

CURRICULUM VITAE RESUME

NAME PROFESSOR DR TSAGAS NIKOLAOS FOTIOU

CITIZEN AND NATIONALITY : Greek

RELIGION x.o.

WORK ADDRESS Democritus University of Thrace, Department
at Electrical Engineering and Computer Engineering, Laboratory of
Nuclear Engineering. 67100 Xanthi, Greece

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Nikolaos Tsagas on LinkedIn: **CURRICULUM VITAE** of Nikolaos Tsagas

<https://www.linkedin.com/in/nikolaos-tsagas-90027a174/>

HOME ADDRESS: N.E. Katikies, P.O.Box 218,
67100 Xanthi, Greece

PLACE OF BIRTH : Vlasti Kozanis, Greece

MILITARY SERVICE : Topographer in the artillery 1965-1967

MARITAL STATUS : Married, three children

EDUCATION : 1952-1958

HIGH SCHOOL : High School of Ptolemais, Greece.
Exam. Results 1958 Very good

UNIVERSITY DEGREES : a) 1959-1964

Physics Dep., Degree of B.Sc in Physics Honours.

University of Thessaloniki, Greece b) 1971-1974

Ph.D. in Plasma Physics, Electrical Engineering and Electronics
Department, University of Liverpool, U.K

DOCTORAL DISSERTATION : Investigations of Focused Flow Device.

SUPERVISOR : Dr. A. E. Prinn, Electrical Engineering
and Electronics
Department

PREVIOUS APPOINTMENTS AND EXPERIENCE IN CHRONOLOGICAL ORDER:

1967-1970 High School Head Master, Lecturer in Physics and
Mathematics.

1971-1974 Research for Ph.D. on Investigations of Focused Flow
Device and Plasma Diagnostics in the Department of
Electrical Engineering and Electronics, University of
Liverpool.

1974-1975 Research Fellow: Investigations of Electrical Breakdown
Mechanisms in Gases at Very Low Pressures in the

**Department of Electrical Engineering and Electronics,
University of Liverpool.**

**1975-1977 Special Research Assistant: Advanced Research into
Charged Particle Trajectories in Plasma Confinement
Systems in UMIST, University of Manchester, Institute
of Science and Technology, Physics Dept.**

**1977-1980 Assistant Professor in Physics Department,
Alfateh University, Tripoli Libya.**

PRESENT POSITION:

- ♦ **Professor of Nuclear Engineering, since 1980, Department of Electrical Engineering, Chair of Nuclear Engineering and Computer Engineering, Democritus University of Thrace, Xanthi, Greece.**
- ♦ **Director of Nuclear Engineering and Energy Economy Laboratories since 1980.**
- ♦ **Head of the Electrical Engineering Department during 1988 to 1991, Democritus University of Thrace.**
- ♦ **Head of the Section Energy Systems in the Electrical Engineering Department, Democritus University of Thrace, during the Academic years 1986, 1989, 1991, 1992.**

Emeritus Professor of DUTH TODAY

BOOKS:5

- a) **Introduction to Nuclear Engineering**
- b) **Instruments and Experiments in Nuclear Engineering**
- c) **Introduction to Thermonuclear Plasma Technology**
- d) **Dosimetry**
- e) **Applications on Plasma Technology**
- f) **Knowledge with Radioactivity**

**LANGUAGES : Greek mother tongue, English - very good,
German - fair**

HONORARY AWARD, DISTINCTIONS AND SCHOLARSHIPS: 14

An International Gold Medal for Inventors is awarded due to a considerable number of Patents.

International Man of the Year from the International Biographical Center, Cambridge 1991-1992.

International Man of the Year from the American Biographical Institute 1991, 1992, 1993.

Gold Statue from the American Biographical Institute 1994.

Scholarships from Legacy of Baron K. Bellios for Undergraduate and Postgraduate studies.

Scholarships from British council.

Scholarships from German Cultural Organisation DAAD.

Scholarships from International Atomic Energy Agency.
 Scholarships from CERN-Geneva, Switzerland.
 Scholarships from European Community (MOBITY, ERASMUS, COMETT)
 Scholarships from EURATOM for Research in Max-Planck Institute
 für Plasma Garching, Germany.

ACADEMIC COOPERATION 18

1. University of LIVERPOOL and MANCHESTER, U.K.
2. University of BIRMINGHAM.
3. University of LONDON: IMPERIAL COLLEGE and QUEEN MARY COLLEGE.
4. University of GOTEMBERG, Sweden.
5. University of Florida, USA.
6. University of Oxford, U.K.
7. University of Aachen, Germany.
8. Aristoteleion University of Thessaloniki, Greece.
9. University of Patras.
10. National Technical University of Athens.
11. Technical University of Crete.
12. Laboratory of KFA, Julich, Germany.
13. Laboratory of Culham, U.K.
14. Laboratory of Harwell, U.K.
15. Laboratory of ISPRA, Italy.
16. Laboratory of Nuclear Research 'Demokritos'.
17. Laboratory Research Nuclear Reactor, RISLAY, U.K.
18. Laboratory of CERN, Switzerland.

REFERENCES:5

- ♦ Professor J. Lucas, Electrical Engineering and Electronics Dept., University of Liverpool, Liverpool (UK).
- ♦ Professor R.M. Santilli, Professor of Physics, Institute for Basic Research, Florida-USA.
- ♦ Dr G.B. Bishop, Director of Nuclear Eng. laboratory, Mechanical Eng. Dept., University of Liverpool, Liverpool (U.K).
- ♦ Professor M.G. Rusbridge, Head of Department, Physics Department UMIST, Manchester, (U.K).
- ♦ Dr A.A. Newton, Culham Laboratory of the UKAEA, Abingdon, Oxfordshire (U.K).

LIST OF TWENTY SEVEN (27) PATENTS:

1. N.F. TSAGAS, Device Concerned with Earthquake Predictions Greek Patent No. 37.645/9-6-1969.
2. N.F. TSAGAS, Apparatus for Indicating Pneumatic Tire Pressure, United States Patent, 3,390,223, Dec. 30, 1975.
3. N.F. TSAGAS, Device for Measuring the Electrical Capacitance of Small Capacitors, Official Journal of Gr.Br. (Patents), 17 March 1975, p.6002.
4. N.F. TSAGAS, A Device by which the Exact Position of the Rear Wheel can be Constantly Detected on the Cars Wing Mirror, Official Journal of Gr.Br. (Patents) 10 December 1975, p. 46683.

5. N.F. TSAGAS, A Preparation of Grease to Electrical Conductors, Gr.Br. (Patents), 16 March 1975.
6. N.F. TSAGAS and A. STAVRIDES, Cores for Transformers and Electric Motors of any Type. Gr.Br. (Patents) No. 1253 31 August 1978.
7. N. TSAGAS, Published European Patent Application, No 0345 199, 06.12.89, Bulletin 89/49.
8. N.F. TSAGAS, Extraction of Radioactive Isotopes from Organic and Inorganic Products, Greek patent, No 870603/24-4-1987.
9. P.A. ANNINOS and N.F. TSAGAS, An Electronic Device for Smoothing of Central Nervous System Dysfunctions in Conjunction with the Biomagnetometer SQUID, PCT/GR90/00002 International Publication Number wo 91/06341/16.05.91.
10. N.F. TSAGAS, Fire-Fighting Mechanism for Vehicles, Greek patent No 10000248/11-7-91.
11. N.F. TSAGAS, An indicator of the abnormal and normal pneumatic tyre pressure during driving or stopping of a Vehicle, International patent application No PCT/GR92/00001, 06/02/92.
12. F. ANNINOS and N. TSAGAS, Electronic apparatus for treating epileptic individuals, United States Patent, Patent No.5,453,072, Date of Patent: Sep. 26,1995.
13. N.F. TSAGAS, " An indicator of the Abnormal and Normal Pneumatic Tyre Pressure During the Driving or Stopping of a Vehicle", European Patent Office, Directorate General 2, Munchen, allowed for issuance as a patent, No 92904299.2-2306/11.12.95.
14. N.F. TSAGAS, " Indicator of the Air Pressure in the Pneumatic Tires of a Vehicle Based on a Capacitive Coupling ", United States Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks, Washington, D.C. 20231, USA Patent No 5531109/1996, 2 July 1996.
15. ANNINOS PHOTIOS, TSAGAS NICOLAOS and PANAYIOTIS KOUTSIKOS "Electronic Device for Treating Epileptic Individuals", U.S. Patent, Patent No 5,496,258, Mar. 5,1996.
16. N.F. TSAGAS «An indicator of the abnormal and normal pneumatic tire pressure during the driving or stopping of a vehicle» AIPO, Australian Industrial Property Organization, Patent Office, Patent Serial Number 671583/05-09-1996.
17. N.F. TSAGAS, An Indicator of the Abnormal and Normal Pneumatic Tyre Pressure During The Driving or Stopping of a Vehicle, European Patent EP 0550701 B1/16.10.1996. Many Countries have been issued National Patents for the above European Patent.
18. A. IOANNIDIS and N.F. TSAGAS, Σύστημα Εκκενώσεως Εχινόκοκκων και Άλλων Κύστεων GR Π.Υ.Χ. 2001939/23.7.1997.
19. P.A. ANNINOS, N.F. TSAGAS and A.I. PAPASTERGIOU, «Απασβεστοποίηση της Επίφωσης με τη Χρήση Μαγνητικών Πεδίων με Χαρακτηριστικά που Προσδιορίζονται από Βιομαγνητόμετρο SQUID και Ηλεκτρονική Συσκευή που Παράγει τα Μαγνητικά Πεδία», GR Patent N° 1003262/19.11.1999.
20. N.F. TSAGAS and F.N. TSAGAS «Air Pressure Indicator for a vehicle tyre», International Patent B60C 23/04, PCT/GR, International Publication Number WO 00/21764/20.4.2000.

21. N.F. TSAGAS After many years of research, the following results have been achieved:Patents
GR OVI 1008926/ 10-5-2017, an international patent PCT /2016 / 000057 and
US2018/0311594A1 Pub.Date: Nov.12 1, 18. and has been filed for the entry into the national
phase for patent in the following industrialized, countries, EUROPE 16802127.7 RUSSIA
2018119365, USA 2018/0311594A1, Pub.Date : Nov.2018, CANADA, 180427124606309
6804540, April, 27,2018, AUSTRALIA, 2016347197, INDIA 201847012304, From the
examiners, WIPO, PCT, WO, and USA after thorough study of the description, claims, figures
and summary of the documents and the scrutiny (audit), it HAS RECEIVED APPROVAL FOR
INDUSTRIAL PRODUCTION

22. N.F. TSAGAS at all GR OVI 1008926/10-5-2017,

23. N.F. TSAGAS at all GR OVI 1009753/29-5-2020,

24. N.F. TSAGAS _ at all . OBI. GR. 20200100588 / 20.9.2020

25. N.F. TSAGAS at all SOUTH AFRICA 2018/03491,

26. N.F. TSAGAS_at all INDIA Patent No 361382, Application No. 201847012304

27. N.F. TSAGAS DEPOSIT NUMBER 20200100588. APPLIC. DATE 28-09-2020 DEVICE
 FOR THE PRODUCTION OF RADIOACTIVE DRUGS IN COMBINATION WITH OTHER
 MEDICINES FOR NEUTRALIZATION OF KILLING VIRUSES AND SAFE TREATMENT
 OF COVID-19 DISEASE WHICH CAUSED BY THE CORONAVIRUS [SARS-CoV2]
 PROVISION FOR THE PRODUCTION OF RADIO DRUGS IN COMBINATION WITH OTHER
 DRUGS FOR THE NEUTRALIZATION OF KILLING VIRUSES AND SAFE TREATMENT

MEMBERSHIP IN SCIENTIFIC OR PROFESSIONAL INSTITUTIONS-ACADEMIC ACTIVITIES:16

1. Member of the Institute of Physics, 1977 U.K.
2. Member of the Technical Chamber of Greece since 1980.
3. Member of the European Society for Engineering Education, SEFI, 1983.
4. Director of J.S.P. of the European Communities since 1983 for Nuclear Engineering Laboratory of Democritus University of Thrace and Liverpool University. (ERASMUS Programme). 1983-1986.
5. Scientific Director of the Greek Team for the European Educational Programme COMETT in cooperation with Liverpool University, 1987-1989.
6. Scientific Researcher Collaborator in the Department of Electrical Engineering and Electronics, Liverpool University.
7. Scientific Researcher in the Department of Physics, University of Manchester Institute of Technology (UMIST).
8. Scientific Researcher Collaborator in Culham, Plasma Center Laboratory, U.K.A.E.A. Abington, U.K.
9. Privileged Member of Teaching Research Staff, in the Department of Mechanical Engineering, University of Liverpool.
10. Visiting Professor for Educational Topics in the Universities of Birmingham and Liverpool.
11. Representative of the Electrical Engineering Department in the Senate of Democritus University of Thrace for the academic years 1983, 1984, 1992, 1993.

12. Visiting Researcher in the Institute für Reactor-Entwicklung KFA, Jölich, Germany.
13. Visiting Researcher in Max Planck Institute für Plasma Physic, Mönich, Germany.
14. Visiting Researcher at CERN, Radiation Protection Institute, Geneva, Switzerland, 1984.
15. Director of Safety Pressure Indicator Co LTD in U.K.
16. National Evaluator for the European Research Programme MAST 2 in Brussels, November 1991.

TEACHING EXPERIENCE:22

1967-70: During that period I taught Physics, Mathematics and Chemistry in a high School.

1971-74: During that period I demonstrated experiments in electronics to the third year Undergraduate Students in the Department of Electrical Engineering and Electronics, University of Liverpool.

1977-80: During that period I taught three courses to the second, third and fourth year undergraduate students in the Department of Physics, University of Tripoli.

- a) Electricity and magnetism.
- b) Electromagnetic Theory.
- c) Plasma Physics.

1980-2000: During that period I taught two courses to the fifth year undergraduate students, in the Department of Electrical Engineering and Computer Engineering, Democritus University of Thrace.

- a) Introduction to Nuclear Engineering.
- b) Energy Economy.

Also during this period I demonstrated experiments in Nuclear Engineering and I taught Instruments and Experiments in Nuclear Engineering to the same students of the above Department.

1982-2000: During that period I taught three courses to the fourth year undergraduate student in the Department of Electrical Engineering and Computer Engineering, Democritus University of Thrace.

- a) Dosimetry.
- b) Introduction to Thermonuclear Plasma Technology.
- c) Application on Plasma Technology.

1995-2000: During that period I taught two courses to Ph.D. postgraduate students in the Department of Electrical Engineering and Computer Engineering, Democritus University of Thrace.

- a) Plasma and MHD Technology.
- b) Special Topics on Nuclear Engineering.

RESESARCH ACTIVITIES-SCIENTIFIC PROGRAMMES:15

1. Scientific Director of the Greek Team for the European Research Programme MAST I, 1991-1993.
2. Scientific Director for Measuring Radioactivity of East Macedonia and Thrace, 1991-1993.
3. Participation in the Research Programme «Biomagnetic Measurements with SQUID», 1991-1993.
4. Participation for the European Research Programme STRIDE HELLAS-8, 1992-1995.

5. Scientific Director of the Greek Team for the European Research Programme Brite Euram III, 1996-1998.
6. Scientific Director of the European Research Programme CRAFT for Developing my Invention «Pressure gauge indicator», 1999-2001.
7. Scientific Director of the Greek Team for the European Research Programme Brite Euram Thematic Network BET2-550, 1999-2001.
8. Scientific Director for the Research Programme of Radioactivity Measurements with the Title «Searching of Hazardous Radioisotopes in Soil, Water and Food to Prevent Cursed Diseases», 1998-2000.
9. Scientific Director for the Research Programme «Cooperation of Parabolic Solar Collectors with Photo-Voltaics for Electric Energy Production with the use of MHD Generator», 1999-2000.
10. Scientific Director for the Research Programme «Experimental Investigation for Extraction of Energetic Electrons from Nucleus by Bombarding Zn-70 foil with Gamma Ray Photons of the Proper Energy for Electric Energy production, 1999-2000.
11. Scientific Director of the Greek Team in Democritus University of Thrace for the European Research Programme n-TOF for Energy Amplifiers in Cooperation with CERN in Geneva and Other Scientists from All Europe for Clean Energy Production (Invention of Nobelist Carlo Rubbia), 2000-2003.
12. Investigations of a New Heating-Cooling System With Special Fluid Instead of water have been Carried Out for Saving Petrol More Than 40% (Further Research will be improve the method if financial support will be available).
13. Research on Thermonuclear Plasma Technology to control fusion reactions, which will be used as a new inexhaustible and clean energy source.
14. Full Profession at the Institute for Basic Research (IRB), 1994.
15. Elected Member of the Research Committee at the Democritus University of Thrace, 1994-1997.

SUPERVISOR FOR Ph.D. STUDENTS: : Many Ph.D. Students (more than 20) have been supervised in the following fields:10

PLASMA AND MHD TECHNOLOGY

Basic principles of electrodynamics and MHD Plasma Technology in microelectronics, plasma and glow discharges, Ion sources, plasma etching technology, processes in a plasma. Thermonuclear plasma reactors, Propulsion with plasma, MHD generators, other applications.

SPECIAL TOPICS OF NUCLEAR ENERGY

Heterogeneous and reflected nuclear reactors theory, breeder nuclear reactors, multigroup equations, time dependent reactor behavior, heat transfer in reactor engineering fuel cycle, study of neutron physics with Monte Carlo method technology of hadronic energy systems and energy amplifiers.

IONIZING RADIATION AND SHIELDING

Principles of shielding. Basic interactions of radiation with matter. Study of single and multi-layer shielding effectiveness. Dose built up factor calculation Monte Carlo method. Study and modelling of problem geometry, soiling control (radioactivity, electromagnetic fields). Applications.

ENERGY SAVING

Energy economy, renewable energy sources, solar collectors, applications of solar energy, geothermy.

NUCLEAR TECHNOLOGY

Nuclear technology, dosimetry, ionizing radiation and applications, shielding, natural radiation monitoring, environmental protection technology, energy amplifiers, plasma technology, mhd, nuclear waste management, biomagnetic measurements, subnuclear hadronic energy, irradiation technology applications, non-conventional energy production, nuclear resonance.

REFERENCES:5

- ♦ Professor J. Lucas, Electrical Engineering and Electronics Dept., University of Liverpool, Liverpool (UK).
 - ♦ Professor R.M. Santilli, Professor of Physics, Institute for Basic Research, Florida-USA.
 - ♦ Dr G.B. Bishop, Director of Nuclear Eng. laboratory, Mechanical Eng. Dept., University of Liverpool, Liverpool (U.K).
 - ♦ Professor M.G. Rusbridge, Head of Department, Physics Department UMIST, Manchester, (U.K).
 - ♦ Dr A.A. Newton, Culham Laboratory of the UKAEA, Abingdon, Oxfordshire (U.K).
- LIST OF PUBLICATIONS (ΚΑΤΑΛΟΓΟΣ ΔΗΜΟΣΙΕΥΣΕΩΝ) :257**

1. N.F. TSAGAS, Investigations of a Focused Flow Device (Thesis Ph.D, Electrical Engineering and Electronics Department, University of Liverpool, 1974)
2. N.F. TSAGAS and A.E. PRINN, The continuous Flow Pinch for Production of Hot and Dense Plasma, J.Phys. D: Appl. Vol. 9, 1976, p.p. 1963-1969
3. N.F. TSAGAS, One Dimensional Radial Compression Theory in Continuous Flow Pinch, J.Phys. D: Vol. 9, 1976, p.p. 2333-2339.
4. G.L. MAIR, N.F. TSAGAS and A.E. PRINN, Investigation of the Trapping Fraction for a Coaxial Accelerator. Phys. Letters, Holland, Vol. 58A, Number 5, p.p. 315-317, Sept.1976
5. D. BHASAVANITCH, D.PARKER and N.F. TSAGAS, The breakdown Current Measurements in Xenon at low Pressure, The Institution of Electrical Engineers, 1975.
6. N.F. TSAGAS, G.L. MAIR and A.E. PRINN, Retrograde Ionizing Waves in the Co-axial Accelerator. Phys. Letters A, 65A, No 3,6 March 1978.
7. A.E. PRINN, B.W. RICKETTS, N.F. TSAGAS and A. NEWTON, Measurements of Temperatures and Densities in a Continuous Flow Finch, Proceeding of the 5th European Conference in Plasma 1974.
8. N.F. TSAGAS, G.L. MAIR and A.E.PRINN, Motion and Shape of Snowplough Currency in a Co-axial Accelerator, Journal of Physics D: Appl. Phys. Vol. 11, 1978 England.
9. N.F. TSAGAS and M.G. RUSBRIDGE, Motion of Charged Particles Along a magnetic Neutral Line, Drift and Current Flow, Journal Plasma Physics, Vol. 22 pp 925 to 941, May 1979.
10. N.F. TSAGAS and A.E. PRINN, Measurements of Temperatures and Densities in a Continuous Flow Pinch, International Conference at Culham Laboratory, U.K.A.E.A Abington U.K., December 1974
11. N.F. TSAGAS, The continuous Flow Pinch as a Plasma Source, Low Pressure Plasma Meeting in Liverpool, 1976.
12. N.F. TSAGAS, Backward Travelling Waves in Co-axial Accelerator, The third International (Kiev) Conference on Plasma Theory, Trieste, Italy, 5-9 April 1977.
13. N.F. TSAGAS, The effect of Electrode Configuration on Plasma Parameters, 5th Annual Conference of the Plasma Physics Group, St Andrews 29-30.
14. N.F. TSAGAS, Apparatus for Indicating Pneumatic Tire Pressure, United States Patent, 3, 390, 223, Dec. 30, 1975.

15. N.F. TSAGAS, Device Concerned with Earthquake Predictions Greek Patent No. 37.645/9-6-1969.
16. N.F. TSAGAS, Device for Measuring the Electrical Capacitance of Small Capacitors, Official Journal of Gr.Br. (Patents), 17 March 1975, p.6002.
17. N.F. TSAGAS, A Device by which the Exact Position of the Rear Wheel can be Constantly Detected on the Cars Wing Mirror, Official Journal of Gr.Br. (Patents) 10 December 1975, p. 46683.
18. N.F. TSAGAS, A Preparation of Grease to Electrical Conductors, Gr.Br. (Patents), 16 March 1975.
19. N.F. TSAGAS, Annual Report, Culham Laboratory, Pages 32, 1972.
20. A.E. PRINN, B.W. RICKETTS and N.F. TSAGAS, 5th Technical Report, Culham Laboratory, Pages 55, 1972.
21. A.E. PRINN, B.W. RICKETTS and N.F. TSAGAS, 6th Technical Report, Culham Laboratory, Pages 21, 1972.
22. A.E. PRINN, B.W. RICKETTS and N.F. TSAGAS, 7th Technical Report, Culham Laboratory, Pages 17, 1973.
23. A.E. PRINN, N.F. TSAGAS, 8th Technical Report, Culham Laboratory, Pages 22, 1973.
24. A.E. PRINN, N.F. TSAGAS, 9th and 10th Technical Reports, Culham Laboratory Pages 15 and 23, 1974-1975. (In Cooperation with G.L.ROBERTSON-MAIR).
25. N.F. TSAGAS and A. STAVRIDES, Cores for Transformers and Electric Motors of any Type. Gr.Br. (Patents) No. 1253 31 August 1978.
26. A.M. YOUSSEF, A.A. ZAKI, N.F. TSAGAS and M.M. MASAUD, A study of Intermixing Mechanism of a trapped Magnetic Field Developing in a Thetatron Discharge. Sixth International Conference on GAS Discharges and Their Applications Sept. 1980.
27. N.F. TSAGAS and G.B. BISHOP, Evaluation of Weakening in Concrete Shields of Double Right-Angled Ducts Throught Concrete, Second International Symposium on Radiation Physics, School of Physics, University Sains Malaysia, Minden, Penang, Malaysia, May 1982.
28. A.JANNUSSIS, A.LEODARIS, P.FILIPPAKIS, V.PAPATHEOU, P.SIAFARIKAS, V.ZISIS, N. TSAGAS Damped and Coupled Oscillators. Hadronic Journal 7 pp 1515, 1984.
29. A. JANNUSIS, A. STRECLAS, A.LEODARIS, N.PATARGIAS, V.PAPATHEOU, P.FILIPPAKI, T.FILIPPAKIS, V.ZISIS, N.TSAGAS Some Remarks on the Caldirola - Montaldi Equalion, Let. - Al Nuovo Cimento Vol 34, 571, 1982.
30. A. JANNUSIS, G. BRODIMAS, D.SOURLAS, A. STRECLAS, P. SIAFARICAS, L.PAPALO CAS, N. TSAGAS. Foundations of the Lie-Admissible Fock Spuce of the Hadronic Mechanics. Hadronic Journal, Volume 5, October 1982.
31. G.B. BISHOP and N.F. TSAGAS. Doserate characteristics for 6.2 MeV source photons penetrating cylindrical ducts in concrete shields, 7th Inter. Congr. of Radiation Research, Amsterdam (1983).
32. N.F. TSAGAS, G.B. BISHOP, Scalar Flux Spectra for 6.2 Mev Source Photons Penetrating Cylindrical Ducts in Concrete Shields. Annals of Nuclear Energy. Oct. 1983.
33. I. KAPPOS, G.B. BISHOP, N.F. TSAGAS, Benchmark Data for 1,43 MeV γ -Rays Penetrating Pb, Stell, Al and Graphite shields. Annals Nuclear Energy, Vol. 13, No. 9, pp. 511-521, 1986.
34. I. KAPPOS, G.B. BISHOP, N.F. TSAGAS, Penetration of 2.75 MeV γ -Rays Through Shielding Slabs of Graphite, Al, Steel and Pb., Annals of Nuclear Energy, Vol.18, No 10, 1986, p.p. 559-573.

35. N.F. TSAGAS, I. KAPPOS and G. ANDREOU, Benchmark Data for γ -Rays Emitted by a Na Source, Penetrating Graphite, Al, Steel and Pb Shields. *Ann. Nucl. Energy*, Vol. 15, No 1, pp. 17-26, 1988.
36. N.F. TSAGAS, I. KAPPOS and G. ANDREOU, Benchmark Shielding Experiments for Gamma Rays Emitted by Sodium - 24 penetrating Lead, Steel Aluminium and Graphite Shields, IAEA-SM-291 Athens, Greece, 8-12 Sept. 1986.
37. P.A. ANNINOS, P. ANASTASIADIS and N.F. TSAGAS, Biomagnetic measurements using the bio-magnetometer SQUID, *Proceedings of the International Kongress de Gesellschaft Matrix Forschung Conference Wittmund*, 13-18 October 1988.
38. N.F. TSAGAS, H. EULEBERG, G. WAIDMANN, Magnetic Field Measurements in TEXTOR by Calibrated Hallgenerators Probes, IR, IPP, KFA, Julich, 1988.
39. P.A. ANNINOS, N. TSAGAS, Localization and Cure of Epileptic Foci With The Use Of MEG Measurements, *Intern. J. Neuroscine*, 1989, Vol. 46, pp 235-242.
40. F. TERVISIDIS, N. TSAGAS and J.C. BATES, Development of an Isotopic Velocity Distribution in Stored Ultracold Neutrons and its Effect on the Measurement of Neutron Lifetime. A Computational Study, *Nuclear Instruments and Methods in Physics Research*, A285 (1989) 431-435.
41. P.A. ANNINOS, N. TSAGAS, An Electronic Device For Smoothing of the Central Nervous System Dysfunctions in Conjunction with the use of the Biomagnetometer SQUID, Greek Patent No 1000002, 24-8-1989.
42. N. TSAGAS, Published European Patent Application, No 0345 199, 06.12.89, Bulletin 89/49.
43. ANNINOS, P.A., TSAGAS, N., ADAMOPOULOS, A., A brain model theory for epilepsy and its treatment : experimental verification using SQUID measurements. *Models of Brain Function*, R.M.J. Cotterill [Ed.], Cambridge University .[1989]
44. F. TERVESIDIS, N. TSAGAS and J.C. BATES, Filling Characteristics of a Neutron Bottle, *Physics Letters A*, Vol. 148, No 1,2., 06-08-1990.
45. R. SANDYK, P.A. ANNINOS and N. TSAGAS, Magnetic fields and Seasonality of Affective Illness: implications for Therapy, *Intern. J. Neuroscience*, Vol. 58, pp. 261-267, 1991.
46. R. SANDYK, P.A. ANNINOS and N. TSAGAS, Age-related disruption of circadian rhythms: Possible relationship to memory impairment and Implications for therapy with magnetic fields, *Intern. J. Neuroscience*, Vol. 59, pp. 259-262, 1991.
47. P.A. ANNINOS, N. TSAGAS, R. SANDYK and K. DERPAPAS, Magnetic stimulation in the treatment of partial seizures, *Intern. J. Neuroscience*, Vol. 60, pp. 141-171, 1991.
48. R. SANDYK, P.G. ANASTASIADIS, P.A. ANNINOS, N. TSAGAS, Is postmenopausal osteoporosis related to pineal gland functions? *Intern. J. Neuroscience*, Vol. 62, 215-225 1992.
49. R. SANDYK, P.G. ANASTASIADIS, P.A. ANNINOS and N. TSAGAS, The pineal gland and spontaneous abortions: Implications for therapy with melatonin and magnetic field, *Intern. J. Neuroscience*, Vol. 62, 243-250, 1992.
50. N.F. TSAGAS, Extraction of Radioactive Isotopes from Organic and Inorganic Products, Greek patent, No 870603/24-4-1987.
51. P.A. ANNINOS and N.F. TSAGAS, An Electronic Device for Smoothing of Central Nervous System Dysfunctions in Conjunction with the Biomagnetometer SQUID, PCT/GR90/00002 International Publication Number wo 91/06341/16.05.91.
52. N.F. TSAGAS, Fire-Fighting Mechanism for Vehicles, Greek patent No 10000248/11-7-91.
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233 P. Anninos^{1*}, A. Adamopoulos¹, A. Kotini¹, N. Tsagas²
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234 P. Anninos^{1*}, A. Adamopoulos¹, A. Kotini¹ and N. Tsagas²
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Pico-Tesla Transcranial Magnetic Stimulation in Cerebral Atrophy Patients

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238 P Anninos¹*, A Adamopoulos¹, A Kotini¹ and N Tsagas²

Pico-Tesla TMS on Head Injury Patients with A Double Bind Experimental Design. A MEG study

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**239 Photios Anninos^{1*}, Adam Adamopoulos¹, Nicolia
Anninou¹, Ioannis Tsagas¹ and Nicolaos Tsagas²**

**The Proper Function of Pineal and Thymus Glands to Control
Foreign Organisms Acting on Human Brain Published in the
scientific journal EC NEUROLOGY Mini Review,
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the following patents have been approved and fruitful
results have been achieved, 1) Greek 2) international
(ia), wipo wo, industrial, applicability (pct) (in Geneva
for 136 countries) 3) usA 4) South Africa.5) Brazil The
following patents are expected to be approved soon by
the seven (7) largest countries in the world. 1) Europe, 2)
Russia, 3) Canada, 4) Australia, 5) India, 6) China and 7)
Philippines,. Soon, with the patents, an industry with a
global monopoly will be created for 20 years. publication
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**240 The Proper Function of Pineal and Thymus
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and Nicolaos Tsagas²**

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From the examiners, WIPO, PCT, WO and after a thorough study of the description, the claims, the figures and the summary of the documents and the control (control), it received approval for industrial production.

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