

## Summary Report from the NKS Board Meeting in Helsinki, January 22, 2020

### Change of Programme Manager for the NKS-R Programme

NKS expressed its sincere thanks to Christian Linde for all his work, enthusiasm and cooperation as the NKS-R Programme Manager over the last 3 years and NKS would like to wish Christian good luck and every success in his career in the years ahead.

NKS warmly welcomes Ari-Pekka Leppänen from STUK, Finland as the new NKS-R Programme Manager. Ari has a long background at STUK, but has in 2016-19 worked for the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO). He holds a PhD degree in experimental nuclear physics from the University of Jyväskylä, Finland. For all issues concerning the NKS-R programme please contact Ari at [ari.leppanen@stuk.fi](mailto:ari.leppanen@stuk.fi) or +358 40-7641788.

### Call for Proposals 2020

NKS would like to thank all the applicants for proposals submitted to the NKS-R and NKS-B Call for Proposals 2020. The NKS board was impressed by the quality of the proposals received for funding under the NKS-R and NKS-B programmes. The successful proposals are listed below.

### NKS-R Budget Decisions for 2020

The following activities have been awarded funding.

Activity Type	Activity Name	Activity Topic	Activity Leader	Funding (kDKK)
Plant Life Management and Extension	BREDA-RPV	Barsebäck RPV trepan studies	Pål Efsing, KTH	487
Decommissioning and management of nuclear waste and spent fuel	COCOS	Corrosion of copper in sulphide containing environment: the role and properties of sulphide films	Leena Carpén, VTT	584
Reactor Physics	POMMI	Fuel Pellet Dimensional Properties and Microstructural Fracture Modelling	Janne Heikinheimo, VTT	389
Risk analysis & probabilistic methods	PROSAFE - 2020	Prolonged time windows and safe states	Stefan Authén, Risk Pilot - Sweden	487

Thermal hydraulics	THEOS	Thermal hydraulics of the suppression pool	Pavel Kudinov, KTH	584
Plant Life Management and Extension	WPS-MAF	Study of the margin against the fracture for reactor pressure vessels subjected to pressurized thermal shock transients utilizing the warm pre-stressing effect: Development of general probabilistic model for cleavage fracture, numerical implementation and experimental validation	Tobias Bolinder, Kiwa Inspecta - Sweden	530
IN TOTAL				3061

### NKS-B Budget Decisions for 2020

The following activities have been awarded funding.

Activity Type	Activity Name	Activity Topic	Activity Leader	Funding (kDKK)
Emergency Preparedness	SHIELDMORC	Detection distances and methods to locate orphan gamma radiation sources in shielded building geometries by mobile gamma spectrometry.	Christopher Rääf, Lund U.	421
Measurement Strategy, technology, QA	GAMMARAY X	Seminar for users of gamma-ray spectrometry	Roy Pöllänen, STUK	419
Emergency Preparedness	SLIM	Source Localization by Inverse Methods	Jens Havskov Sørensen, DMI	471
Emergency Preparedness	RAD-MERDE	Radioanalytical Separation Method for Determining Pu, Am and Cm by alpha spectrometry - Method Expansion from Reactor water to Decommissioning and Environmental samples	Susanna Salminen-Paatero, U. Helsinki	396
Emergency Preparedness	ECOFOOD	Adaptation of FDMT to the Nordic Conditions	Rodolfo Avila, AF Consult AB	491
Measurement Strategy, technology, QA	DTM-DECOM II	Intercomparison exercise in analysis of DTM in decommissioning waste	Anumaija Leskinen, VTT	424

Emergency Preparedness	CRESCENT	Credible release scenarios for nuclear-powered vessels operating in Nordic waters	Øyvind Selnæs, DSA	321
Emergency Preparedness	NUCSEM	Use of nuclear weapons towards a Nordic country: Scenarios, impact assessments and protective measures	Øyvind Selnæs, DSA	207
IN TOTAL				3150