

NKS-R Call for Proposals 2017

14 proposals for NKS-R activities were received before the deadline on October 14th. Of these, 6 were applications for continuation of ongoing activities.

The numbers of proposals submitted under the NKS-R areas of interest are as follows:

Area of Interest	No. of Proposals	Total budget for proposals under area of interest
Risk analysis	5	1915 kDKK
Organisation and safety culture	4	2050 kDKK
Thermal hydraulics	1	672 kDKK
Reactor physics	1	661 kDKK
Severe accidents	1	600 kDKK
Decommissioning and radwaste	1	600 kDKK
Plant life management and extension	1	450 kDKK

The total amount requested was **6948 kDKK** from an expected budget of **3100 kDKK**.

NKS-B Call for Proposals 2017

16 proposals for NKS-B activities were received before the deadline on October 14th. Of these, 4 were applications for continuation of ongoing activities.

The numbers of proposals submitted under the NKS-B areas of interest are as follows:

Area of Interest	No. of Proposals	Total budget for proposals under area of interest
Emergency Preparedness	7	2993.6 kDKK
Measurement Technology and Strategy	6	2100 kDKK
Radioecological Assessments	3	1281 kDKK
Waste and Discharges	0	0

The total amount requested was **6374.6 kDKK** from an expected budget of **3100 kDKK**.

Recent Seminars

NKS-B NORDUM

Exercise/seminar: Intercomparison of Nordic Unmanned Aerial Monitoring Platforms

5-7 September 2016, near Gardermoen, Oslo, Norway

The exercise part with unmanned aerial monitoring platforms was carried out in open / forested terrain where a number of different sources had been hidden (Cs-137, Am-241, Eu-152, Co-60, Pu-238, Sr-90).

Only unmanned multicopters (unmanned rotorcrafts with more than two horizontally orientated rotors) could be applied here, due to restrictions on flying height so close to an airport and the height of trees in the area, although some fixed wing unmanned planes had actually been brought along and examined.

The seminar had a total of 32 participants from Denmark, Finland, Norway and Sweden.

Both dose rate and nuclide specific measurements were made by the different platforms.

The last day of the event was held as a seminar for preliminary comparison and discussion of results obtained in the field. The findings will be presented in the final report of the NORDUM activity.

The activity leader was Kasra.Tazmini@nrpa.no at the NRPA.

NKS-B GAMMASPEC Workshop for users of gamma spectrometry

13-14 September 2016, Rømskog, Norway

At the 2016 GammaSpec meeting 39 persons from 20 organisations were present. The participants were a good mixture of scientists from universities as well as users from industry and authorities.

Invited lecturers were:

- Harri Toivonen (PhD), CEO at HT Nuclear, who has been involved in nuclear measurements and analyses since 1976. In his talk *List-mode Data Acquisition – a New IEC Standard*, he gave an introduction to list-mode data acquisition, a step forward to standardize data acquisition and to improve radionuclide detection quality and timeliness. This new technology is expected to become commercially available in 3-4 years.
- Dr. Tim Vidmar, SCK-CEN, Mol, Belgium, who gave two presentations:
 - *A tool for importing DDEP decay data into Genie 2000 and GammaVision nuclide libraries*
 - *A new user interface for EFFTRAN - demonstration and feedback*
- Dr. Henrik Ramebäck, FOI, Sweden, who gave a presentation about true coincidence corrections in gamma spectrometric measurements of uranium isotopic ratios (*Gamma spectrometric measurements of uranium isotopic composition: -Accuracy and precision*). Not taking this into account can lead serious errors in calculated enrichment.

In addition, there were 11 other presentations including 2 from equipment companies.

The feedback was very positive. Comments included:

- *“Intercomparison exercise was very useful and I hope that there will be more similar intercomparisons in the future.”*
- *“Inspired to do improvements at home (work ☺).”*
- *“Interesting presentations and valuable to meet people working with γ -spectroscopy in other application areas (not only nuclear power plants).”*
- *“Overall I really appreciate the seminar and taking benefit of all the expertise of the community.”*
- *“GREAT! Really interesting and very fun and educational to meet colleagues with similar problems, challenges and solutions.”*
- *“Presentations also gave some new ideas and interesting info. The programme was well balanced and I learned a lot. It was also an excellent forum for networking.”*
- *“It’s a great seminar. I would love to participate again”*

The activity leader was Sven P. Nielsen at DTU (spni@dtu.dk).

New Publications

The following NKS-R reports are available free of charge: Download by clicking the appropriate link.

NKS-374	Oct. 2016	Eveliina Takasuo: A summary of studies on debris bed coolability and multi-dimensional flooding	DECOSE	View document
NKS-375	Oct. 2016	Magnus Strandberg: Ex-Vessel Steam Explosion Analysis with MC3D	DECOSE	View document
NKS-376	Nov. 2016	Andrew Wallin Caldwell, Gunnar Johanson, Jan-Erik Holmberg, Ilkka Karanta, Karin Fritioff: Addressing off-site consequence criteria using Level 3 PSA - Phase 3 Status Report from the NKS-R L3PSA	L3PSA	View document

The following NKS-B reports are available free of charge: Download by clicking the appropriate link.

NKS-377	Dec. 2016	T Gäfvert, J Boson, T Karhunen, G Jónsson, S Juul Krogh, J Drefvelin, P O Hetland, L Skuterud, P Reppenhagen Grim, P Smolander, K Guðnason, P Frisk, B Winther, C Andreis: Nordic In Situ gamma Intercomparison. Final Report from NKS-B NISI project (Contract: AFT/B(16)2)	NISI	View document
NKS-378	Dec. 2016	Kasra Tazmani, Dag Robøle, Jon Drefvelin, Øyvind Gjølme Selnæs, Jeppe Vøge Jensen, Magnus Gårdestig, Markku Kettunen, Juha Röning: Intercomparison of Nordic Unmanned Aerial Monitoring Platforms	NORDUM	View document
NKS-379	Dec. 2016	Elisabeth Strålberg, Trygve Bjerk, Sven P. Nielsen, Henrik Ramebäck, Roy Pöllänen, Gísli Jónsson: GammaSpec 2016 Proceedings	GAMMASPEC	View document

NKS Young Scientist Travel Assistance

Updated information that NKS offers travel assistance for young scientists wishing to attend NKS-R and NKS-B events as well as related non-NKS events even outside the Nordic countries - under certain conditions. More information on the conditions and how to apply for travel assistance can be seen on the NKS web site [here \(http://www.nks.org/en/nksr/travel_assistance/travel_assistance.htm\)](http://www.nks.org/en/nksr/travel_assistance/travel_assistance.htm) for NKS-R related events, and [here \(http://www.nks.org/en/nksb/travel_assistance/travel_assistance.htm\)](http://www.nks.org/en/nksb/travel_assistance/travel_assistance.htm) for NKS-B related events.