



Ion Evangelos Stamatelatos

Curriculum Vitae

Position	Research Director Institute of Nuclear and radiological Sciences, Technology, Energy and Safety (INRASTES), National Centre for Scientific Research "Demokritos" (NCSR-D)
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Education	Ph.D., School of Physics, University of Birmingham, UK, 1991 M.Sc., Dept. of Medical Physics and Bio-engineering, University of Aberdeen, UK, 1984 B.Sc., Department of Physics, University of Patras, Greece, 1983
Summary	Dr. Ion Stamatelatos is Director of Research at INRASTES, NCSR "Demokritos", Athens, Greece. His main research activities aim on the development and application of nuclear and radiation techniques for solving scientific and technological problems. His scientific interests include neutron activation analysis, non-destructive testing, Monte Carlo methods, neutronics simulations, radiation detection and spectrometry, radiation dosimetry and radiation protection and safety
Career	2006 – today Director of Research, INRASTES, NCSR-D 1999 – 2006 Senior Researcher, INT-RP, NCSR-D 1995 – 1999 Associate Researcher, INT-RP, NCSR-D 1992 – 1995 Radiation Physicist, Department of Medical Physics, General Anticancer-Oncologic Hospital of Athens 'Saint Savvas' 1991 – 1992 Research Collaborator, Brookhaven National Lab, USA 1986 - 1987 Radiation Physicist, Medical Physics Laboratory, School of Medicine, University of Ioannina
Personal Data	Born 6 April 1959, Married two children

Responsibilities Principle investigator EUROfusion Enabling Research 2017 Project on the development of a novel neutron detector for fusion (VERDI)

Activity package manager EUROfusion JET DT Technology Project (WPJET3) tasks NEXP and ACT (since 2013)

Activity package manager EFDA Task Force Fusion Technology task NEXP (2012-2013)

Principal investigator of several EFDA, EURATOM-Hellas Fusion Association activities in the area of fusion and emerging technologies (2001-2010)

Deputy Project Manager, Greek Research Reactor Refurbishment and Modernization Program (2009-2012)

Principal investigator IAEA, Coordinated Research Project “Application of LSNA for Inhomogeneous Bulk Archaeological Samples and Objects” (2008-2012)

Deputy Head, Greek Research Reactor Laboratory (2007-2012)

Principal Investigator, GSRT, Joint Scientific and Technological Collaboration Program between Montenegro and Greece (2006-2008)

Greek Research Reactor Radiation Protection Officer (2003-2005)

Principal Investigator, IAEA, Technical Cooperation Program, GRE/1/039, Large sample neutron activation analysis at GRR-1 research reactor (2001-2003)

Principal Investigator, GSRT, Britain-Greece Joint Research and Technology Program (1999-2000) on the development of a PGNA system for in vivo animal studies

Principal Investigator, GSRT, Greek - Yugoslav Joint Research and Technology Program (1998-1999)

Professional Service Receiving Editor, Applied Radiation and Isotopes Journal (since 2015)

Organizer Workshop on Fusion Technology: the challenge for clean and abundant energy production, 4th Hellenic Forum for Science Technology and Innovation, July 14 2016

Elected Member of the Board of the Hellenic Nuclear Physics Society (since 2016)

Member of the Scientific Committee and Editorial Board of the 25th Annual Symposium of the Hellenic Nuclear Physics Society (2016)

Organizer Workshop on Innovation in Radiation Protection Technology, 3rd Hellenic Forum for Science Technology and Innovation, July 3 2015

Member of Hellenic Organization for Standardization (ELOT) Technical Advise Committee No. 70 on Non-destructive Testing

Member of the Scientific Committee and Editorial Board of the 21st Annual Symposium of the Hellenic Nuclear Physics Society (2012)

Invited Participant on the IAEA Strategic Planning for Sustainability:

Research Reactor Utilization Meetings (2007-2012)

Member of the Greek Atomic Energy Commission (GAEC) Scientific Committee on Radiation Protection Emergencies Response (since 2007)

Safeguards Responsible for the Greek Research Reactor facility (2007-2012)

Member, NCSR-D Occupational Health and Safety Committee (since 2006)

Referee for Applied Radiation and Isotopes, Nuclear Instruments and Methods B, Radiation Protection Dosimetry, Nuclear Engineering and Design, Annals of Nuclear Energy, Nukleonika

Member of the Hellenic Nuclear Physics Society (since 2004)

Research Activities

EUROFUSION Enabling Research (2017-2018)

- Development of a novel neutron detector for fusion

EUROFUSION Work Package JET DT Technology (2014-2019)

- Validation of state-of-art neutronics codes and data by experiments in real fusion environment
- Characterization and data validation for the activation predictions of ITER materials by measurements in real fusion environment

EFDA Task Force Fusion Technology JET (2012-2014)

- Experiments at JET for the validation of neutron streaming calculations through ducts and shielding penetrations in a real fusion environment

EFDA EURATOM-Hellas Fusion Association activities on Emerging Technologies (2001-2010)

- Induced activity evaluations in ceramic composites and steels for fusion
- Gamma spectrometry system optimization for in situ evaluation of induced activity in fusion materials for radioactive waste management and recycling
- Development of processes for high dose irradiation tests of fusion materials in a nuclear research reactor facility

IAEA Coordinated Project of LSNA for Inhomogeneous Bulk Archaeological Samples and Precious Objects (2008-2012)

- Development of a novel methodology for Large Sample Neutron Activation Analysis of Heterogeneous Materials and Archaeological Objects

National research program on Novel Technologies and Integrated Design for Energy and Environmental Applications (KRIPIS) (2012-2015)

- Development of a rapid neutron analytical method for “in situ” characterization of contaminated soil

GSRT Greek Research Reactor refurbishment and modernization program (2006-2011)

- Computational and experimental verification of neutron induced activity in reactor materials and components for decommissioning and radioactive waste management
- Development of in situ gamma spectrometry technique for radioactive materials characterization and clearance
- Assessment of occupational radiation exposure for nuclear research reactor core dismantling and decommissioning activities

GSRT and IAEA Greek Research Reactor utilization program (1997-2005)

- Radiation shielding design of the new GRR-1 neutron diffractometer
- Development and applications of large sample neutron activation analysis facility at the GRR-1 research reactor graphite thermal neutron pile
- Development of a new pneumatic system for short-time neutron activation analysis at selected reactor core positions for bio-medical studies

Medical Physics

- Monte Carlo and experimental evaluation of the neutron dose produced in high energy medical LINACs for the protection of the patient and the personnel in collaboration with GAEC and Saint-Savas Anticancer-Oncologic Hospital (1998-2002 and 2012-2014)
- High energy medical LINAC photon energy spectrum characterization by photon activation analysis in collaboration with Saint-Savas Anticancer-Oncologic Hospital (2015)
- Design and calibration of a WBC for biomedical and radiation protection applications (collaboration with University of Ioannina) (2010-2012)

GSRT, Joint Scientific and Technological Collaboration Programs

- Development of semi-empirical and Monte Carlo computational techniques for gamma spectrometry analysis of bulk samples in neutron activation analysis (2006-2008)
- Design, construction, characterization and application of a prompt-gamma neutron activation analysis facility for small animal in vivo body composition studies (1999-2001)
- Development and evaluation of a methodology for HPGe detector efficiency characterization for bulk samples (1998-1999)

USDA Human Nutrition Research Center on Aging at Tufts University – NCSR Collaboration Program (1998 – 2001)

- Validation of a field method for assessing extracellular water by portable XRF bromine analysis by comparison against

instrumental neutron activation

- Measures of extra-cellular water by neutron activation analysis in acutely burned children,

BNL Human in vivo body composition analysis program (1992-1993)

- Development of an in vivo PGNAA facility for evaluation of total body protein in humans
- Development of a ^{252}Cf based PGNAA facility for the evaluation of total body protein in small animals

Educational Activities

Research Supervision

5 PhD students and 10 post-graduate degree students (MSc) in the area of development of nuclear analytical techniques for applications in technology and the life sciences and neutron dosimetry

Teaching

Lecturer on Effects of Radiation, Safety and Radiation Protection, Master in Nuclear Security (organized by TU Delft, The Netherlands) (2013-2014)

Lecturer on Radiation Protection and Safety of Nuclear Reactors, Inter-University Postgraduate Course in Medical - Radiation Physics, Greece (since 2008)

Lecturer, Neutron Activation Analysis in cultural heritage studies, Interdepartmental Post Graduate Studies Program on Protection, Conservation and Restoration of art objects. School of Engineering, Aristotle University of Thessaloniki (since 2007)

Lecturer on Nuclear Reactor Operational Radiation Protection, IAEA Post Graduate Educational Course on Radiation Protection and Safe Use of Radiation Sources (since 2003)

Lecturer on Interaction of Radiation with Matter, Inter-University Postgraduate Course in Medical - Radiation Physics, Greece (since 1995)

Collaborations

Research Centers: CCFE, ENEA, GAEC, Human Nutrition Research Center on Aging at Tufts University

Universities: TU Delft, University of Ioannina, NTUA, University of Birmingham, Polish Academy of Sciences – Institute of Physics, Oslo University, University of Athens

Publications

See attached list

LIST OF PUBLICATIONS

Ion Stamatelatos

Theses

1. Stamatelatos I.E., Design study of an in vivo neutron activation analysis facility for measuring total body nitrogen, Ph.D. thesis, School of Physics and Space Research, University of Birmingham, U.K., 1991
2. Stamatelatos I.E., Radiation dosimetry using quartz resonators, M.Sc. thesis, Department of Medical Physics and Bio-Engineering, University of Aberdeen, U.K., 1984

Journals

1. Stamatelatos I.E., Vasilopoulou T., Filippaki E., Georgolopoulou P., Ntalla E., Bassiakos Y., Photon activation analysis of large metallurgical slag samples using a 23 MV medical linear accelerator, *J Radioanal Nucl Chem*, 309: 165-171, 2016
2. Batistoni P., Conroy S., Obryk B., Popovichev S., Stamatelatos I.E., Syme B., and Vasilopoulou T., Benchmark experiments on neutron streaming through JET Torus Hall penetrations, *Nuclear Fusion* 55: 053028, 2015
3. Romanelli F., on behalf of JET Contributors, Overview of the JET results, *Nucl. Fusion* 55: 104001, 2015
4. Vasilopoulou T., Stamatelatos I.E., Batistoni P., Conroy S., Obryk B., Popovichev S., Syme D.B. and JET contributors, Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition. *Radiation Physics and Chemistry* 116:359–364, 2015
5. Vasilopoulou T., Stamatelatos I.E., Montoya E.H., Bedregal P.S., Tsalafoutas I. and Bode P. Large sample neutron activation analysis of irregular-shaped pottery artifacts, *J Radioanal Nucl Chem* 303:853–858, 2015
6. Obryk B. Batistoni P. Conroy S., Syme B., Popovichev S Stamatelatos I.E., Vasilopoulou T. Bilski P., Thermoluminescence measurements of neutron streaming through JET Torus Hall ducts, *Fusion Engineering and Design*, *Fusion Engineering and Design*, 89: 2235-2240, 2014
7. Stamatelatos I.E. Tzika F., Valakis S. , Hanousis A., Savidou A., Dose assessment for the decommissioning planning of the Greek Research Reactor, *International Nuclear Safety Journal*, vol.3 issue 4, 2014, pp.37-42
8. Vasilopoulou T., Tzika F. and Stamatelatos I.E., Collimated scanning for large sample neutron activation analysis, *Journal of Radioanalytical and Nuclear Chemistry*, 29: 479-483, 2012
9. Vasilopoulou T., Tzika F., Koster-Ammerlaan M.J.J. and Stamatelatos I.E., Large sample neutron activation analysis of a reference inhomogeneous sample, *Journal of Radioanalytical and Nuclear Chemistry*, 289: 731-737, 2011
10. Kontogeorgakos D., Tzika F., Stamatelatos I.E., Neutron Activation Study of the GRR-1 Research Reactor Core Supporting Plate, *Nuclear Technology*, 175: 435-444, 2011
11. Kontogeorgakos D., Tzika F., Valakis S., Stamatelatos I.E., Occupational Radiation Exposure During Removal Of Radioactive Reactor Components From GRR-1 Pool, *Radiation Protection Dosimetry*, 144: 632-635, 2011
12. Kontogeorgakos D., Stamatelatos I.E., Validation of the Monte Carlo Model of the Greek Research Reactor Core, *Nuclear Technology*, 170: 460-464, 2010
13. Tzika F., Kontogeorgakos D., Vasilopoulou T., Stamatelatos I.E., Application of the Monte Carlo method for the calibration of an in situ gamma spectrometer, *Applied Radiation and Isotopes*, 68: 1441-1444, 2010

14. Stamatelatos I.E., Tzika F., Vasilopoulou T., Koster-Ammerlaan .M.J.J., Large sample neutron activation analysis of a ceramic vase, *Journal of Radioanalytical and Nuclear Chemistry*, 283: 735-740, 2010
15. Savidou A., Stamatelatos I.E., Non-destructive technique to verify clearance of pipes, *Nuclear Technology and Radiation Protection*, 25: 133-137, 2010
16. Tzika F., Savidou A., Stamatelatos I.E., Non-Destructive Characterization of Radioactive Waste Drums by Gamma Spectrometry: A Monte Carlo Technique for Efficiency Calibration, *Health Physics*, 93 (5 Suppl.): S174-S179, 2007
17. Stamatelatos I.E. and Tzika F., Large Sample Neutron Activation Analysis: A challenge in cultural heritage studies, *Annali di Chimica*, 9: 505-512, 2007
18. Kasviki K., Stamatelatos I.E., Yannakopoulou E., Papadopoulou P., Kalef-Ezra J., On the accuracy of protein determination in large biological samples by prompt gamma neutron activation analysis, *Nuclear Instruments and Methods in Physics Research, Section B*, 263:132-135, 2007
19. Stamatelatos I.E., Varvayanni M., Tzika F., Ale A.B.F., Catsaros N., Monte Carlo simulation of the Greek Research Reactor neutron irradiation facilities, *Nuclear Instruments and Methods in Physics Research, Section B*, 263:136-139, 2007
20. Kasviki K., Stamatelatos I.E., Kalef-Ezra J., Evaluation of spatial sensitivity of a prompt gamma neutron activation analysis facility for the in vivo determination of nitrogen in small animals, *Journal of Radioanalytical and Nuclear Chemistry*, 271: 225-231, 2007
21. Tzika F., Stamatelatos I.E. and Kalef-Ezra J., Neutron activation analysis of large volume samples: The Influence of inhomogeneity, *Journal of Radioanalytical and Nuclear Chemistry* 271: 233-240, 2007
22. Carinou E., Stamatelatos I.E., Kamenopoulou V., Georgolopoulou P., Sandilos P., An MCNP-based model for the evaluation of the photoneutron dose in high energy medical electron accelerators, *Physica Medica XXI-N.3*: 95-100, 2005
23. Tzika F., Stamatelatos I.E., Kalef-Ezra J., Bode P., Large sample neutron activation analysis: Correction for neutron and gamma attenuation, *Nukleonika* 49: 115-121, 2004
24. Stamatelatos I.E., Kasviki K., Green S., Gainey M., Kalef-Ezra J., Beddoe A., Prompt-gamma neutron activation analysis facility for in vivo body composition studies in small animals, *Analytical and Bioanalytical Chemistry* 379: 192-197, 2004
25. Tzika F., Stamatelatos I.E., Thermal neutron self-shielding correction factors for large sample instrumental neutron activation analysis using the MCNP code, *Nuclear Instruments and Methods in Physics Research, Section B*, 213: 177-181, 2004
26. Stamatelatos I.E., Mergia K., Lefkopoulos G., Forrest R., Impurities and evaluation of induced activity of SiCf/SiC composites, *Nuclear Instruments and Methods in Physics Research, Section B*, 213: 511-514, 2004
27. Prelack K., Sheridan R., Yu Y.M., Stamatelatos I.E., Dwyer J., Dallal G.E., Lydon M., Petras L., Kehayias J.J., Sodium bromide by instrumental neutron activation analysis quantifies change in extracellular water space with wound closure in severely burned children, *Surgery* 133: 396-403, 2003
28. Damilakis J., Tzedakis A., Sideri L., Perisinakis K., Stamatelatos I.E., Gourtsoyiannis N., Evaluation of conceptus doses for abdominal radiographic examinations using a Monte Carlo technique, *Medical Physics* 29: 2641-8, 2002
29. Kamenopoulou V., Carinou E., Stamatelatos I.E., Personnel neutron Dosimetry at a Research Reactor Facility, *Radiation Protection Dosimetry* 96: 197-200, 2001
30. Stamatelatos I.E., Messoloras S., Optimization of sapphire thermal neutron filter in neutron scattering instruments, *Review of Scientific Instrumentation* 71: 70-74, 2000

31. Stamatelatos I.E., Kehayias J.J., Estimation of extra-cellular water by instrumental neutron activation analysis of bromine, *Annals of the New York Academy of Sciences* 904: 152-154, 2000
32. Ma R., Stamatelatos I.E., Yasumura S., Calibration of the BNL delayed-gamma neutron activation analysis facility for measurement of total body calcium, *Annals of the New York Academy of Sciences* 904, 148-152, 2000
33. Carinou E., Kamenopoulou V. and Stamatelatos I.E., Evaluation of neutron dose in the maze of medical electron accelerators *Medical Physics* 26: 2520-2525, 1999
34. Stamatelatos I.E., Katopodis K., Bersos Y., Kalef-Ezra J., Lefcopoulos G., Siamopoulos K., Serum aluminum determination by instrumental neutron activation analysis in long-term haemodialysis patients, *Journal of Radioanalytical and Nuclear Chemistry*, 241, 483-486, 1999
35. Stamatelatos I.E., Kalef-Ezra J., Economides S., Yasumura S., Caesium retention during pregnancy in mice, *Journal of Environmental Radioactivity* 46: 171-177, 1999
36. Dilmanian F.A., Lidofsky L.J., Stamatelatos I.E., Kamen Y., Yasumura S., Vartsky D., Pierson R.N., Weber D.A., Moore R.I. and Ma R., Improvement of the prompt-gamma neutron activation facility at the Brookhaven National Laboratory, *Physics in Medicine and Biology* 43: 339-349, 1998
37. Yasumura S., Stamatelatos I.E., Boozer C.N., Moore R.I., Ma R., In vivo body composition studies in rats: Assessment of total body protein, *Applied Radiation and Isotopes* 49: 731-732, 1998
38. Donta-Bakoyianni C., Stefanou E., Stamatelatos I.E., Mauromatis B., Absorbed radiation dose during panoramic radiography, *Hellenic Dental Journal* 8: 53-57, 1998
39. Tsalafoutas I., Xenofos S., Stamatelatos I.E., A semi-empirical method for the description of relative crossbeam dose profiles at depth from linear accelerators, *Medical Dosimetry* 22: 63-67, 1997
40. Stamatelatos I.E., Boozer C.N., Ma R., Yasumura S., In vivo assessment of total body protein in rats by prompt-gamma neutron activation analysis *SPIE Proc Series* 2867: 379-383, 1996. *Proceedings 5th International Conference on Applications of Nuclear Techniques: Neutrons in Research and Industry* (1996: Crete, Greece)
41. Stamatelatos I.E., Yasumura S., Prompt-gamma neutron activation analysis facility for measuring body nitrogen in vivo in small animals, *Applied Radiation and Isotopes* 46: 269-272, 1995
42. Koukourakis M., Zambatis H., Skarlatos J., Stamatelatos I.E., Georgolopoulou V., Rebelakos A., Yannakakis D., Transurethral radiotherapy for benign prostatic hypertrophy-related urethral obstruction dosimetry, ethics, and preliminary results, *Medical Dosimetry* 19: 67-72, 1994
43. Stamatelatos I.E., Chettle D.R., Scott M.C., Studies relating to the choice of gamma-ray detectors for in vivo nitrogen measurement by prompt capture neutron activation analysis, *Physics in Medicine and Biology* 38: 411-422, 1993
44. Stamatelatos I.E., Dilmanian A., Ma R., Lidofsky L., Weber D.A., Pierson R.N., Kamen Y., Yasumura S., Calibration for measuring total body nitrogen with a newly upgraded prompt gamma neutron activation facility, *Physics in Medicine and Biology* 38: 615-626, 1993
45. Ma R., Dilmanian F.A., Rarback H.M., Stamatelatos I.E., Meron M., Kamen Y., Yasumura S., Weber D.A., Lidofsky L. and Pierson R.N., Recent upgrade of the IVNA facility at Brookhaven National Laboratory, *Basic Life Sciences* 60: Human Body Composition - In Vivo Methods, Models and Assessment (eds. Ellis K and Eastman JD): 345-350, 1993
46. Stamatelatos I.E., Chettle D.R. Green S., Scott M.C., Design studies related to an in vivo neutron activation analysis facility for measuring total body nitrogen, *Physics in Medicine and Biology* 37: 1657-1674, 1992

Conferences

1. Stamatelatos I.E., Vasilopoulou T., Batistoni P., Obryk B., Popovichev S., Naish J., Neutron streaming studies along JET shielding penetrations, 13th International Conference on Radiation Shielding - Radiation Protection & Shielding Division Topical Meeting 2016 of American Nuclear Society ICRS-13 & RPSD-2016, (October 3-6: :Paris, France)
2. Villari R., Batistoni P., Catalan J.P., Colling B., Croft D., Fischer U., Flammini D., Fonesu N., Jones L., Klix A., Kos B., Kłosowski M., Kodeli I., Loreti S., Moro F., Naish J., Obryk B., Packer L., Pereslavtsev P., Pilotti R., Popovichev S., Sauvan P., Stamatelatos I.E., Vasilopoulou T and JET contributors,, ITER oriented neutronics benchmark experiments on neutron streaming and shutdown dose rate at JET, 29th Symposium on Fusion Technology (SOFT 2016), (Sept 5-9, 2016: Prague, Czech Republic)
3. Packer L. W., Batistoni P., Colling B., Drozdowicz K., Jednorog S., Gilbert M.R., Laszyska E., Leichtle D., Mietelski J.W., Pillon M., Stamatelatos I.E., Vasilopoulou T., Wójcik-Gargula A. and JET Contributors, Status of ITER material activation experiments at JET, 29th Symposium on Fusion Technology (SOFT 2016), (Sept 5-9, 2016: Prague, Czech Republic)
4. Vasilopoulou T., Stamatelatos I.E., Packer L.W., Lilley S., Batistoni P. and JET Contributors, Preparation of activation experiments for ITER material characterization and data validation in the Deuterium–Tritium JET campaign, 25th Symposium of the Hellenic Nuclear Physics Society (June 3-4 2016: Athens, Greece)
5. Triantou K., Mergia K. Stamatelatos I.E, Apostolopoulos G., Messoloras S., Positron Annihilation Lifetime Spectroscopy in the study of defects in materials, 25th Symposium of the Hellenic Nuclear Physics Society (June 3-4 2016: Athens, Greece)
6. Kolovi S, Tsompopoulou E., Mergia K and Stamatelatos I.E., Assessing chelators' efficiency in removing iron stains from textiles using X-ray fluorescence: Preliminary results, 25th Symposium of the Hellenic Nuclear Physics Society (June 3-4 2016: Athens, Greece)
7. Stamatelatos I.E., Vasilopoulou T, Georgolopoulou P., Neutron streaming along shielding penetrations of high energy medical accelerators using MCNP and ADVANTG codes, Physica Medica, 32, Supp. 3 (2016) 304, Proceedings 1st European Congress of Medical Physics, (Sept. 1-4, 2016: Athens, Greece)
8. Stamatelatos I.E., Vasilopoulou T., , Batistoni P., Conroy S., , Obryk B., Popovichev S and JET contributors, Computations in support of neutron streaming measurements using activation detectors at JET, 14th International Conference on Modern Trends in Activation Analysis, (August 23-28, 2015: Delft, The Netherlands)
9. Stamatelatos I.E., Vasilopoulou T., , Batistoni P., Conroy S., , Obryk B., Popovichev S and JET contributors, Preanalysis of Neutron Activation Measurements in Shielding Penetrations at JET, 24th Symposium of the Hellenic Nuclear Physics Society (May 22-23 2015: Ioannina, Greece),
10. Ntalla E., Vasilopoulou T , Georgolopoulou P., and Stamatelatos I.E., Bremsstrahlung Spectra Characterization by Photo-Activation: Preliminary Results. 24th Symposium of the Hellenic Nuclear Physics Society (May 22-23 2015: Ioannina, Greece)
11. Sarlikiotis N., Potiriadis C., Nikolaki M., Stamatelatos I.E., MCNP model and validation of the EEAE ACCUSCAN Whole Body Counter, 24th Symposium of the Hellenic Nuclear Physics Society (May 22-23 2015: Ioannina, Greece)
12. Katsarou E., Karava K., Stamatelatos I.E., Kalef-Ezra J., Radiation dose distribution near material inhomogeneities 24th Symposium of the Hellenic Nuclear Physics Society (May 22-23 2015: Ioannina, Greece)
13. Stamatelatos I.E., Vasilopoulou T, Filippaki E., Georgolopoulou P., Ntalla E., Bassiakos Y., Photon Activation Analysis of large metallurgical slag samples using a 23 MV medical linear accelerator 14th International Conference on Modern Trends in Activation Analysis, (August 23-28, 2015: Delft, The Netherlands)

14. Batistoni P, Conroy S, Obryk B., Popovichev S., Stamatelatos I.E., Syme D.B... and Vasilopoulou T., Benchmark Experiments on Neutron Streaming through JET Torus Hall Ducts, 28th Symposium on Fusion Technology, 28th Symposium on Fusion Technology (29 September – 3 October 2014: San Sebastian, Spain)
15. Vasilopoulou T., Stamatelatos I.E., Batistoni P., Conroy S., Obryk B., Popovichev S., Syme D.B., Neutron streaming along ducts and labyrinths at the JET biological shielding: Effect of concrete composition, 9th International Topical Meeting on Industrial Radiation and Radioisotope Measurement Applications, IRRMA-9, Universidad Politécnica de Valencia (6 - 11 July 2014: Valencia, Spain)
16. Stamatelatos I.E., Vasilopoulou T., Tsompopoulou E., Wilhelmi C., Blaauw M., Mergia K., Large Sample Neutron Activation Analysis of Ceramic Matrix Composites for Fusion Technology Applications, 23rd Symposium of the Hellenic Nuclear Society (20-21 June 2014: Thessaloniki, Greece)
17. Stamatelatos I.E., Vasilopoulou T., Batistoni P., Conroy S., Obryk B., Popovichev S., Syme D.B., Analysis of neutron streaming through penetrations in the JET biological shielding, 23rd Annual Symposium of the Hellenic Nuclear Physics Society, Thessaloniki Greece (20-21 June 2014: Thessaloniki, Greece)
18. Kanellopoulou S., Stamatelatos I.E., Miliadou A., Georgolopoulou P, Kalef-Ezra J., Effect of metallic spinal implant on radiation therapy dose distribution: A case study, *Physica Medica: European Journal of Medical Physics* 30 (2014) e115. Proceedings 8th European Conference on Medical Physics (11-13 September, 2014: Athens, Greece)
19. Georgolopoulou P., Vasilopoulou T., Stamatelatos I.E., Neutron fluence measurements in the treatment room and labyrinth of a high energy medical accelerator using activation detectors, *Physica Medica: European Journal of Medical Physics* 30 (2014) e46. Proceedings 8th European Conference on Medical Physics (11-13 September, 2014: Athens, Greece)
20. Vasilopoulou T., Stamatelatos I.E., Montoya E., Bedregal P., Tsalafoutas I. and Bode P., Large Sample Neutron Activation Analysis of a Peruvian Pottery Artifact, Proceedings 22nd Symposium of the Hellenic Nuclear Physics Society (24-25 May 2013: Athens, Greece)
21. Stamatelatos I.E., Vasilopoulou T., Obryk B., Bilski P., Conroy S., Popovichev S., Syme D.B., Batistoni P., Neutron streaming calculations in the JET entrance labyrinth, Proceedings 22nd Symposium of the Hellenic Nuclear Physics Society (24-25 May 2013: Athens, Greece)
22. Obryk B., Batistoni P., Conroy S., Syme B.D., Popovichev S., Stamatelatos I.E., Vasilopoulou T, Bilski P., Thermoluminescence measurements of neutron streaming through JET Torus Hall ducts, 11th International Symposium on Fusion Nuclear Technology (16 - 20 September 2013: Barcelona, Spain)
23. Fakinou M., Stamatelatos I.E., Kalef-Ezra J., Neutrons and capture gamma rays along the labyrinth of high energy medical accelerators , Proceedings 22nd Symposium of the Hellenic Nuclear Physics Society (24-25 May 2013: Athens, Greece)
24. Catsaros N., Kontogeorgakos D., Lee B., Oh S., Savva P., Seo C.G., Stamatelatos I.E., Varvayanni M., Neutronic Calculations For The New GRR-1 LEU Fuelled Core, Proceedings 21st International Conference Nuclear Energy for New Europe (2012: Ljubljana, Slovenia)
25. Vasilopoulou T., Tzika, F, Stamatelatos I.E., Large Sample Neutron Activation Analysis for Cultural Heritage Studies, *HNPS: Advances in Nuclear Physics* (Ed. S. Harissopoulos et al): 121-128, 2012. Proceedings of the 21st Hellenic Conference on Nuclear Physics (25-26 May 2012: Athens, Greece)
26. Valakis S., Pallada S., Potiriadis K., Kolovou M., Stamatelatos I.E., Kalef-Ezra J., Effect of Radon Concentration in Air on the Quality of Radioactivity Measurements in the Human Body, *HNPS: Advances in Nuclear Physics* (Ed. S. Harissopoulos et al): 153-156, 2012. Proceedings of the 21st Hellenic Conference on Nuclear Physics (25-26 May 2012: Athens, Greece)
27. Mergia K., Apostolopoulos G., Kotsina, Z., Papamichail K., Vasilopoulou T., Gjoka M., Pissas M., Speliotis Th., Devlin E., Lagoyannis T., Harissopoulos S., Stamatelatos I.E., Messoloras

- S., Research activities of NCSR “Demokritos” for the European Fusion Technology Program, HNPS: Advances in Nuclear Physics (Ed. S. Harissopoulos et al): 54, 2012. Proceedings of the 21st Hellenic Conference on Nuclear Physics (25-26 May 2012: Athens, Greece)
28. Vasilopoulou T., Tzika F., Stamatelatos I.E., Collimated scanning for large sample neutron activation analysis of inhomogeneous samples, Abstracts 13th International Conference on Modern Trends In Activation Analysis, MTAA-13 (13-18 March 2011: Texas A&M University, USA)
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1. Kontogeorgakos D, Tzika F, Stamatelatos IE, Neutron Activation Study of GRR1 Core Grid Plate, IAEA Regional Workshop on Determination of Induced Activity for Decommissioning Purposes, PER/3/009, Supporting Planning for Decommissioning of Nuclear Power Plants and Research Reactors, Budapest, Hungary, 1-4 June 2010
2. Tzika F, Vasilopoulou T, Stamatelatos IE, Large Sample Neutron Activation Analysis of Heterogeneous Samples, 2nd Research Coordinating Meeting (RCM) of the CRP "Application of Large Sample Neutron Activation Analysis Techniques for Inhomogeneous Bulk Archaeological Samples and Large Objects", Delft University of Technology, the Netherlands, 17-21 May 2010
3. Kontogeorgakos D, Tzika F, Stamatelatos IE, Neutron Activation Study of GRR-1 Core Grid Plate, IAEA Fourth Planning and Review Meeting on "Support in Planning the Decommissioning of Research reactors, RER/3009, NCSR "Demokritos", Athens, Greece, 1-3 December 2009
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5. Chatzidakis SE, Maragos EV, Stamatelatos IE, Papazoglou IA, Upgrade and Renovation of Greek Research Reactor Confinement, Primary Cooling System and I&C systems, Technical Meeting on Research Reactor Aging Management, Modernization and Refurbishment, TM-37516, IAEA Headquarters, Vienna, Austria, 5-9 October 2009
6. Savidou A, Tzika F, Valakis S, Hatzidakis S, Stamatelatos IE, Decommissioning plan of the primary cooling system at the Greek Research Reactor (GRR-1), Workshop on Waste Management and Clearance, ENRESA, Spain, 13-18 October 2008
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9. Stamatelatos IE, Mergia K, Savidou A, Apostolopoulos G, Chatzidakis S, Kontogeorgakos D, Tzika F, Messoloras S, Youtsos AG, Efficient Utilization of the Greek Research Reactor through Regional Networking in the Mediterranean Region, IAEA Technical Meeting on Strategic Planning and Regional Networking for Sustainability - Mediterranean Region, IAEA-TM-34781, Vienna, Austria, 18-22 February 2008
10. Mergia K, Stamatelatos IE, Apostolopoulos G, Tzika F, Messoloras S and Youtsos AG, “Neutron Research Activities at GRR-1, Greece”, in Proceedings of the 3rd NET-PECO Workshop, JRC-IE, Petten, 29-30 November 2006
11. Stamatelatos IE, Calibration of portable neutron probes, Workshop on Standards and Calibration of radiation detectors, GAEC, Ionizing Radiation Calibration Laboratory, NCSR “D” Amphitheatre, 20 March 2003
12. Stamatelatos IE, Tzika F, Fakinos E and Green S, Large sample neutron activation analysis facilities design using the MCNP code 7th MCNEG Monte Carlo User Group Meeting, Royal Marsden Hospital, London, U.K., 9-10 April 2001
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Invited Presentations

1. Stamatelatos I.E., NCSR Demokritos Fusion Technology Activities: Neutronic Calculations and Validation Experiments at JET, Workshop on Fusion Technology: the challenge for clean and abundant energy production, 4th Hellenic Forum for Science Technology and Innovation, NCSR-D, July 14 2016
2. Stamatelatos I.E., Innovation in Radiation Shielding Technology, Workshop on Innovation in Radiation Protection and Radioecology, 3rd Hellenic Forum for Science, Technology and Innovation, NCSR-D 3 July 2015
Stamatelatos I.E., Workshop on the European Spallation Source and the opportunities offered for Greek participation, “Neutrons as a tool in Health Sciences”, Athens, Greece, 9 December 2014.
3. Stamatelatos, I.E., Current Status and Research Activities at GRR1, IAEA Technical Meeting on Research Reactor Coalitions: Concerted actions in the Mediterranean Region, Istanbul, Turkey, July 9-13, 2012
4. Stamatelatos IE, Large Sample Neutron Activation Analysis of Heterogeneous Samples, 3rd Research Coordinating Meeting (RCM) of the CRP “Application of Large Sample Neutron Activation Analysis Techniques for Inhomogeneous Bulk Archaeological Samples and Large Objects”, Lima Peru, 6-10 February 2012
5. Stamatelatos IE, Greek Research Reactor: Current Activities and Prospects, IAEA, 2nd Co-ordination Meeting of the Mediterranean Research Reactor Network, Vienna, Austria, 22-24 June 2011
6. Stamatelatos IE, Neutron Activation Analysis as a Teaching Tool for Applied Radiation Physics, IAEA, RER/0/028 “Improving Educational and Training Capabilities in Nuclear Science and Applications”, Regional Workshop on Improvement of Education and Training in Nuclear Analytical Techniques, , NTUA, Athens, Greece, 6-8 June 2011
7. Stamatelatos IE, The Greek Research Reactor: Current Status and Perspectives, 69th NuPECC Meeting, Athens, Greece, October 8- 9, 2010

8. Stamatelatos IE, Greek Research Reactor: Activities and Future Prospects, IAEA, Workshop on Research Reactor Coalitions and Networks: Concerted Actions in the Mediterranean Region, RER4032 & RAF4022, Vienna, Austria, 28 September - 1 October 2010
9. Stamatelatos IE, Instrumental Neutron Activation Analysis at the Greek Research Reactor for Fusion Materials, 2nd FEMaS Workshop, Athens, Greece, 13 – 15 January 2010
10. Stamatelatos IE, Meeting on the Security of Supply of Medical Radioisotopes in EU Member States European Commission, Directorate D–Nuclear Energy, Radiation Protection D4, Euroforum, Luxembourg, 4 - 5 May 2010
11. Stamatelatos IE, Neutron Activation Analysis of Fusion materials at GRR1, 2nd Fusion Energy Materials Science (FEMAS) Workshop, NCSR-D, Athens, Greece, 13-15 January 2010
12. Stamatelatos IE, Large-sample analysis and medical applications at the Tandem accelerator of INP, LIBRA Meeting, Athens, Greece, March 11, 2009
13. Stamatelatos IE, Large Sample Neutron Activation Analysis of heterogeneous Samples, 1st Research Coordination Meeting of IAEA CRP on Application of Large Sample Neutron Activation Analysis for Inhomogeneous Bulk Archaeological Samples and Bulk objects, IAEA, Vienna, Austria, 19-23 January 2009
14. Stamatelatos IE, Neutron Activation Analysis: Future prospects, Regional Workshop on Harmonization Procedures related to Nuclear Analytical Techniques, IAEA RER-1006, Athens, Greece, 13-17 October 2008
15. Stamatelatos IE, Neutron activation analysis: New challenges and applications, Work Group on Chemistry and Cultural Heritage, Residential Summer School 2006, Aristotle University of Thessaloniki, Greece, 18-23 July 2006
16. Stamatelatos IE, Neutrons in Medicine and Technology, Workshop PET/SPECT/Radioisotopes in Greece, General Secretariat for Research and Technology, Athens, Greece, 26 June 2006
17. Stamatelatos IE, Tzika F, Large sample neutron activation analysis at GRR-1: Present status and prospects International Atomic Energy Agency Technical Meeting on Large Sample (1 G-1 KG) Neutron Activation Analysis Using Low Flux Irradiation Facilities, IAEA-TM-27236, Vienna International Centre, Vienna, Austria, 7-11 November 2005
18. Stamatelatos IE, Evaluation of low activation materials for fusion, 4th School and Workshop on Fusion Physics and Technology, Department of Mechanical Engineering, University of Thessaly, Volos, Greece, 18 - 22 April 2005