

CERAD SEMINAR 2014

Det Norske Videnskaps-Akademi (DNVA) March 13th
 Drammensveien 78, Oslo

PROGRAMME

0930	<i>Coffee</i>	
1000	Welcome, <i>Brit Salbu</i>	
1000-1130	RA1 – Sources	Chair Halvor Hektoen
	Assessing the source terms of real and hypothetical nuclear events (Ole Christian Lind, NMBU) 15 min	
	Modelling atmospheric transport and deposition of radioactive particles (Jerzy Bartnicki, MET) 10 min	
	Sellafield and Fukushima: Preliminary model results (Heiko Klein, MET) 10 min	
	Improved inventory for dispersion modelling (Martin Ytre-Eide, NRPA) 10 min	
	Marine Transport - results from Irish Sea Experiment (Magne Simonsen, MET Ocean) 10 min	
	Preliminary results of Cs-137 transport in Vikedal by INCA-RAD catchment model (Raoul-Marie Couture, NIVA) 10 min	
	15 min general discussion	
1130-1230	RA2 – Transfer	Chair Lindis Skipperud
	Short introduction RA2 (Hans-Christian Teien, NMBU) 5 min	
	Forskning i Vodnyi (Yevgeniya Tomkiv, NMBU) 10 min	
	Uranium speciation, accumulation and toxicity in Atlantic salmon parr (Hans-Christian Teien, NMBU) 15 min	

Bioaccumulation and Effects of depleted uranium (DU) in planktonic Organisms (Knut Erik Tollefsen/Anders NIVA) 5 min
+ 20 min discussion

1230-1330 *Lunch*

1330-1500 **RA3 - Effects** **Chair Deborah Oughton**

Short introduction (Ann-Karin Olsen, FHI and Peter Alestrøm, NMBU) 5 min

Gamma irradiation of Zebrafish (Peter Alestrøm and co-workers, NMBU) 15 min+3 min for discussion

Chronic low dose-rate gamma irradiation in combination with low selenium diet - effects on reproduction (Anne Graupner, FHI) 10 min + 3 min for discussion

Epigenetic profiling and transgenerational effects in mice (Ann-Karin Olsen and co-workers, FHI) 15 min+ 3 min for discussion

Mixed toxicity investigations using *C. elegans* as a model (Dag Anders Brede, NMBU) 10 min+ 3 min for discussion

Adverse Outcome Pathways for Ionizing radiation (Knut-Erik Tollefsen, NIVA) 10 min+ 3 min for discussion

Wrap up from RA3 (Ann-Karin Olsen and Peter Alestrøm) 5 min

1500-1615 **RA4 - Risk Assessment** **Chair Per Strand**

RA4 overarching aims (Knut Erik Tollefsen and Astrid Liland)

Risk perception and willingness to pay - UV and radon case studies in 2014 (Ståle/Lill Tove/Christina)
Discussion

Sellafield stakeholder dialogues (Yevgeniya Tomkiv, NMBU)
Discussion: How do we plan stakeholder engagement processes?

Predictive risk assessment of multiple stressors – Plans for 2014 (Karina Petersen, NIVA)
Discussion

1615-1645 *Coffee*

1645-1815 **RA5 - UV**

Effect of UV-B-temperature interaction on plant growth, flavonoid content and DNA damage. Progress with construction of exposure chambers (Jorunn E. Olsen, NMBU) 15 mins

Effects of UV-B and radioactivity on lichens - progress and plans (Knut Asbjørn Solhaug, NMBU) 10 mins

Interactive effects of UV-B and air humidity on stomata function and morphology (Sissel Torre, NMBU) 5 mins

Effects of UV at different altitudes in Ethiopia on plant morphology and flowering. A filtration study (Amsalu Gobena Roro, NMBU) 5mins

Effects of increased UV-B and its interaction with temperature on phenology in field-grown aspen (Christian Bianchi Strømme, NMBU) 5 min

Natural ultraviolet radiation exposure calculated with background in monitoring data, climate and geography (Lill Tove Nilsen and Bjørn Johnsen, NRPA) 20 min

Action spectra of ultraviolet radiation, data from zebrafish embryos (Terje Christensen) 15 min

(Karina Petersen, NIVA - to be confirmed).

1815-1830 Wrap-up and briefing on annual report (Brit Salbu, NMBU)

1900 Dinner