss the reasons for establishing an ERC, the general principles that should govern its actions and the various possible missions of this Council. The session will also allow discussion of the current plans of the European Commission, which will establish and fund the ERC, and the role and expectations of the scientific community.

Moderator:

Frank Gannon, EMBO, Germany

Speaker/s:

Bertil Andersson, European Science Foundation, Strasbourg, France

*A perspective from the scientific community: the Initiative for Science in Europe (ISE)*

Jean-Patrick Connerade, Imperial College, London, UK

*The European Research Council: where do we come from, where do we stand?*

Robert-Jan Smits, DG Research, European Commission, Brussels, Belgium

*Proposals and role of the European Commission*

Tim Hunt, Cancer Research UK, London, UK

*The European Research Council: the view of a scientist*

## Are scientists allowed to have children?

**Organiser:** Rainer Gerold, Women and Science Unit, DG Research, European Commission, Belgium

Saturday 28 August

16:15-17:45  
Norra Latin Room 357

Are scientists allowed to have children? This session will examine the difficulties that scientists face in combining career and family responsibilities. It will look at whether family situation impacts differently on men and women researchers, and in particular whether children constitute an obstacle to career progression for women scientists and engineers.

Moderator:

Sylvie Coyaud, Italy

Speaker/s:

Maca Jogan, University of Ljubljana, Slovenia



## **Marie Curie Fellowship Association - MCFA**

Friday 27 August	09:30-17:45
Saturday 28 August	09:30-17:45
	Folkets Hus

- Special session:  
Governance of Young Scientist Associations.....CP3
- Mobility Symposium:  
Mobility of Researchers in Europe and Beyond...CP3
- Careers Workshop:  
Scientific Careers in Europe .....CP4

## **Nature Jobs**

Thursday 26 August	09:30-17:00
	Folkets Hus

- Career Talks .....CP6
- Career Workshops .....CP6

The ESOF2004 Career Programme wishes to contribute to the successful career development of young researchers. The emerging labour market of the European Research Area requires the adequate adaptation of research training to include mobility and appropriate mentoring schemes, along with the necessary transferable skills in order to be prepared for new employment opportunities.

# Stifterverband für die Deutsche Wissenschaft

# Siemens<sup>1</sup>

# Heisenberg<sup>2</sup>

# The Federal President<sup>3</sup>

## What do these public figures have in common?

### Contact at the conference

Dr. Angela Lindner  
Dr. Ekkehard Winter  
or our conference stand

Stifterverband für die Deutsche Wissenschaft  
Barkhovenaallee 1 • D-45239 Essen  
Tel: +49 (0) 201 8401 158  
Fax: +49 (0) 201 8401 459  
stifterverband@stifterverband.de  
www.stifterverband.de

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people who foster Higher Educa-  
tion and research in Germany!**

this day, supporting academic new blood and modernising Germany's higher education system has been a key remit of the Stifterverband. The organisation enjoys the privilege of promoting ideas and research furthering the higher education and research system as a private sponsor operating in an unbureaucratic manner and independently of government requirements.

<sup>1</sup> Ever since the Federal Republic of Germany was founded, the Federal President of Germany has been the Stifterverband's patron, symbolising politics, the third partner of the Stifterverband, as a networking agency. The Stifterverband's strength and role lies in its ability to bring politics, science and industry together to work out ways of maintaining and enhancing Germany's competitiveness in education and research at international level.

<sup>2</sup> Werner Karl Heisenberg founded quantum mechanics in 1925, when he was also a Stifterverband research fellow. Heisenberg was awarded the Nobel Prize for Physics in 1932 in recognition of this pioneering work. Up to

<sup>3</sup> Carl Friedrich von Siemens was the Stifterverband's first President, from 1920 to 1934. Germany's leading enterprises set up the Stifterverband at the time to promote German science and education. This joint venture, which is unique world-wide, has since set many incentives with its annual donations, reaching a volume of over 30 million euros in 2003. In addition, it has been supported by several private persons who have started their own private foundations (360 in 2003) to foster science and education. In 2003, their effort totalled around 1,4 billion euros in assets.

**Reply: their engagement in the Stifterverband**





### **The Marie Curie Fellowship Association (MCFA)**

is the organisation of researchers who have been awarded a Community Research Training Grant involving mobility. It unites more than 3,000 mobile researchers all over Europe and beyond, giving them a voice in science policy debates and providing a highly interdisciplinary network for scientific exchange and collaboration.

The aim of the Mobility Symposium is to bring together the different stakeholders involved in international scientific mobility, to exchange experiences, identify obstacles and propose ways to overcome them.

The Careers Workshop will offer the opportunity to discuss a number of key questions in relation to the career prospects of young scientists in Europe, to identify elements that have a negative bearing on the attractiveness of scientific careers, to find ways to eliminate such problems and to show up examples of best practice.

The MCFA's contribution to the ESOF Career Programme is supported by the European Commission, the Stifterverband für die deutsche Wissenschaft and UNESCO's Regional Office for Science and Technology in Europe (ROSTE).

## **Governance of Young Scientists Associations**

Coordinators:

**Marta Maczel**, Interim President of the World Academy of Young Scientists

**Christine Heller del Riego**, Euroscience & MCFA

**Peter Kerey**, WAYS - World Academy of Young Scientists

Friday 27 August

09:30-11:00

Folkets Hus, 2nd floor, 203

In 1999, the UNESCO-ICSU World Conference on Science called for measures to enhance the involvement of young scientists in the science policy-making process. An important outcome of the recent World Forum on Science (Budapest 2003) was a new commitment from UNESCO to support the permanent structure for young scientists that has been renamed: WAYS (World Academy of Young Scientists). This workshop will give young scientists the chance to debate various aspects of the structure and central activities of WAYS, establish new forms of collaboration and partnership, and exchange visions of how to effectively include young scientists in the making of S&T policy.

Speakers:

Howard Moore, Director of UNESCO-ROSTE

*Making links: towards a global network of young scientists*

Martin Naef, ETH, Zurich

*What it takes to be a successful organisation*

Peter Kerey, WAYS

*The World Academy of Young Scientists*

Discussants:

Jana Ivanidze, Medical Faculty, University of Munich

Maria Harsanyi, WAYS - World Academy of Young Scientists

Magda Lola, MCFA Administrative Board, Co-ordinator of the MCFA Science Policy Panel (rapporteur)

## **Mobility Symposium**

### **Mobility of Early Stage Researchers in Europe**

Coordinators:

**Toni Gabaldon**, Eurodoc, Coordinator of Eurodoc's Mobility workgroup

**Sandra Bitusikova**, European University Association

Friday 27 August

09:30-11:00

Folkets Hus, 2nd floor, 204

Session organised jointly with the European University Association

Speakers:

Lesley Wilson, Secretary General, European University Association

Elfriede Penz, International Marketing and Management,

University of Economics and Business Administration, Vienna

Lluisa Romanillos Redondo, Head of the Academic Staff Mobility Office, Universitat Politècnica de Catalunya, Barcelona

Discussants:

Kaili Kaseorg, Tartu University, Centre of Molecular and Clinical Medicine

Patricia Arsene, Associate Professor, University Politehnica of Bucharest, and Head of Science Policy and Scientometrics

Department, Executive Agency for Higher Education and Research Funding, Romania

## The Special Situation of Young Researchers in Central and Eastern Europe

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Coordinators:

**Piotr Swiatek**, ESF Cost Office, Brussels  
**Snezana Krstic**, University of Belgrade/ Eurodoc's Mobility workgroup

Friday 27 August 11:00-12:30  
Folkets Hus, 2nd floor, 204

Speakers:

Crina Cismas, Project Manager, Ad Astra, the Romanian Young Researcher Association  
Marie-Claude Rolland, Coordinator of the Young Researchers' Training Programme, INRA, Paris  
Irena Kuzmanoska, Specialist in Education Issues/Consultant, Macedonia

Discussants:

Jerzy Langer, Polish Academy of Sciences, Honorary Vice-President of Euroscience  
Christina Vidinova, Military Medical Academy Sofia, MCFA Advisory Board

## Mobility beyond Europe: Mobility seen in a global context

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Coordinators:

**Fiona Wood**, ARMS - Australasian Research Management Society  
**Dagmar Meyer**, MCFA Chair

Friday 27 August 14:45-16:15  
Folkets Hus, 2nd floor, 203 & 204

Speakers:

Fiona Wood, ARMS - Australian Research Management Society  
Sami Mahroum, Department of Technology Policy, Systems Research GmbH, Austrian Research Centres  
Ma Li, Linköping University, Interim Chairperson of the JSPS Alumni Club in Sweden

Discussants:

Maresi Nerad, CIRGE/University of Washington  
Sieglinde Gruber, Policy Officer, European Commission, DG Research

## Return and reintegration of mobile researchers

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Coordinators:

**Bryony Gill**, Centre for the Study of Law and Policy in Europe, Leeds University, UK  
**Jaroslav Mysiak**, MCFA Administrative Board

Friday 27 August 16:15-17:45  
Folkets Hus, 2nd floor, 203 & 204

Speakers:

Bryony Gill, Centre for the Study of Law and Policy in Europe, Leeds University, UK  
Francesco Pavani, Dipartimento di Scienze della Cognizione e della Formazione, Università degli Studi di Trento  
Nicolina Sretenova, Department for Philosophy of Science, Institute for Philosophical Research, Bulgarian Academy of Sciences

Discussants:

Juan de la Figuera, Universidad Autónoma de Madrid, President of the National Association of Ramon y Cajal Researchers in Spain  
Louise Ackers, Director of the Centre for the Study of Law and Policy in Europe, Leeds University, UK

## Careers Workshop

### From slaves to masters - the long and winding road to independence

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Coordinators:

**Toni Gabaldon**, Eurodoc, Coordinator of Eurodoc's Mobility workgroup  
**Janet Metcalfe**, Director UK Grad Programme

Saturday 28 August 09:30-11:00  
Folkets Hus, 2nd floor, 203

Speakers:

Martin Andler, Directeur du département de mathématiques, Université de Versailles, Saint-Quentin, and "Sauvons la Recherche"  
Toni Gabaldon, Eurodoc, Coordinator of Eurodoc's Mobility workgroup  
Eric R. Weinstein, Director of Quantitative Research, Strativarius Capital Management, New York

Discussants:

Mihaela Gheorghiu, Project leader, International Center for Biodynamics, Bucharest  
Ma Li, Linköping University, Interim chairperson of the JSPS Alumni Club in Sweden

### A European employment market for researchers: challenges and opportunities

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Coordinators:

**Dagmar M. Meyer**, MCFA Chair  
**Magda Lola**, MCFA Administrative Board, Co-ordinator of the MCFA Science Policy Panel

Saturday 28 August 09:30-11:00  
Folkets Hus, 2nd floor, 204

Speakers:

Sieglinde Gruber, Policy Officer, European Commission, DG Research  
Jerzy Langer, Polish Academy of Sciences, Honorary Vice-President of Euroscience  
Tom Casey, Director of CIRCA Group Europe Ltd., Ireland

Discussants:

Sami Mahroum, Department of Technology Policy, Systems Research GmbH, Austrian Research Centres  
Alexandra Oltean, CERN/University Polytechnica of Bucharest

## **The role of mentoring and networking for the development of a scientific career**

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Coordinators:

**Marta Maczel**, Interim President, World Academy of Young Scientists

**Seema Sharma**, European Programme Director, Science's NextWave

Saturday 28 August 11:00-12:30  
Folkets Hus, 2nd floor, 204

Speakers:

Frank Gannon, EMBO, Managing Director

Dick Van Vlooten, Freelance networking consultant

Marie Wahren-Herlenius, Chairperson of the Junior Faculty Steering Group, Karolinska Institutet

Discussants:

Livia Mészáros, Head of the foreign section of the Hungarian Research Student Association

Marie-Claude Rolland, Coordinator of the Young Researchers' Training Programme, INRA Paris

## **Trends in European career systems - how much flexibility do we need, how much insecurity can we accept?**

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Coordinators:

**Magda Lola**, MCFA Administrative Board

**Dagmar M. Meyer**, MCFA Chair

Saturday 28 August 11:00-12:30  
Folkets Hus, 2nd floor, 203

Speakers:

Juan de la Figuera, Universidad Autónoma de Madrid, President of the National Association of Ramon y Cajal Researchers in Spain

Christoph Bargholtz, President of SULF - Swedish University Teachers Union

Patricia Arsene, Associate Professor, University Politehnica of Bucharest, and Head of Science Policy and Scientometrics Department, Executive Agency for Higher Education and Research Funding, Romania

Discussants:

Magda Lola, MCFA Administrative Board, Co-ordinator of the MCFA Science Policy Panel

Andrej Mirossay, Safarik University, Kosice, Slovak Republic

## **Intersectoral mobility - a one-way street? Myths and reality**

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Coordinators

**Dagmar M. Meyer**, MCFA Chair

**Marie-Gabrielle Schweighofer**, Director of Association Bernard Gregory

Saturday 28 August 14:45-16:15  
Folkets Hus, 2nd floor, 203

Speakers:

Jens Degett, Head of Communication and Information Unit, European Science Foundation

Frank Heemskerk, President of EARMA - European Association of Research Managers and Administrators

Marie-Gabrielle Schweighofer, Director of the Association Bernard Gregory

Discussants:

Ivan Montanari, MCFA Administrative Board, Career Development Committee

Sanin Hasibovic, Project Coordinator for Bosnia and Herzegovina, South-East Europe Association, Berlin

## **"Family life" and "research career" - a contradiction in terms?**

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Coordinators:

**Dagmar M. Meyer**, MCFA Chair

**Maresi Nerad**, CIRGE/University of Washington

Saturday 28 August 14:45-16:15  
Folkets Hus, 2nd floor, 204

Speakers:

Maresi Nerad, CIRGE/University of Washington

Louise Ackers, Director, Centre for the Study of Law and Policy in Europe, Leeds University, UK

Ragnhild Sohlberg, Vice President, Norsk Hydro ASA, Norway and Joint Chair of the EU High Level Expert Group on Women in Industrial Research (WIR)

Discussants:

Bryony Gill, Centre for the Study of Law and Policy in Europe, Leeds University, UK

Francesco Pavani, Dipartimento di Scienze della Cognizione e della Formazione, Università degli Studi di Trento

## **Plenary Session**

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Coordinators:

**Christine Heller del Riego**, Euroscience & MCFA

**Dagmar M. Meyer**, MCFA Chair

Saturday 28 August 16:15-17:45  
Folkets Hus, 2nd floor, 203 & 204

The Careers Workshop ends with a common session in which the rapporteurs of the parallel sessions will give short summaries of what has been said. Preliminary conclusions from the sessions will be drawn and first recommendations to stakeholders will be made.

Speakers:

Sami Mahroum, Department of Technology Policy, Systems Research GmbH, Austrian Research Centres

Janet Metcalfe, Director UK Grad programme

Marie-Claude Rolland, Coordinator of the Young Researchers' Training Programme, INRA Paris

Fiona Wood, ARMS - Australasian Research Management Society

Nikolina Sretenova, Department for Philosophy of Science, Institute for Philosophical Research, Bulgarian Academy of Sciences

Dusan Pestotnik, Marie Curie Research Fellow at Siemens AG, Germany

## Naturejobs

is the career resource of the leading weekly multidisciplinary science journal Nature. In print and free online we provide scientists with articles, tools and the top jobs. Each week the Naturejobs editors investigate the dynamic landscape of science with articles covering vocational issues from undergraduate onwards.

Through our global network of scientists we are also able to provide seminars with talks given by very high achievers within the world of academic and industry science. The Naturejobs Career Talks are insightful and aspirational and will help to give you important clues about your career path options.

## Naturejobs Career Talks

Thursday 26 August

09:30-17:00

Folkets Hus, 2nd floor, 203

Naturejobs brings together very high achievers from the world of academic and industry science. Speakers are invited because there is a lot that can be learned from their personal career path and achievements, not to mention interesting twists and turns they may have taken to reach their current position. These talks always prove to be both insightful and inspirational. Attendees have the opportunity to listen and then ask questions and discuss matters directly with the speakers.

### Speakers:

Harriet Wallberg-Henriksson, Karolinska Institute, Sweden

Time: 09:30-10:00

Lars Samuelson, Dpt. of Physics, Lund University, Sweden

Time: 10:30-11:00

Jon Storm- Mathisen, Oslo University, The Centre for Molecular Biology and Neuroscience, Norway

Time: 11:15-11:45

Sanna Johansson, Life Sciences Associations (Naturvetareförbundet), Sweden

Time: 12:00-12:30

Kristian Hellin, Biotech Research & Innovation Centre, Denmark

Time: 13:00-13:30

Tristan Rouselle, Protein'eXpert SA, France

Time: 14:00-14:30

## Naturejobs Career Workshops: Personal Career Advice

Thursday 26 August

10:00-17:00

Folkets Hus, 2nd Floor, 201

We are able to bring to you a Career Advisor who can offer you hands-on help with the areas that directly impact on a young scientist's ability to get the job you want. Areas covered include: careers advice, CV creation and interviewing techniques. A full day's worth of hands-on help awaits you.

Set-up: 15 minute one-to-one advice. 10 slots available. Prebooking essential. Please contact [salesupport@nature.com](mailto:salesupport@nature.com)

Career Adviser: Elisabeth Engdahl Linder, Life Sciences Association (Naturvetareförbundet) Representative, Sweden

[www.naturvetareforbundet.se](http://www.naturvetareforbundet.se)



For most updated programme please see  
[www.esof2004.org](http://www.esof2004.org)

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[www.naturejobs.com/channels/graduate](http://www.naturejobs.com/channels/graduate)



# theXchange

The British Association is the UK's nationwide, open membership organisation dedicated to connecting science with people, so that science and its applications become accessible to all. The BA aims to promote openness about science in society and to engage and inspire people directly with science and technology and their implications.

## Join us

in a review of the day's events and have your say at the x-change.

Unwind, have a drink and explore the 'best of the fest'. BBC broadcaster **Quentin Cooper** is the host who will help you get your teeth into the hottest topics and issues that science is currently raising.

### ***Norra Latin, the café, level 2***

Thursday	26 August	18:00 -19:00
Friday	27 August	18:00 -18:45
Saturday	28 August	18:00 -19:00

### **Organiser/contact:**

**Fiona Barbagallo**, British Association, UK

Co-organiser: **Annette Smith** British Association, UK

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## Dates

25 – 28 August 2004

## Exhibition Hours

<b>Wednesday</b>	25 August
12:00 – 18:30	Folkets Hus and Norra Latin
<b>Thursday</b>	26 August
09:00 – 18:30	Folkets Hus and Norra Latin
<b>Friday</b>	27 August
09:00 – 18:30	Folkets Hus and Norra Latin
<b>Saturday</b>	28 August
09:00 – 14:00	Folkets Hus and Norra Latin

AlphaGalileo .....	Ex3
Altran Foundation for Innovation .....	Ex3
Asia-Europe Foundation (ASEF) .....	Ex3
Bio-Rad Biotechnology Explorer Programme .....	Ex3
Canadian Embassy .....	Ex3
CASCADE Network of Excellence .....	Ex3
CERN .....	Ex4
CORDIS .....	Ex4
COST .....	Ex4
EIROforum .....	Ex4
EUREKA .....	Ex4
EurekAlert! .....	Ex4
Euroscience .....	Ex5
EUSCEA .....	Ex5
EUSJA .....	Ex5
FAS .....	Ex5
Formas .....	Ex5
From Cloud Chambers to Linear Accelerators: Tracking Down the Origin of Matter (ECFA) .....	Ex6
German Academic Exchange Service .....	Ex6
IBERDROLA .....	Ex6
Japan Society for the Promotion of Science (JSPS).....	Ex6
Johnson & Johnson .....	Ex6
Karolinska Institutet.....	Ex7
Nature Publishing Group .....	Ex7
Nobelprize.org .....	Ex7
Robert Bosch Stiftung GmbH .....	Ex7
Science/AAAS .....	Ex7
Stifterverband .....	Ex7
Stockholm Economic Development Agency.....	Ex8
Swedish Association of Scientists .....	Ex8
Swedish Rescue Services Agency (SRSA) .....	Ex8
Swedish Research Council .....	Ex8
The Bank of Sweden Tercentenary Foundation .....	Ex8
The European Commission Directorate-General for Research .....	Ex8
The European Commission's Joint Research Centre .....	Ex9
The European Science Foundation.....	Ex9
The Swedish Space Corporation.....	Ex9
To watch the Olympic Games .....	Ex9
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## AlphaGalileo

Peter Green, AlphaGalileo, UK

Folkets Hus #6

AlphaGalileo is the world's leading source of European research news. AlphaGalileo carries news releases, broadcast resource information, book announcements and events from all the leading European research bodies including CERN, the European Commission, the European Space Agency, the Lancet, CNRS and major universities. Journalists who use us include staff from all the major international broadcast, print and online media.

We operate around the clock so your releases will be working for you 24 hours a day, 365 days of the year. Images, videos and pdfs of journal articles can be added to all releases. Press officers can receive alerts keeping them up to date with research news.

<http://www.alphagalileo.org>

## Altran Foundation for Innovation

Matthieu de Broca, Altran Foundation for Innovation, France

Norra Latin #4

Created in 1996, the Altran Foundation for Innovation promotes technological innovations for human benefit. The Altran Foundation Award is presented every year in different fields of application: health, water quality, early childhood, etc. The distinctive feature of this award is that it consists of one year's technological consulting from Altran, European leader in innovation consultancy. The value of this support is worth one million euros. The 2004 Theme was "Discovering, understanding and enjoying science through innovation". For 2005, the topic is "Technological innovation and integration".

<http://www.fondation-altran.org>

## ASEF (Asia-Europe Foundation)

Bertrand Fort, Asia-Europe Foundation, Singapore

Norra Latin #2

The Asia-Europe Foundation(ASEF) seeks to promote better mutual understanding between the peoples of Asia and Europe through greater intellectual, cultural and people-to-people exchanges. Established in 1997 by the Asia-Europe Meeting (ASEM), ASEF is based in Singapore and reports to a board of 26 governors representing the ASEM members - currently the 15 European Union countries (prior to enlargement in May 2004), Brunei, China, Indonesia, Japan, Korea, Malaysia, Philippines, Singapore, Thailand, Vietnam and the European Commission. ASEF's activities include conferences, conventions, round-table discussions, symposia, seminars, public lectures, youth camps, performances and exhibitions.

<http://www.asef.org>

## Bio-Rad Biotechnology Explorer Programme

Dominic Delaney, Biotechnology Explorer Programme, Bio-Rad Laboratories Ltd, UK

Norra Latin #10

Bio-Rad's Biotechnology Explorer Programme offers classroom lab kits, research-quality equipment, curricula and teacher-training workshops. We aim to enable educators in schools, colleges, universities and science centres to connect science in the classroom to topical issues in the real world. Our classroom kits cover such topics as DNA fingerprinting, pGLO bacterial transformation, ELISA, PCR and DNA isolation.

Visit our stand to discuss the programme, to see our latest products, to collect a FREE poster and to enter our FREE competition to win a biotechnology kit!

<http://www.explorer.bio-rad.com>

## Canadian Embassy

Caroline Hallmans, Canadian Embassy, Commercial Section, Stockholm, Sweden

Norra Latin #1

Canada's 2002 Innovation Strategy aims to place Canada amongst the world's most innovative countries by 2010. R&D founded on partnerships, networks and excellence underpins Canada's innovation system: in government, universities and industry. International partnerships are crucial. Canada, a multicultural country, knows how to bridge cultures and distances to make productive partnerships happen. Some 35% of Canada's international R&D collaborations involve Europeans. As of April 2004, 284 Canadians were involved in EU Framework Program 6 proposals. Opportunities for collaboration abound.

<http://www.canadaemb.se>

## CASCADE Network of Excellence

Pi Högborg, Karolinska Institutet, Inst. för Biovetenskaper vid NOVUM, Sweden

Norra Latin #9

CASCADE, funded by the EU Framework Programme 6 and established in 2004, provides Europeans with an independent network of excellence regarding the health effects of chemical contaminants in food. Its aim is not only to fill gaps in scientific knowledge, but also to promote awareness and healthy decision-making among consumers. CASCADE activities include research from the best European research centres in the field, innovative training programmes and courses, communication with the general public, and reliable risk assessment for legislators concerning food-borne contaminants.

<http://www.cascadenet.org>

## **CERN (The European Organization for Nuclear Research)**

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**Ray Lewis**, CERN, Switzerland

Folkets Hus #14

CERN, the European Organization for Nuclear Research, uses the world's largest and most complex scientific instruments to study the basic constituents of matter – the fundamental particles. CERN was founded in 1954 as one of Europe's first joint ventures, bringing specialists from 12 member states together to pursue a common dream. Established on the Franco-Swiss border near Geneva, CERN has become a prime example of successful international collaboration. It currently has 20 member states, and other nations from around the globe contribute to and participate in its research.

<http://www.cern.ch>

## **CORDIS**

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**Virginia Mercouri**, CORDIS, Luxembourg

Folkets Hus, Exhibition Hall A #2

The official EU R&D and innovation portal, CORDIS is an interactive website promoting participation in EU R&D programmes, and facilitating the uptake of European research results. A central information resource, with in-depth news on European, national and regional R&D activities, CORDIS facilitates access to EU research funding and to exploitable technologies emerging from EU and national projects. Connecting researchers, policy makers, managers of EU R&D activities, and innovation stakeholders, CORDIS is the ultimate reference source for anyone interested in research in the EU and beyond.

<http://www.cordis.lu>

## **COST**

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**Gabi Egartner**, COST Office, Belgium

Folkets Hus #17

COST was founded in 1971 and is an intergovernmental framework for European Co-operation in the field of Scientific and Technical Research.

COST has 34 member countries. Its goal is to ensure that Europe holds a strong position in the field of scientific and technical research for peaceful purposes, by increasing European co-operation and interaction in this field.

COST has clearly shown its strength in non-competitive research, in pre-normative co-operation and in solving environmental and cross-border problems and problems of public utility. It has been successfully used to maximise European synergy and added value in research co-operation and it is a useful tool to further European integration.

<http://cost.cordis.lu>

## **EIROforum**

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**Ray Lewis**, EIROforum, Germany

Norra Latin #7

EIROforum is a collaboration between the seven European intergovernmental scientific research organisations: CERN, EFDA, EMBL, ESA, ESO, ESRF and ILL. Operating some of the world's largest research infrastructures, the seven member organisations constitute the vanguard of European science, enabling scientists to engage in cutting-edge research and to compete on a global scale. By mobilising its substantial combined expertise in research and management of large international infrastructures, facilities and programmes, EIROforum plays an active role in promoting the quality and impact of European research for the benefit of the European societies. It plays a vital role in forging the European Research Area.

<http://www.eiroforum.org>

## **EUREKA**

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**Christine Simone**, EUREKA Secretariat, Belgium

Folkets Hus #18

Created in 1985, the EUREKA Initiative aims to enhance competitiveness through support to industry and researchers who carry out pan-European R&D projects. EUREKA facilitates access to expertise and national funding schemes – and its label gives participants an edge in their business dealings.

The EUREKA Clusters play a key role in building European competitiveness, European standards and product interoperability.

Hundreds of EUREKA projects begin each year, many by SMEs, contributing to improved well-being, greater security, care of the environment and increased employment opportunities.

EUREKA complements the EU Framework Programme in working towards the European objective of raising investment in R&D to 3% of GDP by 2010.

<http://www.eureka.be>

## **EurekAlert!**

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**Cathy O'Malley**, EurekAlert!, American Association for the Advancement of Science, USA

Folkets Hus #1

EurekAlert!, [www.eurekalert.org](http://www.eurekalert.org), is an online news service focused on science, health and technology. Launched in 1996 by AAAS, The American Association for the Advancement of Science, EurekAlert! disseminates news from the world's leading research organisations to over 4,600 reporters representing 50 countries. EurekAlert!'s content is also freely available to scientists, educators, students and others interested in science.

<http://www.eurekalert.org>



## Euroscience

**Benedikt Hoffmann**, Euroscience, France

Folkets Hus #19

EUROSCIENCE - "The Voice of Science in Europe" is a grass-roots organisation that represents scientists of all disciplines, universities, research institutes, industry, etc. and anyone interested in the impact of science and technology in Europe.

Euroscience currently has more than 1,800 individual members in 40 European countries, plus corporate members (CERN, ESA, ESF, etc.) Euroscience's main goals are:

- to influence science and technology policies in Europe
- to strengthen the links between science and society
- to contribute to the integration of European science
- to provide an open forum for debate on science and technology

That is why Euroscience has launched EuroScience Open Forum 2004, the first pan-European scientific meeting!

<http://www.euroscience.org>

## EUSCEA (European Science Events Association)

**Jan Riise**, EUSCEA, Sweden

Folkets Hus #4

Bringing science to the public, adding the European dimension. EUSCEA, European Science Events Association, represents the growing number of science weeks and science festivals all over the continent. A science event is characterised by its concentrated period of time and the use of new and often unusual places, like cafés, shopping malls or parks. Most often, the scientists themselves participate as communicators. EUSCEA's most important activity is the annual conference, where members meet to exchange experience and ideas. More information can be found on [www.euscea.org](http://www.euscea.org).

<http://www.euscea.org>

## EUSJA

**Kaianders Sempler**, EUSJA, Sweden

Folkets Hus, Exhibition Hall A #3

Ensuring a cross flow of information on the latest scientific research; personalities and the business of journalism throughout Europe is the aim of the European Association of Science Journalists. Through study trips, exchange visits and a lively internet exchange, EUSJA represents more than 20 countries. It is playing an increasing role in decision and policy making affecting working European journalists and has an active programme which includes assisting young journalists as well as freelancers and well-established staff writers and broadcasters.

<http://www.esf.org/eusja>

## FAS (The Swedish Council for Working Life and Social Research)

**Solweig Rönström**, FAS, Sweden

Folkets Hus #12

The mission of the council is to promote the accumulation of knowledge on working life, social conditions, societal institutions and social processes through:

- promotion and support of basic and applied research
- identification of important research needs
- dialogue, dissemination of information and transfer of knowledge
- promotion of co-operation between researchers both nationally and internationally, particularly in EU programmes

FAS supports research in the following main areas:

- work and health
- work organisation
- labour market issues
- public health
- welfare and social policy
- social services and social relations

The Council has a research budget of around SEK 300 million to distribute each year.

<http://www.fas.forskning.se>

## Formas (The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning)

**Katerina Chrysogeni**, Formas - The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, Sweden

Folkets Hus #7

Formas is a national research council within the Ministry of the Environment. Formas supports basic and applied research within the areas of environment, agricultural sciences and spatial planning. Formas promotes ecologically sustainable growth and development in society, multidisciplinary and interdisciplinary research, as well as international research co-operation and the exchange of experience. The council is also responsible for information concerning research and research results.

<http://www.formas.se>

## From Cloud Chambers to Linear Accelerators: Tracking Down the Origin of Matter, ECFA (European Committee for Future Accelerators)

**Michael Kobel**, Physikalisches Institut, Universität Bonn, Germany together with **Phil Burrows** (London), **Giorgio Chiarelli** (Pisa), and **Francois le Diberder** (Paris) as coordinators of the outreach subcommittee of the European Linear Collider Steering Group (ELCSG) on behalf of the European Committee for Future Accelerators (ECFA), a peer advisory body for the planning of future particle physics machines in Europe with representatives from about 20 countries

Norra Latin #3

The field of particle physics has in recent decades achieved astonishing insights into the simplicity that belies the complexity of the micro world. Forces that govern the atomic and subatomic world have been measured, and the building blocks of matter, quarks and leptons, have been discovered. A unified model of matter and its interactions has in this way been established.

The experimental findings have been obtained with a variety of experimental techniques, ranging from cloud or bubble chambers to huge particle accelerators equipped with giant detectors. Recently, also non-accelerator astro-particle physics experiments have become increasingly important for tracking down the origin of matter.

The exhibition, which accompanies the scientific session "From Quarks to Galaxies", brings the world of accelerators and particle detectors close to the visitor. Models, original parts and hands-on objects illustrate the principles, both for particle physics research and for the application of accelerators in cancer therapy or as brilliant light sources. The exhibits span a wide range, from live images in a cloud chamber to the future linear collider project TESLA, and illustrate how particle physicists try to find answers to fundamental open questions, such as "What gives rise to the mass of particles?" or "Do all four forces of nature originate from a unified supersymmetric superforce?"

Future accelerators

<http://www.interactions.org/cms/?pid=1004987>

## German Academic Exchange Service

**Cornelia Keller**, German Academic Exchange Service, Germany

Norra Latin #6

Under the heading of "Research in Germany" the German Academic Exchange Service (DAAD) and other leading German funding and research organisations will be presented at this EuroScience Open Forum. Other organisations that will be presented include the Alexander von Humboldt Foundation (AvH), the German Research Foundation (DFG), the Fraunhofer Society (FhG), the Helmholtz Association (HFG), the Leibniz Association (WGL) and the Max-Planck-Society (MPG). Experts will present opportunities for researchers interested in enhancing their scientific experience in Germany or in getting involved in co-operative research projects with German scientists. They will also present funding instruments and exchange programmes designed to facilitate co-operation or to support scientists during a research stay in Germany.

<http://www.avh.de>

## IBERDROLA

**Miguel Ángel Sánchez Fornié**, Iberdrola, Spain

Norra Latin #11

With more than 100 years experience, Iberdrola is one of the leading private electric utilities worldwide. Its services reach 16 million customers - over nine million of them in Spain - these services being concentrated in the generation, transmission, distribution and marketing of electricity and natural gas.

<http://www.iberdrola.es/webcorp/gc/es/html/home/in>

## Japan Society for the Promotion of Science (JSPS)

**Yuriko Sawato**, JSPS, Stockholm, Sweden

Folkets Hus #15

The Japan Society for the Promotion of Science (JSPS) is an independent administrative institution, established by a national law for the purpose of contributing to the advancement of the international exchange of science. Established in 2001, the JSPS Stockholm office is one of nine overseas offices promoting international research collaboration with Japan. It helps to create and develop successful partnerships between Nordic and Baltic countries and Japan through JSPS fellowships and a series of seminars and colloquia.

<http://www.jsp-sto.com>

## Johnson & Johnson Pharmaceutical Research & Development, Division of Janssen Pharmaceutica N.V.

**Nicole Verbeeck**, Johnson & Johnson Pharmaceutical Research & Development, Beerse, Belgium

Folkets Hus, Exhibiton Hall B #1

Johnson & Johnson Pharmaceutical Research & Development (J&JPRD) is one of the fastest-growing global pharmaceutical research & development (R&D) companies and part of the world's most comprehensive and broadly based healthcare company, Johnson & Johnson. With more than 3,500 employees, our R&D reach extends to more than 70 countries worldwide. Our primary facilities include headquarters in Raritan, New Jersey and facilities in La Jolla, California, Beerse, Belgium, High Wycombe, United Kingdom, Schaffhausen, Switzerland, Spring House, Pennsylvania, Titusville, New Jersey, Toledo, Spain, and Val de Reuil, France. Our pledge is to bring to market high-value, cost effective products that treat disease and significantly improve the health and lifestyles of people worldwide. To this end, we are focused on building a robust and innovative product portfolio that comprises a strategic mix of novel targets and fast followers, in-house and in-licensed compounds, and focus on areas of traditional therapeutic strength and new and unmet medical need.

<http://www.jnjpharmarnd.com>

## **Karolinska Institutet**

**Gunhild Kullenberg**, Karolinska Institutet, Sweden

Folkets Hus #2

Karolinska Institutet is one of Europe's largest medical universities. It is also Sweden's largest centre for medical education and research, accounting for approximately 30% of medical education and 40% of the academic medical research carried out in Sweden.

Our leading research and the level of excellence at Karolinska Institutet are of the highest international standard in a number of major fields. Karolinska Institutet is like a superdynamic force-field in which excellent researchers, professors and teachers continuously attract students and capital, and where new knowledge and new research results are developed in a process that never ceases. Karolinska Institutet sets a high priority on quality and flexibility, in undergraduate teaching, postgraduate teaching and in research. Other areas given a high priority are ethics, equality, and relationships with the world around.

<http://www.ki.se>

## **Nature Publishing Group**

**Nevin Bayoumi**, Nature Publishing Group, UK

Folkets Hus #3

Nature Publishing Group combines the excellence of Nature, Nature Reviews and over 40 primary research journals, and is the world's premier resource for the basic biological and physical sciences. Nature, the flagship title, has been at the forefront of scientific publishing for over 130 years. Published weekly, it communicates the latest groundbreaking and original scientific discoveries across all disciplines.

Naturejobs is NPG's comprehensive careers resource. It offers editorial features and commentary, alongside a fully searchable database of global scientific vacancies. Visit us at:

<http://www.nature.com>

## **Nobelprize.org**

**Karin Friberg**, Nobelprize.org, Sweden

Folkets Hus #11

Nobelprize.org - the official web site of the Nobel Foundation (<http://www.nobelprize.org/>) presents information about the Nobel Prizes since 1901 in Physics, Chemistry, Physiology or Medicine, Literature, and Peace, and the Economics Prize since 1969. The site presents prize announcements, speeches, portraits/autobiographies of all Nobel Laureates, Nobel lectures, interviews, nomination database for the Medicine prize (first 50 years), articles, and other information. In the interactive educational games, visitors can actively solve problems using the work of a Nobel Prize Winner. The aim of these educational games is to stimulate an interest for science, literature and peace work, especially in young people.

<http://www.nobelprize.org>

## **Robert Bosch Stiftung GmbH, The Robert Bosch Foundation**

**Rafael Benz**, Robert Bosch Stiftung GmbH, The Robert Bosch Foundation, Germany

Folkets Hus #4

NaT-Working Natural Sciences & Technology: Networking Schools and Research The Robert Bosch Foundation has supported the networking of schools and research institutions in its programme "NaT-Working" since 2000. The aim of the programme is to increase young people's interest in science and technology and to foster their understanding of research. Partnerships between scientists and schools lead to joint projects that improve science teaching. Among the activities funded are practical activities in research labs, summer schools and workshops. The foundation has granted over EUR 3 million to over 60 regional "NaT-Working"-networks in Germany.

<http://www.bosch-stiftung.de>

## **Science/AAAS**

**Wendy Sturley**, Science International, UK

Folkets Hus #13

Science magazine is published by the American Association for the Advancement of Science (AAAS), the world's largest general scientific society. Founded in 1880 by Thomas Edison, Science ranks as the world's leading scientific journal, with over 130,000 subscribers. Each week, Science provides the best in peer-reviewed original research, scientific research articles and reports, commentaries on recent news and events — a unique perspective on what's happening in the world of science, across all disciplines. Stop by our stand to see a demonstration of Science Digital Edition, and to pick up your free copy of the magazine. The AAAS mission is to "advance science and innovation throughout the world for the benefit of all people." AAAS programmes in such areas as science, education, policy, and international cooperation have gained worldwide recognition. AAAS members and supporters are invited to join us while in Stockholm for a special reception at the Vasa Museum on the evening of 27 August. For more information, stop by our stand during the conference or send an e-mail to [aaasreception@science-int.co.uk](mailto:aaasreception@science-int.co.uk)

<http://www.scienceonline.org>

## **Stifterverband für die Deutsche Wissenschaft - Donors' Association for the Promotion of Sciences and Humanities in Germany**

**Angela Lindner**, Stifterverband, Germany

Folkets Hus #9

Stifterverband has campaigned for the advancement of higher education and research since 1920. Around 3,000 German companies are members, among them the 100 leading companies in the country. Their donations enable innovations and new concepts to be developed and introduced as models for the future development of higher education and research. Recent examples of the activities of the association are the enhancement of the quality of Bachelor/Master-programmes and the identification of Germany's "City of

Science". Stifterverband is a valuable mediator at the interface of the scientific community, industry and politics. In 1999 Stifterverband initiated "Wissenschaft im Dialog" (Science in dialogue), a joint action of the most renowned scientific institutions in Germany for a better dialogue between the scientific community and the public. This has meanwhile developed to a broad movement all over the year with a yearly "Summer of Science". Now Stifterverband would like to foster a similar movement in Europe.

<http://www.stifterverband.de>

## **Stockholm Economic Development Agency/Stockholms Näringslivskontor**

**Lars Winther-Hansen**, Economic Development Agency/Stockholms Näringslivskontor, Sweden

Norra Latin #12

The mission of the Stockholm Economic Development Agency is to collect and strengthen Stockholm's various industry initiatives and to market the city as an attractive location for business and tourism. Our four main goals:

- to improve contacts between the city and industry
- to strengthen the industrial focus of public institutions
- to contribute to further development and diversification of existing industries
- to market Stockholm as a business region.

<http://www.stockholm.se/naringsliv>

## **Swedish Rescue Services Agency, SRSA/Räddningsverket**

**Agne Sandberg**, Räddningsverket (Swedish Rescue Services Agency), Karlstad, Sweden

Norra Latin #15

The Swedish Rescue Services Agency promotes practices that improve accident prevention and response, and that limit injury and damage in the event of an accident. Our goal is to protect life, safety, and health from incidents and accidents, and to prevent or limit damage to property and the environment in everyday life as well as during disasters and war. This is achieved by research and development, by disseminating information, by running training courses and exercises, and through supervision etc. The agency offers each year SEK 24 million (EURO 2,5 million) in open invitations for applications to fund research projects within fields defined in our research programme designed to promote a safer society.

<http://www.srv.se>

## **Swedish Research Council**

**Birgitta Myrman**, Swedish Research Council, Sweden

Folkets Hus #5

The Swedish Research Council is a government agency under the Ministry of Education and Science. The research council has three main areas of responsibility: research funding, research policy and research information. A fundamental aim is to promote excellence in Swedish research. The Council actively promotes collaboration between Swedish researchers and researchers in other countries to make Sweden an attractive international meeting place. Part of this work is to stimulate Swedish participation in the research themes of the European Union (EU) framework programme for research and technical development is a part of this work.

<http://www.vr.se>

## **The Bank of Sweden Tercentenary Foundation/Riksbankens Jubileumsfond**

**Mats Rolén**, Riksbankens Jubileumsfond, Sweden

Folkets Hus #8

The Bank of Sweden Tercentenary Foundation (Stiftelsen Riksbankens Jubileumsfond) supports scientific research by awarding project grants to individual researchers and research groups. So far the Foundation has supported Swedish research, primarily in the fields of the humanities and the social sciences, to the sum of SEK 4.8 billion. This makes the foundation the largest financier of research outside the universities in these fields. The foundation was established in 1962 through an endowment from the Bank of Sweden to mark its three-hundredth anniversary in 1968. The Swedish Parliament has subsequently given a further donation. For further information, see:

<http://www.rj.se>

## **The European Commission Directorate-General for Research**

**Boris Kandziora**, The European Commission Directorate, General for Research, Belgium

Folkets Hus #1

The mission of the Directorate-General is to

- develop the European Union's policy in the field of research and technological development and thereby contribute to the international competitiveness of European industry
- coordinate European research activities with those carried out at national level
- support the Union's policies in other fields such as environment, health, energy, regional development etc.
- promote a better understanding of the role of science in modern societies and stimulates a public debate about research-related issues at European level

The main research policy instrument is the multi-annual Framework Programme.

<http://europa.eu.int/comm/research>

## **The European Commission's Joint Research Centre**

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**Ulrike Winter**, European Commission, Joint Research Centre, Italy

Norra Latin #8

The largest Directorate General (department) of the European Commission is the Joint Research Centre (JRC) which has over 2,200 staff spread over 7 research institutes and 4 directorates located in Italy, Belgium, The Netherlands, Germany and Spain. The mission of the JRC is to provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies. The JRC is essentially the EU's research-based, policy support organisation, whose main aim is to help create a safer, cleaner, healthier and more competitive Europe.  
<http://www.jrc.cec.eu.int/>

## **The European Science Foundation (ESF)**

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**Jens Degett**, The European Science Foundation, France

Folkets Hus #16

The European Science Foundation (ESF) is an association of 76 member organisations devoted to scientific research in 29 European countries. The foundation acts as a catalyst for the development of high-quality science at a European level. It brings scientists from all disciplines together in its numerous research programmes, workshops and conferences to work on topics of common concern. It also conducts joint studies of issues of strategic importance in European science policy. The ESF facilitates co-operation and collaboration across borders, offers expert scientific advice on strategic issues, and provides a forum for European science.  
<http://www.esf.org>

## **The Swedish Association of Scientists/ Naturvetareförbundet**

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**Marita Teräs**, Naturvetareförbundet/The Swedish Association of Scientists, Sweden

Norra Latin #14

The Swedish Association of Scientists is a trade union and a professional association that is growing rapidly. The organisation currently has approximately 17 000 members from a wide number of professions in science. Professions represented within the Swedish Association of Scientists include biologists, chemists, geologists, mathematicians, meteorologists, physicists and statisticians. More than 25 % of the members have a doctorate.  
<http://www.naturvetareforbundet.se>

## **The Swedish Space Corporation/ Rymdbolaget**

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**Anne Ytterskog**, Rymdbolaget, Sweden

Norra Latin Floor 2 The Atrium

The Swedish Space Corporation designs, launches and operates space systems. At our engineering centre in Solna, Stockholm, we develop state-of-the-art satellites, subsystems and experiments for sounding rockets and airborne systems for maritime surveillance. Sounding rockets and high-altitude balloons are launched from Esrange, our facility near Kiruna. At this site, our satellite ground stations provide data reception, TT&C and mission control services for customers all over the world. Satellite communication services are also performed at our facility Stockholm Teleport.  
<http://www.ssc.se/ssd>

## **To watch the Olympic Games**

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Norra Latin #5

At the inner end of the Pillarhall, Norra Latin, floor 1, you will find a television to watch the Olympic Games. Please keep the volume low. Enjoy.  
At 12:30-13:30 Thursday-Saturday, scientists from Karolinska Institutet will answer questions on exercise science.

## **VINNOVA**

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**Arne Kihlblom**, VINNOVA, Sweden

Folkets Hus #10

VINNOVA, the Swedish Agency for Innovation Systems, is a government body that integrates research and development in the fields of technology, transport and working life. VINNOVA's mission is to promote sustainable growth by developing effective innovation systems and funding problem-oriented research. VINNOVA's activities contribute to create sustainable development and growth in Sweden. Please visit our web site at [www.VINNOVA.se](http://www.vinnova.se) to learn about our current activities.  
<http://www.vinnova.se>

## **Wisepress Online Bookshop**

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**Abigail Collins**, WisePress, UK

Norra Latin #13

Wisepress Online Bookshop is pleased to present a display of publications chosen especially for ESOF 2004 from the world's leading publishing houses. All the books on display can be ordered or bought directly at the stand. They can also be ordered on our website. We can order you free sample copies of the journals on display for you, and we can take subscription orders. Whatever your book requirements, Wisepress will be happy to help - whether you are an author seeking a publisher or a reader having difficulty obtaining a title, our professional staff will be happy to assist you.  
<http://www.wisepress.co.uk>



## TORSTEN OCH RAGNAR SÖDERBERGS STIFTELSE



The Torsten and Ragnar Söderberg Foundations belong to the most important private donors to research in Sweden. The foundations were formed in 1960. During the year 2003, the foundations allocated SEK 74.6 million, mainly to Medicine, Economics and Law. The foundations also celebrate Swedish and Scandinavian excellence with four prizes.

The brothers Torsten (1894-1960) and Ragnar (1900-1974) were mainly active in the family company, Söderberg & Haak, founded in 1866. In addition the brothers founded the investment company Ratos AB. Torsten's wife Wanja (1899-1982) was also a donor to Torsten Söderberg's foundation.

New generations of the Söderberg family remain active in the foundations' work.

Östermalmsgatan 89, 114 59 Stockholm. Telefon 08-661 52 11. Telefax 08-661 47 41  
[www.soderbergs-stiftelse.se](http://www.soderbergs-stiftelse.se)



*We would like to thank the Science and society,  
 DG Research, European Commission  
 for supporting ESOF2004 and making  
 contributions from our collaborators possible:*

Academia Europaea

European Association of Research Management and  
 Administrators (EARMA)

European Collaborative for Science, Industry &  
 Technology Exhibitions (ECSITE)

European Molecular Biology Organization (EMBO)

European University Association (EUA)

The Marie Curie Fellowship Association (MCFA)

British Association for the Advancement of Science  
 (BA)

Gabriella Norlin

Project Leader

EuroScience Open Forum 2004



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

## THE SWEDISH FOUNDATION FOR STRATEGIC RESEARCH

**supports research and graduate training in the natural  
 sciences, engineering and medicine for the purpose of  
 strengthening Sweden's future competitiveness**

**finances at present over 100 large research  
 programmes at Swedish universities - many of  
 them in collaboration with industry**

**awards individual grants to  
 particularly prominent researchers**

**supports important areas such as biotechnology,  
 materials research, IT and product realisation**

**invests heavily in graduate training - almost  
 1 000 doctoral students are currently employed  
 in the Foundation's various programmes**

**has a total annual allocations  
 volume of SEK 500 million (2004)**

**has a capital of about SEK 8 900 million  
 (April 2004) as the basis for its operations**

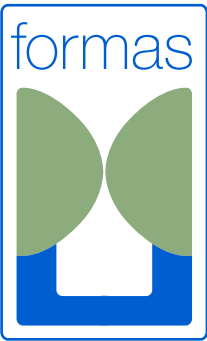
**has former Deputy Prime Minister  
 Lena Hjelm-Wallén as Chairperson as of 2004**

**Stiftelsen för Strategisk Forskning**  
 NATURVETENSKAP • MEDICIN • TEKNIK  
[www.stratresearch.se](http://www.stratresearch.se)



In this programme you will find that some activities are marked with the symbol “School”. These activities are especially directed to or suitable for teachers and pupils.

Klara Soup Theatre .....	SC3
Science Café .....	SC4
Dali and Science: a lifelong obsession .....	SC5
The Amazing Profmobil .....	SC5
Art and Science – a series of short films, a play and discussion .....	SC5
Science + Fiction - Between Nano-World and Global Culture .....	SC6
The Pipe Organ as a Multi-Media Artwork.....	SC7
Saving the European Heritage with Science and Technology .....	SC7
Find your way to Science in the City .....	SC8
Can one Gorge oneself to Health? .....	SC10
Good Reasons Why .....	SC11
National Resource Center for Teachers.....	SC11
Physics on the Road .....	SC11
Polar Dialogues .....	SC12
Pedagogical Spearheads in Practice .....	SC12
Stockholm Science Circle, SSC .....	SC12
Teutolab – a Hands-On Science Laboratory for School Children .....	SC12
VA! Dialogue between the Young Public and Scientists .....	SC13
Vattenfall Science Dialogue .....	SC13
Workout - a Combination of Science and Well-Being.....	SC13
Expedition into the Microcosmos .....	SC14
DNA Art .....	SC14
What Does Science Mean to You? .....	SC14
Electronic Visits from Neighbouring Laboratories in Europe .....	SC14
Earthquakes, World Jigsaw, Water & Weather, Crystal Cool .....	SC14



# Popular Science with Formas



**Formas, the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning provides mechanisms for the communication of research results and stimulates the public debate on issues of concern emerging from or related to research for sustainable development.**

## **Visit our activities during ESOF2004**

**24/08 A guided trip through the National City Park by boat.**

**26/08 Can one gorge oneself to health?**

Formas' Food day in Kungsträdgården presents state of the arts in food research.

**29/08 Stockholm's Annual Rings**

– an architectural bustrip

### **Formas**

Box 1206,  
111 82 Stockholm, Sweden  
Visitors: Birger Jarls torg 5  
Phone: +46 (0)8 775 40 00  
Fax: +46 (0)8 775 40 10  
[www.formas.se](http://www.formas.se)

For more information about Formas and our activities during ESOF2004, please consult our website [www.formas.se](http://www.formas.se)





## Klara Soup Theatre

Klara Soup Theatre, at Stockholm City Theatre, will present its popular Science Theatre and other plays and lectures on scientific topics, both as breakfast and lunch performances. The breakfast entertainment, Klara Morning, is from 07:45 to 08:45 and a breakfast buffet is served. The Klara Soup Theatre is from 12:00 to 13:00 and soup, bread, coffee/tea and cake are served along with the performance.

### Wednesday 25 August

12:00–13:00

#### HELLUVAGUY!

“A world class show!” Lennart R Svensson as August Strindberg, Sweden’s most well-known author, who never received the Nobel Prize. Music by Gunnar Edander. Written and directed by Agneta Elers-Jarleman. Has toured 15 countries. In English.

Cep soup with cooked brisket of beef.

### Thursday 26 August

07:45–08:45

#### THANK YOU FOR THE NOBEL PRIZE!

What did they really say? Nobel Laureates’ speeches of thanks through the years have aroused admiration, merriment and, at times, astonishment. Professor Anders Bárány from The Nobel Museum joins actors Kajsa Reingardt, Peder Falk and Ulf Eklund in the thrilling history of Nobel speeches. In Swedish.

12:00–13:00

#### LADY NEWTON Premiere!

Physics and love meet in this story about a remarkably obstinate scientist. With Sofia Berg Böhm, Mats Qviström and Björn Wahlberg. Written and directed by Agneta Ginsburg. Music Erik Vårdstedt. Stage design Johan Killgren. In Swedish.

Fish casserole with aioli.

### Friday 27 August

12:00–13:00

#### XL – A FLASHY, FLESHY PLAY

A Science Theatre play about food and health. Professor Stephan Rössner (Obesity Unit at Huddinge University Hospital) and actors Sissela Kyle and Johan Paulsen sort out questions about how, what and why we eat as we do. Stage design: Sören Brunes.

In English.

Creamy cauliflower soupe with crispy bacon.

### Saturday 28 August

07:45–08:45

#### HEALTH FREAK OR COUCH POTATO?

One small step for man is a giant leap for health – take a daily walk! Your whole body reacts positively, and the risk of heart disease, cancer and early death is strikingly reduced. Medical scientists Carl Johan Sundberg and Agneta Ståhle from Karolinska Institutet talk about their observations with actor Peder Falk.

In Swedish.

12:00–13:00

#### BRAINSPOTTING

A Science Theatre play about the brain and its whirling world. Professor Lars Olson (Neurobiology at Karolinska Institutet) and actors Peder Falk and Johan Paulsen give a thrilling performance that explains almost all you need to know about the brain.

In English.

Creamy Jerusalem artichoke soup with salmon.

**Artistic and executive director :** Benny Fredriksson

**Time:** 25–28 August

**Venue:** The Stockholm City Theatre, Kulturhuset

**Organiser:** The Stockholm City Theatre and the Swedish Research Council

**Language:** English and Swedish

**Admission:** Klara Morning costs 85 SEK and the Klara Soup Theatre 150 SEK

#### Tickets

Mail kundtjanst@stadsteatern.stockholm.se or call kundtjänst phone: +46 8 506 20 200. Telephone open: 15 June–3 July: Tuesday–Saturday 12:00–15:00, 5 July–16 July: Monday–Friday 13:00–16:00, 20 July–31 July: Tuesday–Saturday 12:00–15:00, after 3 August: Tuesday–Sunday 12:00–18:00 or visit [www.stadsteatern.stockholm.se](http://www.stadsteatern.stockholm.se) click on pjäser/plays find vetenskapsteater/science theatre

# Science Café – Stockholms Akademiska Forum

**Tuesday 24 August, 19:00**

## **Panel discussion about the role of research in society**

Research reports show that citizens have high confidence in research and science, but how will research be affected by the financial cut-backs in the public sector? How will research appear to us in the future? For whom is research intended and how is it made useful to our society? How do the scientists view their own research?

**Moderator:** Jonas Hallberg will question the scientists and allow them to give their view of research today and tomorrow

**Participants:** Kristina Svartholm, Professor of Swedish as second language for deaf people, Stockholm University, Mats Burström, Professor of Archaeology at Södertörns högskola, Harriet Wallberg-Henriksson, Professor of Physiology and also President of Karolinska Institutet, Arne Jarrik, Professor of History, Stockholm University, Lars Kloo, Professor of Inorganic Chemistry at KTH and chairman of the KTH Committee for Post-Graduate Studies, Filip Wijkström, Reader of Business Administration at the Stockholm School of Economics and Manager of the Economic Research Institute, EFI., Ingrid Carlgren, Professor of Pedagogy, Stockholm Institute of Education

**Wednesday 25 August, 13:00**

## **The Soul of Sweden – does it exist?**

**Participants:** Karl Olof Arnstberg, Professor of Ethnology at Stockholm University, Beatriz Lindqvist, Reader of Ethnology at Södertörns högskola, Alf W Johansson, Professor of History, Södertörns högskola

**Wednesday 25 August, 15:00**

## **How do differences cooperate in the work place?**

**Participants:** Solvig Ekblad, Reader of Psychosocial Medicine at Karolinska Institutet, Angela Nilsson, Research Assistant "Centrum för forskning om internationell migration och etniska relationer" at Stockholm University

**Thursday 26 August, 13:00**

## **Media – technology, commercial forces or entertainment?**

**Participants:** Ester Pollack, PhD and Head of the Department of Journalism and Communication (JMK) at Stockholm University, Göran Bolin, Professor of Media and Communication Science at Södertörns högskola, Leif Dahlberg, Senior Lecturer of Communication at KTH

**Thursday 26 August, 15:00**

## **To live long but not get old**

**Moderator:** Gunilla Myrberg, medical journalist

**Participants:** Tommy Cederholm, Reader at Neurotec, Karolinska Institutet, Töres Theorell, Professor of Psychosocial Medicine at Karolinska Institutet

**Thursday 26 August, 16:00**

## **Ready, Steady, Go – Exercise habits in Sweden**

**Moderator:** Gunilla Myrberg, medical journalist

**Participant:** Lars-Magnus Engström, Professor of Physical Education at the Stockholm Institute of Education

**Friday 27 August, 13:00**

## **Why equality?**

**Moderator:** Lena Sundström, freelance journalist

**Participants:** Lars Jalmert, University Lecturer of Education at Stockholm University, Maud Edwards, Professor of Political Science at Stockholm University, Pia Höök, PhD at Stockholm School of Economics

**Friday 27 August, 15:00**

## **What shapes our gender roles?**

**Moderator:** Lena Sundström, freelance journalist

**Participants:** Ivanka Savic-Berglund, Reader of Neurology at Karolinska Institutet, Ebba Witt-Brattström, Professor of Literature, Södertörns högskola, Håkan Larsson, University Lecturer in Physical Education at the Stockholm Institute of Education

**Saturday 28 August, 11:00**

## **Music and Emotion: An evolutionary perspective**

How come that music induces such strong emotions in listeners? During this lecture, Patrik Juslin will provide examples of how researchers in music psychology have tried to explain this mystery.

**Participant:** Patrik Juslin, Research Assistant at the Department of Psychology, Uppsala University

**Saturday 28 August, 13:00**

## **Strings, black holes and the creation of the universe**

Thoughts on the connection between the largest and the smallest and why everything is the way it is.

**Participant:** Ulf Danielsson, Professor of Theoretical Physics at Uppsala University

**Time:** 24–28 August

**Venue:** Stockholms Akademiska Forum, Kulturhuset

**Organiser:** Stockholms Akademiska Forum

**Language:** Swedish

**Admission:** Free

**SCHOOL**



## Dali and Science: a lifelong obsession

Salvador Dali had an obsession for science that lasted all his life and that can be traced in his paintings. He was a compulsive reader of scientific literature, from psychoanalysis to quantum mechanics, from mathematics to genetics. Moreover, he strove all his life to meet relevant scientists: Sigmund Freud, J.D. Watson, and many others. The scientists were surprised to discover that behind the façade of a clownish showman there was a genial artist whom they could engage in entertaining and meaningful discussions. This film reveals an unknown aspect of one of the most important painters of the 20th century.

The documentary will be followed by a panel discussion.

**Participants in the panel:** Rolf Tarrach – Physicist – Universitat de Barcelona, Jorge Wagensberg – Director of the Museum of Science, Barcelona, Gavin Parkinson – Art Historian – University of London, Joan Ubeda – Producer/director – Mediapro, Barcelona

**Time:** 26 August, 16:30–18:00

**Venue:** Studio 3, Kulturhuset

**Organiser:** Mediapro, Spain

**Language:** English

**Admission:** Free

**SCHOOL**



Photo: A. Gerdes, DFG-Research Center Ocean Margins, University of Bremen

### The Amazing Profmobil

The Profmobil, an inventive mobile “Science Speaker’s Corner”, is an altered bicycle. It is equipped with modern presentation technique that allows excellent possibilities for short scientific presentations, 15–20 minutes. During ESOF2004 the Profmobil will be located at different locations in the heart of the city, Kungsträdgården, Sergels Torg and Hötorget. Scientist of several disciplines will give generally understandable talks. The Profmobil was developed in 2003 by students of the University of the Arts in Bremen. In March 2004 it was priced with the “iF design award 2004”.

Daily, 12:00–12:30, Sergels Torg

Daily, 14:00–14:30, Hötorget

Daily, 16:00–16:30, Kungsträdgården

**Time:** 25–28 August

**Venue:** Stockholm City: See above

**Organiser:** Research Center Ocean Margins, Germany

**Language:** English

**Admission:** Free

## Art and Science – a series of short films, a play and discussion

Innovations in Science & the Arts – The Wellcome Trust invites you to a two day programme of film, theatre and debate at Kulturhuset.

### 27 August, 11:00–13:00

A workshop by Y Touring Theatre Company exploring how drama can be used to engage young people with science issues.

**Booking essential, contact:** p.gibbons@wellcome.ac.uk

### 14:30–15:30

Rehearsed reading of ‘Special’ by Peter Morgan, a play about genetics commissioned by Theatre Royal Plymouth and funded by the Wellcome Trust, followed by a discussion with the writer dealing with issues raised by the play.

### 15:30–16:30

Discussion of issues raised by the play between Peter Morgan and Eva F. Dahlgren, chaired by Ken Arnold.

### 17:30–19:00

Launch of DVD “Talking Back to Science: art, science, and the personal”.

### 28 August, 11:00–17:00

An exhibition of film material showcasing a range of the Wellcome Trust’s work in science and the arts.

### Examples of the films are:

- On the Scent, exploring the power of smell to elicit memories and emotions
- Gender Trouble, four women with intersex conditions talk about their experiences
- The Bone Orchestra, narratives and visual metaphors to explore bone health

**Time:** 27 August, 11:00–19:00, 28 August, 11:00–17:00

**Venue:** Studio 3, Kulturhuset

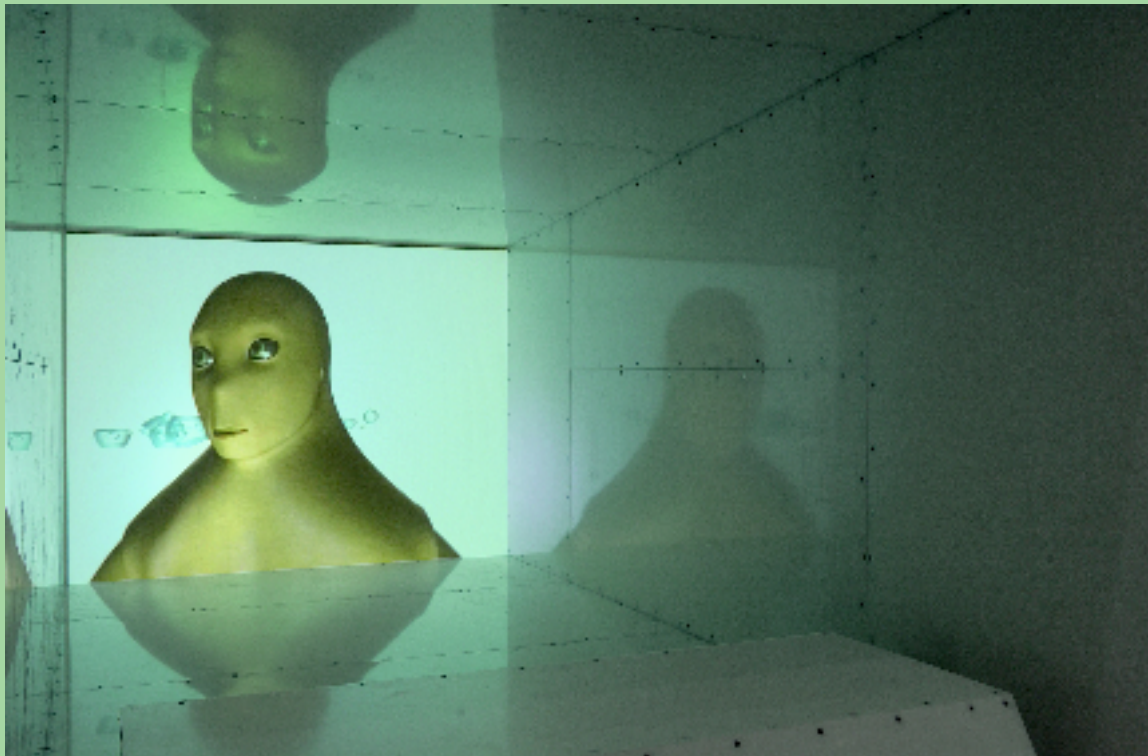
**Organiser:** The Medicine, Society and History Division of the Wellcome Trust

**Language:** English

**Admission:** Free

**SCHOOL**

# THE NOBEL MUSEUM



Guten Morgen Mr Mad

## Science + Fiction

### – Between Nano-World and Global Culture

“Scientific theories have a curious way of reflecting a world mood that they themselves are unable to formulate or perhaps even perceive. ... For sophisticated theoretical achievements there should perhaps be a kind of parallel poetics that restates everything in new terms and forces scientific language back into the confines of its functional system.” (Niklas Luhmann)

The exhibition “Science + Fiction” presents a meeting of scientific and artistic views of current themes. The questions raised affect us all: Where is the boundary between self and alien in globalisation? How does our brain function in the process of perception? What is the impact of the manipulation of matter at the level of the atom? How does science define the reality we are living?

Five works of art take a stand on these questions and formulate their own positions. In doing so, they take part in the public discourse about science, continue it with their own means, and transfer the debates about science and the public into the functional spectrum of the arts.

A framework installation of scientific images and objects ushers the visitor through the individual themes of brain research, nano-technology, global culture, and the knowledgeable society. The installation establishes an associative dialogue with the artistic statements.

Seats and audio-islands complement vision: scientists and artists tell of their approach to the topic. Sketches and notes offer an insight into the workshop of ideas of researchers and artists.

The scenography of the exhibition reflects the concept of the curiosity cabinet, provoking a new discussion in the context of global media images and the responsibility of science.

**Curators:** Thomas Spring, Stefan Iglhaut

**Time:** 18 June–19 September

**Opening hours:** Daily 10:00–17:00, Tuesday until 20:00

**Venue:** The Nobel Museum in Stockholm

**Organiser:** The Nobel Museum, Iglhaut + Partner, Volkswagen Stiftung, Stiftelsen Riksbankens Jubileumsfond

**Language:** Guided tours daily in English and Swedish

**Admission:** Adults: SEK 50. Children (ages 7–18): 20 SEK (under age 7 admission free). Students: SEK 40. Family ticket (5 people, max. 2 adults): SEK 100. Groups (min 15 people): SEK 40 per person. Special terms available for school classes.

For more information please look at:

[www.scienceandfiction.de](http://www.scienceandfiction.de) and

[www.nobel.se/nobelmuseum](http://www.nobel.se/nobelmuseum)

# THE GERMAN CHURCH

## The Pipe Organ as a Multi-Media Artwork

World-famous Swedish research reconstructs the ancient art of organ-building Innovation and Science.

The best current research looks for new bridges between our past and our future, between hereditary human qualities that have always fed us (in the arts, architecture, and handcraft) and new science that surrounds us (such as contemporary information technology). One new bridge has been inspired by our shared fascination with the historical pipe organs of Europe. They are audible landscapes, representing almost every age and culture on our continent. The pipe organs of the Baroque, for instance, are of spectacular quality. But how did they achieve this quality? Until now, many of their secrets have been lost in time. At the Göteborg Organ Art Center at Göteborg University in Sweden, current scientific methods helped to recreate old handcraft techniques used for carpentry and metal-working. This passionate study led to the building of several new Baroque instruments. Our research has in turn created innovative new cluster groups, and new global cooperation between many communities world-wide.

This multi-media presentation will include live music from some of Sweden's best Baroque musicians.

**Participants:** Hans Davidsson, Associate Professor of Organ at the Eastman School of Music, USA, Paul Peeters and Joel Speerstra, researchers from GOArt, Ulrike Heider, artistic leader of Schola Gothia.

**Time:** 26 August, 20:30

**Venue:** The German Church, The Old Town

**Organiser:** Göteborg Organ Art Center-GOArt

**Language:** Swedish

**Admission:** Free



The North German Organ in Örgryte new church in Gothenburg.  
Photo: Ulf Celander.

# THE VASA MUSEUM

## Saving the European Heritage with Science and Technology

Five research teams have now been selected to work on a project to find a long-term solution to the Vasa's sulphur problems. Eight million Swedish kronor will be spent over four years on wide-ranging scientific studies aimed at halting the breakdown of the ship's timber.

**Research will focus on the following key questions:**

- What promotes the formation of sulphuric acid?
- What methods can be used to remove the sulphuric acid and prevent more from forming?
- Are there bacteria present in the Vasa, and if so, how do they influence the breakdown process?
- How can the iron be removed?
- How is the breakdown process influenced by the preservative agent in the Vasa?

**Wednesday 25 August, 16:30–17:30**

**The research problems**

**Speaker:** Professor Emeritus Lars Ivar Elding of the University of Lund

**Thursday 26 August, 16:30–17:30**

**The importance of the Vasa Ship for new openings in different research fields ranging from arts, humanities, social sciences and natural sciences**

**Speaker:** Klas Helmerson, Museum Manager

**Time:** 25 August, 16:30–17:30. 26 August, 16:30–17:30

**Venue:** The Vasa Museum

**Organiser:** National Maritime Museums

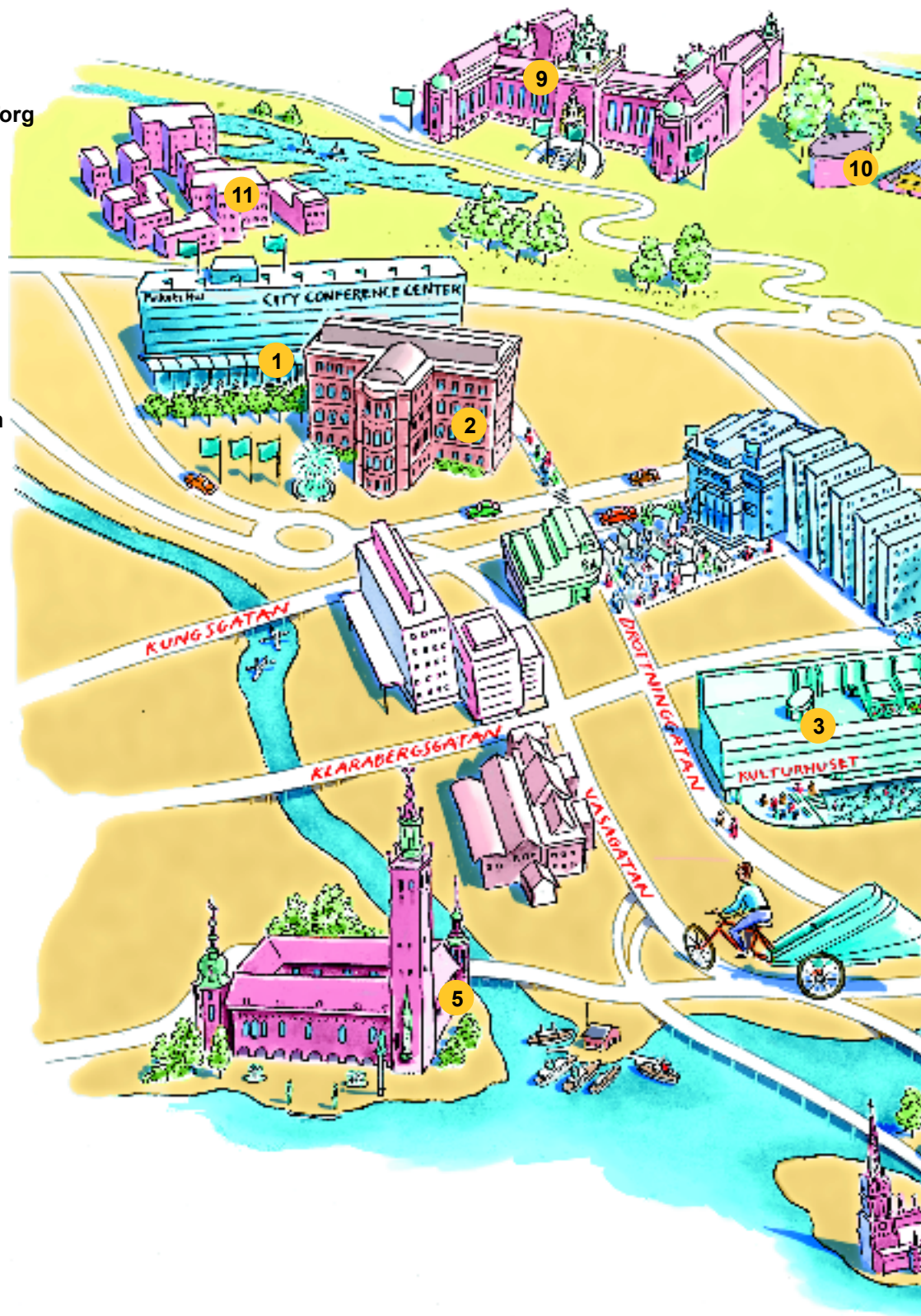
**Language:** English

**Admission:** Adults: SEK 70, Students: SEK 40, Children (ages 0–6): Free admission, Children (ages 7–15): 10 SEK, Groups (min 10 people): SEK 60 per person, School group: SEK 10 per student (compulsory school, secondary school)

[www.vasamuseet.se](http://www.vasamuseet.se)



- 1 Folkets Hus
- 2 Norra Latin
- 3 Kulturhuset, Segels Torg
- 4 Kungsträdgården
- 5 Stockholm City Hall
- 6 The Nobel Museum, Old Town
- 7 The Vasa Museum
- 8 The German Church
- 9 The Swedish Museum of Natural History
- 10 Stockholm University
- 11 Karolinska Institutet



# EuroScience Open Forum

## 2004

Stockholm  
25 | 28 August

[www.esof2004.org](http://www.esof2004.org)





## Welcome to Science in the City in Kungsträdgården!

Our activities are located in one corner of Kungsträdgården, close to Hamngatan. Together with several European organisers we present an exciting and varied programme. The activities will partly be held in a number of tents, and partly on our stage. We especially welcome schools to Kungsträdgården. For some activities, pre-booking is necessary, please look at each activity. If a contact person is not mentioned, contact Sofia Norberg ([sofia.norberg@esof2004.org](mailto:sofia.norberg@esof2004.org)) for booking. Free admission to all activities!

### Opening hours:

Wednesday 25 August, 10:00–19:00

Thursday 26 August, 10:00–19:00

Friday 27 August, 10:00–19:00

Saturday 28 August, 12:00–19:00

### Can one Gorge oneself to Health?

Formas's Food Day in Kungsträdgården presents state of the arts in food research. You will be able to listen and pose questions to the scientists, and find answers on most things concerning food. You can also participate in a quiz contest and win the book "Fruktur från främmande länder".

#### 10:00–11:00

##### **The chunk of fish: Health from the sea**

Why is fish so healthy? Why should we not eat too much fish?

PhD Helen Allenström, Chemistry and Bioscience, Chalmers University of Technology; Prof. Mats Olsson, The Institute of Applied Environmental Research; and Kerstin Petersson Grawé, Toxicology, National Food Administration.

#### 11:00–12:00

##### **The plate of fruit and vegetables: Yellow, green and red – is there any difference?**

Are all fruits and vegetables as healthy? How do you preserve the goodness in apples?

PhD Marie Olsson, Crop Science, Swedish University for Agricultural Sciences; and PhD Frédéric Prothon, Pomelo Consulting.

#### 12:00–12:45

##### **The bowl of sweets: Why do we like confectionery so much?**

Where does the craving for sugar and fat come from?

Prof. Charlotte Erlandson-Albertsson, Biomedical Centre, University of Lund.

#### 13:00–14:00

##### **The packet of milk: Health from the milk factory**

Health-promoting bacteria in milk – what use are they?

And why does milk sometimes taste like shrimp soup?

PhD Stefan Roos, Microbiology, Swedish University for

Agricultural Sciences; and Peter Barrefors, Food Science, Swedish University for Agricultural Sciences.

#### 14:00–15:00

##### **A piece of meat – Time to barbeque!**

How do I make the meat tender? How do I avoid burning the meat?

Doctoral student Maria Lundesjö Ahnström, Food Science, Swedish University for Agricultural Sciences; and PhD Elna Persson, Food Engineering, Lund Institute of Technology.

#### 15:00–16:00

##### **The bread basket and the pasta casserole: Healthy thoughts on baking**

How can bread be made healthier, and why are the carbohydrates in pasta better than those in white bread?

Doctoral student Mikael Nilsson, Food Engineering, Lund Institute of Technology; and doctoral student Ann-Katrin Haraldsson, Chemistry and Bioscience, Chalmers University of Technology.

#### 16:00–17:00

##### **The corn cookie: Healthier food with genetic engineering?**

Does genetically modified food raise unnecessary concern?

Can genetic engineering save the world from global starvation and pollution?

Prof. Sven Lindgren, Food Microbiology, National Food Administration; and PhD Marie Nyman, Crop Biology and Forest Genetics, Swedish University for Agricultural Sciences; and Håkan Fogelfors, Ecology and Crop Production Science, Swedish University for Agricultural Sciences.

#### 17:00–18:00

##### **Fruits from foreign countries**

Are there figs under the soil? Does snake eggs and cateyes grow on trees? Lennart Engstrand and Marie Widén, Lund University Botanical Garden.

**Moderator:** PhD Anita Laser Reuterswärd, LaserNutriFood

**Time:** 26 August, 10:00–18:00

**Venue:** Kungsträdgården

**Organiser:** Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning

**Language:** Swedish

**SCHOOL**

[www.livsmedelssverige.org](http://www.livsmedelssverige.org)

### Stage programme

**Thursday 26, 15:00–15:20**

**Fruit from foreign countries**

Marie Widén & Lennart Engstrand

## Good Reasons Why

Let's play: Clinical trial. This live-sized game will take you through the different phases of a clinical trial. Many participants are needed in actual clinical trials to achieve a reliable and statistically significant outcome for medical progress – but why? And how is the safety of the study participants guaranteed? Confront the questions of clinical studies on patients!

### Good Reasons Why programme:

Visitors can play the game continuously during the opening hours. But school classes should be scheduled according to the hours below:

**10:00, 12:00, 13:30, 15:00, 16:30.**

Contact ESOF2004 for booking!

**Time:** 25- 28 August, 10:00-19:00. Saturday, 12:00-19:00

**Venue:** Kungsträdgården

**Organiser:** Competence Network on Malignant Lymphomas, Cologne University, Germany

**Languages:** English and Swedish (moderation and manuals)

**SCHOOL**

## National Resource Centres for Teachers

For each of the subject areas biology/biotechnology, physics, chemistry and technology there is a national centre. The most important tasks of these centres can be summed up as: education, in-service training, development and research. All this together with teachers and pupils in preschool, school and in adult education. All four national resource centres are connected to a local university, and are mainly financed by the Swedish Ministry of Education.

### Biology – Examples from the in-service training

Wednesday 25 August, 15:00–16:00

**Look down into the compost!**

Thursday 26 August, 13:00–14:00

**Living animals that have been borrowed from the sea?**

Friday 27 August, 11:00–12:00

**Meet bear animals/tardigrades and nematodes!**

**Chemistry – Chemistry in colours and new materials. Come touch, see and try them!**

Wednesday 25 August, start 13:00–14:00

Thursday 26 August, start 11:00–12:00

Friday 27 Aug, start 15:00–16:00

**Physics – Questions and answers – direct on the web box with direct answer from Lund. Inspiring presentations on nanomaterials. Sunbathe safe!**

Friday 27 August, 16:00–17:00

Saturday 28 August, 13:00–14:00

## Technology

Wednesday 25 August, 11:00 and 16:00

### Polarscholarship – Teacher in Antartica

Antarctica is far away... but as a teacher you can travel there with a scholarship. Will it be you next time? Mats and Paula talks about how their experiences from our most barren continent becomes a part of their teaching.

Friday 27 August 13:30–14:00

Paula Starbäck, Natural Science teacher

Friday 27 August 14:00–14:30

Mats Pettersson, Science teacher

In Cooperation with Swedish Polar Research Secretariat.

### The National Resource Centres are:

- CETIS-Centre for School Technology Education
- The National Resource Centre of Chemical Teachers, KRC
- Swedish Centre for School Biology and Biotechnology
- National Centre for Education in Physics

**Time:** 25–28 August, between 10:00–19:00. Saturday, 12:00–19:00

**Venue:** Kungsträdgården

**Organiser:** National Resource Centres for Teachers

**Language:** Swedish

**SCHOOL**

## Physics on the Road

Physics on the Road is an introduction to the great themes of modern physics through three guided tours: elementary particles, forces and calculus. Starting from simple objects of our daily life, INFN physicists guide the public through an interactive journey in the world of infinitely small particles, the four fundamental forces of nature and the technological returns in everyday life.

### Scheduled session for classes:

10:00, 11:30, 13:30, 15:00, 16:30

Other visitors than schools are welcome between 18:00–19:00. The entire journey takes up to one hour and half. 30 people each hour. Booking required for school classes. Contact ESOF2004!

**Time:** 25-28 August, 10:00 - 19:00. Saturday, 12:00 - 19:00

**Venue:** Kungsträdgården

**Organiser:** National Institute for Nuclear Physics, Italy

**Language:** English and Swedish

**SCHOOL**



## Polar Dialogues – Your questions answered by scientists in the Arctic and Antarctic

The Alfred Wegener Institute for Polar and Marine Research in Bremerhaven (Germany), in conjunction with the Swedish Polar Research Secretariat, is offering public phone communication with the Neumayer Station in the Antarctic as well as calls to the polar research ice breaker Oden.

Ask questions of the researchers over-wintering at the Antarctic station, currently in the polar night. Make contact with the scientists on the research vessel near the North Pole.

Take the opportunity, for instance, to ask the nine participants of the over-wintering team about their work and daily life at the station. Experience the vast, yet largely unexplored, continent from a completely new perspective!

The programme addresses interested individuals of all ages from 8 to 80. Conversations with Neumayer Station (Antarctic) in English are offered three times daily for fifteen minutes. Conversations with the research vessel Oden (Arctic) in Swedish or English are offered twice daily for fifteen minutes.

**Time:** 25–28 August, 10:00–19:00. Saturday, 12:00–19:00

**Venue:** Kungsträdgården

**Organiser:** Alfred-Wegener-Institut für Polar- und Meeresforschung, Germany

**Language:** English and Swedish

**SCHOOL**

[www.awi-bremerhaven.de](http://www.awi-bremerhaven.de)

## Pedagogical spearheads in practice

**Teachers – Meet innovative pedagogy!**

### Förskolan Torpet (pre-school)

Carita Österdahl and Tina Ekedahl. How kids gain knowledge and experiences through nature and environment in Gotland. Hourly demonstrations Wednesday and Thursday starting at 10:00, 11:00, 15:00 and 16:00. Max 10 pers/demo, please pre-book!

### Furulidskolan (high school)

Lisbeth Ritzman and students. The Element TRAY – as a resource in chemistry education. Hourly demonstrations Friday starting at 10:00, 11:00, 15:00 and 16:00. Max 10 pers/demo, please pre-book!

### NT-gymnasiet, Järfälla Gymnasieskolor (sec. high school)

Britta Wennerström and students. The forest project: Using the methodology and pedagogics of nature's growth. Hourly demonstration Wednesday, Thursday and Friday starting at 14:00. Max 10 pers/demo, please pre-book!

### Open house

Meet the projects above and VetGiro. Inger Pilebro Mellgren, 63, pedagogic developer and teachers trainer. Jonas Nordström, 34, former student to Inger, now researcher and entrepreneur.

Wednesday, Thursday, Friday 12:00–14:00, 17:00–19:00.  
Saturday, 12:00–19:00.

**Target groups:** Teachers and skilled school leaders (pre-school to sec. high school). Pre-book via mail [inger@vetgirot.se](mailto:inger@vetgirot.se) or tel 08–552 472 77.

**Time:** 25–28 August, 10:00–19:00. Saturday, 12:00–19:00

**Venue:** Kungsträdgården

**Organiser:** Vetgirot AB, Sweden

**Language:** Swedish

**SCHOOL**

[www.vetgirot.se/esof](http://www.vetgirot.se/esof)

## Stockholm Science Circle, SSC

Stockholm Science Circle is a collaboration network of five centres in the Stockholm metropolitan area: The Swedish Museum of Natural History, The Nobel Museum, The Museum of Technology, Tom Tits Experiment and The House of Science. The aim of the network is to increase interest in natural science and technology by using the broad competence of the five centres, and to profit from their different platforms. Stockholm Science Circle intends to develop school projects with an interdisciplinary approach.

**Stage programme:**

### The Nobel laureate of the day

Anders Bárány, the Nobel Museum talks about price winners who have set the base of today's biotechnology.

**Daily, at 11:00 and 16:00.**

**Time:** 25–28 August, 10:00–19:00. Saturday, 12:00–19:00

**Venue:** Kungsträdgården

**Organiser:** Stockholm Science Circle, SSC

**Language:** Swedish

**SCHOOL**

## Teutolab – a Hands-on Science Laboratory for School Children

Teutolab offers interesting chemical experiments to school children aged from 9 to 19. Teutolab aims to provide everyone, not just the scientifically gifted, with an opportunity to participate in applying scientific methods to problem-solving. A curriculum conceived by experienced teachers and scientists offers experimental series that are suited to the age of the visitors.

**Sessions:**

### 25–28 August

**12:30–13:30, 14:30–15:30, 16:30–17:30**

For each session, four different experiments will be offered for 3 (max. 4) students each.

1. for 10- to 11-year-old students: From milk to plastic.
2. for 13- to 14-year-old students: Generation of an edible foil made of potato starch.



3. for 15- to 16-year-old students: Experiments with a solar cell and detection of hydrogen and oxygen.
  4. for 17- to 18-year-old students: Citrus aromas.
- No specific scientific knowledge is needed.

**Time:** 25–28 August, 10:00–19:00. Saturday 12:00–19:00

**Venue:** Kungsträdgården

**Organiser:** Teutolab, Universität Bielefeld, Germany

**Language:** The communication language will be English

Written instructions for experiments will be presented in German, English and Swedish

**SCHOOL**

## VA! Dialogue between the Young Public and Scientists

The public, and most importantly the young public, often have interesting and challenging questions for scientists. The non-profit association Vetenskap och Allmänhet, VA will host several "talks" between a youth and a speaker from the scientific programme of ESOF2004.

### 25 August, 10:30–13:50 Are girls sicker than guys?

Girls and guys are different, biologically anyway. Does that mean that guys and girls can have different diseases? Are girls sicker than guys? Listen to Karin Schenck-Gustafsson from Karolinska Institutet, discuss differences between male and female disease with a teenager. In Swedish.

### 26 August, 13:30–13:50 Bioweapons – a great threat or useful defense?

Why is there research about bioweapons, isn't that dangerous? Is there a risk that bioweapons will be used in war? Are there advantages with bioweapons? Listen to Jens Kuhn from Harvard Medical School talk to a teenager about "dangerous" research. In English.

### 26 August (time: to be announced) You are the only one?

How do we choose partners? Few might believe that there is only one "right" – but how many "right" people are there? And is it really a free choice we are making? Listen to Gunnar Bjursell, Professor of Molecular Biology at Göteborg University, discuss our choices in love with a teenager. In Swedish.

### 27 August, 13:30–13:50 When do the trees know it is autumn?

We look at the leaves on the trees and say "autumn is here", but how do the trees know that? Can the behaviour of a tree teach us something about our climate, and maybe climate change? Listen to Stefan Jansson, Professor at Umeå Plant Centre, talk to a teenager about the being of trees and plants. In Swedish.

### 27 August, 17:00–17:20 Day after tomorrow – Hollywood saga or realistic scenario?

Are we facing a new ice age soon? Or are the poles melting in such a pace that we can expect big floods? Listen to Dave

Stainforth, professor in Physics at Oxford University talk to a teenager about risks with climate change. In English.

### 28 August, 13:30–13:50 Vaccine against cancer?!

What if you could be inoculated against cancer? Is it possible? If so, would that make you immune to all sorts of cancer? Listen to Gustav Gaudernack from the Norwegian Radium Hospital talk to a teenager about future cancer therapy. In Swedish/Norwegian.

**Time:** 25–28 August, schedule see above

**Venue:** Kungsträdgården

**Organiser:** Vetenskap och Allmänhet, VA

**Language:** Swedish and English

**SCHOOL**

## Vattenfall Science Dialogue

Vattenfall will share its knowledge and experience about energy and energy technologies with the visitors to the Science in the City activities. Lectures will be followed up with the opportunity to ask questions and to have discussions. We are looking forward to a dialogue for mutual benefit. Subjects that will be brought up are: Future energy systems, coal power without carbon oxide, wind power, biofuels, water power, nuclear power.

### Stage programme:

**25 August, 12:30–13:00** Renewable energy in various forms.

**25 August, 14:30–15:00** How we use electricity: yesterday, today and tomorrow.

**26 August, 12:30–12:50** Fossil fuels without carbon dioxide.

**26 August, 14:30–14:50** Vattenfall and biofuels.

**27 August, 12:30–13:00** Renewable energy in various forms.

**27 August, 14:30–15:00** How will future energy systems be developed?

**28 August, 12:30–13:00** Fossil fuels without carbon dioxide.

**28 August, 14:30–15:00** Vattenfall and biofuels.

**Time:** 25–28 August

**Venue:** Kungsträdgården

**Organiser:** Vattenfall AB

**Language:** Swedish

**SCHOOL**

## Workout – a Combination of Science and Well-being

A gym instructor from Friskis & Sveltis, together with researchers, talks and illustrates health science with gym activities.

**Researchers:** Li Lindberg, PhD

**Time:** 25, 27 and 28 August, 11:30

**Venue:** Kungsträdgården

**Organiser:** Friskis & Sveltis

# AROUND TOWN

Free admission to all activities!

## Expedition into the Microcosmos

World-wide, Natural History Museums collect enormous numbers of animals, fossils and minerals for scientific research. Yet the general public is usually unaware that these collections exist. Why do we need these collections? What impact might collections research have on our daily lives? Visitors to our interactive exhibition will be able to observe fascinating minerals and live animals under modern microscopes. At regular intervals, the nine scientists will present short talks about their scientific research. Scheduled hours for school classes every 45 min, 10:00, 10:45, 11:30 and 12:15, 24–27 August. Scientists talk between 14:00–18:30 everyday.

**Time:** 24–29 August

**Venue:** The Swedish Museum of Natural History

**Organiser:** Museum of Natural History, Germany

**Language:** English

**SCHOOL**

## DNA Art

Artist Jacques Deshaies shows his exciting genomic and proteomic new DNA culture art. An exercise in art/science communication.

**Time:** 25–28 August, 10:00–19:00. Saturday, 12:00–19:00

**Venue:** Karolinska Institutet Biobank, located at Karolinska Institutet's north campus in Solna, The Wargentin Building, Nobels väg 12A.

**Organiser:** Jacques Deshaies, Canada

## What Does Science Mean to You?

A chance for all sectors of society to express opinions in real time voting on modern biology and its applications! As well as celebrating some of the contributions of European life science research towards improved life and lives, we will critically examine controversial areas of research, the challenges in public perception, dialogue, and education in the life sciences. In the context of discussions, the public will be able to interact with leading communicators on subjects from genetically modified plants to nanotechnology, and more!

**Time:** 28 August, 14:45–17:45

**Venue:** Congress Hall AB, Folkets Hus

**Organiser:** EMBO – European Molecular Biology Organisation

**Language:** English

## Electronic Visits from Neighbouring Laboratories in Europe

Experience has shown that direct encounters between young people and active scientists can be very conducive to greater interest in science among students about to decide their future careers. This session will include teleconferences to four EIROforum world-class research laboratories from where

experienced scientists at their workplace will introduce their current front-line work and interact live with the audience in Stockholm. The fields will include particle (CERN) and astrophysics (ESO), as well as human genome (EMBL) and space research (ESA). Swedish scientists with relation to these organizations will also participate.

Especially invited guests, school pupils, aged 15–18 years. Contact ESOF2004 for booking.

**Moderator:** Richard West

**Time:** 26 August, 14:45–16:45

**Venue:** Congress Hall C, Folkets Hus

**Organiser:** EIROforum

**Language:** Swedish and English

**SCHOOL**

## Earthquakes, World Jigsaw, Water & Weather, Crystal Cool

Wednesday August 25 you as a teacher are invited together with your class to participate in an exciting school programme.

**Lecture for senior compulsory school and upper secondary school:**

10:00 and 14:00 “Is it possible to predict earthquakes?”

At a conference in New York City in 1926, Alfred Wegener presented his hypothesis – that continents are moving. We take your pupils on an animated and interactive journey from Wegener's continental shift to newly published results that possibly lead to a method that can predict earthquakes.

**Demonstrations for pupils at intermediate level:**

9:00, 11:00 and 13:30 “World Jigsaw, Water and Weather, Crystal Cool”. A visit takes about one and a half hour. Pupils are divided in groups and are presented to different geological themes.

**World Jigsaw**

With help from our geologists, the pupils themselves construct the ancient giant continent “Pangea” from jigsaw pieces – the continents as we know them today. Pupils also learn about the movements of the continents in the future and discuss volcanoes, earthquakes, climate change and much more.

**Crystal Cool**

Here pupils find out what the earth consists of. From ordinary Stockholm granite, we proceed to minerals, molecules and atoms. Pupils discover how the arrangement of atoms gives crystals their incredibly beautiful shapes.

**Water and Weather**

The pupils discuss the forces of weather and discover how warm and cold fronts are behaving and get to know why. Pupils can clear out why and how water masses with different salt levels behaves.

**Booking and questions:** School informer Anja Riise, E-mail: Anja.riise@geo.su.se Phone: +46 (0) 8 16 49 01

**Time:** 25 August

**Venue:** The Geo Building at Stockholm University

**Organiser:** Geoforum, Stockholm University

**Language:** Swedish

**SCHOOL**



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Satellite Events will take place directly before or after ESOF2004 or connect to the event by being in line with a scientific session. Some Satellite Events are open to the public (registered participants only), others are only open to ESOF2004 delegates or special invitees. The events will make it possible for the participants to register and attend ESOF2004.

# Visit us at ESOF2004!

## The Swedish Council for Working Life and Social Research (FAS)

initiates and supports basic and applied research with a view to improving our knowledge about working life, public health and welfare.

### **Main areas:**

- Work and health
- Work organisation
- Labour market issues
- Public health
- Welfare and social policy
- Social services and social relations

### **Funding instruments**

FAS uses a variety of funding instruments in order to promote and encourage research, internationalisation and the dissemination of knowledge.

#### **Research**

Project grants  
Programme grants  
Research positions  
Post-doc awards

#### **Dissemination of knowledge**

Networks  
Conferences/symposia  
Publication grants

#### **Internationalisation**

Travel grants  
Scholarships for research and post-doc studies abroad  
Grants for visiting researchers

For more information on FAS and research funded by FAS, please visit our website,  
**[www.fas.forskning.se/en/](http://www.fas.forskning.se/en/)**





## Early stage researcher mobility in Europe: meeting the challenges and promoting best practice

One Satellite Event, "Early Stage Researcher Mobility in Europe: Meeting the Challenges and Promoting Best Practice" (ESRM 2004), has already been held in Lisbon, 25-27 February, 2004. It was organised by Marie Curie Fellowship Association and the outcome of this conference will be the basis for one of the sessions during the MCFA Mobility workshop at ESOF2004, in Stockholm.

## Managing a transformation to a low carbon economy

**Organiser/contact:** Rachid Adghoughi, European Science Foundation, France

Monday 23 August	12:00-18:00
Tuesday 24 August	09:00-18:00
Consultation session for proposal development	14:30-18:00

Karolinska Institutet, Atrium, MEB, Nobels väg 12B

More information can be found on [www.esf.org/carbon](http://www.esf.org/carbon)  
Registration: [scss@esf.org](mailto:scss@esf.org)

The ESF-Forward Look on Global Change, held in 2002, resulted in several important recommendations. In order to address the recommendation 3a "Collaboration between the natural sciences and the social sciences" the ESF-Standing Committees for Life, Environmental and Earth Sciences and Social Sciences are going to organise a workshop focused the topic "Carbon and Energy". An important element of this workshop is to link the evidence arising from the natural science programmes of work to the implications for cultural and political attitudes to consumption of energy, acceptance of different lifestyles, new forms of governing and community organisation, and the drivers for new technology.

The workshop will be trans-disciplinary and seek to develop fresh theories of central guidance and local self organising responses to low carbon futures.

The central aim is to assess the possible pathways to a low carbon pathway in terms of indicating the advantages for ecological resilience, lower damage and adaptation costs, and a fresh approach to a low carbon community "citizenship". So the research should link scenarios and prediction of new approaches to technology, regulation, policy and governing that will seek to deliver lower carbon futures.

## Biotechnology: possibilities, risks, ethics and society

**Organiser/contact:** Anna Sandström, The Royal Swedish Academy of Engineering Sciences (IVA), Sweden

### Co-organisers:

FAST (Federation of Scientific and Technical Associations, Italy), Aventis, Institut de France Foundation, and Euro-Case (independent, non-profit organisation of academies of applied sciences, technologies and engineering from 18 European countries).

Tuesday 24 August	08:00-17:00
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Näringslivets Hus, Storgatan 19

For special registration see:  
[www.iva.se/sciencegeneration/anmalan/anmalan.asp](http://www.iva.se/sciencegeneration/anmalan/anmalan.asp)

An international symposium in connection with the Science Generation project.

The symposium will include a number of presentations, amongst others a vision of future biotech applications, but the main focus will be two round-table discussions on genetically modified crops and genetic integrity. The discussions will demonstrate the need for "bridging the gap between science and society". The symposium is organised by the Royal Swedish Academy of Engineering Sciences and funded by the European Commission. The project Science Generation aims to bridge the gap between science and society by promoting a dialogue on possibilities, risks and ethics. This will promote increased awareness and knowledge of biosciences and biotechnology. To achieve this goal, the project has initiated local mobilisation channels involving primarily young people, parents and teachers. Read more on [www.science-generation.com](http://www.science-generation.com)

## European cultural heritage research – its future role in European science

**Organiser/contact:** Paul Peeters, "Friends of the Organ Art" in cooperation with the Göteborg Organ Art Center (GOArt) at Göteborg University and The Bank of Sweden Tercentenary Foundation

Tuesday 24 August	09:00-17:00
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Kulturhuset, Studio 3, 3rd floor, Sergels Torg

For registration: [paul.peeters@musik.gu.se](mailto:paul.peeters@musik.gu.se)

What should be the future role of European Cultural Heritage Research? How does the European Commission, how do politicians, policy makers, researchers and those involved in cultural heritage work answer this question? What should be done on a European level, what should be focused on at the national level? How can we make sure that policy makers recognize and reward the importance of the innovative and multi-disciplinary character of something so universal as Cultural Heritage Research?

In four sessions of lectures and panel discussions, these important and challenging questions will be highlighted:

1. The Future of European Science and Cultural Research
  2. Economic Impact and Marketing of Cultural Heritage Research
  3. Technical Research and Cultural Heritage Research – Three Case Studies
  4. Intangible Cultural Heritage – a presentation of the new UNESCO Cultural Heritage concept
- <http://www.goart.gu.se/esof/>

## Sustainability gathering

**Organiser/contact:** NORDREGIO

Tuesday 24 August	09:00-11:00
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NORDREGIO, Holmamiralens väg 10, Skeppsholmen

Registration (free) latest the 23 August at noon to:  
[liselott.happ@nordregio.se](mailto:liselott.happ@nordregio.se)

For those interested in research related to Sustainable Development and connected issues an informal "getting together" event – a sort of simple social event - is arranged in the afternoon the day before the main conference has started. If the weather is nice the gathering

might be arranged outdoors on the grass lawn connected to the meeting place. Not the least young researchers are encouraged to come. This is intended to provide chances for “mingle” and informal contacts. At the gathering a short presentation will be made by the chair person Tuija Hilding Rydevik of the new Swedish Association Research for Sustainable Development (Föreningen Vetenskap för Hållbar Utveckling, VHU). She will talk about the initiative to create a platform for researchers and others interested in sustainable development and how that has recently been manifested in Sweden. Participants from other countries are encouraged to bring material from similar activities around Europe.

## **Boat excursion in the Nationalpark**

**Organiser/contact:** Ulla Save-Öfverholm, Formas, Sweden

Tuesday 24 August 16:00-19:00  
Strömkajen/Nybroviken

Price: 350 sek/person  
Registration: ulla.save@formas.se

Boat excursion for the conference delegates in the Nationalpark with continuous stops. Start at Strömkajen/Nybroviken. Guides follow the excursion and light meal is served.

## **Put the allspace in a nutshell - A panel discussion on "Art and Science"**

**Organiser/contact:** Nobel Museum, Volkswagenstiftung, Riksbankens Jubileumsfond

Tuesday 24 August 19:00-21:00  
The Nobel Museum

The Nobel Museum presents "Science + Fiction Between the Nanoworld and Global Cultures". A central theme of the exhibition is dealing with our perception of reality in science and art. Thinking in models is a decisive strategy of communication and explanation in the field of art and science.

A summer workshop with students from 18 - 24 of August, held by the curators (Stefan Iglhaut/Thomas Spring) and the designers (Jens Imig/Stefan Rothert) of the Science? Fiction exhibition, will put its focus on this subject.

## **Open seminar on global change research in Europe**

**Organiser/contact:** IGFA secretariat

Wednesday 25 August 09:00-11:00  
IGFA Secretariat, Formas, Birger Jarls Torg 5  
(on Riddarholmen, close to the Old Town)

Registration latest on 23 August: igfa@formas.se

This informal meeting is arranged by IGFA (The International Group of Funding Agencies for Global Change Research) in cooperation with ICSU and ESF. The meeting will discuss organisational and financial matters in Europe in this research field. Short introductions will be given by Uno Svedin (IGFA), Thomas Rosswall (ICSU) and John Marks (ESF). The number of participants is limited due to practical reasons and thus pre-registration is necessary .

## **Science generation: Euro-CASE workshop**

**Organiser/contact:** Anna Sandström, The Royal Swedish Academy of Engineering Sciences (IVA)

Wednesday 25 August 09:00-12:00  
Closed meeting IVA, Grev Turegatan 16

The workshop is organised to provide opportunities for an exchange of knowledge and experiences between the Science Generation project and other similar initiatives in the various European countries. The workshop will include a presentation of the activities, results and experiences from the Science Generation project in France, Italy and Sweden as well as of experiences of other initiatives with similar objectives. The workshop is organised by Euro-Case, an independent, non-profit organisation of academies of applied sciences, technologies and engineering from 18 European countries. The project Science Generation aims to bridge the gap between science and society by promoting a dialogue on possibilities, risks and ethics.

## **Stockholm annual rings - bus excursion**

**Organiser/contact:** Ulla Save-Öfverholm, Formas, Sweden

Saturday 28 August 13:00-16:00

Registration: ulla.save@formas.se

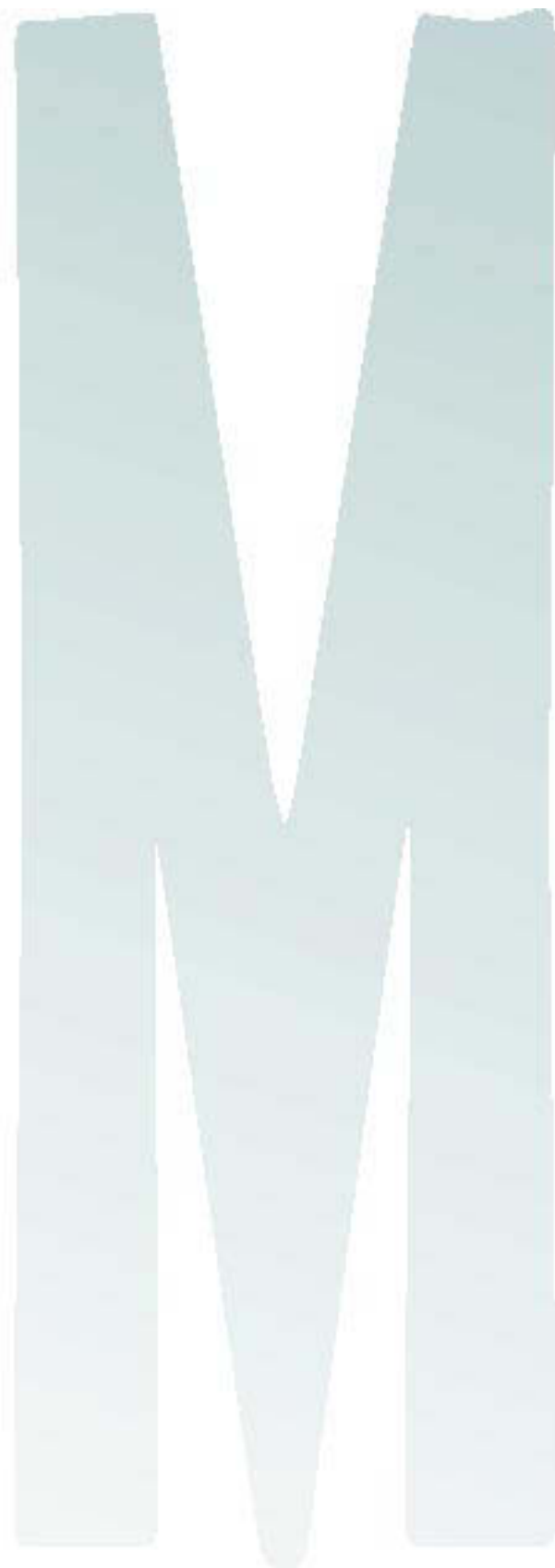
Guided bus excursion that shows the construction development in greater Stockholm.

## **Green Technology**

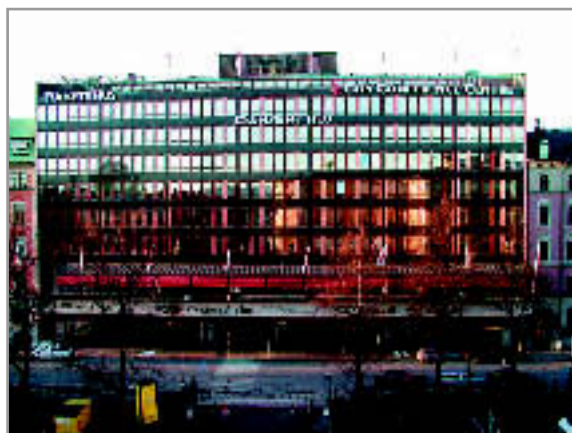
**Organiser/contact:** Asia-Europe Foundation

Thursday 27 - Friday 27 August

The Asia-Europe Environment Forum will arrange a meeting under the theme "Green Technology", 26 - 27 August. This would be the third roundtable of the Asia-Europe Environment Forum co-organised by the Asia-Europe Foundation, the Hanns Seidel Foundation (Germany-Singapore office), the Institute for Global and Environmental Strategies (Japan), and the United Nations Environment Programme.



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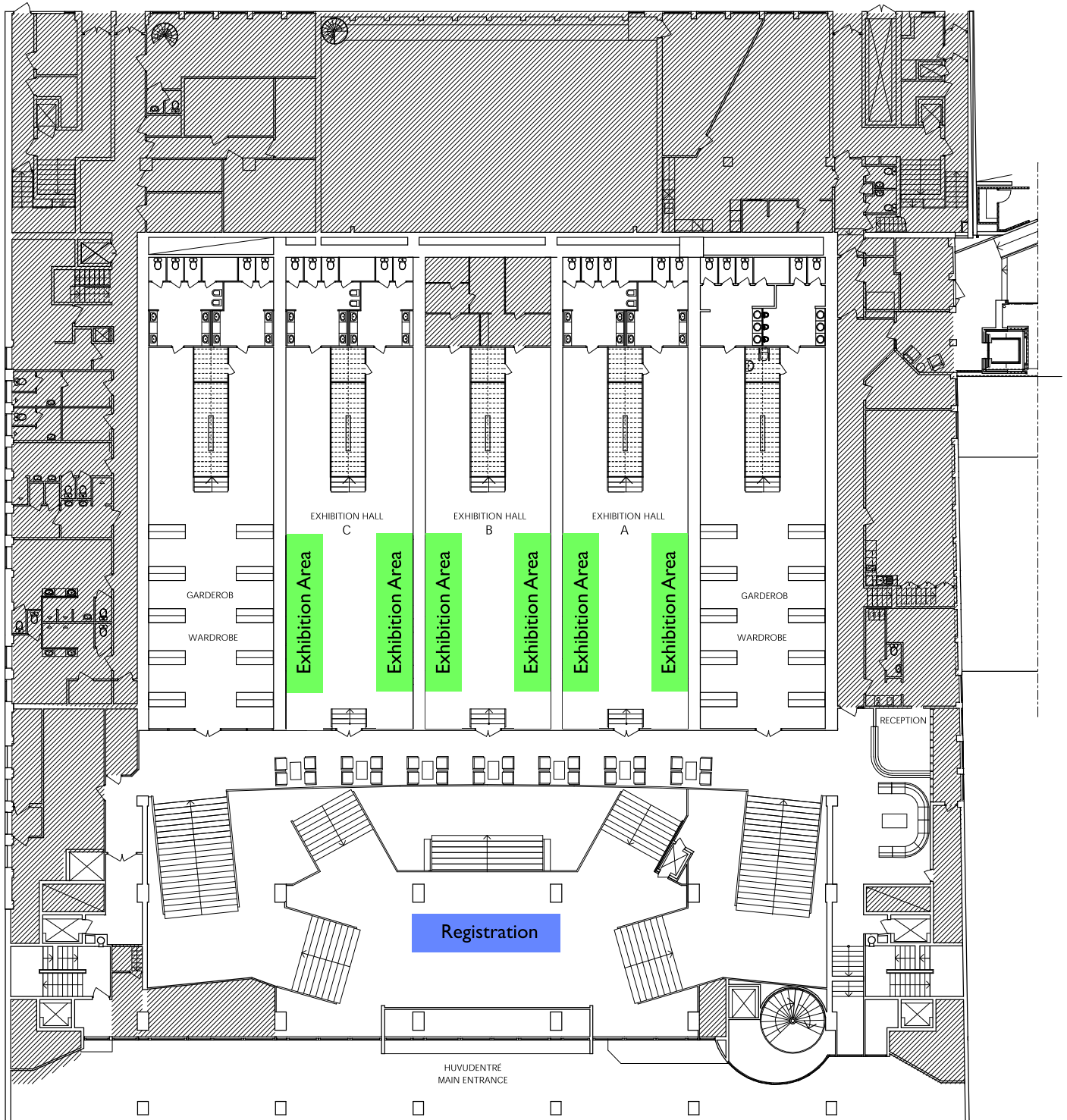
Folkets Hus



Norra Latin

# Folkets Hus, Entry Level

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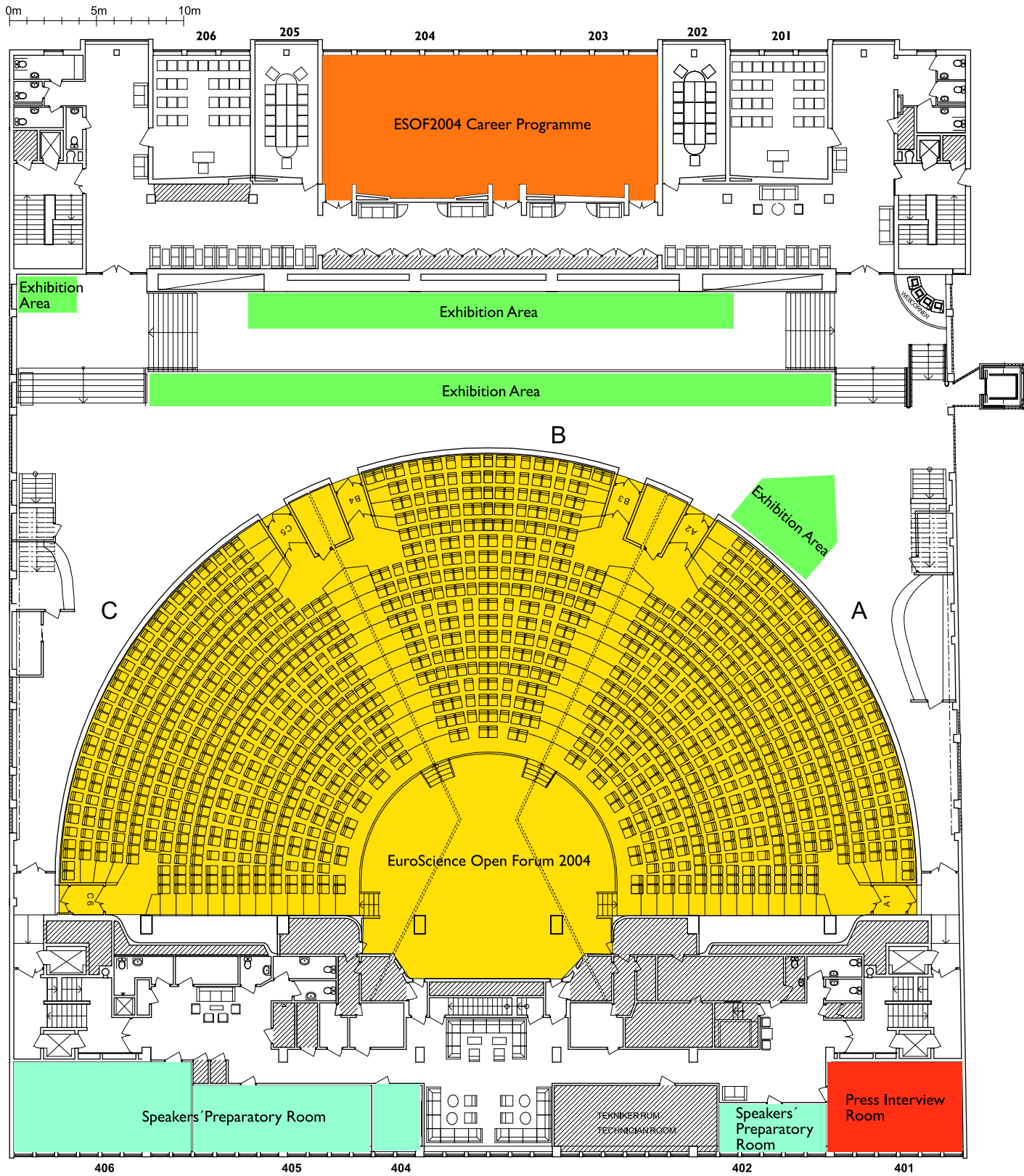


FOLKETS HUS  
Entréplan med utställningshallar  
Main entrance with exhibition halls

0m 5m 10m

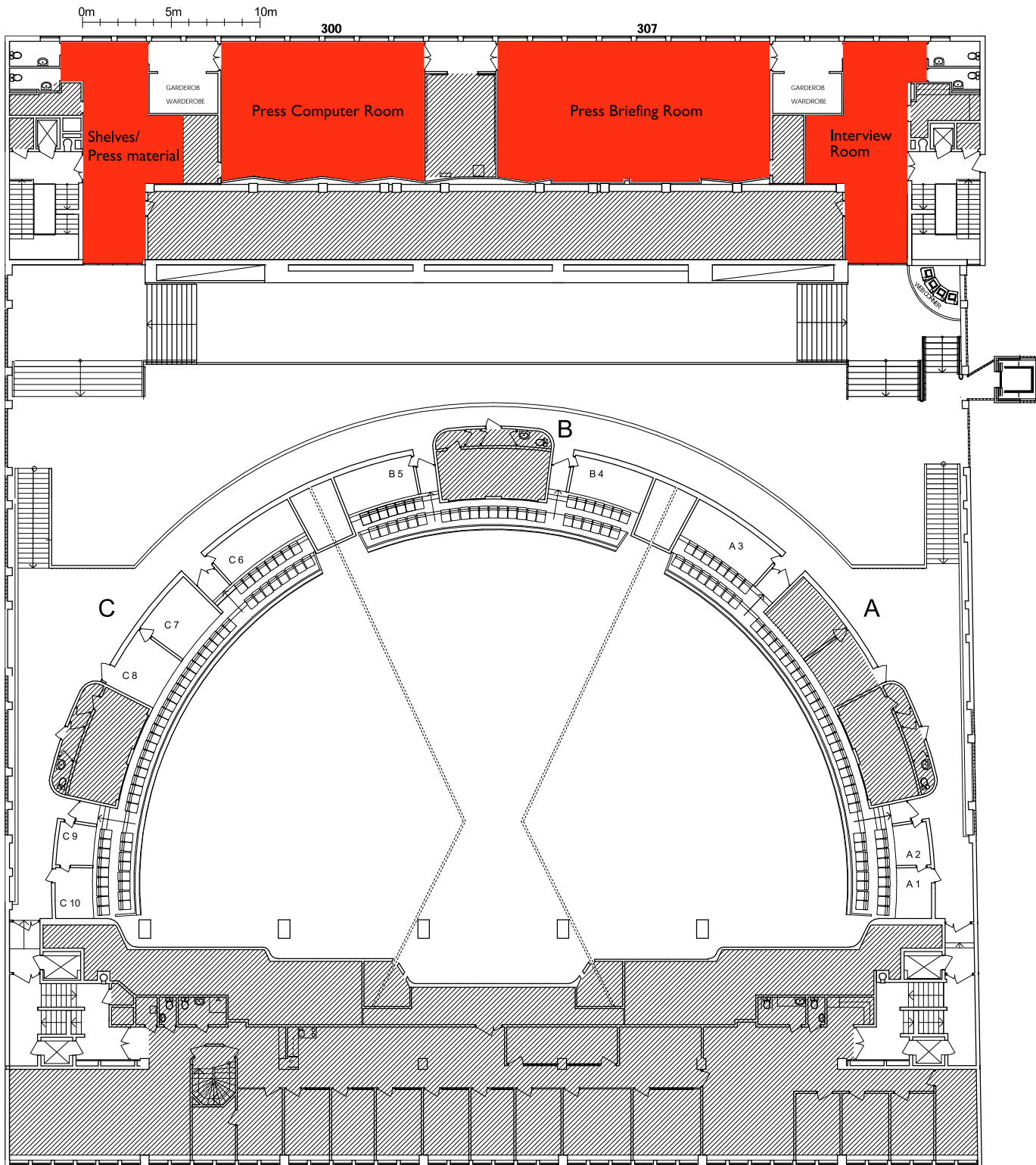


# Folkets Hus, The Congress Hall, 2nd and 4th Floor



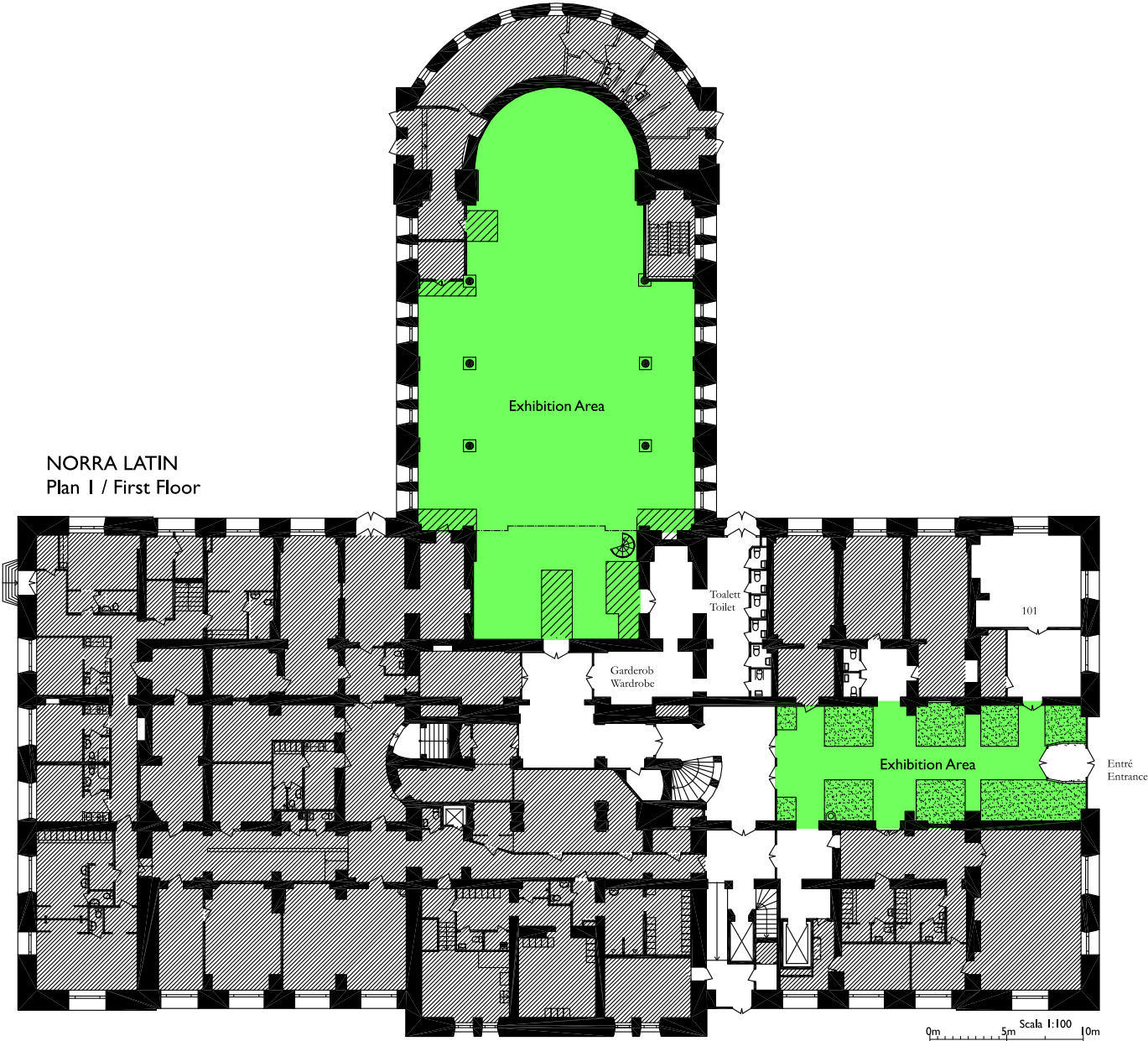
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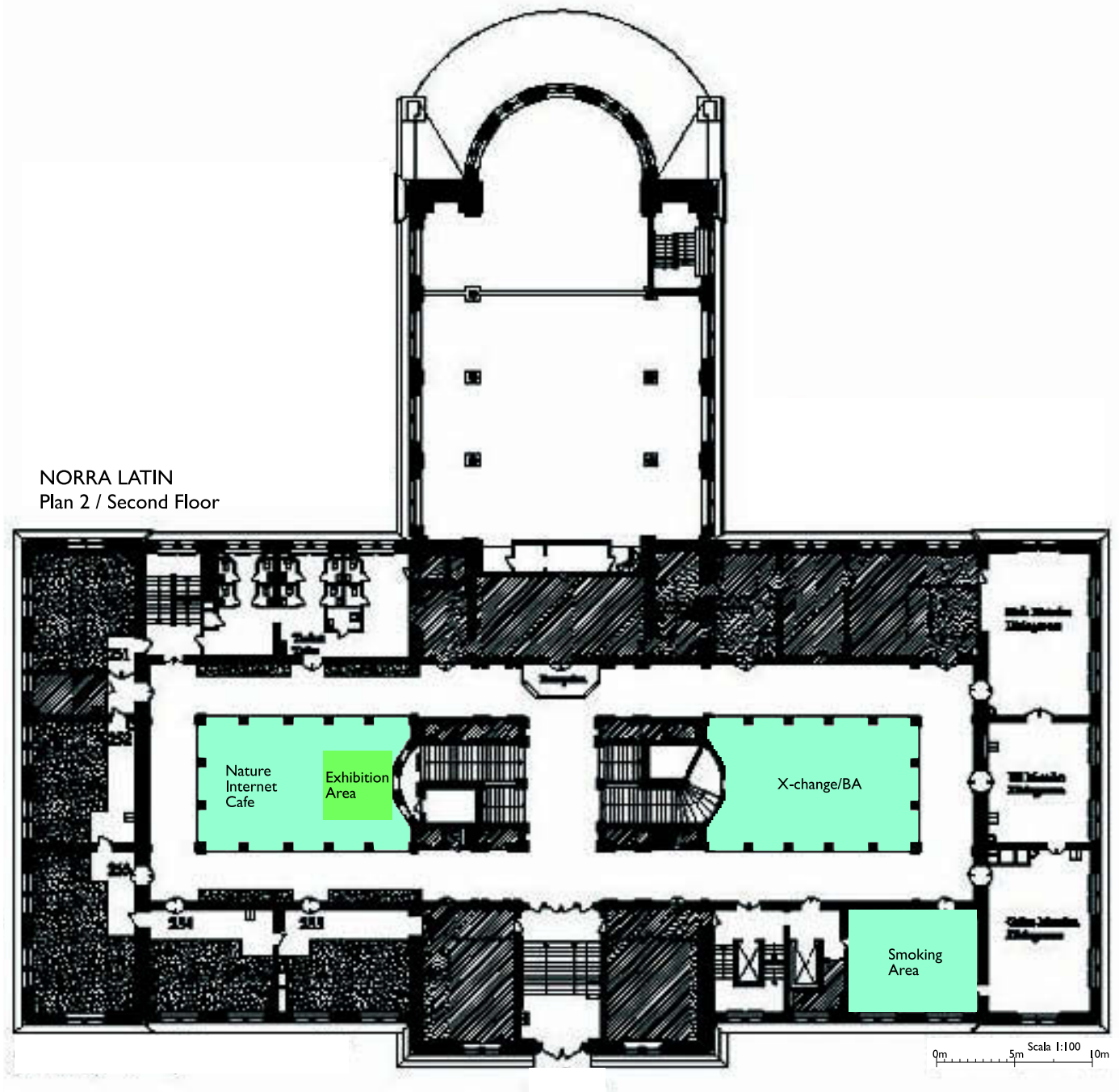


FOLKETS HUS Våning 3 med Kongresshallsläktaren  
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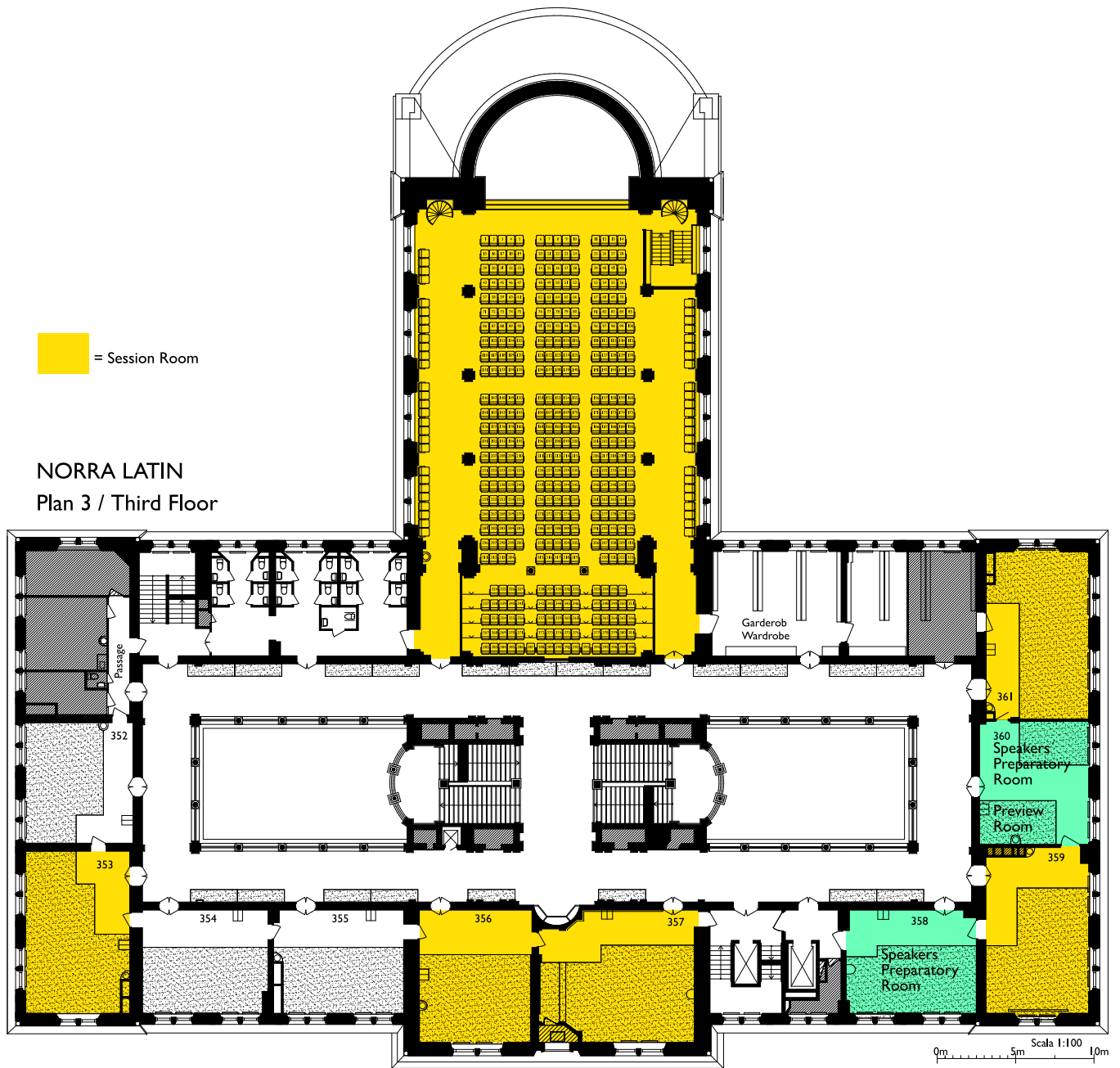
NORRA LATIN  
Plan I / First Floor



# Norra Latin, 2nd Floor

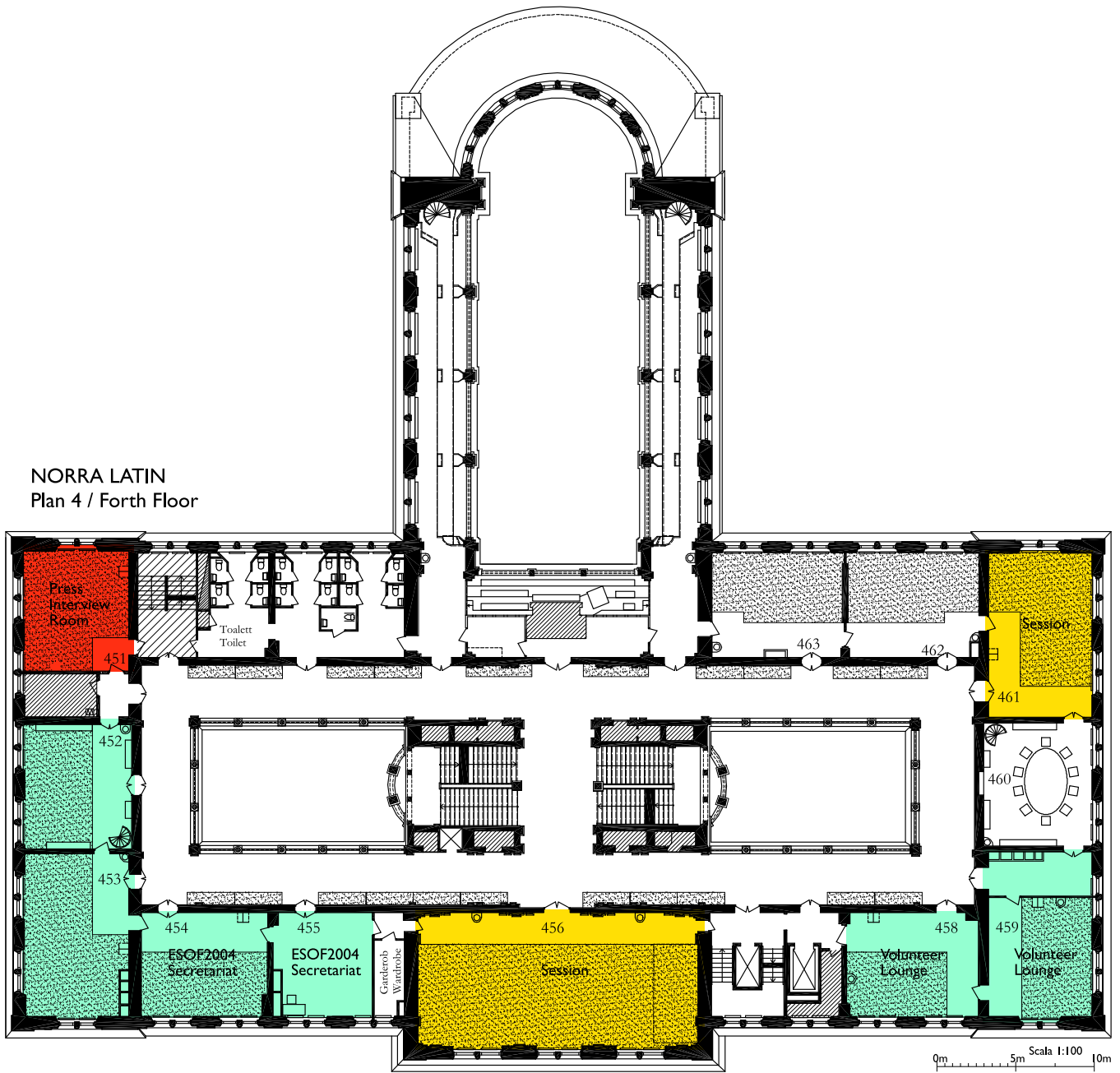






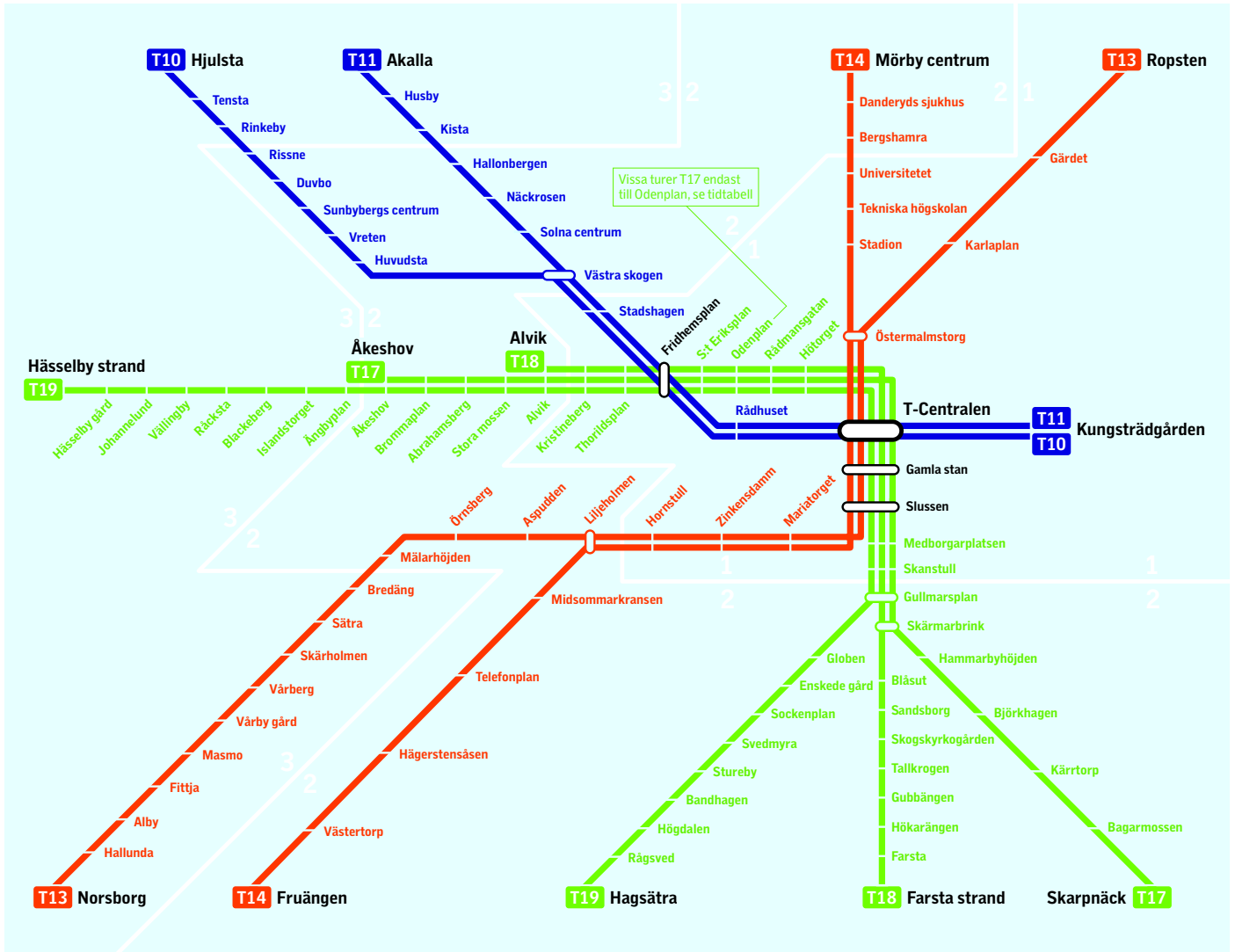
# Norra Latin, 4th Floor

NORRA LATIN  
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# Subway line Net

- █ Red line
- █ Blue Line
- █ Green Line



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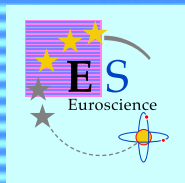


Programme book  
Editing group: Gabriella Norlin, Mona Holmfors, Irene Magnion,  
Carl Johan Sundberg, Marie-Louise Sundin  
Cover: Dans les villes, Strasbourg

Graphic design Science in the City: Birgitta Fors  
Map illustration pp SC8-9: Peter Göransson  
Maps: Jan Erik Wikström  
Print: Roos Tryckerier AB, Sundbyberg 2004




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