

**2009 World Nuclear University Summer Institute
Schedule Overview As of 9 August 2009**

Unless otherwise informed, weekday breakfasts will be served from 7:00 to 7:45 am. On Saturday, breakfast is served from 8:00 to 9:00 am; on Sunday from 9:00 to 9:30 am. Lunches will be served from 12:30 to 13:15 on weekdays. You are on your own for dinner every evening. On weekends you are also on your own for lunch. These meals can be paid for using your per diem allotment.

	Faculty Presentation	Invited Leader Presentation	Group Activity	For Mentors Only	Other
Fri 3 Jul	All day	Mentors arrival			
Sat 4 Jul	All day	Fellows arrival and registration		WNU & College staff	
	9:00 – 12:00	Mentors registration and orientation		Mentors & coordinators	
Sun 5 Jul	12:30 – 05:00	Mentors planning meeting (including lunch)		Mentors & coordinators	
	09:00 – 09:30	Welcome from coordinators, mentors, WNU staff		SI coordinators, mentors	
	09:30 – 10:15	Overview of SI Concept and 2009 Program		E. and D. Klevans (ex. Penn State U.)	
	10:30 – 12:00	Fellows self-introductions – Part 1		Fellows	
	13:30 – 15:30	Fellows self-introductions – Part 2		Fellows	
	15:30 – 16:00	Announcements and Group Assignments		A. Waltars and Klevanses	
	16:00 – 18:00	Getting Acquainted: Walking tour of Oxford or other activities with working group A members		Fellows and mentors	
Week 1: Global Setting					
Mon 6 Jul	08:15 – 09:00	WNU and the Summer Institute		J. Ritch (WNU)	
	09:00 – 09:30	Greetings from Oxford and Christ Church		Lord Lt. T. Stevenson	
	09:45 – 11:00	World Energy Demand & Supply - The Situation		Very Rev. Dr. C. Lewis, Dean of CC	
	11:15 - 12:30	World Energy Demand & Supply-Looking Forward		R. Schock (WEC)	
	13:45 – 17:45	Team Project Presentations and Judging		R. Schock (WEC)	
	19:00 – 22:00	Welcome Reception (on Steamboat)		Working Groups A: 1-10	All
Tue 7 Jul	08:00 - 09:15	Climate Change: Scientific basis and impact		J. Cobb (WNA)	
	09:30 – 10:30	Climate Change: Adaptation and vulnerability		J. Cobb (WNA)	
	10:45 - 11:45	Global water issues and nuclear desalination.		T. Konishi (ex-Hitachi)	
	11:45 – 12:30	Plenary Q and A		Morning speakers	
	13:45 - 17:30	Self Presentations in Working Group		Working Groups A: 1-10	
	17:45 – 19:00	Mentors Meeting		Mentors and Coordinators	
Wed 8 Jul	08:00 - 09:30	Mitigation of climate change		J. Cobb (WNA)	
	09:45 – 11:00	Renewable Energy Sources and Policies		D. Elliott (OU - UK)	
	11:15 - 12:30	New Technologies: Hydrogen		C. Forsberg (MIT)	
	13:45 - 17:15	Self Presentations in Working Group		Working Groups A: 1-10	
	17:30 – 18:30	Invited Leader Presentation - An environmentalist's case for nuclear power		P. Moore (Greenspirit Strategies)	
	18:30 - 20:00	Informal social hour		All – Exhibition Area	
Thu 9 Jul	08:00 - 09:30	Global Survey of Nuclear Energy Politics		B. Barre (Areva)	
	09:45 – 11:00	Global Survey of Nuclear Energy Politics (cont.)		B. Barre (Areva)	
	11:15 – 12:15	Invited Leader Presentation		L. Echavarri (OECD/NEA)	
	13:30 – 17:30	Nuclear Energy Politics in Fellows Own Country		Working Groups A: 1-10	
	17:45 – 19:00	Mentors Meeting		Mentors and Coordinators	
Fri 10 Jul	08:00 - 09:30	Overview of Non-power applications of nuclear tech.		A. Waltar (ex-PNNL)	
	09:45 – 11:00	Medical Applications of Nuclear Sciences		R. Chhem (IAEA)	
	11:15 – 12:30	Leadership: An Introduction		S. Berg (ex-INPO)	
	14:00 – 15:00	Leadership: Beliefs and Values		S. Berg	
	15:30 – 17:00	Leadership: A Call to Service		S. Berg	
Sat 11 Jul	10:00 – 12:00	Recreational opportunities - Punting & Picnic		All	
Sun 12 Jul		Free time		All	

Week 2: Nuclear Industry

Mon 13 Jul	08:00 - 09:30	World Nuclear Fuel Market	S. Kidd (WNA)
	09:45 – 11:00	Uranium Mining and Operations	J. Slezak (IAEA)
	11:15 – 12:15	Invited Leader Presentation	S. Massart (EDF)
	13:30 – 16:15	Review of morning lectures and plenary preparation	Working Groups A: 1-10
	16:30 – 17:30	Plenary session with morning presenters	All
	17:30 – 19:00	Mentors Meeting	Mentors and Coordinators
Tue 14 Jul	08:00 - 09:30	Next generation nuclear reactors	F. Carre (CEA)
	09:45 – 11:00	Next generation nuclear reactors (cont.)	F. Carre (CEA)
	11:15 – 12:30	Review of morning lectures and plenary preparation	Working Groups A: 1-10
	13:30 – 14:45	Plenary session with Carre	All
	15:00 – 16:15	Choosing a Gen III concept	S. James (NIA - UK)
Wed 15 Jul	08:00 - 09:30	Nuclear Transport	M. Hartenstein(TN International)
	09:45 – 10:30	Review of morning lecture and plenary preparation	Working Groups A: 1-10
	10:45 – 11:15	Plenary session with morning presenter	All
	11:15 – 12:30	Decommissioning	D. Bradbury (SME Bradtec)
	13:45 – 14:30	Review of morning lecture and plenary preparation	Working Groups A: 1-10
	14:45 – 15:30	Plenary session with morning presenter	All
	16:00 – 17:00	Invited Leader Presentation	A.White (WNA Chair; Trilliant Inc)
	17:00 – 18:30	Informal Social Hour	All - Exhibition Area
Thu 16 Jul	08:00 - 09:30	Deep geological nuclear waste disposal	C. McCombie (Arius)
	09:45 – 10:30	Review of morning lecture and plenary preparation	Working Groups A: 1-10
	10:45 – 11:15	Plenary session with morning presenter	All
	11:15 – 12:30	Societal factors in waste management	T. Issacs (LLNL)
	13:45 – 14:45	Review of morning lecture and plenary preparation	Working Groups A: 1-10
	15:00 – 16:00	Plenary session with morning presenter	All
	16:00 – 17:15	The TMI and Chernobyl Accidents	E. Klevans
	17:30 – 19:00	Mentors Meeting	Mentors and Coordinators
Fri 17 Jul	08:00 – 9:15	Waste Management: Back end options	P. Bernard (ex-CEA; Counselor, Fr. Embassy,Russia)
	09:15 – 10:15	Review of morning lecture and plenary preparation	Working Groups A: 1-10
	10:15 – 11:15	Plenary session with morning presenters	All
	11:15 – 12:30	Advanced Nuclear Fuel Cycle	M. Salvatores (CEA)
	13:45 – 14:30	Review of morning lecture and plenary preparation	Working Groups A: 1-10
	14:45 – 15:45	Plenary session with morning presenters	All
	15:45 – 17:15	Orientation to the French Nuclear Tour	F. Perchet (WNU), V. Ryan-Taix (WNA)
Sat 18 Jul		Free day	
Sun 19 Jul		Start Technical Tour (See separate schedule)	V. Ryan-Taix

Week 3: Tour of French Nuclear Facilities (See separate schedule)

Week 4: Public Communication – Nuclear Safety – Nuclear Law

Mon 27 Jul	08:00 – 12:00	Public Communications: Building Public Support	A. Bisconti (Bisconti Research), S. Peterson (NEI)
	12:00 – 13:30	Fellow self-introductions in new working groups	Lunch –Working Groups B: 1-10
	13:30 - 17:30	Case study preparation	Working Groups B: 1-10
	17:30 – 19:00	Mentors Meeting	Mentors and Coordinators
Tue 28 Jul	08:00 – 12:15	Case Study Presentations	Bisconti, Peterson, Fellows
	13:30 – 15:30	Case Study Presentations (cont.)	Bisconti, Peterson, Fellows
	15:30 – 16:00	Review and Summary of Case Study Experience	Bisconti, Peterson
	16:15 - 17:30	Initial meeting of Forum Issues Group	Working Groups FI: 1-10
Wed 29 Jul	08:00 - 09:30	IAEA Safety Standards and Their Applications	M. El-Shanawany (IAEA)
	09:45 – 11:00	The Role of the Regulator in the Licensing and Operation of Nuclear Facilities	J. Merrifield (Shaw Group)
	11:15 – 12:15	Invited Leader Presentation	G. Grandey (Cameco Corp)
	13:30 – 14:30	Invited Leader Presentation	M. Weightman (Chief Nuclear Inspector, U.K.)
	14:45 – 16:15	Review of morning lectures	Working Groups B: 1-10
	16:30 – 17:30	Plenary session with today’s speakers	All
	18:00 – 20:00	Croquet Competition in Master’s Garden CC	All
Thu 30 Jul	08:00 - 09:30	Comparative Risk Assessment	R. Budnitz (LBNL)
	09:45 – 11:00	Nuclear Safety: Feedback on operating experience	P. Wakefield (WANO)
	11:15 – 12:30	Safety Culture	G. Hutcherson (INPO)
	13:45 – 16:15	Preparation of case study	Working Groups B: 1-10
	16:30 – 17:30	Plenary session: case study review and summary	All
	17:30 – 19:00	Mentors Meeting	Mentors and Coordinators
Fri 31 Jul	08:00 – 09:00	Invited Leader Presentation	L. Stricker (WANO)
	9:15 - 10:30	Nuclear Law: Environmental and Liability Issues	J. Schwartz (OECD/NEA)
	10:45 – 11:45	Nuclear Law: Safety and Security	W. Tonhauser (IAEA)
	11:45 – 12:30	Plenary session on Nuclear Law	Schwartz and Tonhauser
	13:45 - 17:45	Forum Issues Preparation	Working Groups FI: 1-10
Sat 1 Aug		Free time	All
Sun 2 Aug		Free time	All

Week 5: Nuclear Economics – Radiation Protection – Non-proliferation and Safeguards

Mon 3 Aug	08:00 - 09:30	Economic Background to Nuclear Power	A. Ham (ex- UK NIA)
	09:45 – 11:00	Structuring Nuclear Projects for Success	S. Kidd (WNA)
	11:15 – 12:30	Case Studies in Strategic Energy Investment	A. Ham & S. Kidd
	13:45 – 16:15	Preparation of Case Studies	Working Groups B: 1-10
	16:30 – 17:30	Plenary session: Case Studies Presentations	All
	17:30 – 18:30	Invited Leader Presentation: Nuclear Power Safety	J. Ellis (INPO)
Tue 4 Aug	08:00 - 09:30	Setting up Nuclear Programs in the Arabic Peninsula	I. Al-Qaradawi (Qatar U.)
	09:45 – 11:00	Radiation Protection: Epistemology of Radiation Effects	A. Gonzalez (ICRP)
	11:15 – 12:30	International Radiation Protection Paradigms	A. Gonzalez
	13:45 – 16:15	Review of morning lectures and plenary preparation	Working Groups B: 1-10
	16:30 – 17:30	Plenary session with morning presenters	All
	17:30 – 19:00	Mentors Meeting	Mentors and Coordinators
Wed 5 Aug	08:00 - 09:30	Non-proliferation and Safeguards: Legal Framework	L. Rockwood (IAEA)
	09:45 – 11:00	Export Controls	R. Goorevich (USDOE/NNSA)
	11:15 – 12:30	Safeguards Implementation: Review of Hot Cases	B. Pellaud (ex-IAEA)
	13:45 – 16:15	Review of morning lectures and plenary preparation	Working Groups B: 1-10
	16:30 – 17:30	Plenary session with morning presenters	All
Thu 6 Aug	08:00 - 09:30	Non-proliferation Analysis of the Fuel Cycle	B. Pellaud (ex-IAEA)
	09:45 – 11:00	Safeguards Implementation: Concepts & Practices	K. Chitumbo (ex-IAEA)
	11:15 – 12:30	The Management of Nuclear Security	R. Howsley (WINS)
	13:45 – 16:00	Review of morning lectures and plenary preparation	Working Groups B: 1-10
	16:15 – 17:15	Plenary session with morning presenters	All
	17:15 – 18:15	Invited Leader Presentation	G. Frank (IAEC)
	18:15 – 20:00	Informal social hour	All - Exhibition Area
Fri 7 Aug	8:05 – 10:45	Forum Issues Preparation	FIGs FI: 1-10
	11:00 – 12:15	Controlled Fusion Power	S. Cowley (UK AEA Culham)
	13:30 - 17:30	Forum Issues Preparation	FIGs FI: 5-10
	13:30 - 17:30	4 FI Working Groups tour fusion facilities	Culham Laboratory FI 1-4
	17:30 – 19:00	Mentors Meeting	Mentors and Coordinators
Sat 8 Aug	9:00 – 17:00	Recreational opportunities - Tour of Warwick Castle	All
Sun 9 Aug		Free time	All

Week 6: Setting Up Nuclear Programs – Knowledge Management – Forum Issues – Summing Up

Mon10Aug	08:00 - 09:30 09:45 – 11:00 11:15 – 12:30 13:45 - 17:30 13:30 – 17:30 17:30 – 19:00	Setting up Nuclear Programs: International Support Overview of Central European Nuclear Programs Knowledge Management Forum Issues Preparation 3 FI Working Groups tour fusion facilities Mentors Meeting	A.Omoto (IAEA) R. Skoda (Czech Tech U.) Y. Yanev (IAEA) FIGs FI: 1-4, 8-10 Culham Lab FI 5-7 Mentors and Coordinators
Tue 11Aug	08:00 – 9:15 9:30 – 10:00 10:00 – 12:15 13:30 - 17:30 13:30 – 17:30	Invited Leader Presentation Action Planning Overview Individual and Group Action Planning Forum Issues Preparation 3 FI Working Groups tour fusion facilities	M. Lawrence (UK NNL) D. Klevans (ex Penn State U.) Fellows FIGs FI: 1-7 Culham Laboratory FI 8-10
Wed12Aug	08:00 – 12:15 13:30 – 17:00 17:00 – 18:30	Forum Issues Preparation Forum Issues Preparation Mentors Meeting	FIGs FI: 1-10 FIGs FI: 1-10 Mentors and Coordinators
Thu 13Aug	08:00 – 12:15 13:15 – 17:30	Forum Issues Presentations Forum Issues Presentations	All All
Fri 14 Aug	08:00 – 09:00 09:00 – 09:45 10:00 – 10:45 10:45 - 11:30 11:45 - 12:30 Afternoon 18:30 – 23:00	Invited Leader Presentation Invited Leader Presentation Invited Leader Presentation Round Table Discussion Assessment of Summer Institute Free time for Packing & Shipping Banquet and Celebration @ Rhodes House	H. Blix (WMDC) Z. Pate (ex-WANO) J. Ritch (WNU/WNA) Blix, Pate, and Ritch Fellows, Mentors, Coordinators All All
Sat 15 Aug	7:00 – 10:00	Check out. Bon Voyage. Stay in touch.	All
