



ATOMS FOR SUSTAINABLE DEVELOPMENT

THE NEW **WNU SUMMER INSTITUTE**

9 July – 20 August 2005

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

Hosted by the U.S. Department of Energy's Idaho National Laboratory
in cooperation with
the Idaho Universities and the Institute of Nuclear Science and Engineering

Applications will soon be invited for an exciting new opportunity in the realm of nuclear education:
the World Nuclear University (WNU) Fellowship.

Inaugurated in September 2003, the WNU is a partnership of the world's leading institutions of nuclear learning (see inset, overleaf). The first annual WNU Summer Institute is a major manifestation of this newly established global partnership.

Some 60 WNU Fellows – selected from among the world's leading nuclear students and young professionals – will participate in a unique 6-week training experience featuring instruction from some of the world's foremost leaders in science, engineering and environment.

WNU Fellows from as many as 30 countries will be 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 U.S. Department of Energy has generously agreed to host the first WNU Summer Institute in July and August 2005 at the Idaho National Laboratory, the designated technology innovation centre for the American nuclear renaissance.

The curriculum for WNU Fellows is being shaped 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

Presenters will include outstanding nuclear and environmental scientists, as well as industry experts, authors and policymakers. Among them will be WNU Chancellor Hans Blix and renowned global environmental scientist James Lovelock, author of Gaia theory.

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 32, with exceptions to be considered on the basis of unusual merit.

WNU Fellowship applications will be circulated in late October 2004 to UN missions in Vienna, to member

companies of WNA and WANO, and to participating institutions in the WNU network. The deadline for receipt of applications will be 1 December 2004.

The cost of participation will be a fixed tuition fee plus travel to and from Idaho Falls, Idaho. The tuition fee will cover all coursework, housing, and food. Estimated preliminarily at about \$9,500, the exact fee amount will be stated on the application when circulated.

Participants from government and industry will be expected to cover their own expenses. Many applicants from developing countries should be eligible for IAEA assistance. 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.

Each WNU Fellow will receive a Certificate and such academic credit as may be awarded by that Fellow's own educational institution.

While in Idaho Falls, WNU Fellows will occupy individual rooms in a hotel overlooking the Snake River, will visit the Idaho nuclear reservation and Yucca Mountain, and will have weekends available for personal activity, including recreational trips to nearby Yellowstone and Grand Teton National Parks. Spouses may accompany participants for a small additional expense.

Future locales for the Summer Institute will be determined as this special event evolves.

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.

Spanning 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). The WNU secretariat is composed of experienced nuclear professionals seconded by major nuclear organisations. Financial support for WNU activities will come from forward-looking companies, governments, philanthropies, and the IAEA technical cooperation programme.