



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Bornea, Anisia Mihaela**
Address(es)
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E-mail anisia.bornea@icsi.ro
Nationality Romanian
Date of birth July 26th 1964
Gender Female

Work experience

Dates	2003-present
Occupation or position held	Head of Cryogenic Laboratory, Pilot Plant for Tritium and Deuterium Separation
Main activities and responsibilities	Coordination of the Cryogenic Laboratory research activity. Coordination of the research projects from the national and international research program as director and responsible (Annex 1) Participation to the realization of the feasibility study and of the technical design related to the detritiation facility (CTRF) from CNE Cernavoda
Name and address of employer	National R&D Institute of Cryogenics and Isotopic Technology, Rm. Valcea, Romania
Type of business or sector	Research & Development activities in Physics and Natural Sciences
Dates	04.1998-09.2003
Occupation or position held	CSII
Main activities and responsibilities	Coordination of the research projects as director (Annex 1); Elaboration of the mathematical models and software for hydrogen isotopic exchange processes and for heat and mass transfer in cryogenic installations, specific for Tritium Removal Facility from Rm.Valcea Pilot Plant;
Name and address of employer	National R&D Institute of Cryogenics and Isotopic Technology, Rm. Valcea, Romania
Type of business or sector	Research & Development activities in Physics and Natural Sciences
Dates	12.1995-04.1998
Occupation or position held	CSIII
Main activities and responsibilities	Elaboration of mathematical models and software for hydrogen isotope exchange and heat transfer specific to heavy water detritiation technologies. Scientific research and technological activity in isotope separation
Name and address of employer	National R&D Institute of Cryogenics and Isotopic Technology, Rm. Valcea, Romania
Type of business or sector	Research & Development activities in Physics and Natural Sciences
Dates	09.1987-12.1995
Occupation or position held	Engineer

Main activities and responsibilities Elaboration of mathematical models and software for H₂O- H₂S isotopic exchanges, specific to heavy water production technology.
Elaboration of mathematical models and software for heat and mass transfer in cryogenic installations.

Name and address of employer National R&D Institute of Cryogenics and Isotopic Technology, Rm. Valcea, Romania
Type of business or sector Research & Development activities in Physics and Natural Sciences

Education and training

Dates 1996 – December 2002
Title of qualification awarded Ph.D in Mechanical Engineering/Magna cum Laude
Principal subjects/occupational skills covered Thesis Title: “ Contributions to Heat and Mass Transfer in Regenerators Operated at Low Temperatures” /Thermotecnics
Name and type of organisation providing education and training Technical University of Civil Engineering Bucharest

Dates 1982 – 1987
Title of qualification awarded Bachelor Degree in Engineering
Principal subjects/occupational skills covered Energetic Engineer
Name and type of organisation providing education and training Politehnica University of Bucharest/Energetic Faculty

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Independent user	C1	Independent user	C1	Independent user	C1	Independent user	C1	Independent user
C1	Independent user	C1	Independent user	C1	Independent user	C1	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Social skills and competences Adaptation and communication skills in various environments obtained by participating in:

- National and International scientific conferences
- National and International projects
- Inter-academic exchange

Organisational skills and competences Coordination activity of Cryogenic Laboratory
Manager of several national projects
Scientific reviewer: research projects, international journals
Member of Romanian Physics Society

Technical skills and competences High professional knowledge of hydrogen isotopes separation processes
High professional knowledge of cryogenics processes
High professional knowledge of mathematical models and software developing for processes related to heavy water detritiation technologies and cryogenics.

Computer skills and competences Good command of Microsoft Office Suite and specific graphic design applications. Very good programming in Pascal and Fortran software.

Artistic skills and competences	Picture
Driving licence	B Category
Additional information	<p>Leading of several National Research Projects. More than 50 articles published in national and international journals. More than 50 national and international conferences participations. More than 48 article citations in specialty journals. Special award of National Authority for Scientific Research 2007. Reviewer of Fusion Engineering and Design</p>
Annexes	<p>Annex 1 Annex 2 Annex 3</p>

Annex 1

Published articles in journals and proceedings(2000-present-selection)

1. M.Peculea, **Anisia Mosteanu(Bornea)** - "Compresor cu membrana metalica cu profil de deformare liniarizat"; - Revista "Studii si cercetari de mecanica aplicata"; Ed.Academiei R.S.R., TOM 48, pag.399 - 409, nr.6, iulie - august, 1989;
2. M.Peculea, **Anisia Mosteanu(Bornea)** - "Contributii asupra regimului nestationar al unei instalatii de separare izotopica la doua temperaturi"; - Revista "Studii si cercetari de fizica"; Ed.Academiei române, TOM 42, pag 537 - 549, nr.6, 1990;
3. **Anisia Bornea**, M.Peculea - "Transfert de chaleur dans un regenerateur thermique a basse temperature" -Revue Generale de Thermique (1996) 35, 208-213, Elsevier, Paris, Franta;
4. **Anisia Bornea**, M.Peculea - "Transfert de chaleur dans un regenerateur thermique" - Proceedings Research, Design and Construction of Refrigeration and Air Conditioning Equipments in Eastern European Countries, 10-13 Septembrie 1996, Bucuresti;
5. **Anisia Bornea**, I.Cristescu, Doina Stefanescu - "Influence of hydrodynamic conditions on catalyst isotope exchange HDO-H2 in a successive system catalyst and ordered package" - Chimia 51, Nr.7/97;
6. Cornelia Croitoru, M.Peculea, **Anisia Bornea** - "Behaviour of sieve plates in the H2O - H2S isotopic exchange column for heavy water separtion process" - Roumanian Journal of Chemistry, vol. 43, N.5, may 1998, Editura Academiei Romane Bucuresti;
7. **Anisia Bornea**, I.Cristescu, Doina Stefanescu - "Influence of hydrodynamic conditions on catalyst isotope exchange HDO-H2" - Proceedings BPU-3 (Balkan Physics Union) - 3rd General Conference of the Balkan Physical Union, 2-5 Septembrie 1997, Cluj-Napoca;
8. I.Cristescu, **Anisia Bornea**, Ioana Cristescu, M.Peculea - "Studies about a Cryogenic Cycle from a Plant for Hydrogen's Isotopes Separations" - CRYOGENIC'S 98, Proceedings, Praha,1998;
9. **Anisia Bornea**, I.Cristescu - "Hydrogen high purification by cryogenic methods in a regenerative system in order to remove carbon dioxide" - CRYOGENIC'S 98, Proceedings, Praha 1998;
10. **Anisia Bornea**, I.Cristescu, M.Peculea - " Condensation and Sublimation Phenomena at Simultaneous Heat and Mass Transfer in Regenerators" - Proceedings Eurotherm 62 - "Heat transfer in condensation and evaporation", Grenoble nov. 1998, France;
11. I.Cristescu, S. Brad, **Anisia Bornea**, N. Constantin, Ioana Cristescu, Claudia Pearsica, V. Poenariu, L. Stefan, N. Sofilca, M. Zamfirache - "Experimental pilot plant for tritium and deuterium separation. Future perspectives" - ECO 1998, pag. 8.

12. **Anisia Bornea**, I.Cristescu, M.Peculea - "Designing Methods Of Cryogenic Regenerators For Gas High Purification" - Proceedings CEC-ICMC'99, July 12-16 1999, Montreal, Canada, Advances in Cryogenic Engineering, Kluwer Academic/Plenum Publishers, vol. 45, 2000.
13. **Anisia Bornea**, Ion Cristescu, Marius Zamfirache, Carmen Varlam -"Studies about the transfer phenomena of tritium from liquid to gaseous phase, in a successive system catalyst and ordered package", Proceedings "Tritium 2001" Tsukuba Japan, 11-16 nov.2001.
14. 3. I.Cristescu, **Anisia Bornea**, C.J.Caldwell-Nichols, Ioana-R Cristescu, M.Glugla, U.Tamm, M.Zamfirache - Investigation of the catalyst performances for a period of 15 months of continuously functioning. Determination of process influence on catalyst physical properties – Final Report JET Task Force Fusion Technology TF FT 2.1 Karlsruhe, 2001;
15. Carmen Retevoi, Iuliana Stefan, L. Stefan, O. **Balleanu, Anisia Bornea** - "Simulation and modeling of the process in the isotopic exchange column of a cryogenic plant for tritium separation" - IASTED "Software Engineering", Innsbruck, Austria, 2002.
16. Claudia Pearsica, Marius Zamfirache, **Anisia Bornea**, Sorin Gherghinescu Numerical Simulation of the Behavior of Heat Transfer Equipment operated at Low Temperature, International Conference Nuclear Energy for Central Europe, Portoroz, Slovenia, 8-11 September 2003, proceedings;
17. Claudia Pearsica, Marius Zamfirache, **Anisia Bornea**, Sorin Gherghinescu Numerical Simulation for Non Steady State Behavior of a Heat Exchanger Operated at Low Temperature, 4th Conference on Nuclear and Particle Physics - NUPPAC'03, Fayoum, Egypt;
18. Felicia Vasut, Marius Zamfirache, **Anisia Bornea**, Claudia Pearsica, Nicolae Bidica - Experimental Study About Hydrogen Isotopes Storage On Titanium Bed, Fusion Engineering and Design 69(2003), pg.87-90;
19. **Anisia Bornea**, M.Peculea, M.Zamfirache, Carmen Varlam-Experimental investigation in order to determine catalytic package performances in case of tritium transfer from water to gas-"7th International Conference on Tritium Science and Technology", Forschungszentrum Karlsruhe EURATOM Fusion Association,Baden-Baden, Germany,12-17 September 2004, journal Fusion Science and Technology, vol.48, nr.1, FUSTED(1) 1-806(2005);
20. Ghe. Ionita, **A.Bornea**, J.Braet, I.Popescu, I.Stefanescu, N.Bidica, C.Varlam, Cr.Postolache, L.Matei- Endurance test for SCK-CEN catalytic mixed packing, proposed for water detritiation system at JET- Fusion Science and Technology, vol.48, nr.1, FUSTED(1) 1-806(2005);
21. **Bornea.A**, Pearsica C., Zamfirache M, Gherghinescu S.,Stefan I.,Ducu C.,Marinovski V.,Nicolescu B.,Peculea M. – "Heat Transfer Investigation in Cryogenic Distillation Plant", volume 1, proceedings of ICEC 21 Twenty First International Cryogenic Engineering Conference (Cryogenics 2006), pg.433-436, ISBN 978-80-239-8883-3, 2006;
22. **Bornea A.**, Zamfirache M., Ducu C., Marinovski V., Nicolescu B. – " Mass Transfer in Cryogenic Distillation of Hydrogen Isotopes", volume 1, proceedings of ICEC 21 Twenty First International Cryogenic Engineering Conference (Cryogenics 2006), pg. 437-440, ISBN 978-80-239-8883-3, 2006;
23. **Anisia Bornea**, Marius Zamfirache, Catalin Ducu, Viorel Marinovschi, Bogdan Nicolescu – "Transport Phenomena on Hydrogen Isotopes Cryogenic Distillation"- proceedings ISTEP17 Japan;
24. Anisia Bornea, Claudia Pearsica, Marius Zamfirache, Sorin Gherghinescu, Iulia Stefan, Catalin Ducu, Viorel Marinovschi, Bogdan Nicolescu, Acad Marius Peculea- "Heat Transfer Processes Investigation for Hydrogen in Cryogenic Distillation Plants"- proceedings ISTEP17 Japan;
25. **Anisia Bornea**, M. Zamfirache, Ioan Stefanescu, Anisoara Preda,Ovidiu Balleanu, Ioana Stefan - "Investigation related to hydrogen isotopes separation by cryogenic distillation", presented to "8th International Conference on Tritium Science and Technology", Rochester, USA, 16-21 September 2007, journal Fusion Science and Technology, volume 54, no.2, FUSTE8(2) 323-654(2008) ,pg.426-429;

26. N.Bidica, I.Stefanescu, I.Cristescu, **A.Bornea**, M.Zamfirache, A.Lazar, F.Vasut, C.Pearsica, I.Stefan, I.Prisecaru, G.Sindilar-“ Accounting strategy of tritium inventory in the heavy water detritiation pilot plant from ICIT Rm.Valcea, presented to “8th International Conference on Tritium Science and Technology”, Rochester, USA, 16-21 September 2007, journal Fusion Science and Technology, volume 54, no.2, FUSTE8(2) 323-654(2008), pg.346-349;
27. Marius Zamfirache, **Anisia Bornea**, Ioan Stefanescu, Nicolae Bidica, Ovidiu Balteanu, Ciprian Bucur - “The setup of an extraction system coupled to a hydrogen isotopes distillation column”, presented to “8th International Conference on Tritium Science and Technology”, Rochester, USA, 16-21 September 2007, journal Fusion Science and Technology, volume 54, no.2, FUSTE8(2) 323-654(2008), pg.423-425;
28. Felicia Vasut, Adelina Preda, Marius Zamfirache, **Anisia Bornea**, Ioan Stefanescu, Claudia Pearsica – “Improvement of PT/C/PTFE catalyst type used for hydrogen isotope separation”, presented to “8th International Conference on Tritium Science and Technology”, Rochester, USA, 16-21 September 2007, journal Fusion Science and Technology, volume 54, no.2, FUSTE8(2) 323-654(2008), pg.437-439;
29. S. Brad, I. Stefanescu, A. Lazar, M. Vijulie, N. Sofalca, **A. Bornea**, F. Vasut, M. Zamfirache, N. Bidica-“Experimental stand for studies of hydrogen isotopes permeation”, presented to “8th International Conference on Tritium Science and Technology”, Rochester, USA, 16-21 September 2007, journal Fusion Science and Technology, volume 54, no.2, FUSTE8(2) 323-654(2008),pag.530-532;
30. F. Vasut, N. Bidica, I. Stefanescu, **A. Bornea**, A. Preda, M. Zamfirache, C. Ducu- Study about sorption in sponge and powder titanium of hydrogen isotopes obtained from a cryogenic distillation process, Renewable Energy Volume 33, Issue 2, February 2008, Pages 216-220;
31. Anisoara Preda, C.Pearsica, **A. Bornea**, F. Vasut, M. Zamfirache- Analysis of the isotopes hydrogen mixtures from cryogenic distillation separation using Gas Chromatography, Asian Journal of Chemistry, Vol. 20, No 8 (2008), pg. 6263-6268 , ISSN 0970-7077;
32. Alina Stefanescu, Amalia Soare, **Anisia Bornea** - The influence of parameters on the microstructure of the jointed NiTi alloy bands, Romanian Report of Physics (2010);
33. **Anisia Bornea**, Marius Zamfirache, Ioan Stefanescu, Felicia Vasut, Amalia Soare “Laboratory studies conducted for the development of a plant to concentrate the radioactive waste from tritiated water” , Fusion Engineering and Design (2010), volume 85, issues 10-12, pag.1970-1974;
34. **Anisia Bornea**, Marius Zamfirache, Liviu Stefan, Ioan Stefanescu - The Prediction of Tritium Level Reduction of NPP Cernavoda using CTRF , Fusion Science and Technology (2011), vol.60, No.4, pag.1411-1414;
35. Felicia Vasut, Ioan Stefanescu, **Anisia Mihaela Bornea**, Marius Zamfirache, Nicolae Sofalca, Claudia David, Study about sorption of protium and mixture protium-tritium on sponge titanium, Fusion Engineering and Design, Vol. 88(9-10), (2013), pag. 2476-2478, ISSN: 0920-3796;
36. Marius Valentin Zamfirache, **Anisia Mihaela Bornea**, Ioan Stefanescu, Carmen Varlam, Nicolae Bidica - Research Program of ICIT on Tritium Field as Support for Fusion Program, Progress of Cryogenics and Isotopes Separation, Issue 1/2012, vol.15, pp.43-52.;
37. **Anisia Bornea** , Marius Zamfirache- Research on Non Steady State of Catalytic Isotopic Exchange Installation, Progress of Cryogenics and Isotopes Separation, Issue 2/2014, vol.17;
38. **Anisia Bornea**,Petrutiu Catalin, Marius Zamfirache- Complex software dedicated for esign and simulation of LPCE process for heavy water detritiation, Fusion Science and Technology, vol.67, number 2, pp.270-273,2015;
39. **Anisia Bornea**, Marius Zamfirache, Liviu Stefan, Ioan Stefanescu- Experimental investigation on hydrogen cryogenicdistillation equipped with package made by ICIT, Fusion Science and Technology, vol.67, number 2, pp.266-269,2015;

40. W.E.K.Broeckx, K.Dylst, **A.Bornea**, M.Zamfirache - Proposal for Secondary Enclosure Setup for Experiments to Expose Plasma Facing Materials to Tritiated Plasma in Visioni, Fusion Science and Technology, vol.67, number 2, pp.278-281,2015;
41. Marius Zamfirache, Liviu Stefan, **Anisia Bornea**, Ioan Stefanescu- Acquired Experience Resulting from Transforming a Chemical Installation to a Nuclear , Fusion Science and Technology, vol.67, number 3, pp.677-680,2015;
42. Marius Zamfirache, **Anisia Bornea**, Ioan Stefanescu, George Ana, Liviu Stefan- ICIT Activities Related to Tritium Management, Fusion Engineering and Design, doi:10.1016/j.fusengdes.2016.02.027;
43. **Anisia Bornea**, Marius Zamfirache, Ioan Stefanescu, Liviu Stefan - Improving the theoretical and experimental analysis methods for performance assessment of catalytic packing , Fusion Science and Technology / Volume 71 / Number 4 / May 2017 / Pages 532-536, Technical Paper / dx.doi.org/10.1080/15361055.2017.1290973
44. Marius Zamfirache, **Anisia Bornea**, Ioan Stefanescu - Theoretical Considerations for Purification System Used in Hydrogen Isotopes Separation Plants / Volume 71 / Number 4 / May 2017 / Pages 590-594, Technical Note / dx.doi.org/10.1080/15361055.2016.1273698
45. **Anisia Bornea**, Marius Zamfirache, Nicolae Bidica - Proposal for Combined Electrolysis and Catalytic Exchange System (CECE) Development within the Pilot Plant FUSION10066, Fusion Engineering and Design, 2018, <https://doi.org/10.1016/j.fusengdes.2018.03.046>;
46. George Ana, Mirela Draghia, Alina Niculescu, **Anisia Bornea**, Marius Zamfirache - TCAP hydrogen isotope separation process under development at ICSI Rm. Valcea, IEEE Transactions on Plasma Science (2017), ISSN: 0093-3813;

Annex 2

Experience in research programs (2000-present)

Program/Project	Responsibilities	Dates
Ceres Program: "Heat transfer investigation in nonsteady state from hydrogen liquefiers and hydrogen isotopes separation facilities"/ "Investigarea proceselor de transfer de caldura in regim nestationar in instalatiile de lichiefiere si separare a hidrogenului si izotopilor sai"	Manager	2002-2004
EURATOM Program: Hydrogen Isotopes separation technologies; System for tritium removal water	Responsible delegate	2002
Nucleu Program: Studies related to hydrogen isotope purification systems through electrolysis and permeation"/ "Studii privind sistemele de obtinere si purificare a izotopilor hidrogenului prin electroliza si permeatie "	Responsible	2004-2005
Ceres Program : "Theoretical and experimental analysis regarding the separation capacity of a cryogenic distillation facility for hydrogen isotopes in a steady state"/ " Analiza teoretica si experimentală privind capacitatea de separare a unei instalatii de distilare criogenica a izotopilor hidrogenului in regim stationar " .	Manager	2004-2006
JET Program: " Endurance test for the catalyst-packing mixture proposed for water detritiation system at JET, using SCK-CEN mixture"	Member team responsible for performance evaluation of catalytic packing performance	2004
CEEX Program : "Development of tritium separation process by cryogenic distillation applicable to detritiation facilities of CANDU reactor and ITER fusion reactor"/ " Dezvoltarea procesului de separare a tritiului prin distilare criogenica aplicabil la instalatiile de detritiere aferente reactorului de tip CANDU si reactorului de fuziune ITER"	Manager	2005-2008

CNE PROD Cernavoda contract: " Feasibility study for the detritiation facility of CNE PROD Cernavoda" / "Studiu de fezabilitate pentru instalatia de detritiere CNE PROD Cernavoda"	Member team	2006-2007
PNII Program: „ Physical and mathematical models for the study of energy transfer mechanism at extreme temperatures with applications to the processes in the cryogenic and fusion units.”/, „ Modele fizice si matematice pentru studiul teoretic si experimental al mecanismelor de transfer de energie, caldura si masa la temperaturi extreme, cu aplicatii la procesele din instalatiile de fuziune.”	Responsible	2007-2010
CNCSIS Grant 110GR/2007: „ Improvement of the hydrophobic catalyst performance used in the tritium recovery and enrichment from gaseous and liquid nuclear effluents”/ „Imbunatatirea performantelor catalizatorilor hidrofobi folositi in procesele de recuperare si imbogatirea tritiului din efluenti nucleari lichizi si gazosi”	Responsible	2007-2009
PNII Program: "Management of tritiated water radioactive waste; Tritium concentrator"/ "Managementul deseurilor radioactive de apa tritiata; Concentrator de tritiu"	Manager	2008-2011
CNE PROD Cernavoda contract: " Technical project of the detritiation facility for CNE PROD Cernavoda" / "Proiect tehnic pentru instalatia de detritiere CNE PROD Cernavoda"	Responsabil proiect sistem Schimb Izotopic Catalizat	2008-2015
ITER/C4T/09/90/PMT - PRI0001338 – " Development of method for highly tritiated water handling in ITER Tritium Plant"	Responsible	2010
Nucleu Program: Theoretical and experimental researches for the development of a multifunctional technological plant for separating deuterium and tritium in order to improve the management of these isotopes/ Cercetari teoretice si experimentale pentru realizarea unei instalatii tehnologice multifunctionale de separare a deuteriului si tritiului, in scopul imbunatatirii managementului acestor izotopi	Responsibile	2018

Annex 3

Inter-academic grants (2000-present)

5.05-17.05 2003 – **SCK-CEN Mol** Belgium – "The study of a hydrophobic catalyst for tritium isotopic exchange between HTO-HT";

22.05-05.06 2004 - **SCK-CEN Mol** Belgium – "The study of a hydrophobic catalyst for tritium isotopic exchange between HTO-HT"(continuation);

21.05-09.05 2005- **SCK-CEN Mol** Belgium – "The study of a hydrophobic catalyst for tritium isotopic exchange between HTO-HT"(continuation);

10.09-18.09 2001 – **Petersburg Nuclear Physics Institute** from Russian Federation– "Cryogenic distillation; Mathematical models intercomparison related to isotopic exchange process; Operating hydrodynamic parameters influence of catalyst isotopic installation to the isotopic transfer; Comparison study of the isotopic exchange performances between ICIT Rm.Valcea and PNPI Sankt Petersburg; Measurement methods for the tritium and deuterium concentration .

21.06-01.07.2003 – **Petersburg Nuclear Physics Institute** from Russian Federation – "Heat transfer processes investigation in nonsteady state regime in hydrogen liquefiers and hydrogen isotopes separation facilities";

01.12.2006-15.12 2006- **SCK-CEN Mol** Belgium – "R&D study for the tritium migration from waste boxes";

01.12.2007-15.12 2007- **SCK-CEN Mol** Belgium – "R&D study for the tritium migration from waste boxes" (continuation);

20.08.-07.09 2009. - **SCK-CEN Mol** Belgium- "Investigation on a storage system for 1 g of tritium, and the possibility to safely withdraw tritium from it"; "Investigation of the possibilities for tritium accountability in SCK-CEN's tritium laboratory using calorimetry or other techniques."

10.12-18.12.2010- **SCK-CEN Mol** Belgium- "To investigate the possibility for a tritium retention system for SCK-CEN's tritium laboratory and - if possible - model the tritium behavior in such a system" and "To find new opportunities and adapt our collaboration program between our institutes since the main subject of SCK-CEN's tritium laboratory has been changed favoring plasma wall interaction over waste management. (participate: Vincent Massault (Fusion Programme coordinator), Rachid Chaouad (Structure Materials Analysis expert head) ;Inge Uytendhouwen (Plasma Wall Interaction group leader)";

1.10-12.10.2012- **SCK-CEN Mol** Belgium- "Study and Investigate the behavior and possible retention of Tritium in our Plasma wall interaction facility (VISIONI)";

15.06 – 29.06 .2013- **SCK-CEN Mol** Belgium- "Proposal for secondary enclosure setup for experiments to expose plasma facing materials to tritiated plasma in VISIONI";

19.09-05.10.2014- **SCK-CEN Mol** Belgium- 'Initial design for an installation for the decommissioning of tritiated water".

31.10.2015 - 12.11.2015 - **SCK-CEN Mol** Belgium- "Installation for the decommissioning of tritiated water"

25.06-08.07.2017- **SCK-CEN Mol** Belgium- "Continuation of the research program on the tritium issues, developed in SCK-CEN MOL laboratory

17.06-30.06.2018- **SCK-CEN Mol** Belgium- „Continuing research for decommissioning of tritium instalation. Recycling options for tritiated getters./Fesability study for a detritiation installation"