

Summary Report from the NKS Board Meeting, Teams, February 2, 2021

Call for Proposals 2021

NKS would like to thank all the applicants for proposals submitted to the NKS-R and NKS-B Call for Proposals 2021. 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 2021

The following activities have been awarded funding.

| Activity Type | Activity Name | Activity Topic | Activity Leader | Funding (kDKK) |
|--|---------------|--|------------------------------------|----------------|
| Plant Life Management and Extension | BREDA 2021 | Barsebäck RPV trepan studies | Pål Efsing, KTH | 465 |
| Decommissioning and management of nuclear waste and spent fuel | COCOS | Corrosion of copper in sulphide containing environment: the role and properties of sulphide films | Elisa Isotahdon, VTT | 558 |
| Reactor Physics | POMMI | Fuel Pellet Dimensional Properties and Microstructural Fracture Modelling | Janne Heikinheimo, VTT | 372 |
| Severe accidents | STATUS | Source Term And Timing Uncertainty in Severe accident | Anders Riber Marklund, Vysus Group | 558 |
| Thermal hydraulics | THEOS | Thermal hydraulics of the suppression pool | Pavel Kudinov, KTH | 558 |
| 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, | Tobias Bolinder, Kiwa Inspecta | 507 |

numerical
implementation and
experimental validation

IN TOTAL

3018

NKS-B Budget Decisions for 2021

The following activities have been awarded funding.

| Activity Type | Activity Name | Activity Topic | Activity Leader | Funding (kDKK) |
|--------------------------------------|---------------|---|------------------------------|----------------|
| Emergency Preparedness | SOCAOTIC | Source Characterization accounting for meteorological uncertainties | Jens Havskov Sørensen, DMI | 525 |
| Measurement Strategy, technology, QA | DTM-DECOM III | Intercomparison exercise in analysis of DTM in decommissioning waste | Anumaija Leskinen, VTT | 450 |
| Emergency Preparedness | RNSARBOOK | Nordic handbook for search and rescue in a maritime radiological/nuclear emergency | Øyvind Aas-Hansen, DSA | 400 |
| Radioecology | BIORAD | Evaluation of the bioaccumulation processes for a wide set of radionuclides under accidental releases by biota | Mikhail Iosjpe, DSA | 500 |
| Emergency Preparedness | COMBMORC | Combined analysis of primary and scattered components in mobile gamma spectrometric data for detection of materials out of regulatory control | Christopher Rääf, Lund U. | 499 |
| Measurement Strategy, technology, QA | NORDICNANO | Implementing NanoSIMS as an analytical technique within nuclear sciences in Nordic countries | Aurélien Thomen, Göteborg U. | 400 |
| Measurement Strategy, technology, QA | PERLAD | Analysis of the Performance of LaBr3 Detectors for Fresh Fallout Response | Mark Dowdall, DSA | 400 |
| IN TOTAL | | | | 3174 |

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