

Curriculum Vitae

Academic Profile

Personal information

Surname(s) / First name(s) **Fyrillas Marios M.**
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Nationality(-ies) Cypriot

Education

Dates Jan 1992 – Jul 1995
Title of qualification awarded PhD in Engineering
Name of awarding institution University of California, Irvine, USA
Key features Enhancement of scalar transport from dynamic interfaces

Dates Sep 1990 – Dec 1991
Title of qualification awarded MSc in Engineering
Name of awarding institution University of California, Irvine, USA
Key features Groundwater contamination by surfactants

Dates Sep 1987 – Jun 1990
Title of qualification awarded BSc in Mechanical Engineering
Name of awarding institution Imperial College of Science, Technology and Medicine, UK

Work experience

Dates Jan 2008 – Present
Employer Name Frederick University Cyprus
Occupation or position(s) held Associate Professor in the Department of Mechanical Engineering
Main activities and responsibilities My teaching focused in: Fluid Mechanics, Mathematics & Physics.

Dates Sep 2003 – Dec 2007
Employer Name Frederick Institute of Technology
Occupation or position(s) held 2003 – 2007: Associate Professor in the Department of Mechanical Engineering
2005 – 2007: Supervisor, BSc in Mechanical Engineering programme of study
Main activities and responsibilities As course supervisor I was responsible for the overseeing the programme of study including, responsibility for program improvement, upgrade of laboratory infrastructure, student registrations, faculty recruitment and faculty load distribution. My teaching focused in: Fluid Mechanics, Mathematics.

Dates Mar 2002 – Aug 2003
Employer Name ERCIM Research Fellow
University of Neuchâtel, Switzerland & INRIA-IRISA, France
Occupation or position(s) held Research Fellow
Main activities and responsibilities Topics included: i. Optimal surfaces for conductive heat transport ii. Contaminant transport associated with NAPL pools in saturated porous media iii. Mass transport across dynamic interfaces.

Research Projects

Duration, Funding Ag. and Funding Title	2004 – 2006: PENEK. Total Funding: CYP 50,000
Role and Contribution	Ρεαλιστική κίνηση και κινησιολογία πλήθους πεζών CO-PI
Duration, Funding Ag. and Funding Title	2004 – 2006: Research Promotion Foundation. Total Funding: CYP 50,000
Role and Contribution	Design and manufacturing of fiber-reinforced composite high-pressure pipes capable for corrosion liquids Researcher

Publications

Refereed Publications	<p>M.M. FYRILLAS 2007 Shape optimization associated with diffusive transport, submitted.</p> <p>M.M. FYRILLAS & K.K. NOMURA 2006 Diffusion and Brownian motion in Lagrangian Coordinates, Journal of Chemical Physics, accepted.</p> <p>M.M. FYRILLAS & E.J. KONTOGHIOGHES 2004 Numerical calculation of mass transfer from elliptical pools in uniform flow using the boundary element method, Transport in Porous Media 55, 91-102.</p> <p>S. STYLIANOU, M.M. FYRILLAS & G.C. CHRYSANTHOU 2004 Scalable pedestrian simulation for virtual cities, VRST 04, Hong Kong.</p> <p>C.V. CHRYSIKOPOULOS, P.-Y. HSUAN, M.M. FYRILLAS & K.Y. LEE 2003 Mass transfer coefficient and concentration boundary layer thickness for a dissolving NAPL pool in porous media. Journal of Hazardous Materials 97, 245-255.</p> <p>C.V. CHRYSIKOPOULOS, P.-Y. HSUAN & M.M. FYRILLAS 2002 Bootstrap estimation of the mass transfer coefficient of a dissolving nonaqueous phase liquid pool in porous media. Water Resources Research 38, 1-8.</p> <p>M.M. FYRILLAS & C. POZRIKIDIS 2001 Conductive heat transport across rough surfaces and interfaces between two conforming media. International Journal of Heat and Mass Transfer 44, 1789-1801.</p> <p>S. KWAK, M. M. FYRILLAS & C. POZRIKIDIS 2001 Effect of surfactants on the instability of a liquid thread; Part II: Extensional flow. International Journal of Multiphase Flow 27, 39-60.</p> <p>M.M. FYRILLAS 2000 Advection-dispersion mass transport associated with a non-aqueous-phase liquid pool. Journal of Fluid Mechanics 413, 49-63.</p> <p>M.M. FYRILLAS, W. KLOEK, T. VAN VLIET & J. MELLEMA 2000 Factors determining the stability of a gas cell in an elastic medium. Langmuir 16, 1014-1019.</p> <p>M.M. FYRILLAS, G.C. GEORGIU, D. VLASSOPOULOS & S. G. HATJIKIRIAKOS 1999 A mechanism for extrusion instabilities in polymer melts. Polymer Engineering and Science 39, 2498-2504.</p> <p>M.M. FYRILLAS, G.C. GEORGIU & D. VLASSOPOULOS 1999 Time-dependent plane Poiseuille flow of a Johnson-Segalman fluid. Journal of Non-Newtonian Fluid Mechanics 82, 105-123.</p> <p>E. BRASSEUR, M.M. FYRILLAS, G.C. GEORGIU & M.J. CROCHET 1998 The time-dependent extrudate-swell problem of an Oldroyd-B fluid with slip along the wall. Journal of Rheology 42, 549-566.</p> <p>V.Q. VUONG, M.M. FYRILLAS & A.J. SZERI 1998 The influence of liquid temperature on the sonoluminescence hot spot. The Journal of the Acoustical Society of America 104, 2073-2076.</p> <p>M.M. FYRILLAS & G.C. GEORGIU 1998 Linear Stability diagrams of the shear flow of an Oldroyd-B fluid with slip along the fixed wall. Rheologica Acta 37, 61-67.</p> <p>M.M. FYRILLAS & A.J. SZERI 1998 Control of ultra- and subharmonic resonances. The Journal of Nonlinear Science 8, 131-159.</p> <p>M.M. FYRILLAS & A.J. SZERI 1996 Surfactant dynamics and rectified diffusion of microbubbles. Journal of Fluid Mechanics 311, 361-378.</p> <p>M.M. FYRILLAS & A.J. SZERI 1995 Dissolution or growth of soluble, spherical, oscillating bubbles: the effect of surfactants. Journal of Fluid Mechanics 289, 295-314.</p> <p>M.M. FYRILLAS & A.J. SZERI 1994 Dissolution or growth of soluble, spherical, oscillating bubbles. Journal of Fluid Mechanics 277, 381-407.</p>
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Conferences, Proceedings & Meetings

C.V. CHRYSIKOPOULOS, E.A. VOUDRIAS & M.M. FYRILLAS 1994 Modeling of contaminant transport resulting from dissolution of nonaqueous phase liquid pools in saturated porous media. *Transport in Porous Media* 16, 125-145.

Internal Publication: Indirect tests for tensile strength of concrete, 2006, *The Cyprus Journal of Science and Technology*.

Conference Proceedings: Scalable pedestrian simulation for virtual cities, VRST 2004, Hong Kong.

Conference Proceedings: Mass transfer from elliptical pools in uniform flow. 2nd International Workshop on Parallel Matrix Algorithms and Applications, 3rd Workshop of the ERCIM Working Group on Matrix Computations and Statistics, Neuchâtel, Switzerland, 7-10 November, 2002.

Invited Seminar: Advection-dispersion mass transport associated with a liquid pool. University of California, Irvine Department of Mathematics, Oct. 18, 1999.

Conference Proceedings: Time-dependent plane Poiseuille flow of a Johnson-Segalman fluid. 2nd Scientific Meeting of the Hellenic Society of Rheology Heracleion, Crete, Greece, Aug. 31 – Sept. 2, 1998.

Conference Proceedings: A mechanism for extrusion instabilities in polymer melts. 4th Panhellenic Congress on Polymers Patra, Greece, November 20-22, 1997.

Conference Presentation: The influence of liquid temperature on the sonoluminescence hot spot. 50th Annual Meeting of the Division of Fluid Dynamics of the American Physical Society San Francisco, November 23-25, 1997.

Conference Presentation: Surfactant dynamics and rectified diffusion of microbubbles. 48th Annual Meeting of the division of Fluid Dynamics of the American Physical Society, Irvine, November 19-21, 1994.

Conference Presentation: Dissolution or growth of soluble, spherical, oscillating bubbles: the effect of surfactants. 47th Annual Meeting of the division of Fluid Dynamics of the American Physical Society, Atlanta, November 20-22, 1994.

Conference Presentation: Dissolution or growth of soluble, spherical, oscillating bubbles. 46th Annual Meeting of the division of Fluid Dynamics of the American Physical Society, Albuquerque, November 21-23, 1993.

Conference Proceedings: The battle between convection and diffusion associated with dissolving, oscillating bubbles. 9th Annual University of California Conference on Nonlinear Science UCLA, February 20-21, 1993.