

The World Nuclear University

***INTER-
INSTITUTIONAL
COOPERATION***

FOR THE ENHANCEMENT OF

***NUCLEAR
EDUCATION***

AND THE

***INSPIRATION OF
FUTURE
LEADERS IN
NUCLEAR
TECHNOLOGY***



ATOMS FOR SUSTAINABLE DEVELOPMENT

WNU Coordinating centre London 2011

THE WNU ? Not an ordinary University!

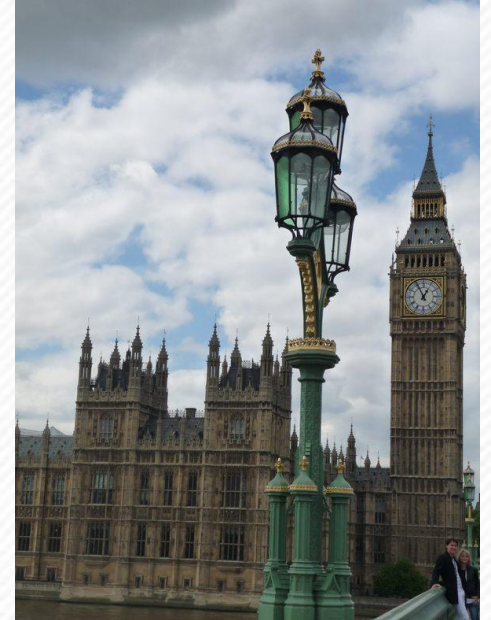
Coordination

A small group of Nuclear Industry Personnel, located in London



Action

Coordinating a global network of Nuclear Industry Experts for lectures and Courses



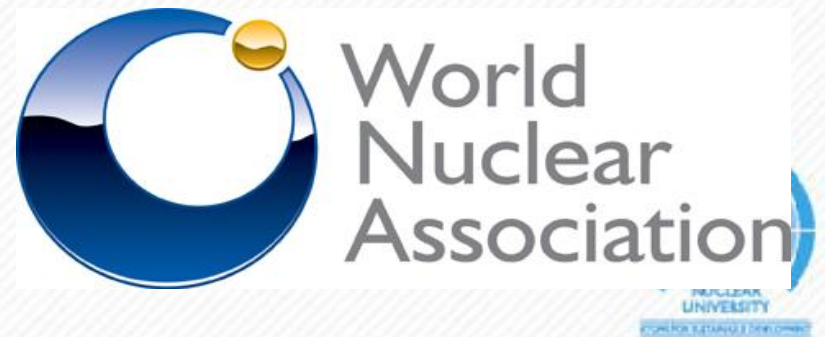
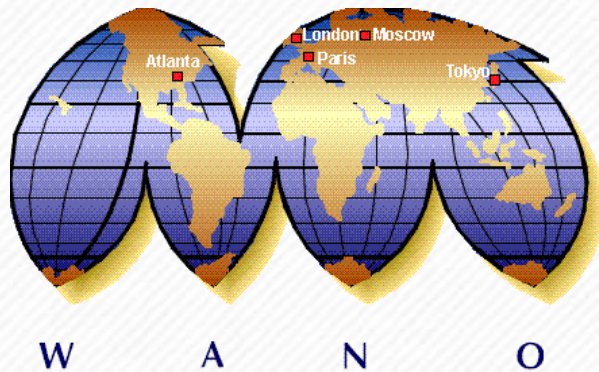
**A University with no walls,
no diploma, no curriculum...**



The Founding Supporters



IAEA



TARGETED AUDIENCE

➤ *WNU Education Programmes are basically aimed at four Classes of Participants:*

1. Young professionals and advanced students
2. Teachers
3. Policy and opinion makers
4. Senior managers within the industry



The programs

- **Summer Institute:** 6 exclusive weeks in Oxford, “better than an MBA”
- **One week course:** “Key Issues in the World Nuclear Industry Today” ... around the “emerging” countries
- **School of Uranium Production:** a unique and comprehensive professional course,
- **School of Radio-Isotopes:** Focused on pacific usages of Nuclear outside electric power generation,
- **Nuclear English:** because English is the common language..
- **Bespoke courses...**

The screenshot shows the World Nuclear University website. At the top left is the WNU logo and the text "World Nuclear University". To the right is a search bar with the text "w n n | Contact WNU | Search" and a search button. Below the header is a navigation menu with the following items: SUMMER INSTITUTE, ONE WEEK COURSES, ONE DAY COURSE, OTHER PROGRAMMES, SPONSORSHIP, PUBLICATIONS, and ABOUT THE WNU. To the right of the menu are two images: one of the Oxford campus and one of two men in blue shirts talking. Below the images is a paragraph of text: "The World Nuclear University is a prestigious global partnership committed to enhancing international education and leadership in the peaceful applications of nuclear science and technology." Below this is another paragraph: "WNU programmes focus on building nuclear leadership and providing orientation on the main issues that affect the global nuclear industry today. They are designed to capitalize on the WNU's strength as a partnership that draws on support from industry, governments and academia." Below the text is a table with three columns: WNU SUMMER INSTITUTE, ONE WEEK COURSES, and ONE DAY COURSES. Each column contains a brief description of the program. At the bottom of the page are four logos: WNA, IAEA, NEA/CECD, and WANO.

World Nuclear University

w n n | Contact WNU | Search

- SUMMER INSTITUTE
- ONE WEEK COURSES
- ONE DAY COURSE
- OTHER PROGRAMMES
- SPONSORSHIP
- PUBLICATIONS
- ABOUT THE WNU

The World Nuclear University is a prestigious global partnership committed to enhancing international education and leadership in the peaceful applications of nuclear science and technology.

WNU programmes focus on building nuclear leadership and providing orientation on the main issues that affect the global nuclear industry today. They are designed to capitalize on the WNU's strength as a partnership that draws on support from industry, governments and academia.

WNU SUMMER INSTITUTE	ONE WEEK COURSES	ONE DAY COURSES
An intensive six-week leadership development programme for nuclear professionals aged 25 to 37.	A 3 to 5 day course providing an expansive view of nuclear power into the future.	A 1 day overview of the crucial issues in the nuclear power industry today.

WNA IAEA NEA/CECD WANO

SUMMER INSTITUTES

the WNU flagship



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THE SEVENTH ANNUAL WNU SUMMER INSTITUTE:

A unique career development programme
for future world leaders in nuclear science and technology

Applications are now invited for the Summer Institute 2011
9 July – 20 August 2011
Christ Church, University of Oxford, UK



The WNU Summer Institute is a six week leadership development programme held annually at Christ Church, Oxford, UK.

The WNU Summer Institute curriculum provides cutting-edge presentations 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, and nuclear law
- Technology Innovation, including current and next-generation reactors, advanced fuel cycle, waste management, hydrogen production, desalination, advanced battery power
- Nuclear Industry Operations, including operational safety and excellence, the nuclear fuel market, industry economics and knowledge management

Each WNU Summer Institute is attended by around 100 young Fellows from around the world, selected from promising nuclear professionals who have demonstrated strong leadership potential. The average age of Fellows over the years has been around 30, and the course is aimed at nuclear professionals between 27 and 37.

The WNU Summer Institute is organized by the World Nuclear University in cooperation with the WNA, IAEA, NEA and WANO and hosted at Christ Church, Oxford.

Hear what former fellows have to say about their experience at WNU Summer Institute:

"If you have the opportunity to attend, grab it with both hands." Dougan, 2009 Fellow, South Africa.

"The opportunity to learn from and with such a diverse, intelligent and engaging group of Fellows."



“The purpose of the annual WNU Summer Institute is to provide a unique educational experience aimed at building future global leadership in the fields of nuclear science and technology”

- **EDUCATION**

Present cutting-edge Knowledge and broad international perspective on the full range of political, environmental and social issues surrounding the peaceful application of nuclear technology;

- **NETWORKING**

Enable participants to experience practical teamwork, and to establish lasting bonds, with peers from many nations,

- **LEADERSHIP**

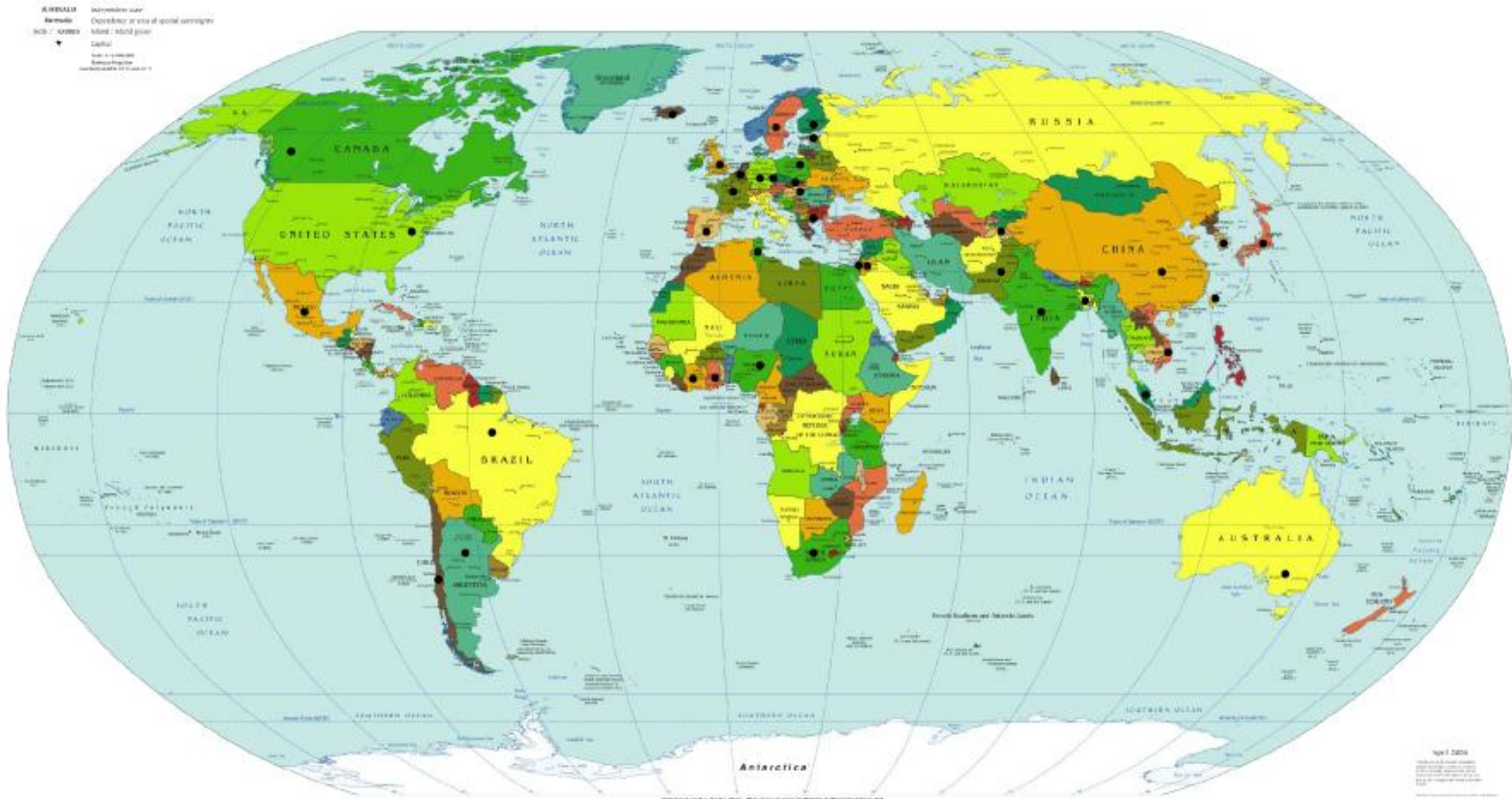
Inspire participants to commit themselves to advancing the global contribution of nuclear science and technology



100 fellows from all over the world

“Young professionals with strong leadership potential”

Political Map of the World, April 2006



2009 / 2010 / 2011 / 2012 Summer Institutes held in Oxford



Announcement: THE SEVENTH ANNUAL WNU SUMMER INSTITUTE

9 July – 20 August 2011
Christ Church, Oxford University, UK



A unique career development programme
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 at Christ Church, Oxford University

Applications are invited for the WNU Summer Institute 2011

The WNU Summer Institute (WNU-SI) is a six-week nuclear leadership development programme held annually at Christ Church, a leading college of Oxford University.



WNU-SI : Core Activities

MORNINGS

- *Academic lectures*



AFTERNOONS

- *Study Groups with MENTORS*
- *Panel sessions / distinguished speakers*

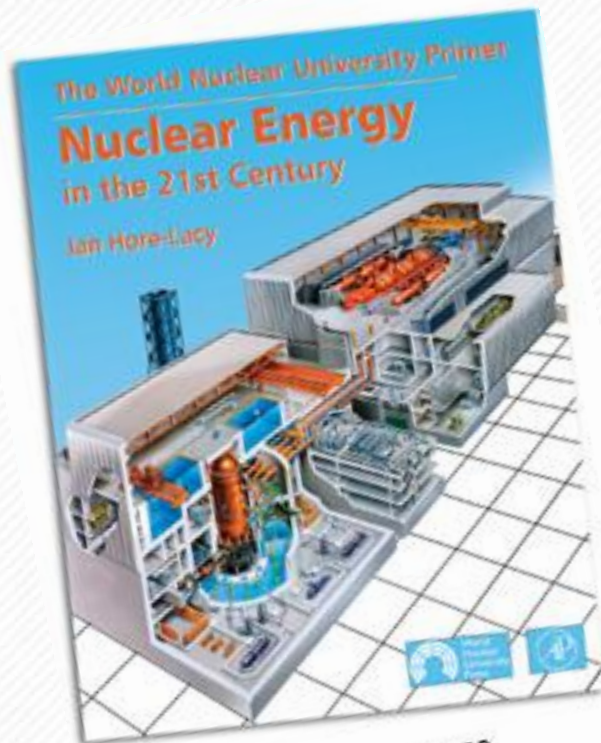
FIELD TRIPS, and RECREATIONAL ACTIVITIES

- *Building lasting bonds and facilitating further network*



Lectures: academic and inspiring

- Academic style covering a wide spectrum
- Distinguished Speakers for direct exposure to world realities



ISBN: 0123736226

Distinguished Speaker Presentations

- Told about their companies & activities;
- Shared their own view on future of nuclear industry and nuclear renaissance;
- Gave examples and tips from their own career-building.



Groups' sessions under Mentor facilitation

- Team building,
- Review of morning sessions,
- Sharing experience,
- Preparation of questions for panel sessions
- Case studies,
- Mini project “Forum issues Groups” at the end of the programme

Case Studies

1. Prepare a communication Plan for the following scenario:
 - A nuclear utility wants to build a second power plant on existing site.
 - There has been a previous accident, but no fatality.
 - Various groups in the town are pro- & anti-nuclear
2. The Australian Government has become pro-nuclear. It is a heavy CO₂ emitter due to use of coal. It is weighing a decision to build a nuclear plant. Consider the decision from the viewpoints of:
 - government person, utility CEO, utility fuel manager, a big shareholder in the utility, uranium company sales director, enrichment company CEO, nuclear plant vendor, banker, regulator, and electricity customer.

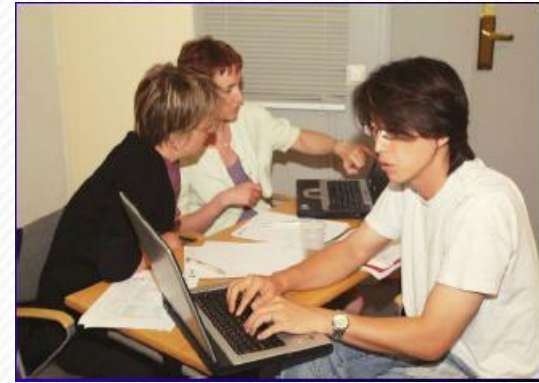
Will it build an NPP? An enrichment facility? Will it meet its CO₂ targets?
3. Given what we know now, discuss the safety aspects of the Challenger Accident.

Forum Topics: Final Projects on Global Issues

- Countering The Public's Fear of Nuclear Power
- The Role of Nuclear Power in Addressing Global Warming
- Controlling Nuclear Weapons Development
- Advantages and Disadvantages of Reprocessing
- Developing Education & Training Curriculum
- Initiating or Expanding Use of Nuclear Power
- Funding New Nuclear Power Plants
- Elimination of Nuclear Weapons
- Storing Radioactive Waste

MENTORS : EXPERTS by definition, used as **FACILITATORS**, inter-generation learning opportunities

In charge of a small group of Fellows



- **With a broad and Global knowledge of nuclear, *more than often with past prominent positions in the Industry***
- **Willing to share experience with young generation**
- **Making sure that the group is gluing properly and that everyone contributes**

Punting on the Isis River



Social activities

Football in the Meadow



Informal Social Hour at End of Day

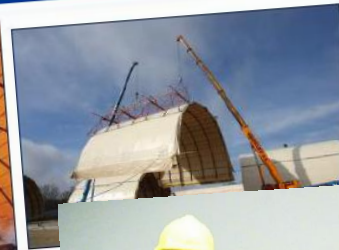
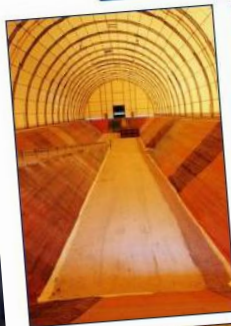


Field trips and Technical Tour:

EPR Construction at Flamanville



The disposal cell, the roof and the final cover



And at the end... "Graduation"



What makes the Summer Institutes so special and unique?

- Global
 - International participation, lecturers, fellows, mentors, issues
 - Nuclear and non Nuclear countries,
 - Comprehensive coverage of issues,
- Scope
 - Not a pure technical training,
 - Not established by a given company focusing on and addressing immediate training needs,
 - Long Term Education goals to foster leadership,
 - Direct link with the Industry -WNA- and Supranational International bodies - IAEA, OCDE, WANO,
- Spirit
 - Fellows from around the world, different origins and experiences, different occupations
 - Inter-generation experience with Elders acting as Mentors and passing knowledge, useful behavioural tips, and counsels,
 - Hands-on learning different cultural background



Other WNU programs

- **Key Issues in the World Nuclear Industry Today**
 - *Travelling one-week long sessions around the “nuclear emerging world”*
- **School of Uranium Production**
 - *Dedicated to uranium mining, large choice of bespoke programs, held in CZECH Republic by DIAMO,*
- **School of Radio Isotopes**
 - *Three-Weeks on all existing and foreseen pacific usage, 2010 and 2012 in Korea*
- **Nuclear English**
 - *Because international language of communication and of its special terms*
- **Bespoke programs**
 - *To answer specific needs: example, International Harmonization Forum 2009 Manchester.*



WNU website

Visit the WNU website at:

www.world-nuclear-university.org

Thank you for your kind attention.

Questions?

