

## Ongoing PhD research

Name	Title	Univ.	Promoter	SCK CEN Mentor	PhD started
Abdo Shamseldin	<a href="#">Development of a constitutive law for accurate prediction of time dependent deformation of OPC based cementitious material at elevated temperatures</a>		Wan-Wendner Roman	Seetharam Suresh	2020-10-01
Abrams Floris	<a href="#">Combining Machine Learning and Operations Research methods for Optimizing Remediation Efforts in Response to Large-Scale Nuclear Emergencies Affecting Food and Agriculture</a>	KULeuven	Van Orshoven Jos (KULeuven)	Sweeck Lieve	2019-10-01
Adam Martin	<a href="#">Shape controlled thorium dioxide precipitation routes</a>	KULeuven	Vleugels Jozef (KULeuven)	Acevedo Muñoz Beatriz	2020-10-01
Aerts Robin	<a href="#">Non-aqueous separation process for the purification of the lutetium-177 medical radioisotope</a>	KULeuven	Binnemans Koen (KULeuven)	Van Hecke Karen	2020-10-16
Ahenkorah Stephen	<a href="#">Development of <sup>225</sup>Ac- and <sup>213</sup>Bi-labelled somatostatin analogues with improved tumour to kidney ratio for the treatment of neuroendocrine tumours</a>	KULeuven	Bormans Guy (KULeuven)	Ooms Maarten	2018-10-29
Akbar Fitriani Cholidah	<a href="#">Fracture mechanisms in environmentally assisted cracking of austenitic steels</a>	UGent	Verbeken Kim (UGent)	Gavrilov Serguei	2020-10-01
Al-dbissi Moad	<a href="#">A novel approach to partial defect testing of spent nuclear fuel for safeguards applications</a>		Paszit Imre	Borella Alessandro	2020-03-01
Arman Meryem	<a href="#">Oxidation of terbium(III) as a first step towards high purity terbium-161 for medical applications</a>	KULeuven	Binnemans Koen (KULeuven)	Geboes Bart	2018-10-01



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Babaei Saeid	<a href="#">A Multi Scale Approach to Model Early Age Thermo-Hydro-Mechanical Behaviour on non-reinforced Concrete</a>	UAntwerpen	Steenackers Gunther (UAntwerpen)	Seetharam Suresh	2017-01-16
Bianchi Anna	<a href="#">Microdosimetry of therapeutic proton beams</a>	UHasselt	Reniers Brigitte (UHasselt)	Vanhavere Filip	2017-10-01
Brookhuis Hein	<a href="#">New Big Science in Belgium. Transformation and Adaptation of SCK CEN 1991-2022.</a>	KULeuven	Vanpaemel Geert (KULeuven)	Geysmans Robbe	2018-10-15
Caglak Emre	<a href="#">Atomic scale simulation of gaseous and volatile fission products with application to LWR and GEN-IV fuels</a>	ULB	Labeau Pierre-Etienne (ULB)	Verwerft Marc	2016-11-16
Cassells Irwin	<a href="#">Development of 161Tb-labelled nanobodies for the treatment of colorectal cancer</a>	KULeuven	Bormans Guy (KULeuven)	Ooms Maarten	2018-10-29
Castillo Dayana	<a href="#">Dosimetry aspects of recoiling daughter nuclides of 225-Actinium in Targeted Alpha Therapy</a>	KULeuven	Koole Michel (KULeuven)	De Saint-Hubert Marijke	2019-11-08
Chang Chih-Cheng	<a href="#">Assessment of mechanical properties of fusion materials by micro-mechanical testing</a>	UCL	Pardoen Thomas (UCL)	Terentyev Dmitry	2020-02-01
Colak Gamze	<a href="#">Preparation of Am containing transmutation targets</a>	KULeuven - MTM	Vleugels Jozef (KULeuven - MTM)	Leinders Gregory	2020-03-16
Corazza Christophe	<a href="#">Aerosol formation, transport and deposition in lead based fast reactors</a>	KULeuven	Vetrano Maria Rosaria (KULeuven)	Rosseel Kris	2018-10-01
Courilleau Camille	<a href="#">Fundamental understanding of the sensitivity of radiation hardening to nickel content and temperature in RPV materials</a>	UR	Pareige Philippe (UR)	Chaouadi Rachid	2019-10-01

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Cristina Antonella	<a href="#">Interception, retention and translocation of radionuclides in agricultural crops under greenhouse conditions, following sprinkling irrigation</a>	UA	Samson Roeland (UA)	Sweeck Lieve	2016-11-01
Dengra i Grau Francesc Xavier	<a href="#">Impact of land use change on the migration of historical radionuclide and heavy metal contamination in riparian soils of the Grote Nete Valley</a>	KULeuven	Smolders Erik (KULeuven)	Van Laer Liesbeth	2020-11-01
Fahrion Jana	<a href="#">Biological oxygen production and air revitalisation for habitats on the Moon</a>	UClermont Auverge	Dussap Claude-Gilles (UClermont Auverge)	Leys Natalie	2020-10-01
Fuentes Solis Noelia	<a href="#">Effect of liquid metal environment on nucleation and propagation of fatigue cracks</a>	KULeuven	Seefeldt Marc (KULeuven)	Gavrilov Serguei	2020-02-15
Geelen Stef	<a href="#">Improving radiological monitoring using drones</a>	UHasselt	Schroeyers Wouter (UHasselt)	Camps Johan	2018-10-01
Geenen Lorain	<a href="#">Study of the radiobiological basis of the therapeutic and cytotoxic responses of targeted radionuclide therapy using Lu177-DOTATATE and Ac225-DOTATATE</a>	EURotterdam	De Jong Marion (EURotterdam)	Aerts An	2019-10-01
Giacomo Gregori	<a href="#">Electrochemical measurement and characterization of corrosion products in lead-bismuth eutectic</a>		Doneux Thomas	Lim Jun	2019-12-01
Giménez Francisco Javier	<a href="#">Microbial community structure and dynamics during radioactive waste disposal</a>	VUB	Peeters Eveline (VUB)	Mijnendonckx Kristel	2019-11-15
Glesner Colin	<a href="#">Safety, security, and innovation in high-risk sociotechnical systems – tensions and tradeoffs</a>	ULiège	Fallon Catherine (ULiège)	Geysmans Robbe	2017-10-01
Goussarov Gleb	<a href="#">Bioinformatics tools for metagenomics analysis of microbial communities</a>	UGent	Vandamme Peter (UGent)	Van Houdt Rob	2017-10-01

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Hasan Moudud Md	<a href="#">Decreasing global uncertainty in mapping site &amp; environmental contamination by combining different measurement techniques in a joint (geo)statistical interpretation</a>	VUB	Huysmans Marijke (VUB)	Vidmar Tim	2017-10-01
Heynickx Nathalie	<a href="#">Study of the radiobiological basis of therapeutic and toxic responses of prostate cancer radiation therapy</a>	UGent	Baatout Sarah (UGent)	Aerts An	2019-10-07
Hoti Ferdiana	<a href="#">Communication of uncertainties related to radiological risk situations</a>	UAntwerpen	Thijssen Peter (UAntwerpen)	Perko Tanja	2018-10-15
Hsu Han-Hung	<a href="#">Sol-gel chemistry to control morphology and porosity of actinide oxide feeds for electroreduction</a>	UAntwerpen	Breugelmans Tom (UAntwerpen)	Geboes Bart	2020-02-01
Hurier Sophie	<a href="#">High intensity ISOL ion source for long-term irradiations</a>	KULeuven	Cocolios Thomas (KULeuven)	Rijpstra Kim	2019-12-01
Inalegwu Auchi	<a href="#">Unravelling the potential of circular RNAs as novel biomarkers of radiation exposure and - sensitivity and their functional characterization in the radiation response</a>	UAntwerpen	de vos winnok (UAntwerpen)	Quintens Roel	2017-10-15
Kachko Olga	<a href="#">Development of Reduced Activation Ferritic Martensitic Steels for fusion applications</a>	UGent	Petrov Roumen (UGent)	Terentyev Dmitry	2020-01-01
Kayal Gunjan	<a href="#">Clinical dosimetry in molecular radiotherapy</a>	UToulouse	Bardies Manuel (UToulouse)	Struelens Lara	2018-01-01
Kenens Joke	<a href="#">Probing the potential of citizen science in the governance of nuclear incidents, accidents, and post-disaster situations</a>	KUL	Van Hoyweghen Ine (KUL)	Turcanu Catrinel	2017-08-01

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Khvan Tymofii	<a href="#">Nano-indentation for sub-miniaturized testing of irradiated materials: FEM analysis and experiments</a>	ULiège	Noels Ludovic (ULiège)	Terentyev Dmitry	2018-10-19
Laanen Paulus	<a href="#">Do plants adapt to chronic low-dose gamma exposure? A mechanistic study comparing plants exposed under field and lab conditions on (epi) genetic, biochemical and population level.</a>	UHasselt	Cuypers Ann (UHasselt)	Horemans Nele	2018-10-01
Larion Ygee	<a href="#">Reduced Order Modelling Techniques for Coupled Geomechanics Problems</a>		Massart Thierry	Seetharam Suresh	2017-10-01
Leenders Benji	<a href="#">Improving the extraction of radioactive isotopes from MYRRHA linac targets by molecular sidebands</a>	UGent	Cottenier Stefaan (UGent)	Houngbo Donald	2019-10-25
Lescur Amke	<a href="#">The influence of heavy liquid metal environment on mechanical and corrosion properties of austenitic stainless steel welds</a>	UGent	Petrov Roumen (UGent)	Lim Jun	2019-01-01
Li Xiang	<a href="#">Corrosion study of the BR1 fuel in highly alkaline conditions</a>	UCL	Pardoen Thomas (UCL)	Caes Sébastien	2020-01-01
Li Meng	<a href="#">Experimental and numerical investigations on the miniaturization for fracture toughness characterization of RPV materials</a>	UCL	Pardoen Thomas (UCL)	Uytdenhouwen Inge	2018-10-15
Llopart Inés	<a href="#">Development of novel assays for 'difficult-to-measure' radionuclides in materials produced during nuclear decommissioning activities</a>	VUB	Leermakers Martine (VUB)	Vasile Mirela	2019-11-01

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Lopes Maia Eloa	<a href="#">Mechanisms of localized corrosion initiation in liquid metal environment</a>	VUB	Terryn Herman (VUB)	Gavrilov Serguei	2020-10-15
Lu Min	<a href="#">Quantifying and predicting river-aquifer exchange in lowland floodplains (Nete, Demer and Dijle)</a>	KULeuven	Huysmans Marijke (KULeuven)	Gedeon Matej	2017-11-01
Maertens Dominic	<a href="#">Study of reaction kinetics in continuous partitioning processes for actinide separations</a>	KULeuven	Binnemans Koen (KULeuven)	Cardinaels Thomas	2019-11-01
Maertens Laurens	<a href="#">Understanding copper- and silver-based antimicrobials and their potential in space applications</a>		Matroule Jean-Yves	Van Houdt Rob	2017-10-01
Mertens Amber	<a href="#">Unravelling uranium uptake mechanisms in <i>Arabidopsis thaliana</i></a>	UHasselt	Cuypers Ann (UHasselt)	Saenen Eline	2018-10-01
Miranda Silvana	<a href="#">Understanding the gravity of the situation: immune dysfunction in response to space stress</a>	UGent	Baatout Sarah (UGent)	Baselet Bjorn	2020-11-01
Nabha Racell	<a href="#">Assessment of relative biological effectiveness of clinical and secondary irradiation in proton therapy by microdosimetric measurements and simulations</a>	KULeuven	Sterpin Edmond (KULeuven)	Van Hoey Olivier	2019-01-01
Nguyen Luong The Thinh	<a href="#">Carbonation, decalcification and recalcification of Calcium-Silicate-Hydrate</a>	KULeuven	Cizer Özlem (KULeuven)	Phung Quoc Tri	2020-11-01
Nguyen Thi Nhan	<a href="#">Physico-chemical evolution of geopolymers in contact with aggressive environment</a>	KULeuven	Pontikes Yiannis (KULeuven)	Phung Quoc Tri	2019-12-15
Patil Amit Ravindra	<a href="#">Model development for the assessment of the impact of accidental and routine radioactive releases into the Meuse-Scheldt aquatic system</a>	UCL	Deleersnijder Eric (UCL)	Fiengo Perez Fabricio	2020-11-01

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Pauwels Jente	<a href="#">Chemical and radiological assessment of deep brine-type geothermal groundwaters.</a>	KU Leuven	Cappuyns Valérie (KU Leuven)	Salah Sonia	2017-10-01
Penders Aäron	<a href="#">Microstructural investigation of irradiation assisted stress corrosion cracking mechanism based on focused ion beam analysis of tested and industrial specimens</a>	UAntwerpen	Schryvers Nick (UAntwerpen)	Konstantinovic Milan	2018-10-01
Petrović Đorđe	<a href="#">Investigation of a Hypothetical Core Disruptive Accident scenario in MYRRHA</a>	KULeuven	D'haeseleer William (KULeuven)	Scheveneels Guy	2020-10-16
Radstake Eline	<a href="#">Unraveling non-cancer effects of spaceflight: how are the brain and skin affected in astronauts?</a>	UGent	Baatout Sarah (UGent)	Verslegers Mieke	2019-02-01
Ribeiro Jessica	<a href="#">Radiation effects on human brain development, modeled in human brain organoids</a>	HHU	Gopalakrishnan Jay (HHU)	Quintens Roel	2020-01-01
Rogiers Tom	<a href="#">Unravelling radionuclide resistance mechanisms in the bacterium Cupriavidus metallidurans</a>	UGent	Boon Nico (UGent)	Mijnendonckx Kristel	2017-10-01
Saldarriaga Vargas Clarita	<a href="#">Preclinical computational dosimetry of Nanobodies in targeted radionuclide therapy of HER-2 over-expressing cancers</a>	VUB	Caveliers Vicky (VUB)	Struelens Lara	2017-04-01
Sallam Magy	<a href="#">Cardiovascular dysfunction after cancer radiation therapy: search for biomarkers and study of the underlying physiological mechanisms</a>	UAntwerpen	Guns Pieter-Jan (UAntwerpen)	Aerts An	2018-12-01
Schönlank Maximiliaan	<a href="#">Improved deposition modelling based on combining state-of-the-art atmospheric dispersion</a>		Termonia Piet	Camps Johan	2020-10-01

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	<a href="#">simulations and numerical weather data.</a>				
Segers Charlotte	<a href="#">Investigating microbial therapies to combat gut microbiome dysbiosis during pelvic irradiation</a>	UAntwerpen	Lebeer Sarah (UAntwerpen)	Mastroleo Felice	2017-10-01
Serag Essam Sadik	<a href="#">Coatings enabling robotic systems in liquid metal for a new generation of nuclear reactors.</a>	UNamur	Lucas Stéphane (UNamur)	Schuurmans Paul	2020-10-01
Shagalakova Aidana	<a href="#">HERMMES - Hadron Energy Resolved Measurement using Magnetic Electron Separation</a>	KULeuven	Sterpin Edmond (KULeuven)	de Freitas Nascimento Luana	2020-10-16
Star Kelbij Sabrina	<a href="#">Development of Reduced Order CFD models for the application of Uncertainty Quantification</a>	UGent	Degroote Joris (UGent)	Belloni Francesco	2017-10-01
Tamborino Giulia	<a href="#">Medical alpha emitting radionuclides: how to correlate microdosimetry with biological effects?</a>	EURotterdam	De Jong Marion (EURotterdam)	De Saint-Hubert Marijke	2017-10-01
Uygur Selim	<a href="#">Phase stability and oxidation behavior of high Pu content fast reactor MOX fuel</a>	KULeuven	Vleugels Jozef (KULeuven)	Delville Rémi	2019-01-15
Van Dyck Isabelle	<a href="#">Application of Lemna minor in site remediation strategies</a>		Vangronsveld Jaco	Vanhoudt Nathalie	2019-10-01
Vande Pitte Jonas	<a href="#">Post-test irradiation temperature determination and neutron dosimetry methods</a>	UGent	Detavernier Christophe (UGent)	Uytdenhouwen Inge	2017-10-01
Vanheukelom Margot	<a href="#">Quantifying the effects of soil and plant characteristics on radiocaesium uptake: A global perspective</a>	KULeuven	Smolders Erik (KULeuven)	Sweeck Lieve	2020-10-01
Verbeelen Tom	<a href="#">URINIS Project - Urine valorisation in Space</a>	UGent	Ganigue Ramon (UGent)	Mastroleo Felice	2020-03-23

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Verlinden Bart	<a href="#">Effect of ionizing radiation on solvent extraction systems for the separation of minor actinides</a>	KULeuven	Binnemans Koen (KULeuven)	Van Hecke Karen	2017-10-01
Waked Anthony	<a href="#">Targeted radionuclide therapy as new treatment opportunity against glioblastoma recurrences</a>	ULiège	Rogister Bernard (ULiège)	Benotmane Rafi	2020-11-01
Wanna Nancy	<a href="#">Development and validation of HPLC-SF-ICP-MS methodologies for characterization of spent nuclear fuel</a>	UGent	Vanhaecke Frank (UGent)	Van Hoecke Karen	2017-01-15
Wouters Shari	<a href="#">Harnessing a therapeutic microbiome as an alleviating strategy for dysbiosis and recurrence in colorectal cancer patients undergoing radiotherapy</a>	UAntwerpen	Kumar-Singh Samir (UAntwerpen)	Ahmed Mohamed Mysara	2018-10-01
Yin Chao	<a href="#">Development and qualification of irradiation tolerant tungsten and novel toughness-enhanced composites for fusion applications</a>	UCL	Pardoen Thomas (UCL)	Terentyev Dmitry	2017-01-15
Zakirov Aidar	<a href="#">Effect of Cu, P, Ni and Mn content, individually and synergistically, on the microstructure of irradiated chemically-tailored RPV steels</a>	UNormandie	Pareige Philippe (UNormandie)	Stergar Erich	2018-11-05
Zhu Hongshan	<a href="#">Inorganic sorption materials tailored for 225Ra/225Ac and 225Ac/213Bi radionuclide generators for biomedical applications</a>		Binnemans Koen	Heinitz Stephan	2019-10-28