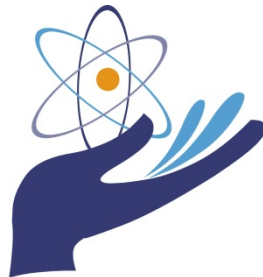




Project Number: 661891

Project Acronym: SAMOFAR

Project title: A Paradigm Shift in Nuclear Reactor Safety with the Molten Salt Fast Reactor



SAMOFAR

D6.7 Dissemination Summary Report

File Name: D6.7_SAMOFAR Dissemination Summary Report_v1.0_20190630

Version: 1.0

Project no.	661891
Instrument:	EURATOM
Topic:	NFRP-03-2014
Start date of project:	1 August 2015
Duration:	48 months
Date of submission Deliverable:	30 June 2019
Classification:	Public

DISCLAIMER:

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This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 661891





Document History

Version #	Date	Changes made since previous version
0.1	03-06-2019	Overview of dissemination activities 2 nd reporting period
0.2	27-06-2019	Overview of dissemination activities updated based on input partners
1.0	30-06-2019	Overview of dissemination activities, approved by Coordinator

Release Approval

Name	Role	Date
K. van der Graaf	Author	30-6-2019
J.L. Kloosterman	Leader Work Package No. 6	30-6-2019
J.L. Kloosterman	Project Coordinator	30-6-2019

Distribution list

		Comments
EC Officer	Mykola Dzubinski	Via participant portal and e-mail
SAMOFAR beneficiaries		Via e-mail



1 Introduction

This deliverable provides a complete overview of publications and dissemination activities of the SAMOFAR project and is publicly available on the SAMOFAR website, <http://samofar.eu>

Moreover, Open Access journal papers are also available via the SAMOFAR community on Zenodo.org, <https://zenodo.org/communities/samofar/>

Scientific publications – directly related to SAMOFAR

Journal papers

1. Allibert M., Merle E., Delpech S. Heuer D., Laureau A., Martinet J., Moreau S., Preliminary proliferation study of the Molten Salt Fast Reactor, Submitted to European Physics Journal N.
2. Beils, Stéphane, Delphine Gérardin, Anna Chiara Uggenti, Andrea Carpignano, Sandra Dulla, Elsa Merle, Daniel Heuer, Michel Allibert, Application of the Lines of Defence method of the Molten Salt Fast Reactor in the Framework of the SAMOFAR project, Submitted to European Physics Journal N.
3. Cervi, E., Lorenzi, S., Cammi, A., Luzzi, L., 2018. Development of a multiphysics model for the study of fuel compressibility effects in the Molten Salt Fast Reactor. Chemical Engineering Science, Vol. 193, pp.379-393, eISSN 0009-2509, – **GOLD Open Access**
DOI: <https://doi.org/10.1016/j.ces.2018.09.025>
4. Cervi, E.; Lorenzi, S.; Luzzi, L.; Cammi, A., 'Multiphysics analysis of the MSFR helium bubbling system: A comparison between neutron diffusion, SP3 neutron transport and Monte Carlo approaches', Annals of Nuclear Energy, Vol 132, pp. 227-235, eISSN 0306-45-49, – **GOLD Open Access**
DOI journal: <http://dx.doi.org/10.1016%2Fj.anucene.2019.04.029>
5. Cervi, E.; Lorenzi, S.; Luzzi, L.; Cammi, A., 'Development of an SP3 neutron transport solver for the analysis of the Molten Salt Fast Reactor', Nuclear Engineering and Design, Vol 346, pp. 209-219, eISSN 0029-5493, – **GOLD Open Access**
DOI journal: <http://dx.doi.org/10.1016%2Fj.nucengdes.2019.03.001>
6. Di Ronco, A., A. Cammi, S. Lorenzi, Preliminary analysis and design of the heat exchangers for the Molten Salt Fast Reactor, Submitted to Nuclear Engineering and Technology.
7. Di Ronco, A., A. Cammi, S. Lorenzi, Preliminary analysis and design of the energy conversion system for the Molten Salt Fast Reactor, Submitted to Nuclear Engineering and Technology.
8. Durán-Klie, Gabriela, Davide Rodrigues, Sylvie Delpech, "Dynamic Reference Electrode development for redox potential measurements in fluoride molten salt at high temperature", Electrochimica Acta, 2016, Vol 195, pp. 19-26, eISSN 0013-4668, – **GREEN Open Access**
SAMOFAR Repository DOI: <https://doi.org/10.5281/zenodo.3243955>
DOI journal: <http://dx.doi.org/10.1016/j.electacta.2016.02.042>
9. Gérardin, Delphine, Anna Chiara Uggenti, Stéphane Beils, Andrea Carpignano, Sandra Dulla, Elsa Merle, Daniel Heuer, Axel Laureau, Michel Allibert, A methodology for the identification of the postulated initiating events of the Molten Salt Fast Reactor, Nuclear Engineering and Technology, (51)4, 1024-1031, – **GOLD Open Access**
DOI: <https://doi.org/10.1016/j.net.2019.01.009>
10. Laureau, A., D. Heuer, E. Merle-Lucotte, P. Rubiolo, M. Allibert, M. Aufiero, "Transient coupled calculations of the Molten Salt Fast Reactor using the Transient Fission Matrix approach", Nuclear Engineering and Design, 316, (2017) 112–124 – **GREEN Open Access**
Journal DOI: : <http://dx.doi.org/10.1016/j.nucengdes.2017.02.022>
DOI SAMOFAR repository: <https://doi.org/10.5281/zenodo.3234658>
11. Massone, Mattia , Fabrizio Gabrielli, Andrei Rineiski, A genetic algorithm for multigroup energy structure search, Annals of Nuclear Energy 105 (2017) 369–387, DOI: <https://doi.org/10.1016/j.anucene.2017.03.022> – **GREEN Open Access**
12. Rodrigues, Davide, Gabriela Durán-Klie, Sylvie Delpech, "Pyrochemical reprocessing of Molten Salt Fast Reactor fuel: focus on the reductive extraction step", Nukleonika, 2015, Vol 60 (4), pp 907-914, - **GOLD Open Access**
DOI: <https://doi.org/10.1515/nuka-2015-0153>
13. Rubiolo, P.R., M. Tano Retamales, V. Ghetta and J. Giraud, "High temperature thermal hydraulics modeling of a molten salt: application to a molten salt fast reactor (MSFR)" ESAIM: Proceedings and Surveys, 2017, Vol 58, p98-117, – **GOLD Open Access**
DOI journal: <https://doi.org/10.1051/proc/201758098>
14. Souček, Pavel, Ondřej Beneš, Benoit Claux, Elisa Capelli, Michel Ougier, Václav Tyrpekl, Jean-Francois Vigier, Rudy J.M. Konings, Synthesis of UF4 and ThF4 by HF gas fluorination and re-determination of the UF4 melting point, Journal of Fluorine Chemistry, Volume 200, August 2017, 33-40. - **GOLD Open Access**
DOI journal: <https://doi.org/10.1016/j.jfluchem.2017.05.011>

15. Tano, Mauricio, Pablo Rubiolo, Olivier Doche ; Progress in modeling solidification in molten salt coolants; Modelling and Simulation in Materials Science and Engineering, vol 25, no. 7 (2017) – GREEN Open Access
DOI SAMOFAR repository: <https://doi.org/10.5281/zenodo.3234530>
16. Tiberga, M., Shafer, D., Lathouwers, D., Rohde, M., Kloosterman, J.L., ‘Preliminary investigation on the melting behavior of a freeze-valve for the Molten Salt Fast Reactor’, Annals of Nuclear Energy, Vol 132 (2019), pp. 544-554, ISSN 0306-4549, – GOLD Open Access
DOI: <https://doi.org/10.1016/j.anucene.2019.06.039>
17. Tripodo, C., Di Ronco A., Lorenzi S., Cammi A., “ Development of a control-oriented power plant simulator for the Molten Salt Fast Reactor”, Submitted to European Physics Journal N
18. Tosolin, A., Souček, A., Beneš, O., Vigier, J.-F., Luzzi, L., Konings, R.J.M., Synthesis of plutonium trifluoride by hydro-fluorination and novel thermodynamic data for the PuF₃-LiF system, J. Nucl. Mat. 503 (2018) 171–177, eISSN: 0022-3115, – GOLD Open Access
DOI journal: <https://doi.org/10.1016/j.jnucmat.2018.02.037>
DOI SAMOFAR repository:
19. Tosolin, A., Beneš, O., Colle, J.-Y., Souček, P., Luzzi L., Konings, R.J.M., Vaporization behaviour of the Molten Salt Fast Reactor fuel: The LiF-ThF₄-UF₄ system, J. Nucl. Mat. 508 (2018) 319-328, eISSN: 0022-3115, – GOLD Open Access
DOI: <https://doi.org/10.1016/j.jnucmat.2018.05.049>
DOI SAMOFAR repository:
20. Tosolin, A., E. Capelli, R.J.M. Konings, L. Luzzi, O. Beneš, Heat capacity of solid and liquid thorium tetrafluoride, Submitted to Journal of Chemical & Engineering Data.
21. Wang, S., Massone, M., Rineiski, A., Merle-Lucotte, E., Laureau, A., Gérardin, D., Heuer D., Allibert, M., 2019, “A passive decay heat removal system for emergency draining tanks of molten salt reactors”, Nuclear Engineering and Design, 341, 423-431,
DOI: <https://doi.org/10.1016/j.nucengdes.2018.11.021>

Conference papers/oral presentations/posters

1. Carpignano, A., S. Dulla, A.C. Ugenti, Safety assessment: perspectives for next generation nuclear plants, In: Haugen et al. (Eds), Safety and Reliability, Proceedings of the international conference ESREL, pp. 1609 – 1615, Trondheim, Norway, 2018, DOI: <https://doi.org/10.1201/9781351174664>
2. Cervi, E.; Lorenzi, S.; Cammi, A.; Luzzi, L., An Euler-Euler Multiphysics Solver for the Analysis of the Helium Bubbling System in the MSFR, Proceedings of the 26th International Conference Nuclear Energy for New Europe (NENE 2017), Vol 202, pp. 1-9, Nuclear Society of Slovenia, Ljubljana, 2017, ISBN 978-961-6207-42-3.
3. Cervi, E., Lorenzi, S., Cammi, A., Luzzi, L., 2018. Analysis of the Effect of the Fuel Compressibility on the Molten Salt Fast Reactor Dynamics. In Proceedings of the Physics of Reactors conference (PHYSOR), Cancun, Mexico, April 22 - 26, 2018, pp 3485-3496
4. Cervi, E.; Lorenzi, S.; Luzzi, L.; Cammi, A., Analysis of the Void Reactivity Effect in the Molten Salt Fast Reactor: Impact of the Helium Bubbling System, CD-ROM Proceedings of the Fourth International Conference on Physics and Technology of Reactors and Applications (PHYTRA4), Marrakech, Morocco, September 17-19, 2018, pp. 436-474
5. Delpech, S., G. Duran-Klie and D. Rodrigues, "Materials for molten salt reactor : the chemical control", EMRS 2019, May 27-31, Nice, France, 2019
6. Delpech, S., G. Duran-Klie and D. Rodrigues, "Behavior of uranium in various molten salts", IUPAC 2019, July 5-12, Paris, France, 2019
7. Delpech, S. D. Rodrigues , G. Duran-Klie, "Extraction of zirconium in the Molten Salt Fast Reactor", ICAPP 2019 – International Congress on Advances in Nuclear Power Plants, France, Juan-les-pins – 2019, May 12-15
8. Delpech S., Soucek P., Lopez E., Marchix A., Merle E., “Safety of the chemical plant of the Molten Salt Fast Reactor concept in the frame of the SAMOFAR H2020 project”, 2018 International Pyroprocessing Research Conference Tokai-Mura, Ibaraki, Japan, 2018.
9. Duran-Klie, G., D. Rodrigues, S. Delpech, "Comportement électrochimique de l'uranium dans LiF-ThF₄", Journées d'Etude de la Chimie sous Rayonnement et de la Radiochimie JECRRC2018, Strasbourg, juin 2018

10. Duran-Klie, G., D. Rodrigues, S. Delpech, "Electrochemistry of iodide ions in molten LiF-ThF₄ eutectic", IUPAC 2019, July 5-12, Paris, France, 2019
11. Duran-Klie Gabriela, Rodrigues Davide, Delpech Sylvie ; Electrochemical behavior of U(IV) in LiF-ThF₄ molten salt; oral presentation at Atalante 2016, juin 2016, Montpellier, France,
12. Duran-Klie, G., D. Rodrigues and S. Delpech, Development and Evaluation of a dynamic reference electrode for the redox potential measurements in fluoride molten salts, poster presented at the 15th Int. Conf. on High Temperature Materials Chemistry (HTMC15), March 29 – April 1, 2016, Orléans, France
13. Duran-Klie Gabriela, Rodrigues Davide, Delpech Sylvie; Etude électrochimique du couple redox U(IV)-U(III) dans un mélange fondu de LiF-ThF₄; XVe journées Nationales de Radiochimie et de Chimie Nucléaire, septembre 2016, Nice, France
14. Duran-Klie, Gabriela, Davide Rodrigues, Sylvie Delpech ; Comportement électrochimique de l'iode dans l'eutectique LiF-ThF₄ fondu à 650°C, Journées d'Electrochimie, Bordeaux, juin 2017
15. Duran-Klie, G., D. Rodrigues, S. Delpech, "Comportement électrochimique de l'uranium dans LiF-ThF₄", Journées d'Etude de la Chimie sous Rayonnement et de la Radiochimie JECRRC2018, Strasbourg, juin 2018
16. Duran-Klie, G., D. Rodrigues, S. Delpech, "Electrochemistry of iodide ions in molten LiF-ThF₄ eutectic", IUPAC 2019, July 5-12, Paris, France, 2019
17. Escobedo, Orlando Castilleja, Francisco J. Cano, Ana R. Salazar Román, Eddie López-Honorato, "Development of YSZ environmental barrier coatings for the molten salt fast reactor", oral presentation at the Materials Research Society Spring Meeting, 2-6 April 2018, Phoenix, Arizona, USA
18. Gérardin, D., M. Allibert, D. Heuer, A. Laureau, E. Merle-Lucotte, C. Seuvre, Design Evolutions of the Molten Salt Fast Reactor, Proceedings of the International Conference on Fast Reactors and Related Fuel Cycles: Next Generation Nuclear Systems for Sustainable Development (FR17), Yekaterinburg, Russian Federation (2017), 848, 10 pp.
19. Gérardin, D. M. Allibert, D. Heuer, A. Laureau, J. Martinet, E. Merle, Identification and study of incidental and accidental scenarios for the molten salt fast reactor, CD-ROM Proceedings of the Fourth International Conference on Physics and Technology of Reactors and Applications, Marrakech, Morocco, September 17-19, 2018, pp 419-430.
20. Heuer, D., A. Laureau, E. Merle-Lucotte, M. Allibert, D. Gerardin, "A starting procedure for the MSFR: approach to criticality and incident analysis", Proceedings of the ICAPP'2017 International Conference, Kyoto, Japan (2017)
21. Hombourger, B., J. Krepel, K. Mikityuk, A. Pautz, On the Feasibility of Breed-and-Burn Fuel Cycles in Molten Salt Reactors, International Conference on Fast Reactors and Related Fuel Cycles: Next Generation Nuclear Systems for Sustainable Development (FR17), 26-29 June 2017, Yekaterinburg, IAEA-CN-245-388, 10 pp.
22. Krepel, J., B. Hombourger, E. Losa, 2018. Fuel cycle sustainability of molten salt reactor concepts in comparison with other selected reactors, CD-ROM Proceedings of the Fourth International Conference on Physics and Technology of Reactors and Applications, Marrakech, Morocco, September 17-19, 2018, pp 431-444
23. Marchix, A., M. Dieuaide, "Molten salt fast reactor SAMOFAR: safety issues of the chemical plant", oral presentation at the conference Nuclear Data 2019, 19-24 May 2019, Beijing, China.
24. Massone, M., S. Wang, A. Rineiski, P. Servell; Analytical modeling of the emergency draining tank for a molten salt reactor; CD ROM Proceedings of the Fourth International Conference on Physics and Technology of Reactors and Applications, Marrakech, Morocco, September 17-19, 2018, pp 475-486
25. Mastromarino, S., M. Rohde, O. Benes, J.L. Kloosterman, Development of a high temperature ultrasonic viscometer for molten salt, Oral presentation at NuFuel 2017, Lecco, Italy, September 4 - 6, 2017.
26. Mastromarino, S., M. Rohde, O. Benes, J.L. Kloosterman, Molten fuel salt interaction with water, Poster at NuFuel 2017, Lecco, Italy, September 4 - 6, 2017.
27. Merle E., Allibert A., Beils S., Cammi A., Carlucci B., Carpignano A., Delpech S., Di Ronco A., Dulla S., Flauw Y., Gérardin D., Gerber A., Heuer D., Laureau A., Lorenzi S., Massone M., Rineiski A., Tiberi V., Ugenti A.C., "Design and Safety Studies of the Molten Salt Fast Reactor Concept in the Frame of the SAMOFAR H2020 Project", in Proceedings of the Generation IV International Forum Symposium, Paris, France, 16-17 September 2018.
28. Nichenko, Sergii, "Thermodynamic Modelling of Molybdenum Behaviour in Chloride Molten Salt", TopFuel 2015 Conference, Zurich, 13-17 September 2015, 11 pp..
29. Rubiolo, P.R., M. Tano Retamales, J. Giraud, V. Ghetta, "Overview of the Salt at Wall Thermal Exchanges (SWATH) Experiment", Transactions of the American Nuclear Society, Vol. 115, Las Vegas, NV, November 6-10, 2016, pp 1705-1708, American Nuclear Society, Illinois, 2016.

30. Rubiolo, P.R., M. Tano Retamales, J. Giraud and V. Ghetta, "Overview of the Salt at Wall Thermal ExCHanges (SWATH) Experiment", Transactions of the American Nuclear Society, Vol. 115, Las Vegas, NV, November 6–10, 2016
31. Souček, Pavel, Ondřej Beneš, Alberto Tosolin, Rudy Konings, Chemistry of Molten Salt Reactor Fuel Salt Candidates, Transactions of the American Nuclear Society, Vol. 118, 114-117
32. Souček, Pavel, Václav Tyrpekl, Jean-François Vigier, Ondřej Beneš, Elisa Capelli, Philippe Raison, Synthesis and characterisation of actinide fluorides for studies on Molten Salt Reactor fuel cycle, Actinide and Fission Product Partitioning and Transmutation, Workshop Proceedings of the 14th Information Exchange Meeting, OECD/NEA, 17-20 October 2016, pp. 444
33. Tano-Retamales, M., P. Rubiolo, O. Doche, "Development of Data-Driven Turbulence Models in OpenFOAM Application to liquid fuel nuclear reactors", In press: proceedings of the 11th OpenFOAM Workshop, Guimarães, Portugal, June 26th-30th, 2016.
34. Tiberger, M., D. Shafer, D. Lathouwers, J.L. Kloosterman, Preliminary assessment of the free-plug melting behavior in the molten salt fast reactor, CD ROM Proceedings of the Fourth International Conference on Physics and Technology of Reactors and Applications, Marrakech, Morocco, September 17-19, 2018, pp 487-496
35. Tiberger, M., Shafer, D., Lathouwers, D., Rohde, M., Kloosterman, J.L. Preliminary investigation on the melting behavior of a freeze-valve for the Molten Salt Fast Reactor, Submitted to Annals of Nuclear Energy (accepted for publication)
36. Tosolin, Alberto, "Molten Salt Reactor: Experimental approach and modelling of safety-related properties of the fluoride fuel", In: Book of abstracts Energy & Material Research (EMR) Conference, Lisbon, Portugal, April 5 – 7, 2017, p. 114
37. Tosolin, Alberto "Experimental investigation of thermo-physical properties of the nuclear fluoride fuel: Approach, challenges and solutions, Oral presentation at NuFuel 2017, Lecco, Italy, September 4 - 6, 2017.
38. Tosolin A., Luzzi L., Beneš O., Souček P., Konings R.J.M. "Experimental Investigation and Modelling of Thermo-Chemical and Thermo-Physical Properties of Fluorides for the Molten Salt Fast Reactor", FISA 2019 and EURADWASTE '19 Conferences, 9th European Commission Conferences on Euratom Research and Training in Safety of Reactor Systems and Radioactive Waste Management, Pitesti, Romania, June 4-7, 2019.
39. Uggenti, A.C., D. Gérardin, A. Carpignano, S. Dulla, E. Merle, D. Heuer, A. Laureau, M. Allibert, "Preliminary Functional Safety Assessment for Molten Salt Fast Reactors in the framework of the SAMOFAR project", CD ROM Proceedings of the 2017 International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2017), Pittsburg, USA (2017)
40. Wang, Shisheng, Mattia Massone, Andrei Rineiski and E. Merle-Lucotte, Analytical Investigation of the Draining System for a Molten Salt Fast Reactor, The 11th International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Operation and Safety (NUTHOS-11), Gyeongju, Korea, October 9-13, 2016, paper no. N11A0341 (on USB Stick), 11 p. ([PDF](#))
41. Wang, S., M. Massone, A. Rineiski, E. Merle-Lucotte, et al., A passive decay heat removal system for emergency draining tanks of molten salt reactors, The 17th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-17), Xi'an, China, September 3 - 8, 2017, pp. 3638, ISBN 978-1-5108-7262-2

Scientific publications – indirectly related to SAMOFAR

1. Allibert M. et al., 2015, "Introduction of Thorium in the Nuclear Fuel Cycle. Short-to long-term considerations", Report No. NEA-7224, Organisation for Economic Co-Operation and Development, 2015.
2. Allibert M., S. Beils, G. Campioni, B. Carlucci, M. Delpech, S. Delpech, P. Gauthé, D. Gerardin, A. Gerschenfeld, Y. Gorse, J. Guidez, D. Heuer, A. Laureau, J. Martinet, E. Merle, J. Serp, "Status of current knowledge and developments in France on Molten Salt Reactors", in Proceedings of the Generation IV International Forum Symposium, Paris, France, 2018.
3. Allibert M., Aufiero M., Brovchenko M., Delpech S., Ghetta V., Heuer D., Laureau A., Merle-Lucotte E., "Chapter 7 - Molten Salt Fast Reactors", Handbook of Generation IV Nuclear Reactors, Woodhead Publishing Series in Energy, 2015.
4. M. Achour, L. Martinelli, S. Chatain, L. Jouffret, M. Dubois, P. Bonnet, A. Selmi, B. Morel, S. Delpech, "Corrosion of iron in liquid uranium hexafluoride", Corrosion Engineering Science and Technology, 52, 8 (2017) 611

5. Beils, S., M. Allibert, G. Campioni, B. Carlucci, S. Delpech, P. Gauthé, J. Guidez, D. Heuer, A. Laureau, D. Lecarpentier, E. Merle, "Motivations and Basic Options for a Molten Salt Reactor Concept", Actes de la conférence internationale ICAPP2019, Juan les Pins, France, 2019.
6. Brovchenko, M., Kloosterman, J. L., Luzzi, L., Merle, E., Heuer, D., Laureau, A. et al., "Neutronic benchmark of the molten salt fast reactor in the frame of the EVOL and MARS collaborative projects", EPJ Nuclear Sci. Technol. 5, 2019.
7. Bajpai, P., A. Cammi, S. Lorenzi, C. Intorini, A Multiphysics Model for Analysis of Inert Gas Bubbles in Molten Salt Fast Reactor – Part 1: Numerical modelling, Proceedings of the 27th International Conference Nuclear Energy for New Europe (NENE 2018), 304, pp. 1-8, Nuclear Society of Slovenia, Ljubljana, 2018
8. Bajpai, P., A. Cammi, S. Lorenzi, C. Intorini, A Multiphysics Model for Analysis of Inert Gas Bubbles in Molten Salt Fast Reactor – Part 2: Application and Results, Proceedings of the 27th International Conference Nuclear Energy for New Europe (NENE 2018), 320, pp. 1-10, Nuclear Society of Slovenia, Ljubljana, 2018
9. Bajpai, P., A. Cammi, S. Lorenzi, C. Intorini, A Multiphysics Model for Analysis of Inert Gas Bubbles in Molten Salt Fast Reactor – Part 2: Application and Results, Poster, 27th International Conference Nuclear Energy for New Europe, Nuclear Society of Slovenia, Ljubljana, 2018 – **Best poster prize**
10. Brovchenko, Mariya, Jan-Leen Kloosterman, Lelio Luzzi, Elan Merle, Daniel Heuer, Axel Laureau, Olga Feyberg, Victor Ignatiev, Manuele Aufiero, Antonio Cammi, Carlo Fiorina, Fabio Alcaro, Sandra Dulla, Piero Ravetto, Lodewijk Frima, Danny Lathouwers, Bruno Merk, 'Neutronic benchmark of the molten salt fast reactor in the frame of the EVOL and MARS collaborative projects', EPJ Nuclear Sci. Technol. 5, 2 (2019), 26 pp., <https://doi.org/10.1051/epjn/2018052>
11. Cammi, A., M.T. Cauzzi, L. Luzzi, A. Pini, "DYNASTY: An Experimental Loop for the Study of Natural Circulation with Internally Heated Fluids", Proceedings of the 12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2016), Malaga, Spain, July 11-13, 2016, 12, pp 1159-1164, ISBN 978-1-77592-124-0, <https://www.researchgate.net/publication/305406086>
12. Cammi, A., L. Luzzi, A. Pini, "The influence of the wall thermal inertia over a single-phase natural convection loop with internally heated fluids", Chemical Engineering Science, 2016, 153, pp.411-433, eISSN 0009-2509, DOI 10.1016/j.ces.2016.06.060, DOI: <http://dx.doi.org/10.1016/j.ces.2016.06.060>
13. Cammi, A., M. Misale, F. Devia, M. T. Cauzzi, A. Pini, F. Fanale, L. Luzzi, "Stability analysis by means of information entropy: Assessment of a novel method against natural circulation experimental data", Chemical Engineering Science, 2017, 166, pp 220-234, eISSN 0009-2509, DOI: <http://dx.doi.org/10.1016/j.ces.2017.03.036>
14. Carpignano, Andrea, Tonio Pinna, Laura Savoldi, Giulia Sobrero, Anna Chiara Ugenti, Roberto Zanino, "Safety Issues related to the Intermediate Heat Storage for the EU DEMO", Fusion Engineering and Design, 2016, vol. 109-111, part A, pp. 135-140, eISSN 0920-3796, Elsevier, DOI: <http://dx.doi.org/10.1016/j.fusengdes.2016.01.078>
15. Carpignano, A., S. Dulla, A.C. Ugenti, Safety assessment: perspectives for next generation nuclear plants, International conference ESREL, Trondheim, Norway, June 2018.
16. De Oliveira, R, Analytical solutions to a coupled fluid dynamics and neutron transport problem with application to GeN-Foam verification, Annals of Nuclear Energy, 121 (Nov 2018) 446-651. <https://doi.org/10.1016/j.anucene.2018.07.036>
17. Delpech S., Duran-Klie G., Rodrigues D., « Principle and evaluation of Molten Salt Reactor processing", Thorium Energy Conference 2018 - ThEC18, October 29-31, 2018, Brussels, Belgium, 2018.
18. Di Lecce, F., A. Cammi, S. Dulla, C. Fiorina, S. Lorenzi, P. Ravetto, , CFD-based Correlation for Forced Convection Heat Transfer in Circular Ducts of Internally Heated Molten Salts, Proceedings of the 26th International Conference on Nuclear Engineering (ICONE26), 82507, V06BT08A062, ASME, New York, 2018, ISBN 978-0-7918-5149-4.
19. Di Lecce F., Cammi A., Dulla S., Lorenzi S., Ravetto P. " Simplified 0-D Semi-Analytical Model for Fuel Draining in Molten Salt Reactors", Submitted to European Physics Journal N
20. Guidez, J., E. Merle, D. Heuer, S. Bourg, G. Campioni, M. Allibert, S. Delpech, P. Gauthé, A. Laureau, J. Martinet, J. Serp, "Molten Salt Reactor to close the fuel cycle: example of MSFR multi-recycling applications", Actes de la conférence internationale ICAPP2019, Juan les Pins, France, 2019.
21. Guidez J., Cabet C., Courouau J.L., Heuer D., Merle-Lucotte E., Allibert M., Laureau A., "La chimie, un levier pour l'avènement des réacteurs de quatrième génération", Revue Générale Nucléaire, no 6, p. 22-30, 2017.

22. Hombourger, B., J. Krepel, A. Pautz, "Breed-and-Burn Fuel Cycle in Molten Salt Reactors, Submitted to European Physics Journal N.
23. Ignatiev V.V., O.S. Feynberg, M. Allibert, S. Delpech, D. Gerardin, D. Heuer, A. Laureau, E. Merle, "Molten Salt Fast Reactor in Generation IV: proliferation challenges", in Proceedings of the Symposium on International Safeguards of IAEA, Vienna, Austria, 2018.
24. Laureau et al., "Coupled Neutronics and Thermal-Hydraulics Transient Calculations based on a Fission Matrix Approach; Application to the Molten Salt Fast Reactor", in Proceedings of the Joint International Conference on Mathematics and Computation, Supercomputing in Nuclear Applications and the Monte Carlo Method, Nashville, USA, April 19 – 23, 2015.
25. Luzzi, L., M. Misale, F. Devia, A. Pini, M. T. Cauzzi, F. Fanale, A. Cammi, "Assessment of analytical and numerical models on experimental data for the study of single-phase natural circulation dynamics in a vertical loop", Chemical Engineering Science, 2017, 162, pp 262-283, eISSN 0009-2509, DOI: <http://dx.doi.org/10.1016/j.ces.2016.12.058>
26. Luzzi, L., A. Cammi, V. Di Marcello, A. Pini, "Thermal hydraulics of liquid-fueled MSRs". In: T.J. Dolan (Ed.), Molten Salt Reactors and Thorium Energy, chap. 6, pp. 167-187, Woodhead Publishing Series in Energy, Elsevier Ltd., Cambridge, MA, United States, 2017 (ISBN: 978-0-08-101126-3)
27. Luzzi, L. A. Cammi, "Worldwide activities". In: T.J. Dolan (Ed.), Molten Salt Reactors and Thorium Energy, chap. 26, pp. 635-774, Woodhead Publishing Series in Energy, Elsevier Ltd., Cambridge, MA, United States, 2017 (ISBN: 978-0-08-101126-3)
28. Liu, Xin, Victor Vinograd, Sergii Nichenko, Dmitrii Kulik, Xiancai Lu, Bjoern Winkler, Emulation of short-range ordering within the Compound Energy Formulism: Application to the calcite-magnesite solid solution, Calphad journal, 64, March 2019, pp. 115-125, DOI: <https://doi.org/10.1016/j.calphad.2018.11.012>.
29. Merle-Lucotte E., Allibert M., Brovchenko M., Heuer D., Ghetta V., Laureau A., Rubiolo P., Chapter "Introduction to the Physics of Thorium Molten Salt Fast Reactor (MSFR) Concepts", Thorium Energy for the World, Springer International Publishing, Switzerland, 2016.
30. Merle-Lucotte E., Heuer D., Laureau A., Brovchenko M., Allibert M., Aufiero M., Rubiolo P., "Physical assessment of the load-following and starting procedures for the Molten Salt Fast Reactor", in Proceedings of ICAPP 2015 May 03-06, 2015 Nice (FRANCE) - Omnipress 901-909 paper15450, 2015.
31. Pini, A., A. Cammi, M. Cauzzi, F. Fanale, L. Luzzi, An Experimental Facility to Investigate the Natural Circulation Dynamics in Presence of Distributed Heat Sources, Energy Procedia, 101, 10-17, DOI: <https://doi.org/10.1016/j.egypro.2016.11.002> - - GOLD Open Access
32. Pini, A., A. Cammi, L. Luzzi, "Analytical and numerical investigation of the heat exchange effect on the dynamic behaviour of natural circulation with internally heated fluids", Chemical Engineering Science, 2016, 145, pp. 108-125, eISSN 0009-2509, DOI: <http://dx.doi.org/10.1016/j.ces.2016.01.014>
33. Pini, A., A. Cammi, M. Cauzzi, F. Fanale, L. Luzzi, "An Experimental Facility to Investigate the Natural Circulation Dynamics in Presence of Distributed Heat Sources", Energy Procedia, (2016) 101, pp 10-17, eISSN 1876-6102, DOI: 10.1016/j.egypro.2016.11.002, DOI: <http://dx.doi.org/10.1016/j.egypro.2016.11.002>
34. A. Pini, A. Cammi, S. Lorenzi, M.T. Cauzzi, L. Luzzi - A CFD-based simulation tool for the stability analysis of natural circulation systems - Submitted to Progress in Nuclear Energy.
35. Pinna, T.; Carloni, D.; Carpignano, A.; Ciattaglia, S.; Johnston, J, Porfiri, M.T.; Savoldi, L.; Sobrero, G.; Taylor, N.; Ugenti, A.C.; Vaisnoras, M.; Zanino, R., "Identification of accident sequences for the DEMO plant", Fusion Engineering and Design (2017), 124, 1277-1280, DOI: <http://dx.doi.org/10.1016/j.fusengdes.2017.02.026>
36. Rinieiski, A., V. Sinita, C4P - Train Neutronics Tool for supporting safety studies of Innovative Fast Reactors, CD-ROM Proceedings of the Fourth International Conference on Physics and Technology of Reactors and Applications (PHYTRA4), Marrakech, Morocco, September 17-19, 2018, pp. 679-688
37. Rodrigues D., Gao J., Durán-Klie G., Delpech S., "Corrosion of the structural materials in FLiNaK molten salt", Thorium Energy Conference 2018 - ThEC18, October 29-31, 2018, Brussels, Belgium, 2018.
38. Contributions of some SAMOFAR members to the writing of the book "Molten Salt Reactors and Thorium Energy", Dolan T. J. (ed.), Woodhead Publishing (2017)

PhD theses

1. Duran-Klie Gabriela, Étude du comportement de l'uranium et de l'iode dans le mélange de fluorures fondus LiF-ThF₄ à 650 °C, PhD thesis, CRNS, Paris, Saclay, 2017
2. Laureau, Axel, Développement de modèles neutroniques pour le couplage thermohydraulique du MSFR et le calcul de paramètres cinétiques effectifs, PhD thesis, CNRS, L'Université Grenoble Alpes, Grenoble, 2015.
3. Massone; Mattia, Cross-Sections for Transient Analyses: Development of a Genetic Algorithm for the Energy Meshing, PhD thesis, KIT Karlsruhe, 2018 – [Green Open Access](#)
4. Pini, Alessandro, "Analytical and Numerical Investigation of Single-Phase Natural Circulation Dynamics in presence of Distributed Heat Sources", PhD thesis, Politecnico di Milano, 2017.

BSc / MSc theses

1. Bakker, Jelle, Wall-Distance Calculation for Turbulence Modelling, BSc thesis, TU Delft July 2018
2. Boed, Gijs de, Extraction of noble metals in a Molten Salt Reactor by helium bubbling, BSc thesis, TU Delft, August 2018
3. Braskamp, Laurens, Thermochemistry of Ruthenium in Molten Fluoride Salts, Metal or Melt?, BSc thesis, TU Delft, August 2018
4. Brulleman, Floris, Jacobian-free Newton Krylov methods for solving nonlinear systems, BSc thesis, TU Delft, 2019
5. Accardi, Francesco, "Performance assessment of molten salt reactors fueled with low enrichment uranium", MSc thesis, Politecnico di Torino, 2016
6. Bajpai, Parikshit, "Modelling and Analysis of Inert Gas Bubbles in Molten Salt Fast Reactor", MSc thesis, Politecnico di Milano, 2018.
7. Bao, Jiadong, Development of the model for the multiphysics analysis of Molten Salt Reactor Experiment using GeN-Foam code, 2016, EPFL Lausanne.
8. Chmakoff, Alexandre, "Influence du contrôle redox sur la corrosion des alliages dans les sels fluorures fondus", IPNO-CNRS, MSc-Thesis Paris VI, 2019.
9. Daronnat, Marceau, "Etude de la faisabilité d'une extraction passive de la puissance résiduelle du réacteur MSFR", LPSC-IN2P3-CNRS Grenoble, 2018 (L3 level)
10. Deurvorst, Floris, Design of Cooling Fins on the Freeze Plug, BSc thesis, TU Delft, June 2017
11. Di Filippo, Marco, Development of a Dedicated Burnup Tool for Molten Salt Fast Reactor, 2018, EPFL Lausanne.
12. Di Lecce, Francesco, "Neutronic and thermal-hydraulic simulations for Molten Salt Fast Reactor safety assessment", MSc thesis, Politecnico di Torino (project POLY2NUC in collaboration with Politecnico di Milano), 2018.
13. Di Ronco, Andrea, "Preliminary Design, Modelling and Simulation of Intermediate Loop and Energy Conversion System for the Molten Salt Fast Reactor", MSc thesis, Politecnico di Milano, 2017.
14. Dieuaide, Manon, "SAMOFAR Molten Salt Fast Reactor reprocessing unit design", MSc thesis, CEA Saclay, 2018
15. Froeling, Hidde, Causes of Spurious Echoes by Ultrasonic Wave Simulation, BSc thesis, TU Delft, June 2017
16. Gao-Jiesong, Ivan "Etudes de corrosion dans les sels fluorures fondus", IPNO-CNRS, IFCEN, MSc-Thesis, Orsay, 2018
17. Gerritsma, Anne Maaïke, Optimizing Viscometer for Ultrasonic Nondestructive Testing with Finite Element Software, TU Delft, January 2019
18. Henstra, Gijs, Optimising a model of ultrasonic waves propagating in a buffer rod, BSc thesis, TU Delft, December 2017
19. Hijlkema, Mathijs, Numerical Analysis and Uncertainty Quantification of Transient Scenarios in the Molten Salt Fast Reactor, MSc thesis, TU Delft, 2019
20. Iovanovici, Sasha, Empirical Evaluation of Noble Extraction in MSRs by Helium Bubbling, TU Delft, February 2019
21. Le Meute Thibault, "Modélisation de l'évacuation de puissance résiduelle lors du transitoire de vidange du circuit combustible d'un réacteur à sels fondus de Génération IV", CEA-SESI and LPSC-IN2P3-CNRS / CORYS TESS, MSc Thesis, Cadarache and Grenoble, 2019.
22. Nijen, David van, Investigation of natural circulation capabilities of the Molten Salt Fast Reactor, BSc thesis, TU Delft, July 2018
23. Kamp, David, Cooling requirements for the freeze plug module, BSc thesis, TU Delft, January 2018
24. Koks, Iris, Melting behaviour of the freeze plug in a molten salt fast reactor, BSc thesis, TU Delft, July 2016

25. Koks, Iris, Melting behaviour of the freeze plug in a molten salt fast reactor, BSc thesis, July 2016 ([PDF](#))
26. Lantzós, Ioannis Molten Salt Fast Reactor: Shift from Burner to Breeder, MSc thesis, February 2016 ([PDF](#))
27. Makkinje, André, Design of a Freeze Plug Grate, BSc thesis, TU Delft, February 2017
28. Montanet, Edouard, "Dimensionnement du réservoir de vidange d'urgence du MSFR", LPSC-IN2P3-CNRS Grenoble, 2017 (L3 level)
29. Oud, Thomas, Elastic wave simulation for buffer rod tapering, BSc thesis, TU Delft, August 2017
30. Oudenaren, Gilliam van, Study of cooling requirements in the fertile blanket and the freeze-plugs of the MSFR, BSc thesis, TU Delft, July 2018
31. Passelaigue, Florian, "Interfaçage du code système LiCore du réacteur MSFR", LPSC-IN2P3-CNRS/CORYS TESS, Grenoble France, 2018 (M1 level)
32. Reuver, Reindert de, Temperature dependence of the attenuation and group velocity of ultrasonic waves in tungsten, BSc thesis, TU Delft, July 2018
33. Padovani, Enrico, Modeling of the DYNASTY facility and development of its data acquisition and control system, MSc thesis, Politecnico di Milano, 2018
34. Pettersen, Eirik Eide, Coupled multi-physics simulations of the Molten Salt Fast Reactor using coarse-mesh thermal-hydraulics and spatial neutronics, MSc thesis, September 2016 ([PDF](#))
35. Pettersen, Eirik Eide, Coupled multi-physics simulations of the MSFR using TRACE-PARCS, 2016, Université Paris-Saclay
36. Pyron, Dimitri D. A., Safety Analysis for the Licensing of Molten Salt Reactors, 2016, EPFL Lausanne
37. Santanoceto, Mario, Uncertainty quantification in transient simulations of the Molten Salt Fast Reactor, MSc thesis, TU Delft, 2019, exchange student with Politecnico di Torino
38. Shafer, Devaja, Design and Melting Behavior of the MSFR Freeze Plug, TU Delft, January 2018
39. Schuringa, Olivier, Density and viscosity calculation using ultrasonic wave propagation, BSc thesis, TU Delft, December 2017
40. Seelen, Jannick, A C++11 Implementation of a Moving Wall in the Lattice Boltzmann Method, TU Delft, December 2016
41. Servell, Paul, from 6th May to 5th August 2018, Grenoble-INP Phelma, Internship at KIT
42. Shafer, Devaja, Design and Melting Behavior of the MSFR Freeze Plug, TU Delft, January 2018
43. Siviero, Alessio, "Model development for studying natural circulation with the DYNASTY facility", MSc thesis, Politecnico di Torino (project POLY2NUC in collaboration with Politecnico di Milano), 2018.
44. Sorby, Brian, "Analyse de sûreté du réacteur à sels fondus MSFR: analyse FFMEA de la couverture fertile et du circuit intermédiaire", LPSC-IN2P3-CNRS Grenoble, 2017 (M1 level)
45. Striekwold, Thijs, Modelling the extraction efficiency inside a Molten Salt Reactor, TU Delft, September 2018
46. Swaroop, Parth, Design of a Freeze Plug for the Molten Salt Fast Reactor (MSFR), MSc thesis, TU Delft, August 2016 ([PDF](#))
47. Tripodo, Claudio, Development of control-oriented simulation tools and control strategies for the Gen-IV Molten Salt Fast Reactor, MSc thesis, Politecnico di Milano, 2018.
48. Tuyll, Frederique van, A new design for the safety plug in a Molten Salt Fast Reactor, BSc thesis, TU Delft, December 2016
49. Van den Berg, Marc, Viscosity determination using the quasi-Scholte wave, BSc thesis, TU Delft, August 2018.
50. Van den Berg, Marc, Viscosity determination using the quasi-Scholte wave, TU Delft, August 2018
51. Van den Bergh, Olivier, Melting behaviour of the freeze plug in a molten salt fast reactor, BSc thesis, TU Delft, July 2016 ([PDF](#))
52. Vozarova, Nikoleta, Behaviour of fission products in the molten salt reactor fuel, 2016, ETH Zurich (done at ITU)
53. Zanini Andrea, "Développement du code système du réacteur MSFR et application pour l'étude du réacteur", LPSC-IN2P3-CNRS / CORYS TESS, MSc Thesis, Grenoble, 2019.

Dissemination activities

2015

1. Eradus, Wim (author), Jan Leen Kloosterman (interview), *Veilige energie met thoriumreactor*, Reformatorisch Dagblad, Apr 29, 2015.
2. Kloosterman, Jan Leen and other nuclear society chairmen, CLIMATE: 39 Nuclear Associations Collaborate, Nuclear4Climate, ICAPP, Nice, 3-6 May, 2015, [Press release](#), [Photos](#), [Video](#).
3. Kloosterman, Jan Leen, Pleidooi voor onderzoek naar geheel nieuwe vorm van kernenergie, FluxEnergie.nl, 1 juli (2015).
<http://www.fluxenergie.nl/pleidooi-voor-onderzoek-naar-geheel-nieuwe-vorm-van-kernenergie/>
4. Martin, Richard (MIT), Jan Leen Kloosterman (interview), Meltdown-Proof Nuclear Reactors Get a Safety Check in Europe, MIT Technology Review, 4 Sep (2015).
<http://www.technologyreview.com/news/540991/meltdown-proof-nuclear-reactors-get-a-safety-check-in-europe/>
5. Dalton, David, (NUCNET), Molten Salt Reactor Research Programme Begins In Europe, NUCNET **176**, 7 Sep 2015 ([PDF](#)), <http://www.nucnet.org/all-the-news/More?skip=500> (upon Login)
6. Anne Blair Gold, Jan Leen Kloosterman (interview), Are molten salt nuclear reactors safer and cleaner?, Delta, TU Delft, 22 Sep (2015).
<http://delta.tudelft.nl/article/are-molten-salt-nuclear-reactors-safer-and-cleaner/30442>
7. Roel van der Heijden, Jan Leen Kloosterman (interview), Weg met de meltdown én het plutonium - Kernenergie opnieuw uitvinden, maar dan beter, Kennislink.nl, 2 Okt (2015).
<http://www.kennislink.nl/publicaties/weg-met-de-meltdown-en-het-plutonium>
8. Interview by Jan Leen Kloosterman about Molten Salt Reactors by the Dutch news broadcast 'Een Vandaag', Nov 5, 2015
https://www.youtube.com/watch?v=OW8OZ8P6_1c
9. Jiri Krepel, SAMOFAR – A Paradigm Shift in Reactor Safety with the Molten Salt Fast Reactor, oral presentation at Thorium Energy Conference 2015 (TheC15), Bhabha Atomic Research Centre, Mumbai, India, Oct 12-15, 2015 ([PDF](#), [Video](#), all speeches web page <http://www.thec15.thoriumenergyconference.org/>)
10. 'Europe has a Thorium MSR Project – SAMOFAR', News item on ITheO.org, Apr 17 2015
<http://www.itheo.org/articles/europe-has-thorium-msr-project-samofar>
11. Can Europe be the first to build an MSR reactor?, News item on ITheO.org, Nov 25, 2015
<http://www.itheo.org/articles/can-europe-be-first-build-msr-reactor>
12. Thorium seen as nuclear's new frontier, Science Mag, Vol 350 No 6262, Nov 2015, p. 726-727.
<http://science.sciencemag.org/content/350/6262/726.full>
13. Safety Assessment of the Molten Salt Fast Reactor – SAMOFAR, Chapter in Thorium Energy Report, 2015,
<http://www.thoriumenergyworld.com/report.html>
14. Het vuur van Thor, Bits&Chips 9, Nov/Dec 2015, p.3 (Opinion; in Dutch) ([PDF](#))
15. De (bijna) vergeten nucleaire optie, Bits&Chips 9, Nov/Dec 2015, p. 36-39 (Theme; in Dutch) ([PDF](#))

2016

16. Laureau, A., "Le cas particulier des réacteurs à sels fondus", invited presentation at the Journées Techniques SFEN " Contrôle de la réactivité et absorbants neutroniques ", Paris, France, 23 novembre 2016
17. Marga van Zundert (based on interview with Jan Leen Kloosterman), "Thoriumreactor krijgt nieuwe kans", Chemisch Magazine, 58, January 2016, p.24-27 ([PDF](#))
18. Thorium, een duurzame vorm van kernenergie, Jan Leen Kloosterman interviewed by Dutch NPO Radio 1 'De Morgen', Feb 5, 2016
<http://www.radio1.nl/item/342387-Thorium,%20een%20duurzame%20vorm%20van%20kernenergie.html#>
19. Benes, O. and J.L. Kloosterman, Molten Salt Reactor Workshop 2016 'Moving MSRs Forward - The Next Steps', October 4-5, 2016
20. Jan Leen Kloosterman, "Overview of SAMOFAR project", Technical Meeting on the Status of Molten Salt Reactor Technology, IAEA, Vienna, Austria, Oct 31 – Nov 3, 2016,
https://www.iaea.org/NuclearPower/Downloadable/Meetings/2016/2016-10-31-11-03-NPTDS/07_Jan-Leen_Kloosterman.pdf

21. Elsa Merle, "Concept of the Molten Salt Fast Reactor (MSFR) developed at CNRS in France", Technical Meeting on the Status of Molten Salt Reactor Technology, IAEA, Vienna, Austria, Oct 31 – Nov 3, 2016, https://www.iaea.org/NuclearPower/Downloadable/Meetings/2016/2016-10-31-11-03-NPTDS/04_MSFR-France_IAEA-TM-MSR2016_EML_v31oct2016.pdf
22. Jiří Křepel, "Molten Salt Reactor Research in Switzerland", Technical Meeting on the Status of Molten Salt Reactor Technology, IAEA, Vienna, Austria, Oct 31 – Nov 3, 2016, https://www.iaea.org/NuclearPower/Downloadable/Meetings/2016/2016-10-31-11-03-NPTDS/09_Jiri_Krepel.pdf
23. Ondrej Benes, "European activities in the MSR project", Technical Meeting on the Status of Molten Salt Reactor Technology, IAEA, Vienna, Austria, Oct 31 – Nov 3, 2016, https://www.iaea.org/NuclearPower/Downloadable/Meetings/2016/2016-10-31-11-03-NPTDS/12_Ondrej_Benes_EU_activities_Benes.pdf
24. Stefano Lorenzi, "Modelling and experimental activities on Molten Salt Reactors (MSRs) developed at Politecnico di Milano in Italy", Technical Meeting on the Status of Molten Salt Reactor Technology, IAEA, Vienna, Austria, Oct 31 – Nov 3, 2016, https://www.iaea.org/NuclearPower/Downloadable/Meetings/2016/2016-10-31-11-03-NPTDS/33_Stefano_Lorenzi.pdf
25. Jiří Křepel and Boris Homburger, "Thorium: Atomkraft version 2.0? Hvad, hvordan, hvor meget / Nuclear version 2.0? What, how and how much", Presentation at the Teknologiske Netværk Ingeniørforeningen, IDA, 4. Feb. 2016
26. Jiří Křepel and Boris Homburger, poster about MSR at the PSI Open Day, 18 October 2015
27. Gijs Zwartsenberg (based on interview with Jan Leen Kloosterman), SAMOFAR – Why the slow coming of a fast reactor actually speeds up the development of 'slow' MSR's, July 5, 2016, <https://articles.thmsr.nl/samofar-why-the-slow-coming-of-a-fast-reactor-actually-speeds-up-the-development-of-slow-msr-s-e20b32ab3341#.19iycttb>
28. 10 October 2016, PSI web, Current topics from our research, Molten salt reactors – exploring an alternative, Text: Paul Scherrer Institute/Laura Hennemann (Jiri Krepel and Andreas Pautz helping) <https://www.psi.ch/media/molten-salt-reactors-exploring-an-alternative>
29. Jiří Křepel, Thorium, Brennstoff der Zukunft, presentation for visitors group at PSI, PSI Forum, 27 Oct 2016
30. Grenoble MSFR team attended the preview version of "Thorium: the far side of nuclear power" by producer Myriam Tonelotto at Citizen Films made with Arte TV in Lyon the September 10, 2016, where the whole Grenoble MSFR team was invited (<http://www.petit-bulletin.fr/lyon/cinema-article-55256-+Teleactive+au+Com%C5%93dia+en+presence+de+Jerome+Jouvray.html>)
31. Beneficiaries CNRS, JRC, TU Delft contributed to "Thorium: the far side of nuclear power" a video by producer Myriam Tonelotto at Citizen Films made with Arte TV <http://samofar.eu/thorium-the-far-side-of-nuclear-power/>
32. Daniel Heuer, participation in the projection and discussion around the movie organized by the scientific journalist french association in Paris in January 19th (<https://www.ajsipi.com/fr/agenda/debat-sur-les-projets-de-reacteurs-nucleaires-a-sels-fondus-de-thorium>)
33. Daniel Heuer attended the official release in Strasbourg, Sept 2016, https://www.facebook.com/clubpresse.strasbourg/videos/1775615569359143/?video_source=pages_finc_h_thumbnail_video
34. Remco de Boer (based on interview with Jan Leen Kloosterman)), *Gaat groene kernenergie het klimaat redden?*, Het Financieele Dagblad, 19 Nov (2016).

2017

35. Allibert, M., D. Gerardin et al., "Molten Salt Reactor system: application of PR methodology to the Molten Salt Fast Reactor (MSFR)", GIF Workshop on SSC-PRPPWG Interactions, Paris, France, 12-13 avril 2017.
36. Allibert, Michel, "Fuel cleaning unit and proliferation resistance" & "Confinement design & intermediate salt circuit", invited presentations at the workshop international 'Molten Salt Reactor Technology Determination Workshop' organised by TUBITAK, Marmara Research Center, Turkey, december 2017 (<http://mam.tubitak.gov.tr/en/duyuru/molten-salt-reactor-technology-determination-workshop>).
37. Duran-Klie, G., D. Rodrigues, S. Delpech, "Comportement électrochimique de l'iode dans l'eutectique LiF-ThF4 fondu à 650°C", Journées d'Electrochimie, Bordeaux, France, June 2017.

38. Heuer, Daniel, Réacteur nucléaire à combustible liquide le MSFR vers un nucléaire "socialement acceptable" pour IDEES (Initiative des Étudiants pour l'Échange et la Solidarité), 12 décembre 2017.
39. Laureau, A., "MSFR concept: normal operation and safety analysis", invited presentation at the workshop international 'Molten Salt Reactor Technology Determination Workshop' organised by TUBITAK, Marmara Research Center, Turkey, december 2017 (<http://mam.tubitak.gov.tr/en/duyuru/molten-salt-reactor-technology-determination-workshop>).
40. Merle, Elsa, "Scientific choices and definition/presentation of the Molten Salt Fast Reactor (MSFR) concept" & "Risk analysis", invited presentations at the workshop international 'Molten Salt Reactor Technology Determination Workshop' organised by TUBITAK, Marmara Research Center, Turkey, december 2017 (<http://mam.tubitak.gov.tr/en/duyuru/molten-salt-reactor-technology-determination-workshop>).
41. Merle, E., "Les réacteurs à sels fondus : MSFR", Journées Techniques SFEN "Place et Evolution de l'Énergie Nucléaire dans le Futur", Paris, France, december 2017.
42. Boris Homburger, "Molten Salt Reactors as Waste Burners", presentation for the Schweizerische Gesellschaft der Kernfachleute, SGK-Apéro, March 7, 2017, Grand Casino Baden
43. Steve Gilmann (based on interview with Jan Leen Kloosterman), "Supercritical CO₂, Molten Salt could stop a nuclear meltdown before it begins", HORIZON, The EU Research & Innovation Magazine, 24 February (2017), based on interview with Jan Leen Kloosterman, https://horizon-magazine.eu/article/supercritical-co2-could-stop-nuclear-meltdown-it-begins_en.html
44. Jan Leen Kloosterman, "Is thorium een goed alternatief voor kernenergie?" contribution to book "Hoe zwaar is licht; Meer dan 100 dringende vragen aan de wetenschap", Balans, 2017, ISBN 9789460034435, http://www.janleenkloosterman.nl/hoezwaarislicht_201702.php
45. Stefano Lorenzi, "MSR-related modelling activities at Politecnico di Milano", Multiphysics modelling and simulation of Molten Salt Reactors, UC Berkeley, Berkeley, USA, June 15, 2017, <http://fratoni.nuc.berkeley.edu/MSRMultiphysics/ewExternalFiles/Lorenzi.pdf>
46. Stefano Lorenzi, "MSR-relevant R&D at Politecnico di Milano, Italy", Consultant's Meeting on the Development of the IAEA TECDOC on the Status of Molten Salt Reactor Technology, IAEA, Vienna, Austria September 25 -27, 2017.
47. Marco Visscher (based on interview with Jan Leen Kloosterman), [*Gaat Thorium de wereld redden*](#), Vrij Nederland, 22 Dec (2017).
48. Tomas van Dijk (based on interview with Jan Leen Kloosterman), [*Cheap nuclear electricity without long-lived radioactive waste*](#), Delta, 6 Sep (2017).
49. Bert van Dijk (based on interview with Jan Leen Kloosterman), *Nederlands onderzoek naar kernenergie zonder uranium*, Financieel Dagblad (FD), 31 Aug (2017).
50. Hans van der Lugt (based on interview with Jan Leen Kloosterman), [*'Nieuwe kernenergie' hoopt op onderzoeksgeld na formatie*](#), Energiea, 28 April (2017).
51. Jan Leen Kloosterman, *A Description of the Molten Salt Fast Reactor and the EU SAMOFAR Project*, Arge Dergisi, Toryum, New Nuclear Era, Vol 1 (2017).
52. Steve Gilmann (based on interview with Jan Leen Kloosterman), [*Supercritical CO₂, Molten Salt could stop a nuclear meltdown before it begins*](#), HORIZON, The EU Research & Innovation Magazine, 24 February (2017).
53. Andreas Pautz, Jiri Krepel presentation: "Vortrag zum Thema Fortgeschrittene Konzepte für Kernreaktoren" Vortragsabend der Studiengruppe Energieperspektiven, Hotel Du Parc in Baden, 31 August 2017
54. SAMOFAR summer school, July 2-4, 2017, Lecco (Como Lake), Italy

2018

55. Presentation of the members of the MSFR French National Project during the national workshop "FrenchTeam-MSFR (NEEDS PF Systèmes nucléaires et scénarios)" organised at LPSC Grenoble, 05/10/2018 : <https://lpsc-indico.in2p3.fr/Indico/event/1801/>
56. Allibert, M., S. Beils, S. Bourg, M. Brovchenko, G. Campioni, B. Carlucci, P. Chamelot, M. Delpech, S. Delpech, P. Gauthé, D. Gerardin, A. Gerschenfeld, Y. Gorsse, J. Guidez, D. Heuer, E. Ivanov, A. Laureau, D. Lecarpentier, J. Martinet, E. Merle, J. Serpe, "Rapport Scientifique des Journées MSR des 22-23 mars 2018", Massy (2018) - http://irfu.cea.fr/Meetings/seminaires-MSR/MSR_Rapport_final.pdf

57. Duran-Klie, G., D. Rodrigues, S. Delpéch, "Comportement électrochimique de l'uranium dans LiF-ThF₄", JECRRC 2018, Strasbourg, France, June 2018.
58. Heuer, Daniel, Réacteur nucléaire à combustible liquide le MSFR vers un nucléaire "socialement acceptable" pour RISE² (Rencontres Innovations et Sciences des Étudiants de l'ENSTA ParisTech), 8 mars 2018.
59. Heuer, Daniel, Réacteur nucléaire à combustible liquide le MSFR vers un nucléaire "socialement acceptable" pour le Groupe Professionnel Centrale-Énergies, 13 juin 2018.
60. Heuer, Daniel, Réacteur nucléaire à combustible liquide le MSFR vers un nucléaire "socialement acceptable" pour l'école ECOCLIM2018 sur le climat et le réchauffement climatique, 14 juin 2018.
61. Merle, E., "Les réacteurs de 4^{ème} génération à combustible liquide", invited public audition, Office Parlementaire d'Évaluation des Choix Scientifiques et Technologiques (OPECST) dans le cadre de « NOUVELLES TENDANCES DE LA RECHERCHE SUR L'ÉNERGIE : I - L'AVENIR DU NUCLÉAIRE », Assemblée Nationale, Paris, mai 2018 - <https://progresnucleaire.org/2018/05/28/audition-au-parlement-reacteurs-a-sels-fondus/>
62. Merle, E., "Molten Salt Fast Reactor as SMR: activities and perspectives", International Workshop on Design and Technology Status of Innovative (non water cooled) SMRs for Near Term Deployment, Agence Internationale de l'Énergie Atomique (IAEA), Vienna, Austria, november 2018. Press release sent to Dutch Physics and Chemical Societies, Publishers of popular magazines and Partners ([PDF](#))
63. Karin van der Graaf, Jan Leen Kloosterman, and Samofar work package leaders, SAMOFAR stakeholder bulletin, January (2018). http://samofar.eu/wp-content/uploads/2017/12/SAMOFAR-Stakeholders-Bulletin_January-2018.pdf
64. Diederik Jekel (based on interview with Jan Leen Kloosterman), *De Thorium theorie*, Focus, 29 Maart (2018).
65. Eric van der Walle (based on interview with Jan Leen Kloosterman), *Veiligere kernenergie kan, maar komt het er ook?*, NRC, 6 Jan (2018).
66. Jan Leen Kloosterman, *Klimaatprobleem is te groot om kernenergie te negeren*, Reformatorisch Dagblad, 21 Nov (2018).
67. Maurits Terwind (based on interview with Jan Leen Kloosterman), *Thorium: Stroom uit zout*, Nieuwe Energie, Elsevier speciale editie, Dec (2018).
68. Jort Kelder (interview with Jan Leen Kloosterman), Een moderne kernreactor ontploft niet, Dr Kelder, NPO Radio 1, 10 Nov (2018).

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69. Heuer, Daniel, Des combustibles liquides pour la 4^{ème} génération de réacteurs nucléaires pour G2E (Grenoble Europe Énergie), 17 mai 2019.
70. Frank Beijen (based on interview with Jan Leen Kloosterman), Atoomdroom, kunnen thoriumcentrales kernenergie maken zonder nadelen?, Quest, mei (2019).
71. Maurits Terwindt (based on interview with Jan Leen Kloosterman), Thorium: Stroom uit zout, Elsevier Weekblad, 2 maart (2019).
72. José Stoop (based on interview with Jan Leen Kloosterman), Reactor Update, Kijk, Maart (2019).
73. MSR Bootcamp, SAMOFAR/NUSTEM, TU Delft, Delft, Netherlands 1-3 July (2019)
74. SAMOFAR Stakeholder event, TU Delft, Delft, Netherlands, 4-5 July (2019), <http://samofar.eu/samofar-final-meeting/>

Social media

1. "SAMOFAR (A Paradigm Shift in Nuclear Reactor Safety with the Molten Salt Fast Reactor)" Weblog Eddie Honorato, Apr 2, 2015, <https://eddiehonorato.wordpress.com/2015/04/02/samofar-a-paradigm-shift-in-nuclear-reactor-safety-with-the-molten-salt-fast-reactor/>
2. "SAMOFAR: The way forward to the ultimate safe nuclear reactor", Weblog Eddie Honorato, Oct 5, 2015, <https://eddiehonorato.wordpress.com/2015/10/05/samofar-the-way-forward-to-the-ultimate-safe-nuclear-reactor/>
3. "SAMOFAR kick-off meeting", Weblog Eddie Honorato, Sept 24, 2015, <https://eddiehonorato.wordpress.com/2015/09/24/samofar-kick-off-meeting/>

4. Launch of SAMOFAR Youtube channel, 25 Feb 2017,
<https://www.youtube.com/channel/UCd2wCkwQwTaxKgibxWcAg0Q>
5. Etiene Gemehl, "Climate Change", Youtube video, 25 Feb 2017,
<https://www.youtube.com/watch?v=m2JcZUW2wiU>
6. Etiene Gemehl, "Nuclear Fission", Youtube video, 25 Feb 2017,
<https://www.youtube.com/watch?v=Pr11ijySlqk>
7. Etiene Gemehl, "Nuclear Fuel Cycle", Youtube video, 25 Feb 2017,
<https://www.youtube.com/watch?v=9gHbtFGtOiA>
8. Etiene Gemehl, "MSFR and Generation IV", Youtube video, 25 Feb 2017,
<https://www.youtube.com/watch?v=MUzVqbn3Png>

Presentations at GIF meetings

1. Beneš, Ondrej, "EC-JRC update on MSR activities", Presentation at the GIF SSC-MSR meeting, June 2016, Grenoble, France
2. Beneš, Ondrej, "MSR contribution to GIF", Presentation at the 23rd GIF SSC-MSR meeting, Jan 2017, Villigen, Switzerland
1. Beneš, O., MSR contribution to GIF, IAEA meeting, Vienna, 28 Sept 2017
2. Beneš, O., (by phone), MSR contribution to GIF, Shanghai, 10 April 2018
3. Beneš, O., MSR contribution to GIF, Paris, 30 Oct 2018
4. Beneš, O., MSR contribution to GIF, Paris, 13 March 2019
1. Kloosterman, Jan Leen, "SAMOFAR project", Presentation at the GIF SSC-MSR meeting, June 2016, Grenoble, France
2. Kloosterman, Jan Leen, "The EU SAMOFAR project goals and contents", Presentation at the 23rd GIF SSC-MSR meeting, Jan 2017, Villigen, Switzerland
3. Kloosterman, J.L., "Activities in Euratom countries", Shanghai, 10 April 2018
4. Kloosterman, J.L., "Progress on MSR pSSC activities", Paris, 30 Oct 2018
5. Kloosterman, J.L., "Progress in the EU", Sydney, 12 March 2019
6. Kloosterman, J.L., "Safety analysis methodology and risk analysis of the MSFR", Sydney, 14 March 2019
7. Kloosterman, J.L., "Code packages for MSR", Sydney, 14 March 2019
8. Krepel, Jiri, "Molten Salt Reactors research at PSI", Presentation at the GIF SSC-MSR meeting, June 2016, Grenoble, France
9. Krepel, Jiri, "Molten Salt Reactor Research in Switzerland", Presentation at the 23rd GIF SSC-MSR meeting, Jan 2017, Villigen, Switzerland
10. Merle, Elsa, "Molten Salt Fast Reactor : demonstrator and SMR", Presentation at the GIF SSC-MSR meeting, June 2016, Grenoble, France

Organisation of workshops/conferences

1. GIF MSR workshop, organized by PSI, Villigen, Switzerland, January 24, 2017
2. SAMOFAR summer school, July 2-4, 2017, Lecco (Como Lake), Italy
3. MSR Bootcamp, SAMOFAR/NUSTEM, TU Delft, Delft, Netherlands 1-3 July (2019)
4. SAMOFAR Stakeholder event, TU Delft, Delft, Netherlands, 4-5 July (2019)