

**EURATOM
NATIONAL
CONTACT
POINT
in UKRAINE**

NEWSLETTER

UAInEuratom project (brief information)

The Association Agreement between Ukraine and Euratom was signed on 27 June 2016 and entered into force on 28 October 2016. Better integration of Ukrainian nuclear research entities into European nuclear research networks could be seen as mutually beneficial for the whole Euratom research community.



“UA NCP for deeper integration of Ukrainian researchers to Euratom” project (acronym: UAInEuratom) is initiated in order to provide deeper integration and improved participation of Ukrainian researchers and research entities in Euratom research activities with future aim to increase their participation in Euratom projects, thereby enabling a more broad and effective cooperation in the field of research on fission and fusion, and fully exploiting the potential of Ukrainian research entities regarding their infrastructures, capacities and research programmes.

NSC KIPT was officially appointed by the Ukrainian authorities as National Contact Point to Euratom in 2017. UAInEuratom is an 18 months project that is initiated as support and coordination action for the NCP to Euratom in Ukraine (UA Euratom NCP) to integrate Ukrainian researchers and research centers to Euratom.

UAInEuratom project has the following specific objectives:

- Strengthening of UA scientist participation to Euratom programmes;
- Enhancing of Ukrainian - EU networking activities in Euratom research area;
- Raising of Euratom programme awareness among representatives of Ukrainian research centers, SMEs, authorities and strengthening the link between Euratom and Ukrainian science communities;

There are four work packages that include all project activities to achieve the objectives. All work packages will be managed and implemented by KIPT (Ukraine).

- WP1. UA Euratom NCP skills and services improvement,
- WP2. Enhancing of UA-EU networking activities in Euratom research area,
- WP3. Communication and dissemination,
- WP4. Project management

Project information:



Horizon 2020
European Union funding
for Research & Innovation

Grant agreement ID: 822257

Status: Ongoing project

Start-end date: 1 July 2018 - 31 December 2019

Funded under: H2020-Euratom-1

Overall budget: € 150 000

Coordinated by: NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY, Ukraine

Stay tuned at: <https://uaineuratom.kipt.kharkov.ua/>

EURATOM INFO DAY in Ukraine

Kyiv, Ukraine
8 April, 2019

AGENDA

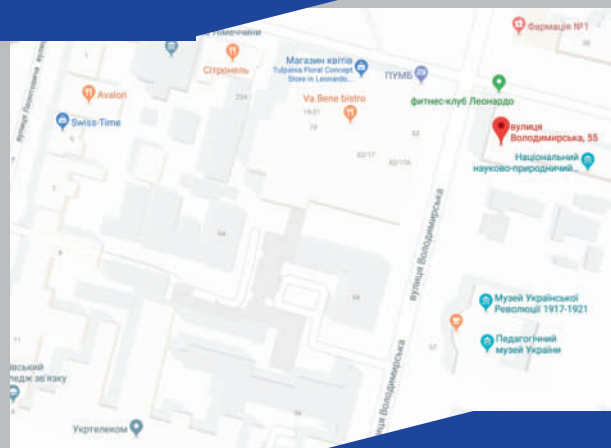
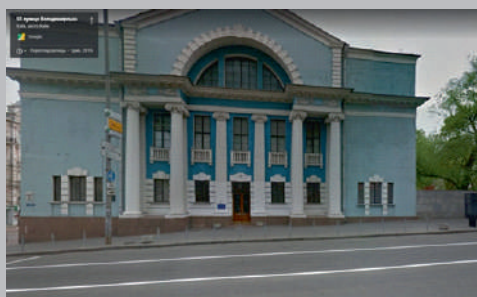


Horizon 2020
European Union funding
for Research & Innovation

08.45 – 09.15	Registration
09.15 – 09.30	Welcome (Vice President of NAS of Ukraine A.Zagorodny, Representative of Ministry of Education and Science of Ukraine)
09.30 – 09.40	UAinEuratom – project of Euratom NCP in Ukraine O.Volobuyev, Euratom NCP
09.40 – 10.40	Presentation on EURATOM WP 2019-20 Helena Zatlkajova, DG Energy and EURATOM
10.40 – 11.00	Coffee Break
11.00 – 12.00	Presentation new Horizon Europe Programme 2021-27 incl. Euratom Programme 2021-25 Mykola Dzubinsky, DG RTD/Directorate Energy
12.00 – 13.00	Lunch
13.00 – 14.30	Discussion on WP 2019-20.
14.30 – 14.50	Coffee Break
14.50 – 16.50	Discussion on EURATOM Horizon Europe Programme 2021-25. Info on Euratom FISA-RADSWASTE conference in Pitesti, Romania
16.50 – 17.00	Info Day Closing

Venue:

Conference Hall
of National Academy of Sciences of Ukraine,
55 Volodymyrska str., Kyiv, Ukraine



Collaborative platforms

In line with the strategy to establish a true European Research Area in nuclear science and technology and with the support of the European Commission via the Euratom Framework Programme, some forums have recently been established bringing together leaders from industry, academia and national research and safety organisations to plan and carry out research more strategically. Two of these forums are technology platforms involving industrial players and end users of the technology as well as publicly-funded research organisations and institutes – SNETP and IG DTP.



SNETP – Sustainable Nuclear Energy Technology Platform

The Sustainable Nuclear Energy Technology Platform brings together more than 100 members from 21 European countries, including all the major nuclear industrial and research players (including industry – both utilities and vendors – research organisations, technical safety organisations, academia, civil society organisations, NGO s). Formally launched in September 2007, SNETP represents a major effort to better coordinate research activities in the area of nuclear fission safety and systems and to collaborate more effectively in implementing research of strategic importance for Europe.

More information: <http://www.snetp.eu/>
Three SNETP Pillars: NUGENIA, ESNII, NC2I



NUGENIA – Nuclear Generation II & III Association

NUGENIA is an international non-profit association dedicated to the research and development of nuclear fission technologies, with a focus on Gen II & III nuclear plants.

It provides scientific and technical basis to the community by initiating and supporting international R&D projects and programmes.

The association gathers stakeholders from industry, research, safety organisations and academia, committed to develop joint R&D projects in this field.

More information: <http://www.nugenia.org/>



ESNII – European Sustainable Nuclear Industrial Initiative

It addresses the need for demonstration of Generation IV Fast Neutron Reactor technologies together with supporting research infrastructures, fuel facilities and R&D work. The main goal of ESNII is to design, to license, to construct, to commission and put into operation before 2025 the Sodium Fast Reactor (SFR) Prototype reactor called ASTRI D and the flexible fast spectrum irradiation facility MYRRHA. The ALFR ED demonstrator for Lead-cooled Fast Reactor (LFR), and ALLEGRO for Gas-cooled Fast Reactor (GFR) technologies are also part of the roadmap.

More information: <http://www.snetp.eu/esnii/>



Implementing Geological Disposal of Radioactive Waste Technology Platform - IGD-TP

The IGD-TP is dedicated to initiating and carrying out European strategic initiatives to facilitate the stepwise implementation of safe, deep geological disposal of spent fuel, high-level waste and other long-lived radioactive waste. It aims to address the remaining scientific, technological and social challenges, and support European waste management programmes.

More information: www.igdtp.eu

Collaborative platforms



NC2I – Nuclear Cogeneration Industrial Initiative
 NC2I aims at demonstrating an innovative and competitive energy solution for the low-carbon cogeneration of heat and electricity based on nuclear energy. The targeted outcome is commissioning within 10 years of a nuclear cogeneration prototype to deploy this low-carbon energy technology in several energy-intensive industries.

More information: <http://www.snetp.eu/nc2i/>

Other initiatives



CONCERT – European Joint Programme for the Integration of Radiation Protection Research.

The CONCERT-European Joint Programme for the Integration of Radiation Protection Research' under Horizon 2020 aims to contribute to the sustainable integration of European and national research programmes in radiation protection. CONCERT as a co-fund action strives to achieve the attraction and pooling of national research efforts in Radiation Protection with EURATOM research programmes in order to make better use of public R&D resources and to tackle common European challenges in radiation protection more effectively by joint research efforts in key areas. In order to rise to this challenge CONCERT is operating as an umbrella structure for the research initiatives of the radiation protection research platforms MELODI, ALLIANCE, NERIS, EURADOS and EURAMED.

More information: <http://concert-h2020.eu/>



MELODI – Multidisciplinary European Low Dose Initiative
 MELODI is a European Platform dedicated to low dose ionizing radiation risk research.

The purpose of the MELODI is to integrate national and European activities in the field of low dose and low dose-rate radiation research, to define priority scientific goals and to implement research.

The Strategic research Agenda of MELODI identifies these priority goals and the specific resources, infrastructures and training capabilities needed to further developing the low dose risk research.

The key priority for radiation protection is to improve health risk estimates for exposures corresponding to the dose limits for occupational exposures and to reference levels of the population in emergency situations.

More information: <http://www.melodi-online.eu>



NERIS – European Platform on preparedness for nuclear and radiological emergency response and recovery

NERIS was established in June 2010 to assure the positive momentum in nuclear and radiological emergency co-operation in Europe and to develop technical and methodological methods at all operational levels.

The NERIS Platform is a forum for dialogue and methodological development between European, national, regional and local authorities, technical support organisations, operators, professional organisations, research institutes, universities, non-governmental organisations, consultants, and national and local stakeholders and associations taking part in decision making of protective actions in nuclear and radiological emergencies and recovery in Europe.

More information: <http://www.eu-neris.net/>

Collaborative platforms



ALIANCE – European Radioecology Alliance

The European Radioecology Alliance was founded in 2009 to coordinate and promote European research on Radioecology. It acts as a Research Platform defining priorities and research programmes and integrating resources. It promotes communication with stakeholders. The ALLIANCE, together with the EC-STAR Network of Excellence (2011-2015), has developed a Strategic Research Agenda (SRA), which defines a long term vision on the needs and implementation of research in Radioecology. Members of the ALLIANCE bring together parts of their respective research and development programmes into an integrated programme that maintains and enhances radioecological competences and experimental infrastructures and addresses scientific and educational challenges in assessing the impact of radioactive substances on humans and the environment.

More information: <http://www.er-alliance.org/>



EURADOS – The European Radiation Dosimetry Group

The European Radiation Dosimetry Group is a non-profit organization promoting research and development and European cooperation in the field of ionizing radiation dosimetry. The European Radiation Dosimetry Group comprises a self-sustainable network of more than 60 European institutions and 300 scientists active in the field of radiation dosimetry. The aim of the network is to promote research and development and European cooperation in the field of the ionizing radiation dosimetry.

EURADOS activities encompass coordination of working groups, organization of scientific meetings and training activities, and organization of intercomparisons and benchmark studies. EURADOS areas of activity are individual monitoring for external and internal exposure, retrospective dosimetry, environmental radiation monitoring, diagnostic and interventional radiology, nuclear medicine, radiation therapy and computational dosimetry.

More information: <http://www.eurados.org/>



EURAMED -The European Alliance for Medical Radiation Protection Research (EURAMED) represents a consortium of associations involved in the application of ionizing radiation in medicine, namely the European Association of Nuclear Medicine (EANM), the European Federation of Organizations for Medical Physics (EFOMP), the European Federation of Radiographer Societies (EFRS), the European Society of Radiology (ESR) and the European Society for Radiotherapy and Oncology (ESTRO) with the goal of jointly improving medical care and its medical radiation protection issues through sustainable research efforts. Since October 1st, 2017 EURAMED is a non-profit organisation registered in Austria.

For the first time the five medical societies joined forces and agreed on a collaboration to improve the application of ionising radiation in medical care by developing and exploring common research strategies and by actively promoting the translation of results into clinical practice.

More information: www.euramed.eu

EURATOM Work Programme 2019-2020

In order to ensure the implementation of the Research and Training Programme of the European Atomic Energy Community (2019-2020) established by Regulation (Euratom) No 2018/1563 ('Euratom Research and Training Programme') the multiannual work programme for 2019-2020 was adopted.



This work programme will support research and training in both fission and fusion. Actions proposed in this work programme are in line with priorities identified in the 'Energy Union' strategy and will help to maintain the EU's technological leadership in nuclear technology, including in the development of fusion energy.

The main section of the document describes a call for proposals (Nuclear Fission and Radiation Protection Research), where applicants with suitable projects can apply for funding for the two-year period.

Call topics are organized in six sections:

- | | |
|--|--|
| A. Nuclear safety | D. Education and training |
| B. Decommissioning and environmental remediation | E. Radiation protection and medical applications |
| C. Radioactive waste management | F. Research infrastructure |

In all proposals submitted under this call a due attention should be paid to education and training and to dissemination of research results through scientific publications, as well as to the exploitation of research results by the stakeholders concerned.

Call topics

Call identifier	Topics (Type of Action)
Opening: 15 May 2019	Deadlines: 25 Sep 2019
NFRP-2019-2020-01 (RIA)	Ageing phenomena of components and structures and operational issues
NFRP-2019-2020-02 (RIA)	Safety assessments for Long Term Operation (LTO) upgrades of Generation II and III reactors
NFRP-2019-2020-03 (RIA)	Safety margins determination for design basis-exceeding external hazards Innovation for Generation II and III reactors
NFRP-2019-2020-04 (IA)	Support for safety research of Small Modular Reactors
NFRP-2019-2020-05 (RIA)	Safety Research and Innovation for advanced nuclear systems
NFRP-2019-2020-06 (RIA)	Safety Research and Innovation for Partitioning and/or Transmutation
NFRP-2019-2020-07 (RIA)	Towards joint European effort in area of nuclear materials
NFRP-2019-2020-08 (CSA)	Fostering innovation in decommissioning of nuclear facilities
NFRP-2019-2020-09 (IA)	Developing pre-disposal activities identified in the scope of the European Joint
NFRP-2019-2020-10 (RIA)	Programme in Radioactive Waste Management
NFRP-2019-2020-11 (CSA)	Advancing nuclear education
NFRP-2019-2020-12 (RIA)	Further integrating Radiation Protection research in the EU
NFRP-2019-2020-13 (CSA)	Research roadmap for medical applications of ionizing radiation
NFRP-2019-2020-14 (RIA)	Improving low-dose radiation risk appraisal in medicine
NFRP-2019-2020-15 (RIA)	Optimised fuels for production of medical radioisotopes
NFRP-2019-2020-16 (CSA)	Roadmap for use of Euratom access rights to Jules Horowitz Reactor experimental capacity
NFRP 2019-2020-17 (CSA)	Optimised use of European research reactors

Overall indicative budget

2019 - 63.60 (EUR million)

2020 - 70.30 (EUR million)

For more information refer to: http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/euratom/h2020-wp1920-euratom_en.pdf

FUTURE EVENTS

NUGENIA Forum 2019

13 - 15 March 2019, Paris, France



The theme of this year Forum is “Innovation for a safe, efficient and low-carbon nuclear energy production”. It will be devoted to the discussion on the technical and scientific milestones to be tackled to ensure competitive, efficient and safe production of low CO₂ electricity from GEN II, GEN III and SMR water-cooled nuclear power plants.

Technological innovation is fundamental to maintain a high level of safety and competitiveness and requires the establishment of a well coordinated R&D&I programme at the European level, in close collaboration with international partners.

The NUGENIA Forum 2019 aims at discussing and analyzing recent technological innovations in the field of manufacturing, digital technology and safety approaches that would lead to propose R&D and innovation priorities.

<http://nugenia.org/nugenia-forum-2019/>

9TH CONFERENCE ON SEVERE ACCIDENT RESEARCH – ERMSAR 2019

18 –19 March 2019,
Prague, Czech Republic

Conference topics:

- In-vessel corium and debris coolability
- Ex-vessel corium interactions and coolability
- Containment behavior incl. H₂ explosion risk
- Source term issues
- Severe accidents scenarios
- Emergency management and severe accident impact on the environment
- Communications on ongoing severe accident projects and their follow-up are welcome

<https://www.ermsar2019.com/>

INTERNATIONAL CONGRESS ON ADVANCES IN NUCLEAR POWER PLANTS (ICAPP)

12-15 May 2019, France

ICAPP provides a forum for nuclear industry leaders to exchange information, present results from their work, review the state of the industry, and discuss future directions and needs for the deployment of new nuclear power plant systems around the world. Uniting the business and technical interests of participants and exhibitors, ICAPP attracts 300+ specialists from around the world, offers more than 250 scientific/technical presentations in plenary and parallel sessions, and features additional panel and discussion sessions.

FUTURE EVENTS

CONFERENCES IN SAFETY OF REACTOR SYSTEM AND RADIOACTIVE WASTE MANAGEMENT

4 -7 June 2019,
Romania, Pitesti



The European Commission is co-organising FISA 2019 and EURADWASTE '19 conferences with the Ministry of Research and Innovation of Romania and the Institute for Nuclear Research (RATEN ICN) under the auspices of the Romanian Presidency of the Council of the European Union in 2019, with the objectives:

To present progress and key achievements of some 90 projects carried out, since the previous conference edition in 2013, as part of the 7th and Horizon 2020 Euratom Research and Training Framework Programmes (FP)

To stimulate discussions on the state of play of R&D, key challenges addressed at national, European and international levels on research and innovation policies, synergies and partnerships, and future perspectives.

To address the latest EC proposal for a new Framework Programme for Research and Innovation for the period 2021-27, 'Horizon Europe' and 'Euratom Research and Training' programme

FISA 2019 and EURADWASTE '19 conferences in Safety of Reactor System and Radioactive Waste Management will address and engage with all relevant stakeholders involved: research and training organisations, academia, industry, technology platforms, European fora and European civil society, and international organisations.

INTERNATIONAL CONFERENCE EASTERN AND CENTRAL EUROPEAN DECOMMISSIONING (ECED2019)

25-27 June 2019,
Slovakia

The main topics of the conference are focused on:

1. Managerial and social aspects of decommissioning of nuclear facilities including
 - National strategic initiatives and concepts
 - Specific experience in costing/planning
 - Specific experience considering nuclear accidents
 - Public acceptance and public participation related to the back-end activities
2. Technical aspects of decommissioning of nuclear facilities including
 - Specific technologies and methods used in decommissioning
 - Experience with treatment and conditioning of radioactive waste
 - Experience with disposal of radioactive waste
 - Release of materials from decommissioning to environment
 - Environmental impact of back-end activities

FUTURE EVENTS

NUCLEAR CORROSION SUMMER SCHOOL – NUCOSS 19

7-12 July 2019,
Slovenia

The summer school will cover all necessary topics, starting with fundamental electrochemistry, to provide a self-consistent understanding of nuclear corrosion issues.

The main topics are (the programme will be available at a later stage):

- Electrochemistry and corrosion
- Overview on corrosion in the nuclear cycle
- Corrosion in light water reactor plants (incl. monitoring & mitigation aspects and a focus on environmentally-assisted cracking)
- Corrosion in nuclear waste disposals
- Corrosion in Gen IV systems
- Case studies and ageing management
- Advanced technologies to characterize corrosion

<https://meactos.eu/meetings/nucoss/>

WORLD NUCLEAR ASSOCIATION SYMPOSIUM 2019

4-6 September 2019,
London, United Kingdom

The World Nuclear Association Symposium is the premier annual event for the global nuclear industry. On 4-6 September 2019 in London, UK hundreds of nuclear energy professionals will gather for a diverse programme of presentations, hot seat interviews, and high-level panels on the most important industry issues today. The

Symposium covers a broad range of topics:

- Fuel supply, mining, conversion, enrichment, fabrication
- Fuel procurement
- Research, government, nuclear organizations
- Transport, legal, financial, insurance, brokerage
- Reactor vendors
- Nuclear electricity generation
- Engineering, construction or waste management

<https://www.wna-symposium.org/>

Ukraine in Euratom projects

ONGOING PROJECTS

EUROfusion



Implementation of activities described in the Roadmap to Fusion during Horizon 2020 through a Joint programme of the members of the EUROfusion consortium

A Roadmap to the realization of fusion energy was adopted by the EFDA system at the end of 2012. The roadmap aims at achieving all the necessary know-how to start the construction of a demonstration power plant (DEMO) by 2030, in order to reach the goal of fusion electricity in the grid by 2050. The roadmap has been articulated in eight different Missions. The present proposal has the goal of implementing the activities described in the Roadmap during Horizon 2020 through a joint programme of the members of the EUROfusion Consortium.



ITER is the key facility in the roadmap. Thus, ITER success remains the most important overarching objective of the programme and, in the present proposal the vast majority of resources in Horizon 2020 are devoted to ensure that ITER is built within scope, time and budget; its operation is properly prepared; and a new generation of scientists and engineers is properly educated (at undergraduate and PhD level) and trained (at postdoctoral level) for its exploitation. DEMO is the only step between ITER and a commercial fusion power plant. To achieve the goal of fusion electricity demonstration by 2050, DEMO construction has to begin in the early 2030s at the latest, to allow the start of operation in the early 2040s. DEMO cannot be defined and designed by research laboratories alone, but requires the full involvement of industry in all technological and systems aspects of the design. Specific provisions for the involvement of industry in the Consortium activities are envisaged.

Grant agreement ID: 633053

Project website: <https://www.euro-fusion.org/>

Status: Ongoing project

Start date: 1 January 2014

End date: 31 December 2020

Funded under: H2020-Euratom

Overall budget: € 856 961 937, 57

Coordinated by: MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG
DER WISSENSCHAFTEN EV, Germany

Ukraine in Euratom projects

ONGOING PROJECTS

INSIDER



INSIDER - Improved Nuclear Site characterization for waste minimization in DD operations under constrained EnviRonment

Decommissioning and dismantling (D&D) operations are strongly dependent on the facilities history and the inventory of present radionuclides. The D&D processes are significant source of radioactive waste and their management is a major challenge from technical, economical, financial and societal point of view. This is recognized in a number of reference documents and studies on EU and international level. These challenges are naturally subject for further optimisation



INSIDER

and the ambition of INSIDER project is to contribute to it as follows. The overall project methodology is based on common case studies in the form of interlaboratory comparisons on matrix representative reference samples and benchmarking, on advanced statistical processing and modelling, coupled with adapted and innovative analytical and measurement methods, with respect to sustainability and economic objectives. The envisaged project outcomes will enable building of a fit-for-purpose representation of the radiological status of facilities (or components), at a relevant precision level allowing making decisions concerning different D&D scenario options.

Grant agreement ID: 755554

Status: Ongoing project

Start date: 1 June 2017

End date: 31 May 2021

Funded under: H2020-Euratom-1.2.

Overall budget: € 4 173 870

Coordinated by: COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, France

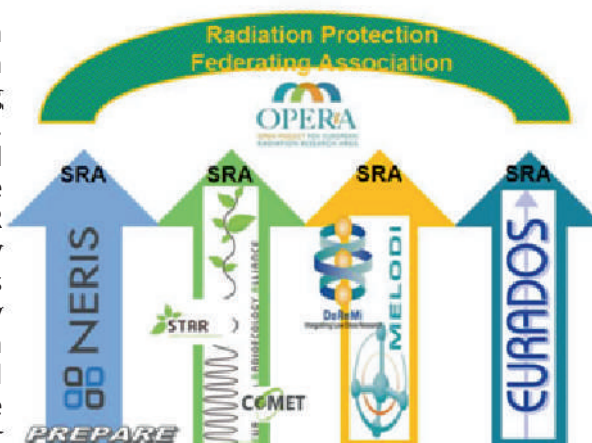
Ukraine in Euratom projects

FINISHED PROJECTS

COMET

COMET - COordination and iMplementation of a pan-European instrUMENT for radioecology

COMET will strengthen the pan-European research initiative on the impact of radiation on man and the environment by facilitating the integration of radioecological research. COMET will build upon the foundations laid by the European Radioecology Alliance (ALLIANCE) and the on-going FP7 STAR Network of Excellence in radioecology. By collaborating with the European platforms on nuclear and radiological emergency response (NERIS) and low dose risk research (MELODI), COMET will significantly aid preparation for the implementation of the Horizon 2020 umbrella structure for Radiation Protection.



Furthermore, COMET will develop strong mechanisms for knowledge exchange, dissemination and training to enhance and maintain European capacity, competence and skills in radioecology. These research activities will be initiated in collaboration with researchers from countries where major nuclear accidents have occurred. The COMET consortium has 13 partners, expanding from the organisations within the FP7 STAR project. In particular, COMET partners from countries which have experienced major nuclear accidents (i.e. Ukraine and Japan) and/or who hold Observatory sites.

Grant agreement ID: 604974

Status: Closed project

Start date: 1 June, 2013

End date: 31 May 2017

Funded under: FP7-EURATOM-FISSION

Overall budget: € 5 531 415,56

Coordinated by: STUDECENTRUM VOOR KERNENERGIE/
CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, Belgium

Ukraine in Euratom projects

FINISHED PROJECTS

CO-CHER

Cooperation on Chernobyl health research – CO-CHER

The IARC previously led an EU funded project “Agenda for Research on Chernobyl Health (ARCH)”, the objective of which was to recommend a strategic health research agenda following the Chernobyl accident. The ARCH demonstrated that Chernobyl provides a unique opportunity to answer questions about radiation risks. The multidisciplinary group of experts strongly supported the need for well-designed and coordinated long-term studies.

The new initiative emphasises the need to build partnerships with the three countries mainly affected, plus Japan, the USA and European countries in order to take the research agenda forward. The purpose is therefore to bring together both key scientific players and funding partners to decide on the research priorities and to seek sustainable funding for those priority areas. The CO-CHER project has a potential to develop a sustainable plan for research into the health effects of the Chernobyl accident with optimal use of available resources. It is completely in line with the MELODI initiative for integrated, long term effort in low dose risk research.

Grant agreement ID: 605302
Project website: <http://co-cher.iarc.fr/>
Status: Closed project
Start date: 1 February 2014
End date: 31 July 2016
Funded under: FP7-EURATOM-FISSION
Overall budget: € 1 282 944
Coordinated by: CENTRE INTERNATIONAL DE RECHERCHE
 SUR LE CANCER, France

PREPARE

PREPARE - Innovative integrative tools and platforms to be prepared for radiological emergencies and post-accident response in Europe

This proposal aims to close gaps that have been identified in nuclear and radiological preparedness following the first evaluation of the Fukushima disaster. It addresses the call Fission-2010-3.3.1: Update of emergency management and rehabilitation strategies and expertise in Europe. The consortium intends to review existing operational procedures in dealing with long lasting releases, address the cross border problematic in monitoring and safety of goods and will further develop still missing functionalities in decision support system ranging from improved source term estimation and dispersion modelling to the inclusion of hydrological pathways for European water bodies. As the management of the Fukushima event in Europe was far from being optimal, we propose to develop means on a scientific and operational basis to improve information collection, information exchange and the evaluation for such types of accidents.

Grant agreement ID: 323287
Status: Closed project
Start date: 1 February 2013
Enddate: 31 January 2016
Funded under: FP7-EURATOM-FISSION
Overall budget: € 6 501 033, 64
Coordinated by: KARLSRUHER INSTITUT FUER TECHNOLOGIE, Germany

Ukraine in Euratom projects

FINISHED PROJECTS

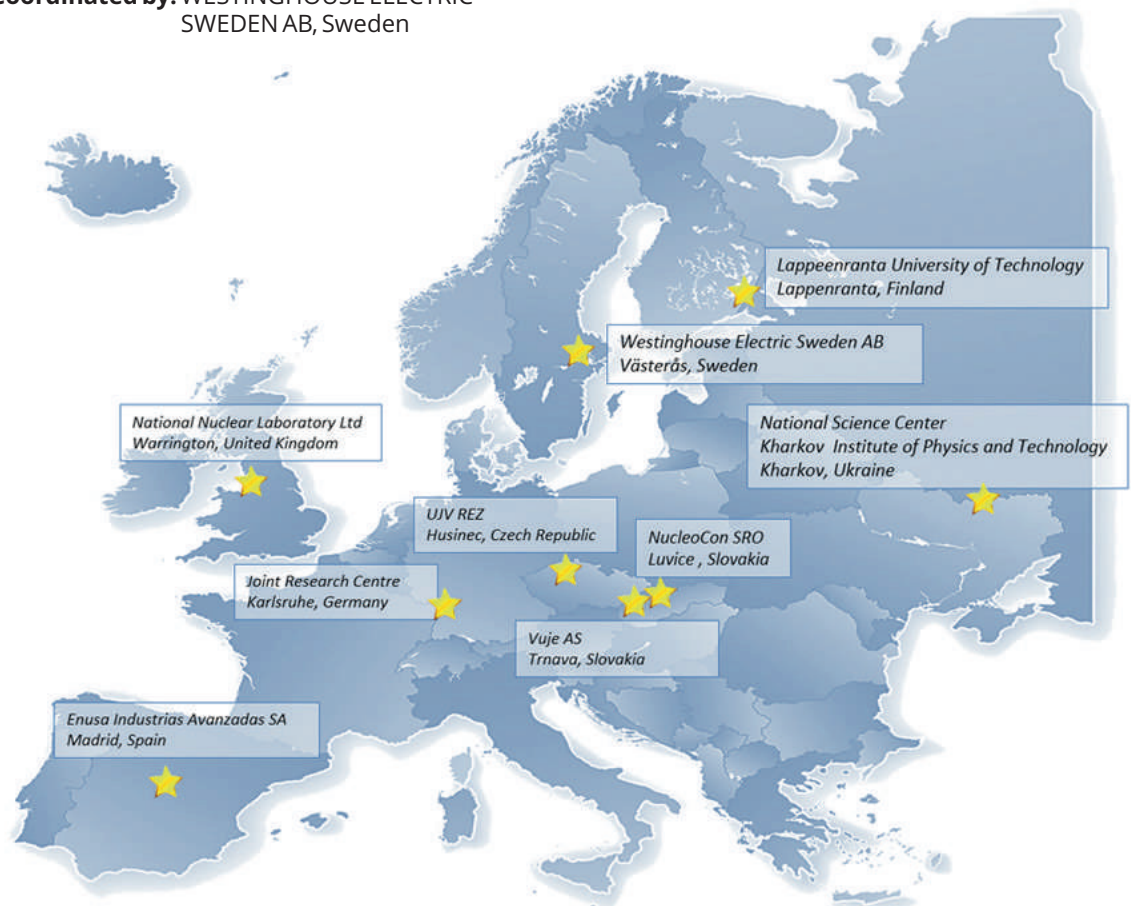
ESSANUF

ESSANUF

ESSANUF - European Supply of SafeNUclear Fuel

The overall aim of the project is to create greater security of energy supply and contribute to the security of supply of nuclear fuel for Russian designed pressurized water reactors (VVER) operating in the EU by diversification of fuel sources in the short / medium term and in full compliance with nuclear safety standards. By that, the project addresses the topic NFRP 16 – 2015. The scientific objectives of the proposed project include increased knowledge concerning the behavior of the VVER-440 fuel during operation. State-of-the-art methods will be verified against an extensive database, including operating experience from several VVER-440 reactors as well as a number of other reactor designs and a wide range of operating conditions. The ability to accurately predict the fuel behavior will be improved and thereby also the safety margins.

Grant agreement ID: 671546
Project website: <http://www.essanuf.eu/>
Start date: 1 September 2015
End date: 31 October 2017
Funded under: H2020-Euratom-1.1.
Overall budget: € 2 053 913,75
Coordinated by: WESTINGHOUSE ELECTRIC SWEDEN AB, Sweden



Ukraine in Euratom projects

FINISHED PROJECTS

EPIRADBIO

EPIRADBIO - Combining epidemiology and radiobiology to assess cancer risks in the breast, lung, thyroid and digestive tract after exposures to ionizing radiation with total doses in the order of 100 mSv or below

The innovative approach proposed here combines epidemiology and radiobiology in order to quantify cancer risks after low-dose or low-dose-rate exposures to ionizing radiation. Cancer risk will be determined for the breast, lung, thyroid and the digestive tract after low-dose-rate exposure to low-LET radiation (external gamma radiation and internal radiation from ¹³¹I) and to high-LET radiation (alpha-particles from incorporated plutonium). Lifetime cancer risks including individual risk factors will be calculated to establish a new basis for deriving dose limits and estimating cancer risks including those from medical diagnostic exposures.)



Grant agreement ID: 269553
Project website: <http://www.epiradbio.eu/>
Status: Closed project
Start date: 1 April 2011
End date: 31 March 2015
Funded under: FP7-EURATOM-FISSION
Overall budget: € 9 935 943, 80
Coordinated by: HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH, Germany

CAST

CAST (CARbon-14 Source Term)

The CAST project (CARbon-14 Source Term) aims to develop understanding of the generation and release of ¹⁴C from radioactive waste materials under conditions relevant to waste packaging and disposal to underground geological disposal facilities. The project will focus on releases from irradiated metals (steels, Zircalloys) and from ion-exchange materials as dissolved and gaseous species. A study to consider the current state of the art knowledge with regards to ¹⁴C release from irradiated graphite will also be undertaken, to further our knowledge from existing projects in this area i.e. CARBOWASTE. The scientific understanding obtained from these studies will then be considered in terms of national disposal programmes and impact on safety assessments. The knowledge gained from the whole of CAST will be disseminated within the project partners and to wider stakeholders and organisation, with a specific objective on education and training.

Grant agreement ID: 604779
Status: Closed project
Start date: 1 October 2013
End date: 31 March 2018
Funded under: FP7-EURATOM-FISSION
Overall budget: € 14 730 136, 67
Coordinated by: RADIOACTIVE WASTE MANAGEMENT LIMITED, United Kingdom

Ukraine in Euratom projects

FINISHED PROJECTS

CTB

CTB - The Chernobyl Tissue Bank – Coordinating International Research on Radiation Induced Thyroid Cancer

This proposal is for continued support for a high quality tissue bank of clinically and pathologically annotated biological samples from patients who have developed thyroid tumours following exposure to radiation from the Chernobyl nuclear accident. It not only provides biological material to researchers world-wide but will collate research data from all projects using the resource in a web-accessible data warehouse, and provide a suite of bioinformatic tools for secondary datamining studies. Biological data will be linked to dosimetry data, as well as data on clinical presentation and outcome. It will provide a coordinated approach to specimens collected to agreed standard operating procedures and quality standards. The project will provide an unequalled resource for research on the health consequences of exposure of a population to radiation from a nuclear accident.

Grant agreement ID: 211712
Status: Closed project
Start date: 1 May 2008
End date: 31 December 2012
Funded under: FP7-EURATOM-FISSION
Overall budget: € 1 751 738,27
Coordinated by: IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY
 AND MEDICINE, United Kingdom

NERIS-TP

NERIS-TP - Towards a self sustaining European Technology Platform (NERIS-TP) on Preparedness for Nuclear and Radiological Emergency Response and Recovery

This project aims on the one hand to keep the momentum gained through the European Project EURANOS in establishing a platform where the operational and research community can meet and discuss with all the relevant stakeholders the topics related to emergency response and recovery preparedness and on the other hand to tackle urgent research topics in the area of nuclear emergency response and recovery preparedness. Within this project, a platform on emergency and post-accident preparedness and management will be established that will be a unique place for combined meeting of the research and the operational community.

Grant agreement ID: 269718
Status: Closed project
Start date: 1 February 2011
End date: 31 January 2014
Funded under: FP7-EURATOM-FISSION
Overall budget: € 2 722 760
Coordinated by: KARLSRUHER INSTITUT FUER TECHNOLOGIE, Germany

Ukraine in Euratom projects

FINISHED PROJECTS

CEREBRAD

CEREBRAD - Cognitive and Cerebrovascular Effects Induced by Low Dose Ionising Radiation

CEREBRAD aims to identify the potential cognitive and cerebrovascular risks of radiation doses below 100 mGy when delivered to a young child (pre- or postnatally). Health risks will be assessed via epidemiological studies of cohorts of exposed children to radiotherapy treatment receiving low doses to the brain or exposed in utero during the Chernobyl disaster. Experimental data will be gathered using animal models exposed to radiation at different stages of brain development. Emphasis will be put on the effects of internal and external exposure, as well as the combined effect of radiation and environmental pollutants. Brain of phenotypically relevant animals will be subjected to deep cellular and molecular analyses to decipher the biological mechanisms underlying the cognitive and cerebrovascular effects induced by low dose radiation.

Grant agreement ID: 295552

Project website: <http://www.cerebrad-fp7.eu/>

Status: Closed project

Start date: 1 October 2011

End date: 31 March 2015

Funded under: FP7-EURATOM-FISSION

Overall budget: € 4 905 635, 40

Coordinated by: STUDECENTRUM VOOR KERNENERGIE/ CENTRE D ETUDE DE L ENERGIE NUCLEAIRE, Belgium

NUGENIA-PLUS

NUGENIA-PLUS - Preparing NUGENIA for HORIZON2020

The objective of the NUGENIA+ project is to support the NUGENIA Association in its role to coordinate and integrate European research on safety of the Gen II and III nuclear installations in order to better ensure their safe long term operation, integrating private and public efforts, and initiating international collaboration that will create added value in its activity fields. The project consists of two parts, the first part being a Coordination and Support Action and the second part a Collaborative Project. The NUGENIA+ project will benefit from the experience of the NUGENIA Association member organisations on managing national research programmes and from the track record of the NUGENIA project portfolio.

Grant agreement ID: 604965

Status: Closed project

Start date: 1 September 2013

End date: 30 September 2016

Funded under: FP7-EURATOM-FISSION

Overall budget: € 10 315 899, 39

Coordinated by: Teknologiantutkimuskeskus VTT Oy, Finland

Ukraine in Euratom projects

FINISHED PROJECTS

CORONA

CORONA - Establishment of a Regional Center of Competence for VVER Technology and Nuclear Applications

The essence of the project is to provide a special purpose structure for training and qualification of personnel for serving VVER technology as one of nuclear power options used in EU. The specific objectives of the project are: - enhancing safety and performance of nuclear installations with VVER technology through specialized initial and continuous training of personnel involved; - keeping the adequate level of safety culture; - contributing to the development of Knowledge Management System for VVER technology; - preserving and further developing nuclear competencies, skills and knowledge related to VVER technology, as a technology used in the EU.

Grant agreement ID: 295999
Status: Closed project
Start date: 1 December 2011
End date: 30 November 2014
Funded under: FP7-EURATOM-FISSION
Overall budget: € 2 244 178
Coordinated by: KOZLODUY NPP PLC, Bulgaria

OPERRA

OPERRA - Open Project for the European Radiation Research Area

"Within the OPERRA project, it is proposed that the MELODI Association, as a well-advanced network, takes the lead in establishing the necessary structures able to manage the long-term European research programmes in radiation protection, also taking advantage of the valuable experience gathered through the DoReMi network of excellence. Whilst in fields adjacent to low-dose risk research (radioecology, nuclear emergency management) scientific issues would continue to be hosted by the sister associations, Alliance and NERIS, these associations are encouraged to join MELODI to establish an umbrella structure as equal partners. The final objective of this project is to build up an umbrella coordination structure that has the capacity in a legal and logistical sense to administer future calls for research in radiation protection as a whole (including low-dose risk, radioecology, nuclear emergency management, and also research activities related to the medical uses of ionizing radiation) on behalf of the European Commission.

Grant agreement ID: 604984
Status: Closed project
Start date: 1 June 2013
End date: 31 May 2017
Funded under: FP7-EURATOM-FISSION
Overall budget: € 12 139 793
Coordinated by: INSTITUT DE RADIOPROTECTION ET DE SURETE
 NUCLEAIRE, France

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The following sources were used to compile the Newsletter:

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3. <http://ec.europa.eu/research/participants/portal>
4. http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/euratom/h2020-wp1920-euratom_en.pdf



Coordination and Support Action

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