

Dr. Athanasios K. Stubos

The present document summarizes the activities and career of Dr. Athanasios Stubos in the academic and research area. For this purpose the remaining pages include:

- Curriculum Vitae presenting information on the education, academic and professional experience, research projects and external funding, publications and citations, teaching experience, supervision of undergraduate and graduate students, other scientific activities, patents, prizes and distinctions.
- Table with the running and completed research projects (as Coordinator, Scientist in Charge or Participating Researcher) and the corresponding external funding.
- List of Publications including articles in refereed journals, chapters in books, papers in conference proceedings, conference presentations, dissertations and technical (contract) reports.
- Table with details on citations (excluding self-citations).

The broad thematic areas of the published works and the research projects provide the general framework of the scientific activities:

(i) Theoretical and experimental investigation and enhancement of fluid dynamic processes: Energy and Environmental applications (Nuclear Safety, Hydrogen Technologies, Passive Solar Systems, Energy Efficiency, Oil & Gas Technologies, Underground Reservoirs, Phase Change Processes, etc.)

(ii) Nanostructure characterization and evaluation of transport properties of nanoporous materials. Correlation of microstructure and macroscopic transport properties of nanoporous media: Energy, Environmental and Bio-pharmaceutical Applications (Gas Sorption, Hydrogen Technologies, Membrane Technologies for Energy Efficiency, etc.)

(iii) Systems for the Controlled Release of Active Substances

Apart from the above, some additional issues of interest are discussed below:

1. Directing a Laboratory / Research Group

The Environmental Research Laboratory (EREL) of the Inst. of Nuclear Technology and Radiation Protection (INT-RP) of the National Research Center Demokritos which Dr. Stubos directs since 2001 has achieved considerable progress and growth in recent years with regard to the production of original scientific work (more than 25 journal papers per year on the average), the execution of externally funded R&D projects in collaboration with academic and industrial research units in Greece and (mainly) abroad, the development of large scale experimental and computational facilities as well as the provision of advanced services to third parties (Greek and European private and public organizations). The average annual turnover (external funding) in the period 2002-2011 exceeds 600,000 Euro. Back in 2001, when Dr. Stubos became Head of the Laboratory, EREL staff consisted of 1 researcher and 7 scientists on contracts. Today EREL includes 7 permanent researchers, 5 other permanent scientists (holders of PhD or other postgraduate titles) and employs several researchers on contract, postgraduate students and technical / administration staff (in total EREL staff exceeds today the number of 25). The Laboratory possesses powerful

computational infrastructure producing in-house CFD software tools (ISO 9001 in developing CFD software for atmospheric applications) and providing advanced services internationally. It also possesses a fully equipped lab unit for the measurement / analysis of gas pollutants (accredited according to EN 17025) and the characterization of nano-materials (advanced gas sorption facilities). An important aspect is the provision of specialized services towards private and public entities of the country (Athens Int. Airport, SHELMAN, Interchem, Vivechrom, Hellenic Railways, Ministry of Environment, Cement industry, Hellenic Aluminum Industry, etc) and abroad (ERM Hong Kong, IFE Norway, etc).

As a result of its efforts for excellence, EREL has been recently awarded by the EC with a research grant in the frame of the RegPot program (to enhance further its R&D potential and infrastructure).

INT-RP as part of the National Research Center Demokritos has undergone two independent evaluations by international committees over the last years. Selected excerpts (concerning EREL) from the respective evaluation reports are provided below.

Evaluation of September 2005

This evaluation was the official “Research Assessment Exercise” organized by the General Secretariat for Research and Technology (GSRT), of the then Greek Ministry of Development. The Evaluation Committee was: Prof. J.D. Jackson (The University of Manchester, UK), Prof. M. Ricotti (Dept. of Nuclear Engineering, Politecnico di Milano, Italy), Prof. G. Curzio (Dept. of Mechanical and Nuclear Engineering, University of Pisa, Italy) and Prof. J. Vujic (Dept. of Nuclear Engineering Univ. of California, Berkeley, USA). Extracts from the Evaluation Report¹ of the Institute are given below:

The Environmental Research Laboratory is one of the major contributors to the output of scientific publications from the Institute and, at the same time, one of its major contributors in terms of funding. The average age of its personnel is low and is mainly made up of young and highly motivated people (6 PhDs have been hired as permanent staff in recent years). It successfully carries out both theoretical and experimental research and also provides services for industry and the private sector. It was born as a “scientific spin-off” of nuclear technology and now develops research in the important fields of energy and the environment. The high level of visibility and credibility of the laboratory at international level is demonstrated that its leader is acting as the coordinator of five EU projects and consortia involving research organizations and industries. The topics range from the development of state-of-art modelling and related software for atmospheric dispersion of pollutants, which leads also to the commercial exploitation of the CFD tools produced in the course of research, to the study of porous media for hydrogen storage (including nanoporous materials) and the structural and dynamic characterization of biological systems. It has a fully equipped laboratory for pollution measurements. The dynamism of the group is demonstrated by the wide spectrum of topics it covers in its publications.

¹ Report : “Final report of the evaluation committee submitted to the General Secretariat of Research and Technology in the Greek Ministry of Development on the evaluation of the Institute of Nuclear Technology and Radiation Protection within the National Center for Scientific Research “Demokritos””.

Amongst the sections which it has visited the Committee wish to recommend rewarding two particularly successful research ones, the Environmental Research Laboratory and the Research Reactor Laboratory, bearing in mind that they were able to increase the funding they receive from competitive programs and increase the scope of services they provide to the public and private sectors, whilst at the same time succeeding in increasing their output of high quality publications and international visibility.

Thematic report concerning excellence within the Institute of Nuclear Technology and Radiation Protection (INT-RP).

Having participated in the recent review of INTRP and studied the documentation provided, it is clear to us that one group of researchers stands out in terms of clearly displaying excellence and, consequently, deserves to be rewarded financially. This is the Environmental Research Laboratory of INT-RP.

Evaluation of December 2004

This evaluation has been organised internally by NCSR Demokritos. The scientific evaluation is described in the report entitled “Report on the Scientific Committee for the Evaluation of the Institute of Nuclear Technology and Radiation Protection (INTRP)” submitted to the Director of NCSR Demokritos. Extracts from the Evaluation Report are given below:

“The following scientific evaluation was prepared by a Committee composed of Prof. Marzio Marseguerra (Politecnico di Milano), Prof. Michel Giot (Université Catholique de Louvain), Dr. Michel Reocreux, (Institut de Radioprotection et de Sûreté Nucléaire - IRSN) and Prof. em. George Yadigaroglu (Swiss Federal Institute of Technology-Zurich - ETH).

The Committee has convened at the NCSR Demokritos on December 9 and 10, 2004 and evaluated the Institute of Nuclear Reactor Technology and Radiation Protection, following the instructions given to it by the Director of NCSR Demokritos.

“The Environmental Research Laboratory of INT-RP uses its know-how and experience in Computational and Experimental Fluid Dynamics for the resolution of a diversity of environmental and energy-sector problems (e.g., hydrogen technology, atmospheric pollutant dispersion, simulation of underground reservoirs). It is a very dynamic and entrepreneurial young group that has international visibility and has been very successful in attracting projects and external funding, in particular EU funds and in publishing extensively in an impressive array of journals. One of their products, the computational package ADREA-HF has become accepted for use in the EU for safety assessment of hydrogen applications. It also possesses state-of-the-art equipment for on-site and off-site pollutant measurements. In spite of its excellence, the section is threatened by the volatility of EU funding and programs.”

Environmental Research Laboratory (EREL) indicators over the period 2004-2011

The R&D potential of EREL can be summarized based on the evolution of a number of indicators over the last eight-year period (2004-2011).

Publications

The number of publications by EREL R&D staff in international peer-reviewed scientific journals and conferences is shown below in Fig. 1. A notable increase of the

journal articles is observed for the last three years (2009-2011). Indeed, the EREL personnel has been producing constantly more than 20 publications per year in refereed scientific journals until 2008 (average just below 24/year for the period 2004-2008) and more than 30 papers in conference proceedings. Over the last 3-year period (2009-2011), the number of journal publications has markedly increased from the minimum value of 2009 to above 35 for the years 2010 and 2011. In parallel, the ISI Impact Factor of these publications also shows a constant increase and its average (total impact factor divided by the number of papers) is consistently around 2.3 over the last three years in comparison to an average of 1.47 in the period before 2009.

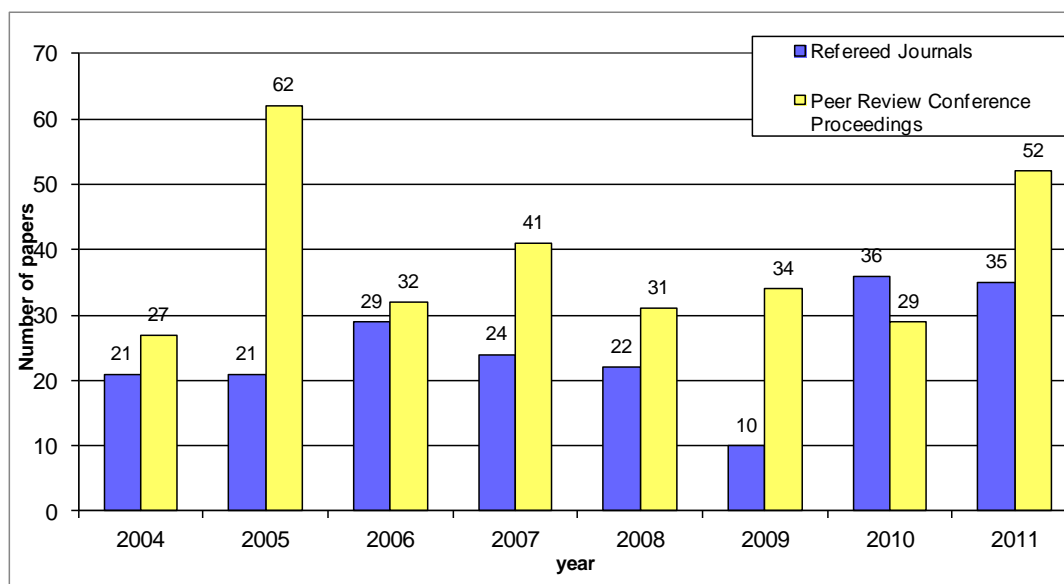


Fig. 1: Number of papers published by EREL personnel

External Funding: R&D projects, services and government (matching) funds

EREL can in principle be considered as financially healthy. In general, the annual average of the attracted total external funding consistently exceeds 600,000 Euro over the last years (Fig. 2). More specifically, external funding from competitive research activities reached the amount of 632,000 Euro in 2009 and has stabilized ever since at similar levels. The other two major funding sources (services to third parties and matching funds) also shown in Fig. 2, come from within the country (various organizations and General Secretariat for Research and Technology, respectively) and are thus strongly influenced by the circumstances created by the severe economic crisis that hit Greece as of 2008. Concerning R&D services (indoor / outdoor air pollution, gas sorption in solid samples, hydrogen safety studies, etc) offered by EREL to public and private entities (mainly within Greece), it is observed that they remain at a satisfactory level despite their relative decrease compared to the period 2006-2008. On the other hand, the matching funds provided by the government (out of which 30% was allocated to EREL, the rest being forwarded to the Center and the Institute) have practically dropped to very low amounts recently reflecting the dramatically reduced ability of the state to support R&D efforts. The effort presently focuses on the sustainability of the current level of activity and funding.

Other research and training activities

In the period 2005-2008, the following have been awarded for research conducted at EREL facilities:

- 3 Doctorate Degrees
- 3 Postgraduate Diplomas
- 7 University Diploma Theses

Over the last three years (2009-2011), the respective numbers are:

- 6 Doctorate Degrees
- 4 Postgraduate Diplomas
- 4 University Diploma Theses

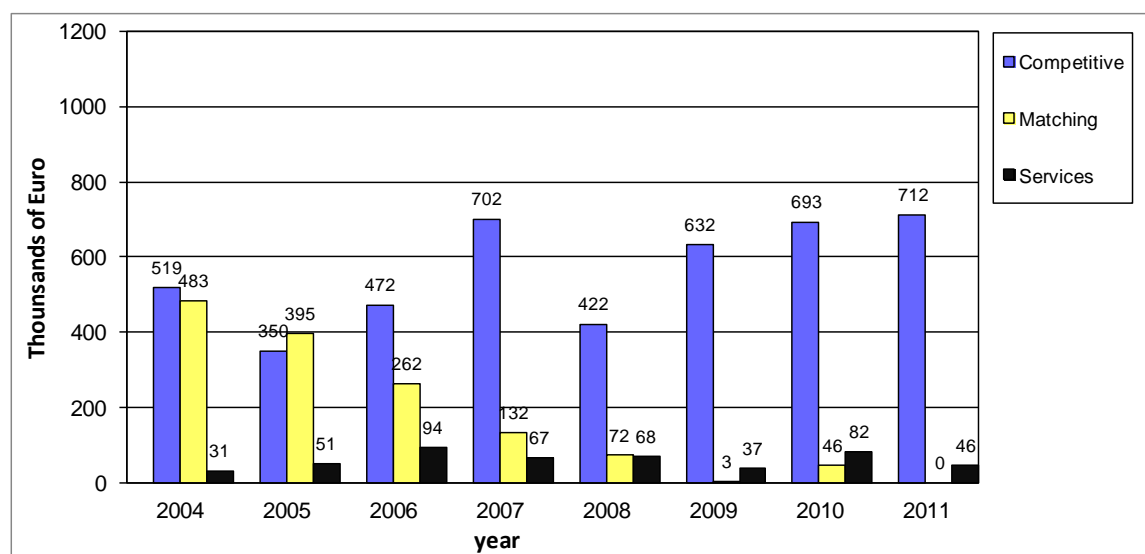


Fig. 2: EREL external funding from different sources

The EREL scientific staff assists in the review process of several international journals (Atmos. Environ., Bound. Layer Meteor., Chem. Eng. Comm., Int. J. Energy Research, J. Interf. Colloid Sci., J. Investigative Dermatology, J. Hazardous Mater., J. Heat Trans., JAWMA, Langmuir, Envir. Sci. Techn., JACS, Microporous & Mesoporous Materials, J. Phys. Chem., Int. J. Hydrogen Energy, Applied Physics, etc).

EREL has been awarded with ISO 9001 for software development and use in atmospheric applications, as well as with accreditation according to EN 17025 for specific gas pollutant measurements (volatile organics, PAHs). It has also been accredited under the terms of ELOT EN ISO/IEC-17025 for sampling and measurement of particulate matter (PM10) in gaseous samples.

EREL staff participates in the organization of international conferences and workshops and is repeatedly invited (as external experts) by the EC and other organizations (US-DoE, French and Italian research authorities) for the evaluation of R&D proposals and monitoring of R&D projects and as keynote speakers in several international conferences.

In the above context, the Laboratory has had the following recent distinctions:

Participation in European Committee for Standardization (CEN)

Active membership of EREL in CEN/TC264/WG15 (Ambient Air - Reference gravimetric measurement method and equivalence procedure for the determination of the PM_{2.5} microns mass fraction of suspended particulate matter).

The European Committee for Standardization (CEN) is a major provider of European Standards and technical specifications. It is the only recognized European organization according to Directive 98/34/EC for the planning, drafting and adoption of European Standards in all areas of economic activity with the exception of electro-technology and telecommunication. CEN's 31 National Members work together to develop voluntary European Standards (ENs). These standards have a unique status since they are also national standards in each of its 31 Member countries. With one common standard in all these countries and every conflicting national standard withdrawn, a product can reach a far wider market with much lower development and testing costs.

Member of the European Hydrogen and Fuel Cell Facility (H2FC)

The Laboratory has been invited to become part of the European Hydrogen and Fuel Cell Facility (H2FC). The relevant proposal to the European Commission has been approved and, as a result, EREL is presently one of the major European nodes for hydrogen storage measurements in solid materials providing transnational access to its facilities for sample testing, etc.

H2FC involves (besides storage) a number of other major facilities related to hydrogen production and safety, fuel cells durability and material testing that are spread throughout Europe and serve the purpose of assisting in the development and market deployment of hydrogen and fuel cell technologies for stationary and mobile applications.

Further EREL activities

Submission of proposals

A substantially enhanced number of proposals have been submitted over the last three years with the participation of EREL to both national and international funding agencies. The majority of the proposals deal with collaborative R&D projects in the two major fields addressed by PERL, namely Environment (Air Quality) and Energy (Hydrogen Technologies), and involve consortia consisting of research groups and industrial partners. They have been mainly submitted to the European Commission FP7 and the Greek Secretariat for Research and Technology but also to other public and private organizations like the US-DoE, the Abu Dhabi National Oil Company (ADNOC), the Region of Attica, the Ministry of Environment, Energy and Climate Change (Greece), etc.

Expansion of R&D activities

Over the last period, it has become evident that the new capabilities and tools of the Laboratory may serve nicely the expansion of its activities toward interesting directions such as safety / security (pollutant / toxic gas dispersion, risk assessment), climate change effects and mitigation, metal hydride compressors, etc. These spinoffs are well within the reach of the EREL staff and are currently pursued further in cooperation with partner organizations within and outside Greece. It is evident that such activities may provide clear opportunities for sustaining the created infrastructure in the coming periods.

2. Collaboration with Academic and Industrial Research Groups

As it is shown by the attached list of research projects and external funding, close collaboration has been developed over the last years with a large number of research centers, universities and industry (mainly at European level). From those R&D groups, we mention indicatively a few with which common publications exist: Imperial College, University of Southern California, University of Newcastle, University of Bordeaux, IFE (Norway), IPGP (France), HMI (Germany). We also wish to stress the cooperation with energy industries (Johnson Matthey, Air Liquide, Statkraft, ABB, Public Power Corporation (Greece), Statoil, Norsk Hydro, BP, Amerada Hess, IFP), chemical (Interchem) and pharmaceutical industry (Lavipharm), environmental authorities (SFT, Norway), and more recently automotive industry (Daimler, Magna-Steyr) in the field of hydrogen storage.

3. Coordination of Large R&D Projects

EREL and in particular Dr. Stubos coordinates for a number of years several European consortia and projects. Worth mentioning is the coordination of the FP6 Integrated Project NESSHY (Novel Efficient Solid Storage for Hydrogen) with a total budget exceeding 11.5 MEuro and the participation of 22 academic and industrial partners from Europe and USA. Overall Dr. Stubos has coordinated more than 12 international consortia of industrial and research groups (in the framework of the 4th, 5th, 6th and 7th FPs of the EC). It is also important to stress the fact the EREL carries out R&D projects that have been awarded to the Lab by overseas organizations like the Department of Energy (USA) and ERM – Hong Kong. The subject of these projects is related to energy and environment (hydrogen technologies, energy efficiency, characterization of underground reservoirs, oil & gas technologies, safety of hydrogen applications, etc).

4. Management Experience – Evaluation of R&D Projects and Programs – National Representations

As of August 2010 Dr. Stubos has been appointed Vice President of the Center for Renewable Energy Sources (CRES).

Dr. Stubos directs (as of 2001) the Environmental Research Laboratory of the Inst. of Nuclear Technology and Radiation Protection (INT-RP) of the National Research Center Demokritos. In the period 3/2009 – 3/2010) he also acted as the Vice Director of INT-RP. He is a member of the Scientific Advisory Board of the Institute and of the Research Committee of the Center. For a number of years Dr. Stubos is an invited expert evaluator of R&D projects and programs on behalf of the EC, US Department of Energy (US-DoE), NSF (USA) and National and Regional R&D authorities in France, Italy, Cyprus and Greece. He has also undertaken on behalf of the EC activities to promote the cooperation between Europe and member states of the International Partnership for the Hydrogen Economy (mainly USA, China, Russia) and of the International Energy Agency (IEA) on hydrogen storage technologies. It is noted that Dr. Stubos co-represents Greece to Task 22 of the Hydrogen Implementing Agreement of IEA. Recently (2009) the Lab has been awarded with one of the few R&D grants that DoE allocates to non-USA partners. In the past Dr. Stubos has acted as National Representative at ACPM (Advisory Committee for Project Management)

of DG Transport & Energy of the EC while recently (Dec. 2010) he has been appointed as National Representative at the Joint Undertaking Initiative for Fuel Cells and Hydrogen of the DG Research of the EC.

5. Use of Large Scale Facilities

As indicated by the R&D work performed at EREL, attention is paid to the support of the theoretical (computational) activities and the related simulations through comparisons with experimental data from facilities developed within the Lab or accessed by the Lab staff via visits to other organizations. In that respect, it is worth noting the use of large scale facilities (besides the EREL own equipment) such as supercomputing centers, neutron scattering facilities, advanced analytical and characterization equipment, etc for the investigation of transport phenomena in porous materials at institutions like the University of Edinburgh, HMI (Berlin), IFE (Norway), SwRI (Texas), JRC (the Netherlands), etc.

CURRICULUM VITAE

I. GENERAL

Surname: STUBOS
Name: Athanasios
Date of Birth: 07/09/1960
Place of Birth: Kalamata, Greece
Family status: Married with two children
Telephone: +30 210 6503754 (office) and +30 6944880364 (mobile)
e-mail: stubos@ipta.demokritos.gr

II. EDUCATION

April 1990 Ph.D. in Applied Sciences
von Karman Institute for Fluid Dynamics, Univ. Libre de Bruxelles,
von Karman Institute Fellowship
Highest Distinction
July 1985 Postgraduate Diploma in Fluid Dynamics,
von Karman Institute for Fluid Dynamics,
Department of Environmental and Applied Fluid Dynamics,
von Karman Institute Fellowship (Ranking: 1st /35)
von Karman Prize 1985
March 1984 Dipl. Chemical Engineering, National Technical Univ. Athens,
Grade: 8.6/10, Ranking: 5th /100

III. ACADEMIC & PROFESSIONAL EXPERIENCE

10/2013 – today **Director, Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety (INRASTES), National Research Center Demokritos, Greece**

4/2014 – 4/2015 **Vice President of the National Research Center Demokritos, Greece**

8/2010 – 2/2013 **Vice President of the Center for Renewable Energy Sources (CRES), Greece**

3/2009 – 3/2010 **Vice Director of the Inst. of Nuclear Technology and Radiation Protection (INT-RP) of the National Research Center Demokritos**

10/2001 - today **Research Director, Head of the Environmental Research Laboratory, Inst. of Nuclear Technology and Radiation Protection, National Research Center Demokritos**
Hydrogen storage technologies. Simulation of multiphase flow and heat & mass transfer in nanoporous media with applications in membrane and activated carbon technology (gas separations), enhanced oil recovery, environmental technologies (sorption of pollutants), biomaterial characterization, nuclear reactor safety, characterization of underground reservoirs and soil decontamination.
Coordinator of European consortia with significant external funding (see below). Supervision of postgraduate students.

- 7/95 – 10/01 **Senior Researcher, Environmental Research Laboratory,
Inst. of Nuclear Technology and Radiation Protection,
National Research Center Demokritos**
Transport phenomena in nanoporous media with applications in ceramic membrane technology, characterization of nanomaterials, enhanced oil recovery, nuclear reactor safety, soil decontamination and cooling of electronic systems. Tracer technology and applications in characterization of hydrocarbon reservoirs. Gas sorption processes. Industrial R&D on transdermal drug delivery system development.
Coordinator of European consortia with significant external funding (see below). Supervision of postgraduate students.
- 3/93 - 6/95 **Research Associate, Institute of Physical Chemistry,
National Research Center Demokritos**
Externally funded Industrial R&D on simulation of capillary condensation and flow in nanoporous membranes, activated carbon filters, active substance diffusion in the skin. Preparation of R&D proposals and submission for funding in collaboration with academic and industrial research groups (BRITE-EURAM, ENVIRONMENT, SMT, JOULE, LIFE, Sfs, IAEA, EPET etc). Supervision of postgraduate students.
- 4/92 - 6/95 **Researcher - Consultant
Institute of Mechanics of Materials and Gestructures SA, Greece**
Participation in R&D projects (BRITE-EURAM, STRIDE, BCR) with emphasis on testing of advanced materials under high temperatures, development of piezo-actuators and safe transmission of pressure using ceramic particles.
Preparation of R&D proposals and submission for funding in collaboration with academic and industrial research groups (Aerospatiale, DASA, Agusta, BAM, Imperial College, TU Clausthal, etc). Part of the work on safe transmission of pressure using ceramic particles has been filed for patent protection (see below).
- 11/91 - 3/93 **Research Assistant (Military Service)
Army Research and Technology Center**
Characterization and testing of activated carbon. Advanced materials (Kevlar).
- 2/91 - 7/91 **Visiting Research Associate
University of Southern California, Chemical & Petroleum Engineering
Dept., USA**
R&D in collaboration with oil companies (Texaco, Chevron):
- Boiling and Vapour-Liquid Flows in Porous Media
- Countercurrent Flows in Geothermal Systems
- Oil Displacement by Steam in Hele-Shaw Cells
- 4/90 - 1/91 **Post-doctoral Research Fellow
von Karman Institute for Fluid Dynamics, Belgium
Department of Environmental and Applied Fluid Dynamics**
Industrial R&D contracts (BPD, Italy; Glaverbel, Belgium):
- Fluid Dynamic/Acoustic Coupling in Solid Fuel Rocket Motors
- Evaporation of Droplets Impinging on Hot Surfaces
Teaching of postgraduate courses and supervision of postgraduate students.
- 10/85 - 3/90 **Research Associate
von Karman Institute for Fluid Dynamics, Belgium**

Department of Environmental and Applied Fluid Dynamics

Experimental and theoretical work on nuclear reactor safety (LMFBR and PWR). Also work on:

- Two-Phase Flow and Heat Transfer in Porous Media
- Mitigation of Toxic Gases Using Liquid Sprays
- Droplet Removal from Fuel Cell Hydrophobic Surfaces

Teaching of postgraduate courses (Advanced Experimental Techniques; Methodology of Applied Fluid Dynamics). Laboratory demonstrations for Unsteady Pressure Measurements.

10/85 - 10/88

**Analyst for the Post Accident Heat Removal programme
Centre d' Etudes Nucleaires, CEN/SCK Mol, Belgium**

Active participation in the preparation, simulation, execution and interpretation of large scale nuclear safety experiments (Post Accident Heat Removal) that took place in the BR2 reactor of the Mol Nuclear Center.

9/86 - 6/87

**Advanced Physics Instructor
St. John's International School, Brussels**

5/84 - 7/84

**Research Assistant (Short Training Programme)
von Karman Institute for Fluid Dynamics, Belgium**

Numerical simulation: Thermohydraulics of Liquid Saturated Porous Beds and Application in Nuclear Safety of LMFBR.

6/83 - 8/83

**IAESTE Trainee
Twente University of Technology, the Netherlands**

Computational study on Biomass Gasification Processes.

6/82 - 8/82

**IAESTE Trainee
EXXON Refinery, Antwerpen, Belgium**

Training on the separation processes taking place in the refinery.

IV. EXTERNAL FUNDING – R&D PROJECTS (see also attached list of projects)

The total external funding attracted since 1995 from various sources (period in which Dr Stubos served as Researcher at NCSR Demokritos) exceeds the amount of 7.5 MEuro (net income for NCSR Demokritos).

In summary:

Project Coordinator of 2 National and 13 European research projects (4th, 5th, 6th and 7th Framework Programs) (13 already successfully completed) with funding from the European Commission (EC) and the General Secretariat for Research and Technology (GSRT) (more details in the attached list).

Scientist in Charge at NCSR Demokritos for 9 national and 8 international research projects (5th, 6th and 7th Framework Programs of EC, US-DoE Hydrogen Program) (14 already successfully completed) with funding from the European Commission (EC), the US-DoE, the Qatar National Research Foundation (QNRF) and the General Secretariat for Research and Technology (GSRT) (more details in the attached list).

Participating Researcher at NCSR Demokritos in 20 R&D projects (14 already successfully completed) with funding from the European Commission (EC) and the General Secretariat for Research and Technology (GSRT) (more details in the attached list).

Participation in externally funded research projects at the University of Southern California (USA) in collaboration with oil companies (Texaco, Chevron) on:
Boiling and Vapour-Liquid Flows in Porous Media; Countercurrent Flows in Geothermal Systems; Oil Displacement by Steam in Hele-Shaw Cells.

Participation in externally funded research projects at VKI (Belgium) in the framework of industrial R&D contracts with the Nuclear Center of Mol and companies like BPD (Italy) and Glaverbel (Belgium) on:
Nuclear Safety – Post Accident Heat Removal; Fluid Dynamic/Acoustic Coupling in Solid Fuel Rocket Motors; Evaporation of Droplets Impinging on Hot Surfaces.

V. PUBLICATIONS (see attached list of publications)

Refereed international journals:	151
Chapters in Books:	24
Conferences:	207 (out of which 100 in conf. proceedings and 107 conf. presentations)
Other (dissertations, reports):	14

IMPACT FACTORS: As indicated in the attached Table, the average impact factor per journal publication is 2,807 (total impact factor divided by the number of journal publications).

Invited lectures: The most recent ones include: Univ. Crete (Dept. Material Science and Dept. Chemistry), Univ. Maryland (USA), 2009 Gordon Research Conference on Hydrogen-Metal systems (July 2009, Barga, Italy), Expert Meeting of the International Energy Agency, European Hydrogen Program Review Days (Brussels), Petroleum Institute Abu Dhabi, II Int. Conf. "Hydrogen Storage Technologies" (Moscow, 2009), several workshops in Europe, China, USA, etc.

VI. CITATIONS AND h-FACTOR (source: SCOPUS, September 2015)

In total: 2528 citations (h factor = 26)

Excluding self citations of the author: 2262 citations (h factor = 24)

VII. TEACHING EXPERIENCE

NCSR Demokritos

Post graduate course: "Transport Phenomena in Porous Media" (2000 – 2002).

Post graduate course: "Special Topics in Physical Chemistry" with emphasis on Heat & Mass Transfer in porous media (3/93 – 7/93).

Teaching at the NCSR Demokritos Summer Schools.

Von Karman Institute for Fluid Dynamics, Dept. of Environmental and Applied Fluid Dynamics

Post graduate courses on Fluid Dynamics. Teaching parts of the Advanced Experimental Techniques course during four consecutive academic years (10/87 – 1/91). Theory and Laboratory course with emphasis on Unsteady Pressure and Heat Transfer Measurements. In the same period teaching parts of the Methodology of Applied Fluid Dynamics course (Porous Media Applications).

Organization / Teaching in Postgraduate Seminars

Organization / Teaching in weekly Lecture Series on Modelling and Applications of Transport Processes in Porous Media that took place in Nov.1987 and Feb. 1990 at the Von Karman Institute (Brussels) with the participation of more than 60 engineers from Universities, Research Centers and industries of Europe, Japan and USA.

Invited Lecturer at Advanced Study Institutes (ASI) of the Scientific Division of NATO at Pullman WA, USA (July-Aug. 1989) and Izmir, Turkey (July-Aug. 1990 και June 1993).

St. John's International School, Brussels

Advanced Physics Instructor (9/86 - 6/87). Theory and Laboratory exercises.

VIII. SUPERVISION OF STUDENTS

- Von Karman Institute for Fluid Dynamics, Belgium: 1 MSc student (C. Perez Caseiras) and two Diploma Theses (Th. Henkinet, M. DiFrancesco).
- NCSR Demokritos (co-supervision): 9 completed doctorates (N. Panagiotou (NTUA), M. Kainourgiakis (Univ. Athens), G. Charalambopoulou (NTUA), A. Yiotis, (NTUA), A. Galani (NTUA), E. Stamatakis (NTUA), E. Pantatosaki, (NTUA), N. Papadimitriou (NTUA), M. Konstantakou (UoWM), J. Psychogios (NTUA)), 1 doctoral student (S. Samios) and 5 completed diploma theses (NTUA). Also 2 MSc students (G. Petrou, A. Lapatas). The doctoral thesis of Mr. Stamatakis (NTUA) received the Thomaidion Establishment Prize.
- Invited PhD Jury member at Univ. Bordeaux (C. Bourbon), Univ. Joseph Fourier, Grenoble (A. Chaise, G. Girard) and Invited Habilitation Jury member at Univ. Joseph Fourier, Grenoble (A. Leon).

IX. SCIENTIFIC ACTIVITIES

- Director of the Inst. Nuc. & Radiol. Sci. & Tech., Energy & Safety, NCSR Demokritos
- Vice President of the National Research Center Demokritos
- Vice President of the Center for Renewable Energy Sources (CRES)
- Vice Director of the Inst. of Nuclear Technology and Radiation Protection (INT-RP) of the National Research Center Demokritos (03/2009 – 03/2010)
- Project Coordinator (4th, 5th, 6th and 7th EC Framework Programs) (FP6 Integrated Project NESSHY, etc)
- Reviewer of Research Proposals for the National Science Foundation (NSF, USA) (1991-1992)
- Invited expert evaluator of research proposals and projects (4th, 5th, 6th, 7th EC Framework Programs and Horizon 2020)
- Invited expert evaluator of research projects by DoE (USA)
- Invited expert evaluator of research proposals and projects by National and Regional R&D authorities in France, Italy, Cyprus, Kazakhstan and Greece
- Reviewer for scientific journals (J. Phys.Chem., J. Phys. Chem. Lett., Nanoscale, Computers & Chemical Engineering, J. Heat Transfer – ASME, J. Colloid and Interface Science, SPE Journal, Advances in Water Research, Water Resources Research, JACS, Applied Physics A, Int. J. Hydrogen Energy, etc.)
- National Representative at the Joint Undertaking for Fuel Cells and Hydrogen (FCH JU, European Commission) (as of 12/2010)
- National Representative at the Advisory Committee for Project Management in Radioactive Waste Management (ACPM) (European Commission DG Transport & Energy)

- Co-representative of Greece to Task 22 of the Hydrogen Implementing Agreement of IEA
- Member of the Research Committee of NCSR Demokritos
- Member of the Scientific Advisory Board of the Inst. of Nuclear Technology and Radiation Protection (INT-RP) of the National Research Center Demokritos
- Member of the Board of the Von Karman Institute Alumni Association
- Session Chairman in several conferences including the 8th Int. Topical Meeting on Nuclear Reactor Thermal Hydraulics, Kyoto, Japan, Sept. 30 – Oct. 4, 1997

X. PRIZES AND AWARDS

- Hellenic Mathematical Society, 2nd Prize, 1978
- Von Karman Prize, 1985
- Candidate for the Young European Thermal Scientist Award (EUROTHERM), 1992

XI. PATENTS

- No 930100504: Ceramic microspheres assembly for the transmission of pressure under high temperatures (OBI)
- No 950100089: Method for safe transmission of steady or time dependent pressure under high/low steady or time dependent temperature (European Patent Office).
- Advanced Arc-Melting Device for the Rapid Solidification of Melted Alloys, Patent 20060100532, September 2006
- Carbon material for Hydrogen Storage, United States Application No 12/272,488 (filed on Nov. 17, 2008)

XII. PROFESSIONAL SOCIETIES

- Controlled Release Society (Greek section)
- Hellenic Association of Chemical Engineers
- Technical Chamber of Greece

XIII. LANGUAGES

- English: fluent
- French: good
- German: basic

EXTERNAL FUNDING – RESEARCH PROJECTS

Project Coordinator

1. Project YIIEP (Funding from GSRT): Adhesive drying of a transdermal drug delivery system. Διάρκεια 3 έτη (1996-1999). Industrial end-user: LAVIPHARM SA. Total NCSR Budget: 13 million GDR.
2. THERMIE-CARE (Funding from EC, contract OG-32-96): Computer Aided Core Analysis for Reservoir Evaluation. (1996-1998). Other partners, IFE (Norway), IPGP (France). Total NCSR Budget: 253,000 ECU.
3. THERMIE-TRACESIM (Funding from EC, contract OG-07-97): Advanced Tracer Flow Simulation for Improved Oil Recovery. (1997-2000). Other partners, IFE (Norway), IPGP (France), Statoil (Norway), Saga Petroleum (Norway). Total NCSR Budget: 262,000 ECU.
4. THERMIE-HEADCARE (Funding from EC, contract OG-263-98). (1999-2000). Other partners, IFE (Norway), IPGP (France), Statoil (Norway). Total NCSR Budget: 263,000 ECU.
5. THERMIE-ADONIS Advanced determination of drainage patterns and unswept oil from natural oil components (Funding from EC, contract OG-277-98) (1/1/1999-31/12/2001) Total NCSR Budget: 269,486 EURO.
6. ENERGIE-QUOWADIS: Tool for quantifying toxic organic solutes in discharge waters from petroleum platforms using integrated approach (Funding from EC, contract NNE5-1999-359) (1/6/2000-31/5/2003) Total NCSR Budget: 353,566 EURO.
7. ENERGIE-ARISSTON: Development and validation of an integrated numerical tool for scaling control and squeeze treatment optimization (Funding from EC, contract ENK6-2000-00052) (1/12/2000-30/11/2003) Total NCSR Budget: 314,500 EURO.
8. ENERGIE-MOREOIL: Evaluation of the miscible gas injection in Oil Reservoirs by Monitoring the Asphaltenes Concentration (Funding from EC, contract NNE5-2001-250) (1/3/2002-31/8/2005) Total NCSR Budget: 435,000 EURO.
9. EESD-ENVITRACER: Development of Environmentally Friendly Tracer Technology for Improved Reservoir Description (Funding from EC, contract ENK6-CT-2002-00602) (1/11/02-30/4/2006); Total NCSR Budget: 498,574 EURO.
10. SSA-HYSIC Enhancing International Cooperation in running FP6 Hydrogen Solid Storage Activities, Contract No 038941(SES6), (1/1/07-31/12/08) (Total NCSR “D” Budget 25,000 EURO, EC Funding 100%)
11. IP-NESSHY – Novel Efficient Solid Storage for Hydrogen (SES6-CT 2005-518271) (1/1/2006-31/12/2010) (Total NCSR Budget 1,413,000 EURO)
12. PERL, RegPot 2008 (1/1/2009-31/12/2011) (Total NCSR Budget 797,000 EURO, EC Funding 100%)
13. ATLAS-H2, Marie Curie Industry – Academia Partnership Project (IAPP) funded by EC, (July 2010 – June 2014) (Total NCSR Budget 860,000 Euro).
14. ATLAS-MHC, Marie Curie Industry – Academia Partnership Project (IAPP) funded by EC, (March 2014 – Feb 2018) (Total NCSR Budget 600,000 Euro).
15. Greece – Germany S+T Cooperation 2013-2015, NESTOR A novel energy storage and transportation concept based on concentrated solar irradiation-aided CaO-looping Project No 2051 (1/11/2013-30/11/2015) (Total NCSR Budget 82,000 Euro)

Scientist in Charge

1. ΠΑΒΕ 97ΒΕ279 Development of Amphiphilic Hydrogels for use in Controlled Release Systems (1/1/1999-31/3/2001) (Funding from GSRT: 8.5 million GDR).
2. ΕΚΒΑΝ 146 Development of Slow Release Therapeutic Systems (1/1/1999-30/6/2001) (Funding from GSRT: 16 million GDR).
3. ΠΕΝΕΔ 99/ΕΔ485 Structure reconstruction of ceramic materials and determination of transport and sorption properties(1/4/1999-31/3/2001) (Funding from GSRT: 17 million GDR).
4. ΠΑΒΕΤ 00ΒΕ7 Polymeric Dispersions for Environmentally friendly Paints (1/12/2001-31/12/2002) (Funding from GSRT: 10 million GDR) .
5. ΕΕSΔ Innovative and sustainable sub-surface exploitation of natural resources (EC Funding, contract ENK6-CT2002-20694) (1/12/02-30/11/05) Total NCSRD Budget: 11,400 EURO.
6. HYSTORY: Hydrogen Storage in Hydrides for Safe Energy Systems, (EC Funding, contract ENK6-CT-2002-00600) (1/11/02-31/10/2005) Total NCSRD Budget: 262,688 EURO.
7. Integrated Project FP6-STORHY: Hydrogen Storage Systems for Automotive Application (EC Funding) Total NCSRD Budget: 250,000 EURO.
8. CA - ENGINE – Enhanced geothermal innovative network for Europe (019760) (1/11/2005, duration: 30 months) (Total NCSRD Budget 38,400 EURO, EC Funding 100%)
9. Western Macedonia Innovation Pole -Synnergia (04ΠΠΚ06) (1/11/06-31/10/08) (Funding from GSRT: 50,000 EURO)
10. NoE-HYSAFE - Safety of Hydrogen as an Energy Carrier, (SES6-CT-2004-502630), (1/3/04-28/2/09) (Total NCSRD Budget 314,394 EURO, EC Funding 55%).
11. Department of Energy (DoE, USA) NREL Subcontract (1.11.2008 – 31.12.2010) (Total NCSRD Budget 103,000 US\$)
12. ΥΠΔΒΜΘ – ΓΓΕΤ/ΕΥΔΕ/ΕΤΑΚ, ΕΣΠΑ 2007-2013, ΔΡΑΣΗ ΕΘΝΙΚΗΣ ΕΜΒΕΛΕΙΑΣ «Support to SMEs», Ανάπτυξη Καινοτόμων Μοντέλων Εκτίμησης Οικονομικών Κινδύνων για τη Λήψη Κρίσιμων Επιχειρηματικών Αποφάσεων" (9/3/2011- 31/8/2012) (NCSR “D” Budget 28,000 EURO)
13. ΥΠΔΒΜΘ – ΓΓΕΤ/ΕΥΔ/ΕΠΕΔΒΜ «Support to Post-doctoral Reserachers»: ARTESIAN – Advanced Laboratory Procedures for Optimized Management of Underground Geological reservoirs, (21/12/2011 – 20/12/2014) (Total NCSR “D” Budget 149,219 EURO)
14. LIFE+ Environment Policy and Governance, CONOPS, Development & demonstration of management plans against -the climate change enhanced- invasive mosquitoes in S. Europe (Grant Agreement LIFE12 ENV/GR/000466) (1/7/2013-31/12/2017)
15. “Hydrates for Gas Storage Applications” Funding from QNRF – TAMUQ (Total NCSR “D” Budget 420,000 USD) (1/12/2013-30/11/2016)
16. Green Island Ai-Stratis (1/7/2014-31/12/2014) (Total NCSR “D” Budget 57,000 EURO)
17. Provision of advanced S+T services to the public and private sectors: (e.g. CIDETE, ASPROFOS, GRECOLIO, Aluminum S.A, etc)

Participating Researcher

1. BRITE-EURAM (Funding from EC, contract BREU-CT92-0568): Microporous Carbon Membranes for Gas Separation. Other partners, BP (UK), SCT (France), Imperial College (UK).
2. Project ΣYN (Funding from GSRT, 92ΠΣ75): Activated Carbon Filters from Agricultural By-products. Other partners, Army Research and Technology Center, National Center for Agricultural Research.
3. BRITE-EURAM (Funding from EC, contract BRE2-CT94-0572): Synthesis of Ultra Thin Plasma Treated Membranes. Other partners, IMM (Germany), TNO (the Netherlands).
4. Greek-French S+T Cooperation 1994-1995 (Funding from GSRT): Enhanced Microchip Cooling by Boiling in Porous Media. Other partners, University of Bordeaux (France).
5. JOULE (Funding from EC, contract JOF3-CT95-0018): Ceramic Membranes and Industrial Separations. Other partners, Bath Univ. (UK), IFP (France), Imperial College (UK), ECN (the Netherlands), Leipzig Univ. (Germany), Kvaerner Process Systems (Norway), British Gas (UK).
6. JOULE (Funding from EC, contract JOF3-CT95-0008): Massive Gas Injection Conditions for Enhanced Oil Recovery. Other partners, IFP (France), IPGP (France), IFE (Norway).
7. EPIET II, Project 410 (Funding from GSRT): Development of transdermal and osmotic drug delivery systems. Other partners, Lavipharm SA, University of Athens.
8. EPIET II, Project 96 EPIY 4E (Funding from GSRT: 180,000 Euro): Upgrade of EREL infrastructure for service provision.
9. ENERGIE-AEOLOS: Assessment of Impact of SF₆ And PFCs Reservoir Tracers On Global Warming (Funding from EC, contract ENK6-CT-2001-00501) (1/11/2001-31/10/2004) Total NCSRD Budget: 354,722 EURO.
10. URBAN-EXPOSURE: Integrated exposure management tool characterizing air pollution-relevant human exposure in urban environment (Χρηματοδότηση από ΕΕ (EESD), contract EVK4-CT-2002-0090) Συνολικός προϋπολογισμός ΕΠΕΡ: 75,000 EURO
11. ΑΚΜΩΝ - ΕΠΑΝ (Μέτρο 4.2, Δράση 4.2.2) Upgrade of service provision infrastructure for INT-RP (04ΑΚΜΩΝ66) (19/5/2005 – 31/5/2008) (Funding from GSRT 74,000 EURO)
12. ΠΕΠ ATTICA «Development of an operational system for mapping of PM concentration levels and population exposure in Attica (ATT-111) (1/4/2006-31/3/2008) (Funding from GSRT 63,000 EURO)
13. ACCREDITATION- ΕΠΑΝ (ΟΠΣ 102250) (19/9/2005 – 30/6/2009) (Funding from GSRT 180,000 EURO)
14. FP7-NANOHY Novel nanostructured materials for hydrogen storage, Grant Agreement No 210092, (1/1/2008, duration: 45 months) (Total NCSRD Budget 285,800 EURO, EC Funding 214,350)
15. FP7-INFRASTRUCTURES-2011-1 H2FC - Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy (Grant Agreement No 284522) (1/11/2011 - 31/10/2015) (Total NCSR “D” Budget 371,195.00 EURO, EC Funding: 304,931.25 EURO)
16. FP7-FCH-JU Collaborative Project BOR4STORE - Fast, reliable and cost effective boron hydride based high capacity solid state hydrogen storage materials (Grant Agreement No 303428) (1/4/2012 - 31/3/2015) (Total NCSR “D” Budget 327,000 EURO, EC Funding: 160,000 EURO)

17. FP7-RegPot ENTEC (1/1/2013-31/12/2015) (Total NCSR Budget 2,735,973 EURO, EC Funding 100%)

18. FP7/DG HOME AFFAIRS - IMAGES Implementation of an RN emergency system in Eastern Mediterranean (Grant Agreement No: HOME/2011/ISEC/AG/CBRN/4000002163) (1/10/2012-30/9/2015)

19. FP7-PEOPLE-2012-IAPP (Grant Agreement No 324410, 2013-2017) GLOW “New weather-stable low gloss powder coatings based on bifunctional acrylic solid resins and nanoadditives” (1/11/2013-31/10/2017)

20. ΕΣΠΑ-ΘΑΛΗΣ Ευρωπαϊκό Κοινωνικό Ταμείο (ΕΚΤ) - Επιχειρησιακό Πρόγραμμα «Εκπαίδευση και Δια Βίου Μάθηση» του Εθνικού Στρατηγικού Πλαισίου Αναφοράς (ΕΣΠΑ) (Έργο 3580, 2012-2015). Ερευνητικό Χρηματοδοτούμενο Έργο: ΘΑΛΗΣ – Πανεπιστήμιο Κρήτης- “Ανάπτυξη Νανοπορωδών Υλικών για αποθήκευση υδρογόνου”. (1/7/2012-30/9/2015)

LIST OF PUBLICATIONS

Archival Journal (Refereed) Publications (J)

1. Joly, C.; Soenen, M.; Lamy, D.; Buchlin, J-M.; Benocci, C.; Stubos, A.K. & VanKoninckxloo, T.: PIRAMID and OPERA, a Combination of In-Pile and Out-of-Pile Decay Heat Removal Studies. Science and Technology of Fast Reactor Safety, British Nuclear Energy Society, pp 323-329, 1986.
2. Stubos, A.K. & Buchlin, J-M.: Modeling of Vapour Channelling Behaviour in Liquid Saturated Debris Beds. J. Heat Transfer, 110(4A), p 968, 1988.
3. Buchlin, J-M.; Stubos, A.K.; Di Francesco, M. & Joly, C.: Experimental and Physical Modelling of Two Phase Heat Transfer in Fuel Debris Beds. Int. J. Heat and Technology, 7(1), pp 1-20, 1989.
4. Stubos, A.K.; Perez Caseiras, C.; Buchlin, J-M. & Joly, C.: Numerical Simulation of the Transient Thermohydraulic Behaviour of a Heat Dissipating Debris Bed. AIChE Symp. Series, 269, Vol. 85, pp 129-134, 1989.
5. Stubos, A.K.; Buchlin, J-M.; Perez Caseiras, C. & Joly, C.: Numerical Simulation and Interpretation of the European In-Pile Core Debris Bed Experiment. Experimental Thermal and Fluid Science 2(4), pp 257-278, 1989.
6. Stubos, A.K. & Buchlin, J-M.: Analysis and Numerical Simulation of the Thermohydraulic Behaviour of a Heat Dissipating Debris Bed During Power Transients. Int. J. Heat Mass Transfer, 36, 5, pp 1391-1401, 1993.
7. Stubos, A.K.; Satik, C. & Yortsos, Y.C.: Critical Heat Flux Hysteresis in Vapor-Liquid Counterflow in Porous Media. Int. J. Heat Mass Transfer, 36, 1, pp 227-231, 1993.
8. Stubos, A.K.; Satik, C. & Yortsos, Y.C.: Effects of Capillary Heterogeneity on Vapor-Liquid Counterflow in Porous Media. Int. J. Heat Mass Transfer, 36, 4, pp 967-976, 1993.
9. Stubos, A.K. & Buchlin, J-M.: Vapour Channels in Boiling, Unconstricted Particle Beds - Effect on the Dryout Heat Flux. Int. J. Multiphase Flow, 20, 1, pp 131-152, 1994.
10. Steriotis, T.; Katsaros, F.; Mitropoulos A.; Stubos, A.K. & Kanellopoulos, N.: Characterisation of Porous Solids by Simplified Gas Relative Permeability Measurements. Journal of Porous Materials, 2, pp 73-77, 1995.
11. Kainourgiakis, M.; Stubos, A.K.; Konstantinou, N.D.; Kanellopoulos, N. & Milisic, V.: A Network Model for the Permeability of Condensable Vapours Through Mesoporous Media. J. Membrane Sci., 114, pp 215-225, 1996.
12. Mitropoulos, A.; Haynes, J.M.; Richardson, R.M.; Steriotis, T.; Stubos, A.K. & Kanellopoulos, N.: Water Adsorption and Small Angle X-ray Scattering Studies on the Effects of Coal Thermal Treatment. Carbon, 34, 6, pp 775-781, 1996.
13. Steriotis, T.; Katsaros, F.; Mitropoulos A.; Stubos, A.K.; Galiatsatou, P.; Zouridakis, N. & Kanellopoulos, N.: Novel Design for High Pressure, Integral, Differential, Absolute and Relative Multi-Component Permeability Measurements. Review of Scientific Instruments, 67, 7, pp 2545-2548, 1996.
14. Buchlin, J-M. & Stubos, A.K.: Phase Change Heat Transfer in Unconstricted Porous Media: Application to Nuclear Safety Analysis. ERCOFTAC Bulletin, 28, pp 36-38, 1996.
15. Stubos, A.K.; Perez Caseiras, C.; Buchlin, J-M. & Kanellopoulos, N.: Numerical Investigation of Vapour-Liquid Flow and Heat Transfer in Capillary Porous Media. Numerical Heat Transfer, Part A, 31, pp 143-166, 1997.

16. Konstantinou, N.D.; Stubos, A.K.; Statharas, J.; Kanellopoulos, N. & Papaioannou, A.: Enhanced Boiling Heat Transfer in Porous Layers With Application in Electronic Component Cooling. *Journal of Enhanced Heat Transfer*, 4, pp 175-186, 1997.
17. Katsaros, F.; Steriotis, T.; Stubos, A.K.; Mitropoulos A.; Kanellopoulos, N. & Tennison, S.: High Pressure Gas Permeability of Microporous Carbon Membranes. *Microporous Materials*, 8(No 3-4), pp 171-176, 1997.
18. Kikkinides, E.S.; Tzevelekos, K.P.; Stubos, A.K.; Kainourgiakis, M.E. & Kanellopoulos, N.K.: Application of Effective Medium Approximation for the Determination of the Permeability of Condensable Vapours Through Mesoporous Media. *Chem. Eng. Sci.*, 52(16), pp 2837-2844, 1997.
19. Steriotis, T.; Katsaros, F.; Stubos, A.K.; Mitropoulos A. & Kanellopoulos, N.: A Novel Experimental Technique for the Measurement of the Single-Phase Gas Relative Permeability of Porous Solids. *Meas. Sci. Technol.* 8, pp 168-173, 1997.
20. Samios, S.; Stubos, A.K.; Kanellopoulos, N.; Cracknell, R.; Papadopoulos, G. & Nicholson, D.: Determination of Micropore Size Distribution from Grand Canonical Monte Carlo Simulations and Experimental CO₂ Isotherm Data. *Langmuir*, 13(10), pp 2795-2802, 1997.
21. Steriotis, Th.; Stubos, A.K.; Mitropoulos A. & Kanellopoulos, N.K.: Membrane Pore Structure Characterisation in Relation to Gas Flow Properties. *Zh. Fiz. Khim.*, 71(9), pp 1393-1395, 1997.
22. Kikkinides, E.S.; Charalambopoulou, G.Ch.; Stubos, A.K.; Kanellopoulos, N.K.; Varelas, C.G. & Steiner, C.A.: A Two-Phase Model for Controlled Drug Release from Biphasic Polymer Hydrogels. *Journal of Controlled Release*, 55(2-3), p 313, 1998.
23. Tzevelekos, K.P.; Kikkinides, E.S.; Stubos, A.K.; Kainourgiakis, M.E. & Kanellopoulos, N.K.: On the Possibility of Characterising Mesoporous Materials by Permeability Measurements of Condensable Vapours: Theory and Experiments. *Advances in Colloid and Interface Science*, 76-77, pp 373-388, 1998.
24. Kainourgiakis, M.E.; Kikkinides, E.S.; Stubos, A.K. & Kanellopoulos, N.K.: Adsorption-Desorption Gas Relative Permeability through Mesoporous Media: Network Modelling and Percolation Theory. *Chem. Eng. Sci.*, 53(13), pp 2353-2364, 1998.
25. Stubos, A.K. & Buchlin, J-M.: Enhanced Cooling via Boiling in Porous Layers: The Effect of Vapor Channels. *J. Heat Transfer*, 121(1), pp 205-210, 1999.
26. Kikkinides E.S.; Stubos, A.K.; Tzevelekos, K.P.; Mitropoulos, A. & Kanellopoulos, N.K.: Ceramic Membranes: Characterisation and Applications, *Stud. Surf. Sci. Catal.*, 120, pp 687-713, 1999.
27. Tsimpanogiannis, I.N.; Yortsos, Y.C.; Poulou, S.; Kanellopoulos, N.K. & Stubos, A.K.: A Scaling Theory of Drying in Porous Media. *Physical Review E*, 59(4), pp 4353-4365, 1999.
28. Kainourgiakis, M.E.; Kikkinides, E.S.; Stubos, A.K. & Kanellopoulos, N.K.: Simulation of Self-Diffusion of Point-like and Finite-size Tracers in Stochastically Reconstructed Vycor Porous Glasses. *Journal of Chemical Physics*, 111(6), pp 2735-2743, 1999.
29. Stubos, A.K.; Benocci, C.; Palli, E.; Stoubos, G.K. & Olivari, D.: Aerodynamically generated acoustic resonance in a pipe with annular flow restrictors. *Journal of Fluids and Structures*, 13(6), pp 755-778, 1999.
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32. Tzevelekos, K.P.; Kikkinides, E.S.; Kainourgiakis, M.E.; Stubos, A.K.; Kanellopoulos, N.K. & Kaselouri, V.: Adsorption-Desorption Flow of Condensable Vapours through Mesoporous Media: Network Modelling and Percolation Theory. *Journal of Colloid and Interface Science*, 223, pp 89-101, 2000.
33. Xu, K.; Bekri, S.; Yousefian, F.; Adler, P.M.; Thovert, J.F.; Muller, J.; Iden, K.; Psyllos, A.; Stubos, A.K. & Ioannidis, M.: Pore geometry and transport properties in North Sea chalk. *Journal of Petroleum Science and Engineering*, 25(3-4), pp 107-134, 2000.
34. Charalambopoulou, G.Ch.; Kikkinides, E.S.; Stubos, A.K.; Varelas, C.G. and Papaioannou, A.: Modeling Sustained Drug Release from Biphasic Polymer Hydrogels. *Journal of Controlled Release*, 64, pp 338-339, 2000.
35. Samios, S.; Stubos, A.K.; Papadopoulos, G.; Kanellopoulos, N.; & Rigas, F.: The Structure of Adsorbed CO₂ in Slit-Like Micropores at Low and High Temperatures and the Resulting Micropore Size Distribution Based on GCMC Simulations. *Journal of Colloid and Interface Science*, 224(2), pp 272-290, 2000.
36. Tsimpanogiannis, I.N.; Yortsos Y.C. & Stubos, A.K.: Evaporation of a stagnant liquid. *Ind. Eng. Chem. Res.*, 39, pp 1505-1513, 2000.
37. Kainourgiakis, M.E.; Kikkinides, E.S.; Stefanopoulos, K.; Mitropoulos, A.; Stubos, A.K. & Kanellopoulos, N.K.: Combination of Small Angle Scattering and 3-D Stochastic Reconstruction for the Study of Adsorption-Desorption Processes in Vycor Porous Glass. *Journal of Chemical Physics*, 112(22), pp 9881-9887, 2000.
38. Charalambopoulou, G.Ch.; Karamertzanis, P.; Kikkinides, E.S.; Stubos, A.K.; Kanellopoulos, N.K. & Papaioannou, A.: A Study on Structural and Diffusion Properties of Porcine Stratum Corneum. *Pharmaceutical Research*, 17(9), pp 1085-1091, 2000.
39. Kikkinides, E.S.; Steriotis, T.A.; Stubos, A.K.; Stefanopoulos, K.L.; Mitropoulos, A.Ch. & Kanellopoulos, N.K.: Structural characterisation and applications of ceramic membranes for gas separations. *Stud. Surf. Sci. Catal.*, 128, pp 429-438, 2000.
40. Kainourgiakis, M.E.; Kikkinides, E.S.; Steriotis, Th.A.; Stubos, A.K.; Tzevelekos, K.P. & Kanellopoulos, N.K.: Structural and Transport Properties of Alumina Porous Membranes from Process-Based and Statistical Reconstruction Techniques. *Journal of Colloid and Interface Science*, 231(1), pp 158-167, 2000.
41. Yiotis, A.G.; Stubos, A.K.; Boudouvis A. & Yortsos Y.C.: A 2-D Pore Network Model of the Drying of Single-Component Liquids in Porous Media. *Advances in Water Resources*, 24(3-4), pp 437-458, 2001.
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44. Charalambopoulou, G.Ch.; Papadokostaki, K.G.; Kikkinides, E.S. and Stubos, A.K.: Experimental and theoretical study of solute release from polymeric multilaminate matrices. *Journal of Controlled Release*, 72(1-3), pp 303-305, 2001.
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47. Kainourgiakis, M.E.; Steriotis, Th.A.; Kikkinides, E.S.; Romanos, G. & Stubos, A.K.: Adsorption and Diffusion in Nanoporous Materials from Stochastic and Process-Based Reconstruction Techniques. *Colloids and Surfaces A*, 206(1-3), pp 321-334, 2002.
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104. Δ. Γιασαφάκη, Α. Μπουρλίνος, Γ. Χαραλαμποπούλου, Α. Στούμπος, Θ. Στεριώτης, “Σύνθεση και Χαρακτηρισμός Νανοπορωδών Σύνθετων Υλικών Άνθρακα-Μετάλλου για Αποθήκευση Υδρογόνου”, 5ο Πανελλήνιο Συμπόσιο Πορωδών Υλικών, Ηράκλειο Κρήτης, 30 Ιουνίου - 1 Ιουλίου 2011
105. Α.Γ. Γιώτης, Α.Κ. Στούμπος, Ι.Ν. Τσιμπανογιάννης, Γ. Γιώρτσος, Προσομοίωση διεργασιών ξήρανσης σε πυρώδη υλικά βάσει πρότυπων δικτύων πόρων, 5ο Πανελλήνιο Συμπόσιο Πορωδών Υλικών, Ηράκλειο Κρήτης, 30 Ιουνίου - 1 Ιουλίου 2011
106. Σ. Καρόζης, Μ. Καινουργιάκης, Ι. Ψυχογιός και Α. Στούμπος, Σύγκριση της προσομοίωσης απόπτωσης και της μεθόδου Lattice-Boltzmann στην εύρεση της χωρικής κατανομής ρευστών φάσεων σε πορώδη μέσα, 8ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής Θεσσαλονίκη 26-28 Μαΐου 2011
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IMPACT FACTORS			
	Journal Title	Number of publications	IMPACT FACTOR 2011
1	Small	2	8,349
2	J. Controlled Release	5	5,732
3	Curr. Opin. Colloid Interf. Sci.	1	8,01
4	Chem. Commun.	1	6,169
5	Adv. Colloid Interf. Sci.	1	8,12
6	Carbon	2	5,378
7	J. Phys. Chem. B	2	3,696
8	Pharmaceutical Res.	1	4,093
9	Langmuir	3	4,186
10	Stud. Surf. Sci. Catal.	8	3,468
11	I. J. Hydrogen Energy	6	4,054
12	J. Phys. Chem. C	3	4,805
13	J. Membrane Sci.	1	3,85
14	J. Chem. Phys.	3	3,333
15	Microporous Mesopor. Mat.	4	3,285
16	Physical Review E	4	2,255
17	J. Colloid Interf. Sci.	6	3,07
18	Water Res Res	1	2,957
19	Adv. Water Res.	1	2,449
20	Chem. Phys.	1	1,896
21	Coll. Surf. A	7	2,236
22	Ind. Eng. Chem. Res.	1	2,237
23	Int. J. Heat Mass Transfer	3	2,407
24	Chem. Eng. Sci.	4	2,431
25	Appl. Phys. A	1	1,63
26	AIChE J.	3	2,261
27	Powder Tech.	1	2,08
28	Review Sci. Instruments	1	1,367
29	Energy	1	3,487
30	Theor. Appl. Climatol.	1	1,942
31	Appl. Surf. Sci.	3	2,103
32	Solid State Commun.	1	1,649
33	J Alloy Compd	2	2,289
34	Int. J. Multiphase flow	1	2,23
35	Meas. Sci. Technol	1	1,494
36	J. Heat Transf.- ASME	2	1,83
37	Dry Technol.	3	2,084
38	J. Fluids & Structures	1	1,567
39	Mol. Simulat.	3	1,328
40	J. Mater. Sci.	3	2,015
41	Numer. Heat Transfer A	1	2,492
42	Comput. Math Appl.	1	1,747
43	J. Porous Mat.	2	1,238
44	J. Geochem. Explor.	1	1,44
45	J. Petrol. Sci. Eng.	3	0,869
46	Physica B	1	1,063
47	Transport Porous Med.	3	1,811

48	J. Porous Media	1	0,516
49	Exp. Heat Transfer	1	0,537
50	Zh. Fiz. Khim. (Russ J Phys Chem)	1	0,503
51	J. Enhanced Heat Transfer	1	0,275
52	Mat. Sci. Forum	6	0,399
53	SPE Prod. Oper.	1	0,331
54	Mol. Phys.	1	1,819
55	J. Nanosci. Nanotechnol.	2	1,563
56	Cent. Eur. J. Chem.	1	1,073
57	Int. J. Heat & Technology	1	-
58	ERCOFTAC Bull.	1	-
59	Environmental Sciences	1	new journal
60	AIChE Symp. Series	1	-
61	British Nucl. Energy Soc.	1	-
62	Diff. Fundam.	1	-
63	Diffusion and Defect Data	1	-
64	Special Topics and Reviews in PM	1	new journal
65	J. Phys. Chem. Lett.	1	6,213
66	Nanoscale	1	5,914
67	Adsorption	1	1,553
	TOTAL	137	362,07
	Average IF per Publication		2,807