CURRICULUM VITAE

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Studies

1989 - **Diploma in Mathematics**, Department of Mathematics, University of Patras,
1998 - **Ph.D.**, Chemical Engineering Dept., University of Patras. Ph.D. Dissertation: "*The Spherical Scatterer in the Presence of a Low Frequency Point Source Field*". Supervisor, G. Dassios. Applications in: underwater acoustic research, non-destructive testing & evaluation of composite materials, development of non-invasive investigation & evaluation methods in medical science.

Scholarships

1990-1993 Ph.D. Studies, National Scholarship Foundation (IKY)
1996-1998 PhD. Studies, FORTH/ICE-HT

Teaching

TEI West. Greece	Mathematical Analysis, Linear Algebra, Calculus, Ordinary Differential Equations, Introduction to Numerical Analysis
Hellenic Open University	Calculus, Elements of Linear Algebra

Research Interests

Applied Mathematics, Continuum Mechanics, Wave Propagation and Inverse Scattering, Flow in Porous Media.

Publications in International Scientific Journals

1. Dassios, G., Kamvyssas, G., "Point-Source Excitation in Direct and Inverse Scattering. The Soft and the Hard Small Sphere", *J. Appl. Math.* **55**, pp. 67-84, 1995.
2. Dassios, G., Kamvyssas, G., `"The Impedance Scattering Problem for a Point-Source Field. The Small Resistive Sphere", *Q.J.M.A.M.,* **50**, pp. 321-332, 1997.
3. Dassios, G., Hadjinicolaou, M., Kamvyssas, G., "Direct and Inverse Scattering for Point-Source Fields. The Penetrable Small Sphere", *Z. Angew. Math. Mech.* **79**, pp. 303-316, 1999.
4. Dassios, G., Hadjinicolaou, M., Kamvyssas, G., "The Penetrable Coated Sphere Embedded in a Point-Source Excitation Field", *Wave Motion* **32**, pp. 319-338**,** 2000.
5. Kamvyssas, G., Kariotou, F., "Confocal Ellipsoidal Boundaries in EEG Modeling", *Bulletin of the Greek Mathematical Society,* **50**, pp. 119-133, 2004.
6. Dassios, G., Hadjinicolaou, M., Kamvyssas, G., Kandili, A., "On the polarizability potential for two spheres", *International Journal of Engineering Science* **44**, pp. 1520-1533, 2006.
7. M. Hadjinicolaou, G. Kamvyssas, E. Protopapas, "Stokes flow applied to the sedimentation of a red blood cell" *Quarterly of Applied Mathematics* **73**(3), pp. 511-523, 2015.
8. Kamvyssas, G., Valavanides, M.S., "Analytical solution of the saturated flow problem in 7-spot, 2D geometries", *Fresenius Environmental Bulletin* **26**(9), pp. 5523-5528, 2017.

Conference Proceedings & Presentations

1. Charalambopoulos, A., Dassios, G., Kamvyssas, G., "Reciprocity Theorems for Point-Source Scalar Scattering", *Applied Mathematics in Science and Modern Technology Workshop*, pp.12-19, Metsovo, Greece, June 30-July 1, 1997.
2. Charalambopoulos, A., and Kamvyssas, G., "Isoperimetric Relations in Scattering by Small Obstacles", *5th National Congress on Mechanics*, pp. 508-514, Ioannina, Greece, 27-30 August, 1998.
3. Perrusson, G., Lambert, M., Lesselier, D., Ducheme, B., Dassios G., and Kamvyssas, G., "On the identification of a simple conductive body buried in a conductive earth at low frequencies", *International Symposium of Electromagnetic Theory*, pp.575-577, Thessaloniki, Greece, 25-29 May, 1998.
4. Perrusson, G., Lambert, M., Lesselier, D., Ducheme, B., Charalambopoulos, A., Dassios G., and Kamvyssas, G., "On the characterization of a conductive body in a conductive earth using low-frequency asymptotic analyses", Invited Paper, *Progress in Electromagnetics Research Symposium*, pp. 867, Nantes, France, 13-17 July, 1998.
5. Kamvyssas**,** G., Kariotou, F., "On the Electroencephalography (EEG) Problem for the Ellipsoidal Brain Model", *6th National Congress of Mechanics*, pp. 222-226, Thessaloniki, Greece, 2001.
6. Perrusson, G., Lesselier, D., Vafeas, P., Dassios, G., Kamvyssas, G., "Low-frequency electromagnetic modeling and retrieval of simple orebodies in a conductive earth", *Third Congress of the International Society for Analysis, its Applications and Computation* (ISAAC), Book of Abstracts, pp. 221–222, Proceedings, World Scientific, *Progress in Analysis*, **2**, pp. 1413–1422, Berlin, Germany, 2001, Reviewed: *Math. Rev.* MR2032821.
7. Dassios, G., Kamvyssas G., "Re-identification of the gradient and Helmholtz´s decomposition theorem in anisotropic media", *10th Pan-Hellenic Conference of mathematical Analysis*, Athens, Greece, Sept. 30/9- Oct. 2, 2004.
8. G. Dassios, M. Hadjinicolaou, G. Kamvyssas, "General Polarizability Tensor for two spheres", *7th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Engineering*, pp. 128-135, Nymphaio, Greece, 8-11 Sept., 2005.
9. G. Dassios, M. Hadjinicolaou, G. Kamvyssas, "Polarizability of a sphere having an eccentric spherical inclusion", *8th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Engineering*, pp. 124-133, Lefkada, Greece, Sept. 27-29, 2007.
10. Valavanides, M.S., Kamvyssas, G., Totaj, E. "Retrospective Examination of Relative Permeability Data and Operational Efficiency Aspects for Steady-State 2-Phase Fow in Porous Media" *6th Panhellenic Symposium on Porous Media*, Kavala, Greece, September 9-10, 2013.
11. Valavanides, M.S., Kamvyssas, G. "Operational Efficiency Map of Steady-State Two-Phase Flow in Porous Media Processes" *InterPore2013 5th International Conference on Porous Media*, Prague, May 21-24, 2013.
12. Καμβύσας Γ., Πρωτοπαπάς Ε., Χατζηνικολάου Μ., «Μαθηματικά Μοντέλα για τη ροή του αίματος» *30ο Πανελλήνιο Συνέδριο Μαθηματικής Παιδείας*, Καρδίτσα, 8-10 Νοεμβρίου, 2013.
13. Dassios G., Hadjinicolaou M., Kamvyssas G., Kariotou F., Protopapas E., "Analytical expansions for the Stress and the Torque exerted by a viscous fluid on a Red Blood Cell", *M3ST Modern Mathematical Methods in Science and Technology*, Kalamata, Greece, Aug. 30 Sept. 1, 2015 (poster)