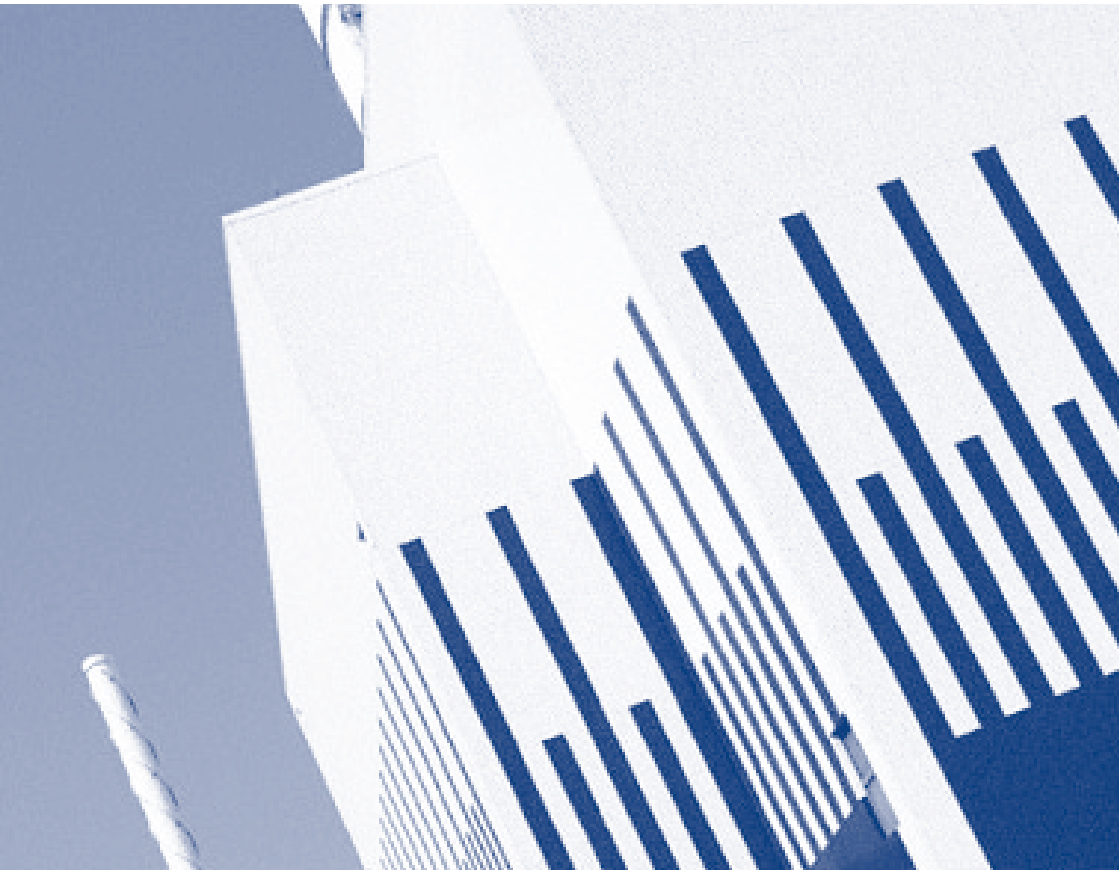




SEMINAR

15 May 2006, 09.30–17 00
the Royal Swedish Academy of Sciences

Future Nuclear Energy



Future Nuclear Energy

All over the world, there is a renewed interest in nuclear energy. A strong expansion of this energy form is likely to occur. By 2050 the world demand for energy and electricity should have doubled according to the projections of current energy consumption. Today 65 new nuclear power plants are planned or are under construction of which 19 in China and India. Another 113 are proposed. The USA has initiated an international forum for engaging governments, industry and research communities in developing the next generation of nuclear energy systems, so called Generation IV. The purpose is to develop systems that would be available for worldwide deployment by 2030 or earlier. These future power plants are expected to have advantages that include reduced capital cost, enhanced nuclear safety, minimal generation of nuclear waste, and further reduction of the risk of weapons materials proliferation.

The current status of the development of future nuclear energy systems, in particular Generation IV, will be presented at the seminar by leading scientists from Finland, France, Japan and the US. A panel discussion will focus on how future civil nuclear energy may be developed without the risk of extension to the weapons sector. **Hans Blix** who presently works with a new report on weapons of mass destruction for the United Nations, will introduce the discussion by a talk on the fuel cycle and non proliferation.

Practical Information

VENUE: Beijersalen, The Royal Swedish Academy of Sciences

ADDRESS: Lilla Frescativägen 4 A, Stockholm

LANGUAGE: English

REGISTRATION at the Academy's website: www.kva.se no later than 28 April 2006

FEE: 300 SEK includes light lunch and will be charged at registration

MORE INFORMATION and late changes on www.kva.se or contact Annika Olofsdotter, annika.olofsdotter@kva.se, phone: 08 673 95 25, or Karl Grandin, karlg@kva.se, phone: 08 673 96 16

Programme 9.30–17.00

Registration and coffee from 09.00

9.30

Introduction

9.40

Why Finland commits itself to new nuclear power?

Mikko Kara, VTT Technical Research Centre of Finland

10.40

The future of nuclear energy – Generation IV, the US case

Mujid Kazimi, Massachusetts Institute of Technology

11.40

Lunch

13.00

The French view on the future of nuclear energy

Jacques Bouchard, Commissariat à l'Énergie Atomique

14.00

*From Generation III to Generation IV –
the Japanese nuclear programme*

Yutaka Sagayama, Japan Atomic Energy Agency

15.00

Break for coffee

15:15

*Discussion on how future civil nuclear energy may be developed
without the risk of proliferation of weapons material*

Introduction by **Hans Blix**, formerly Director General of the International Atomic Energy Agency, IAEA, **Masako Ikegami**, Director of the Center for Pacific Asia Studies, Stockholm University, **Saida Laârouchi Engström**, Head of EIA at Swedish Nuclear Fuel and Waste Management Co, SKB, **Lena Oliver**, Researcher at Department of nuclear weapon issues and detection at Swedish Defence Research Agency, FOI and **Waclaw Gudowski**, Prof. of reactor physics, Royal Institute of Technology, KTH.

17.00

End of seminar



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THE ROYAL SWEDISH ACADEMY OF SCIENCES

P.O. Box 50005,
SE-104 05 Stockholm, Sweden
Phone: +46 8 673 95 00,
Fax: +46 8 15 56 70,
E-mail: info@kva.se

MORE EVENTS: WWW.KVA.SE

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In co-operation with



KUNGL. INGENJÖRSVETENSKAPSAKADEMIEN
Royal Swedish Academy of Engineering Sciences

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