Program Overview

Monday, 25th September		Tuesday, 26th September		Wednesday, 27th Sept.	
H. H. Koch, building 112		H. H. Koch, building 112		Buildings 202 and 204	
		8:00	Registration		
			panalytical method development		Lab Group 1+2
			and comparison (Chairman: Dr. Karl Andreas Jensen)		
		8:30	Dr. Jian Zheng (Invited talk 3)	8:00	Introduction lecture
		9:05	Oral-4 Dr. Mats Eriksson		Dr. Karl Andreas Jensen
		9:30	Oral-5 Dr. Jixin Qiao	9:30	Coffee break
		9:55	Oral-6 Dr. Pablo Lebed		Lab Group 1
10:00	Registration and coffee	10:20	Coffee break		Lab Group 1
Opening session (Chairman: Dr. Jixin Qiao)		ı	Application in environmental	9:45	Lab training
		rad	ioactivity and nuclear forensics		Dr. Karl Andreas Jensen
44.00	Malana (Inga Batan Inga	10.40	(Chairman: Mats Eriksson)		Dr. Per Roos
11:00	Welcome (Jens-Peter Lynov, Kasper Andersson, Jixin Qiao)	10:40	Prof. Walter Geibert (Invited talk 4)		
	Rusper Andersson, sixin Quo,	11:15	Oral-7 Dr. Petra Lagerkvist		
11:45	Prof. Frank Vanhaecke	11:40	Oral-8 Mr. Youyi Ni		
	(Opening lecture)	12:05	Oral-9 Dr. Anna Vesterlund		
12:30	Lunch	12:30	Lunch	12:45	Lunch
Quadrupole and Sector Field ICP-MS		De	termination of stable elements		Lab Group 2
	hairman: Dr. Petra Lagerkvist)		(Chairman: Per Roos)		· ·
13:30	Dr. Douglas Baxter (Invited talk 1)	13:30	Oral-10 Dr. Susanna Salminen-Paatero		
14:05	Oral-1 Dr. Ilia Rodushkin	13:55	Oral-11 Mr. Zilvinas Zacharauskas	13:15	Lab training
14:30	Oral-2 Dr. Per Roos	14:20	Oral-12 Dr. Szabolcs Osváth		Dr. Karl Andreas Jensen
14:55	Coffee break	14:45	Coffee break		Dr. Per Roos
Triple Quadrupole ICP-MS (Chairman: Dr.		Ne	ew instrumental development		
	Ilia Rodushkin)		(Chairman:		
15:30	Prof. Phil Warwick (Invited talk 2)	15:10	Susanna Salminen-Paatero) Dr. Mikael Axelsson	16.15	Wran un
	Prof. Phil Warwick (Invited talk 2)	15:10		10:15	Wrap-up
16:05	Oral-3 Dr. Karl Andreas Jensen	15.45	(Invited sponsor lecture)		
16:30- -18:00	Lab tour for participants at Nutech	15:45	Mr. Søren Dalby (Sponsor lecture)		
16:30-	Nordic ICP	16:00	Closing ceremony		
-18:00	internal committee meeting		,		
19:00-	Nordic ICP dinner				
-21:00	(Flammen Roskilde)				

Seminar Program

MONDAY, 25 SEPTEMBER

10:00	Registration and Coffee
	Opening session – Chair: Jixin Qiao
11:00	Welcome speech
	(Jens-Peter Lynov, Center for Nuclear Technologies, Technical University of Denmark, Denmark)
11:15	General introduction of NKS and a view on the use of measurement
	techniques in emergency management
	(Kasper Grann Andersson, Technical University of Denmark, Denmark / Nordic Nuclear Safety and Research (NKS))
11:30	General introduction of Radioecology section and the ICP User 2017
	program
	(Jixin Qiao, Radioecology, Center for Nuclear Technologies, Technical University of Denmark, Denmark)
11:45	Exploiting the isotopic information provided by ICP-mass spectrometry (Frank Vanhaecke, Department of Analytical Chemistry, Ghent University, Belgium)
12:30	Lunch
	Quadrupole and Sector Field ICP-MS – Chair: Petra Lagerkvist
13:30	Developing ICP-MS-based methods for regulatory purposes: Examples
	from a contract laboratory
	(Douglas Baxter, ALS Scandinavia AB, Luleå, Sweden)
14:05	Determination of trace and ultra-trace elements by ICP-SFMS
	(Ilia Rodushkin, Division of Geosciences, Luleå University of Technology / ALS Laboratory Group, ALS Scandinavia AB, Luleå, Sweden)
14:30	Analysis of U and Pu isotopes in Thule debris
14.50	(Per Roos, Center for Nuclear Technologies (Nutech), Technical University of Denmark (DTU), Denmark)
11.55	Coffee breeds
14:55	Coffee break

NKS-B ICP User Seminar 2017

Triple Quadrupole ICP-MS – Chair: Ilia Rodushkin Advantages of ICP-QQQ for nuclear waste characterization (Phil E Warwick, GAU-Radioanalytical, University of Southampton, UK) Spectral interferences on the radionuclides: Method development ICP-MS-MS (Karl Andreas Jensen, Centre for Environmental Radioactivity (CERAD CoE), Norwegian University of Life Sciences (NMBU), Norway)

16:30-18:00

For participants

For the committee

Lab tour at Nutech

Internal meeting at H. H. Koch room

19:00-21:00 Nordic ICP dinner - **for all**

[Flammen Roskilde, RO's Torv, Københavnsvej 29, 4000 Roskilde – 2 stops by bus 600S]

TUESDAY, 26 SEPTEMBER

8:00	Registration
	Radioanalytical method development and comparison
0.20	Chair: Karl Andreas Jensen Davelagment and application of malical matheds based on the year
8:30	Development and application of radiochemical methods based on the use of ICP-MS instruments
	(Jian Zheng, National Institute of Radiological Sciences, National Institute for Quantum and Radiological Science and Technology, Japan)
9:05	Some aspects of analysing mixed U/Pu particles by different mass-spectrometric techniques
	(Mats Erikson, Swedish Radiation Safety Authority, SSM, Sweden)
9:30	An inter-comparison exercise on the application of ICP-MS techniques for measurement of long-lived radionuclides
	(Jixin Qiao, Center for Nuclear Technologies (Nutech), Technical University of Denmark (DTU), Denmark)
9:55	Radiochemistry laboratory possibilities offered by modern ICP-MS:
7.55	protactinium, lanthanides and strontium
	(Pablo J Lebed, Centre for Environmental Radioactivity (CERAD CoE), Norwegian
	University of Life Sciences (NMBU), Norway)
10.20	Caffee lamala
10:20	Coffee break
	Application in environmental radioactivity and nuclear forensics
	Chair: Mats Eriksson
10:40	The specific challenges of short-lived U and Th-series isotope analyses by
	ICP-MS
	(Walter Geibert, Alfred Wegener Institute for Marine and Polar Research, Bremerhaven, Germany)
11:15	Pitfalls of determination of ²³⁶ U/ ²³⁸ U with ICP-SFMS
	(Petra Lagerkvist, CBRN Defence and Security, Swedish Defence Research Agency (FOI), Sweden)
11:40	Determination of potentially bioavailable Pu in Japanese rice paddy soils
	with sector field inductively coupled plasma mass spectrometry (Youyi Ni, Peking University, China / National Institutes for Quantum and
12:05	Radiological Science and Technology, Japan) Implementing a method for age determination of uranium using the
12.03	The chronometer and the chronometer age determination of dramam using the
	(Anna Vesterlund, CBRN Defence and Security, Swedish Defence Research Agency
	(FOI), Sweden)
12:30	Lunch

<u>Determination of stable elements – Chair: Per Roos</u>

13:30	Heavy metals (Zn, As, V, Cu, Co, Ni, U, Pb, and Cr) in archived human samples
	(Susanna Salminen-Paatero, Department of Chemistry, Radiochemistry, University of Helsinki, Finland)
13:55	Using ICP-QQQ to measure precise stable Pb isotope ratios in environmental materials to assess pollution source terms
	(Zilvinas Zacharauskas, University of Southampton, National Oceanography Centre, Southampton, UK)
14:20	ICP-OES measurement of some transition metals in HF acid media (Szabolcs Osváth, Center for Nuclear Technologies, Technical University of Denmark, Denmark / National Public Health Institute, Department of Radiobiology and Radiohygiene, Hungary)
14:45	Coffee break
	New instrumental development – Chair: Susanna Salminen-Paatero
15:10	Latest developments in elemental analysis
	(Mikael Axelsson, Trace Elemental, ICP-MS and Discrete Analyzers, ThermoFisher Scientific Sweden)
15:45	Recent developments of multicollector inductively coupled plasma mass spectrometry (MC-ICPMS) Faraday cup amplifiers.
	(Søren Dalby, Isotope Ratio Mass Spectrometry and High Resolution ICP-MS Sales, Nordic and Iceland, Thermo Fisher Scientific)

Closing ceremony

16:00

WEDNESDAY, 27 SEPTEMBER

- 8:00 Introduction lecture for ICP-MS lab training **for all**(Karl Andreas Jensen, Centre for Environmental Radioactivity (CERAD CoE),
 Norwegian University of Life Sciences (NMBU), Norway)
 [In Building 202, meeting room]
- 9:30 Coffee break
- 9:45-12:45 Lab training (Karl Andreas Jensen, Per Roos) **for Group 1**Free time for Group 2

Lunch [In Building 202, meeting room]

13:15-16:15 Lab training (Karl Andreas Jensen, Per Roos) – **for Group 2** Wrap up for Group 1