



WORLD
NUCLEAR
UNIVERSITY

ATOMS FOR SUSTAINABLE DEVELOPMENT

THE SECOND ANNUAL **WNU SUMMER INSTITUTE**

8 July – 18 August 2006

A Fellowship offering a unique career-building experience for future world leaders in nuclear science and technology

Hosted by the Swedish Centre for Nuclear Technology (SCNT), Sweden's Royal Institute of Technology (RIT) and France's Commissariat à l'Énergie Atomique (CEA)

Applications are now invited for this exciting opportunity in the realm of nuclear education:
the World Nuclear University (WNU) Fellowship.

The WNU is a partnership of the world's leading institutions of nuclear learning (see inset, overleaf). The annual WNU Summer Institute is a manifestation of this global partnership.

WNU Fellows are educated in a broad spectrum of nuclear energy issues, engage in team-building and leadership exercises, and become part of an expanding global network of future leaders in the nuclear profession.

In 2005, some 77 WNU Fellows from 34 countries were selected from among the world's leading nuclear students and young professionals to travel to Idaho Falls, USA, for this unique 6-week training experience.

A similar number of WNU Fellows is expected to be chosen for the 2006 Summer Institute in Sweden and France.

In 2006, the Summer Institute will again feature instruction from some of the world's foremost leaders in science, engineering and environment. After 5 weeks in Sweden, WNU Fellows will take a week-long technical tour in France, visiting several of that nation's top nuclear fuel cycle, nuclear research, and nuclear power facilities.

The principal Swedish host, the Swedish Centre for Nuclear Technology (SCNT), works to develop and support research and education at Swedish universities in nuclear science and technology.

This Summer Institute's other hosts are Sweden's Royal Institute of Technology (RIT) and France's Commissariat à l'Energie Atomique (CEA), in association with the French National Institute for Nuclear Science and Technology (INSTN). Both the Swedish and the French hosts are contributing generously in assisting the WNU Coordinating Centre in the planning and execution of this unique event.

The curriculum for WNU Fellows will be designed to provide cutting-edge presentations from leading world experts on the full range of topics relevant to the future of nuclear technology:

- **Global Setting**, including energy supply and demand, global warming and climate change, nuclear technology in sustainable development, lessons in public acceptance, and key political issues and trends
- **International Regimes**, including safety, radiological protection, non-proliferation and security, waste management, transport, nuclear law, and global emissions control
- **Technology Innovation**, including next-generation reactors, advanced fuel cycle, hydrogen production, and desalination
- **Nuclear Industry Operations**, including industry economics, knowledge management, fuel market, comparative risk assessment, social ethics, and operational excellence

WNU Fellows will graduate in a ceremony presided over by WNU Chancellor and IAEA Director General-Emeritus Hans Blix. Each WNU Fellow will receive a Certificate and such academic credit as may be awarded by that Fellow's own educational institution.

WNU Fellowship applications may be found on the World Nuclear University website (www.world-nuclear-university.org). The deadline for receipt of applications will be 5 December 2005.

Qualification criteria for the WNU Fellowship are (1) master's level or equivalent experience in science or engineering, with knowledge of nuclear fundamentals; (2) demonstrated academic or professional excellence; (3) proficiency in English, particularly oral communication; and (4) maximum age of 35, with exceptions to be considered on the basis of unusual merit.

The cost of participation will be a fixed tuition fee of 9,500 Euros plus travel to and from the Summer Institute. Fellows will begin in Stockholm and will return home from Paris. The tuition fee will cover all coursework, housing, food, and travel from Sweden to France.

While attending the Summer Institute, WNU Fellows will occupy individual rooms in a hotel near downtown Stockholm, will visit Swedish nuclear facilities, will be offered a diverse programme of social events and excursions, and will have weekends available for recreational and social activity. Spouses may accompany participants for a small additional expense.

Participants from government and industry will be expected to cover their own expenses. Many applicants from developing countries should be eligible for IAEA assistance. A few applicants without a source of full funding may receive assistance, as available, from the WNU budget.

Selection of WNU Fellows will be made through a consultation process, led by the WNU Coordinating Centre, that includes the Founding Supporters and Country Representatives in the WNU partnership network.

The aim of the selection process will be a synergistic, internationally diverse mix of leading students and top young professionals already in government or the nuclear industry.

The World Nuclear University's mission is to foster inter-institutional cooperation to enhance nuclear coursework at participating institutions, to establish widely accepted global standards in academic and professional qualification, to elevate the prestige of the nuclear profession, and to develop and inspire a new generation of leaders in nuclear technology worldwide.

Inaugurated in 2003 and encompassing key institutions of nuclear learning in more than 30 nations, the WNU partnership has four "Founding Supporters": the International Atomic Energy Agency, the OECD's Nuclear Energy Agency, the World Nuclear Association, and the World Association of Nuclear Operators.

WNU activities are organised by a small professional secretariat at the WNU Coordinating Centre in London (www.world-nuclear-university.org), which functions with administrative support from the WNA. The WNU secretariat is composed of experienced nuclear professionals (some seconded by major nuclear organizations), as well as former WNU Fellows. Financial support for WNU activities has come from forward-looking companies, governments, and the IAEA technical cooperation programme. Key philanthropies are being asked to provide additional support to strengthen and broaden the scope of WNU activities, particularly in the developing countries.