

FIELD COURSE ON CHERNOBYL FALLOUT IN THE ENVIRONMENT

Day 1, Sep 5

Time	Title/subject	Type	Lecturer
09:00 – 09:15	Welcome and practical information		Rector of NUBiP of Ukraine Stanislav Nikolaienko
9:15 - 10:00	The Chernobyl accident	Lecture	UIAR Professor Valery Kashparov
10:00 – 10:15	Coffee and tea		
10:15 - 11:00	Contamination of the 30 km ChEZ Selection of study sites	Lecture	UIAR Professor Valery Kashparov
11:00 -12:00	Radionuclides speciation, mobility and bioavailability and influence on its environmental behavior.	Lecture	NMBU Professor Brit Salbu
12:00-13:00	Lunch break		
13:00 – 14:00	Biological uptake, accumulation, dose estimates and biological responses	Lecture	SU Associate Professor Clare Bradshaw
14:00 – 15:00	Relevance of hot particles. Speciation and characterization of particles	Lecture	NMBU Professor Brit Salbu
15:00 – 16:00	The use of sequential extractions to estimate mobility	Lecture	NMBU Professor Brit Salbu

Day 2, Sep 6

Time	Title/subject	Type	Lecturer
8:00 - 11:00	Drive to field-site		
11:00 - 13:00	Water sampling	Field exercise	UIAR/NMBU
13:00 - 14:00	Lunch break		
14:00 - 17:00	Soil sampling Biota sampling	Field exercise	UIAR/NMBU
17:00 – 18:00	Ecosystem transfer for wildlife	Lecture	CEH Professor Nick Beresford and David Copplestone
18:00 - 21:00	Drive back		

Day 3, Sep 7

Time	Title/subject	Type	Lecturer
09:00 – 10:00	Sampling of soil, plants/biota and animal products	Lecture	UIAR Professor Valery Kashparov
10:00 – 10:15	Coffee and tea		
10:15 – 11:00	Impact and risk estimates – overall uncertainties	Lecture	NMBU/Brit Salbu
11:00 – 12:30	Sample preparation and measurements	Lecture	UIAR /Head of laboratory Sviatoslav Levchuk
12:30 – 13:30	Lunch break		
13:30 – 17:00	Parallel sessions: 1.Sample preparations, measurements of radionuclides, radiochemistry/separation 2.Particle hunting in soil and sediments, aerosol sampling, autoradiography, Fish sampling and dissection 3.Water fractionation, sequential extractions	Laboratory exercise	UIAR Head of laboratory Sviatoslav Levchuk Leading Researchers Valentyn Protsak and Igor Maloshtan NMBU Senior Engineer Marit N. Pettersen
17:00	<i>Joint dinner</i>		

Day 4, Sep 8

Time	Title/subject	Type	Lecturer
9:00 – 10:00	The migration of radionuclides in the unsaturated zone and with groundwater	Lecture	UIAR Head of lab., Sviatoslav Levchuk
10:00 – 10:15	Coffee and tea		
10:15 – 12:30	Parallel sessions: 1.Sample preparations, measurements of radionuclides, radiochemistry/separation 2.Particle hunting in soil and sediments, aerosol sampling, autoradiography, Fish sampling and dissection 3.Water fractionation, sequential extractions	Laboratory exercise	UIAR Head of laboratory Sviatoslav Levchuk Leading Researchers Valentyn Protsak and Igor Maloshtan NMBU Senior Engineer Marit N. Pettersen
12:30 – 13:30	Lunch break		
13:00 – 16:00	Parallel sessions: 1.Sample preparations, measurements of radionuclides, radiochemistry/separation 2.Particle hunting in soil and sediments, aerosol sampling, autoradiography, Fish sampling and dissection 3.Water fractionation, sequential extractions	Laboratory exercise	UIAR Head of laboratory Sviatoslav Levchuk Leading Researchers Valentyn Protsak and Igor Maloshtan NMBU Senior Engineer Marit N. Pettersen
16:00 – 16:30	Closing remarks and course evaluation		Professor Valery Kashparov