



WORLD
NUCLEAR
UNIVERSITY

ATOMS FOR SUSTAINABLE DEVELOPMENT

THE THIRD ANNUAL **WNU SUMMER INSTITUTE**

14 July – 24 August 2007

Daejeon, Korea

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

Organized by the WNU Coordinating Centre
in cooperation with WNA, IAEA, NEA and WANO,
and hosted by

Korea Atomic Energy Research Institute (KAERI) and
Korea Hydro & Nuclear Power Co. (KHNP)

**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 and four major Founding Supporters (see inset, overleaf). The annual WNU Summer Institute is a manifestation of this global partnership.

WNU Fellows from more than 30 countries 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.

The inaugural WNU Summer Institute was held in USA in 2005. The 2006 Summer Institute took place in Sweden and France. Korea will host the third WNU-SI.

The WNU Coordinating Centre will organize the 2007 Summer Institute in cooperation with two hosts: Korea Atomic Energy Research Institute (KAERI) and Korea Hydro & Nuclear Power Co. (KHNP).

Some 90 WNU Fellows will be selected from among the world's leading nuclear students and young professionals.

The WNU Fellows will participate in a unique six-week training experience featuring instruction from some of the world's foremost leaders in science, engineering and environment.

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 greenhouse gas emissions control
- **Technology Innovation**, including next-generation reactors, advanced fuel cycle, waste management, hydrogen production, battery-powered transport, 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 & IAEA Director General-Emeritus Hans Blix. Each WNU Fellow will receive a Certificate and such professional or academic credit as may be awarded by that Fellow's own employer or educational institution.

WNU Fellowship application forms are available on the WNU website (www.world-nuclear-university.org), and should be submitted to the WNU Coordinating Centre not later than 30 November 2006.

Qualification criteria for WNU Fellowship are: (1) Master's degree in science, engineering, or business; or reactor operator's licence; or equivalent experience; (2) Knowledge of nuclear fundamentals; (3) Demonstrated academic or professional excellence; (4) Maximum age of 35, with exceptions to be considered on the basis of unusual merit; and (5) Proficiency in English, particularly oral communication (which is essential for effective participation in the WNU-SI programme).

The cost of participation is a fixed tuition fee of US \$9,750 plus travel to and from Daejeon, Korea. The tuition fee will cover all coursework, lodging and meals. While attending the Summer Institute, WNU Fellows will occupy individual rooms in a hotel near Daejeon, visit Korean nuclear facilities, enjoy a diverse programme of social events and excursions, and have weekends available for recreational activities. 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. Some 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, to encourage nuclear policy development, 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 organized by a small professional secretariat at the WNU Coordinating Centre in London (www.world-nuclear-university.org), which draws administrative support from the WNA. The WNU secretariat is composed mainly of experienced nuclear professionals seconded by governments and major nuclear enterprises. 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.