Chris D. Dritselis

Birthday:	23/03/1978
Birthplace:	Trikala (Greece)
Address:	I. Zioga 13, Kalampaka, 24220, Trikala, Greece
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Education

2002-2007	PhD candidate. Department of Mechanical & Industrial Engineering, Univ. of Thessaly.
2001-2002	Postgraduate student. Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.
1995-2001	Undergraduate student. Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.

Theses

2007	**PhD thesis:** Study of turbulent air-particle two-phase flows in ducts.
2002	**Postgrand thesis:** Effect of spatial periodic wall temperature distributions in mixed convection channel flows.
2001	**Diploma thesis:** Numerical simulation of flow and transport phenomena in cyclones for cement industry.

Research experience

2008-	Researcher, National Program of Controlled Thermonuclear Fusion, Department of Mechanical Engineering, Univ. of Thessaly, Association EURATOM – Hellenic Republic.
2009-	Visiting Researcher, Department of Mechanical & Manufacturing Engineering, Univ. of Cyprus, Cyprus (*Dr. S. Kassinos - Total: 1 month mobility visit*).
2009-	Visiting Researcher, Karlsruhe Institute of Technology (KIT/FZK), Karlsruhe, Germany (*Dr. L. Buehler - Total: 1 month mobility visit*).
2010-	Visiting Researcher, Statistique et Plasmas, Université Libre de Bruxelles, Belgium (*Dr. D. Carati - Total: 2 months mobility visit*).
2004-2006	Researcher, "Study of turbulent air-particle two-phase flow in ducts - Heracletos, Basic Research", Univ. of Thessaly, Greece.
2004	Researcher, "Adaptive CFD Code for Industrial Design and Environmental Applications - GSRT/03PRAXE18", Univ. of Thessaly, Greece.
2000-2001	Researcher, "Modeling and Control of the Processes of Precalciner for Cement Production - GSRT/96SYN121", Univ. of Thessaly, Greece.

Further experience

[1] Participation in the preparation of research proposals (a) '*Heracletos: Basic research*', Ministry of National Education and Religious Affairs (funded by the EU), 2004-2006, (b) '*Adaptive CFD Code for Industrial Design and Environmental Applications*', GSRT/03PRAXE18, 2004.

[2] Participation and preparation of (a) annual reports and annexes, (b) annual Workplans and Workprograms in several tasks for the National Program of Controlled Thermonuclear Fusion, University of Thessaly, Association EURATOM – Hellenic Republic (2008 – to present).

[3] Technical assistance in the 5th to 8th Schools of Physics & Technology of Fusion, Volos, Greece (2006~2009), and secretariat of the 9th and 10th Schools of Physics & Technology of Fusion, Volos, Greece (2010-2011).

[4] Evaluation expert and participation in the '*Experts Evaluation Panel meeting*', COST Domain Committee Materials, Physical and Nanosciences, Brussels, Belgium, September 2010.

Teach assistance

2010-2011	Teach assistance in the undergraduate course '*Fluid Mechanics*' TEI-Technological Educational Institute of Larissa.
2005-2007 2008-2009	Teach assistance in the postgraduate course '*Advanced Fluid Mechanics*', 4th Semester, Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.
2002-2007	Teach assistance in the undergraduate course '*Fluid Mechanics I*', 4th Semester, Department of Mechanical & Industrial Engineering, Univ. of Thessaly.
2001-2004	Teach assistance in the undergraduate course '*Turbomachines*', 7th Semester, Department of Mechanical & Industrial Engineering, Univ. of Thessaly.
2007	Assistance in the graduate thesis '*Numerical simulation of two-phase air-droplets turbulent flow in a vertical pipe*' (in Greek), M. Moutsikopoulou, Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.
2006	Assistance in the graduate thesis '*Experimental study of Reynolds number effect in turbulent two-phase water-particles flows in a vertical pipe by using PDPA*' (in Greek), Z. Doulgerakis, Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.
2004	Assistance in the graduate thesis '*Experimental study of the particle concentration effect in water-particle, turbulent flow in a vertical pipe using PDPA*' (in Greek), P. Koumoundouros, Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.
2003	Assistance in the graduate thesis '*Study of water-particle, two phase flows in sudden expansion pipes-Verification of a PDA system*' (in Greek), Th. Saraliotis, Dept of Mechanical & Industrial Engineering, Univ. of Thessaly.

Publications in scientific journals

[1] D. K. Fidaros, C.A. Baxevanou, **C.D. Dritselis** and N.S. Vlachos, '*Numerical modeling of flow and transport processes in a calciner for cement production*', Powder Technology, vol. 171:2, pp. 81-95, 2007.

[2] **Chris D. Dritselis** and Nicholas S. Vlachos, '*Numerical study of educed coherent structures in the near-wall region of a particle-laden channel flow*', Phys. Fluids, vol. 20, art. no. 055103 1-12, 2008.

[3] I.E. Sarris, A.I. Iatridis, **C.D. Dritselis**, and N.S. Vlachos, '*Magnetic field effect on the cooling of a low-Pr fluid in a vertical cylinder*', Phys. Fluids, vol. 22, art. no. 017101, 2010.

[4] **C.D. Dritselis**, I.E. Sarris, D.K. Fidaros, and N.S. Vlachos, '*Transport and deposition of neutral particles in magnetohydrodynamic turbulent channel flows at low magnetic Reynolds numbers"*, Int. J. Heat and Fluid Flow, vol. 32, pp. 365-377, 2011.

[5] **Chris D. Dritselis** and Nicholas S. Vlachos, '*Numerical investigation of momentum exchange between particles and coherent structures in low Re turbulent channel flow*', Phys. Fluids, vol. 23, art. no. 025103 1-15, 2011.

[6] **Chris D. Dritselis** and Nicholas S. Vlachos, '*Large eddy simulation of gas-particle turbulent channel flow with momentum exchange between the phases*', Int. J. Multiphase Flow, vol. 37, pp. 706-721, 2011.

[7] **C. D. Dritselis** and N. S. Vlachos, '*Effect of magnetic field on near-wall coherent structures and heat transfer in magnetohydrodynamic turbulent channel flow of low Prandtl number fluids*', Int. J. Heat and Mass Transfer, vol. 54, pp. 3594-3604, 2011.

Publications in books

[1] **C.D. Dritselis** and N.S. Vlachos, '*Direct numerical simulation of particle interaction with coherent structures in a turbulent channel flow*', Springer – Progress in Turbulence III, Springer Proceedings in Physics, vol. 131, pp. 175-178, 2010 (*Eds. Peinke J., Oberlack M., Talamelli A.*) ISBN: 978-3-642-02224-1.

International conferences (with referees)

[1] **C.D. Dritselis**, I.E. Sarris and N.S. Vlachos, '*Direct numerical simulation of particle pollutant transport and deposition in turbulent duct flows*', 9th International Conference on Environmental Science & Technology, Rhodes Greece,1-3 September 2005 (*published in Conference Proceedings, vol. A, pp. 346-351*, *also in the CD of Conference Proceedings*).

[2] **Chris D. Dritselis** and Nicholas S. Vlachos, '*Numerical study of educed coherent structures in the near wall region of a particle-laden channel flow*', 6th International Conference on Multiphase Flow, Leipzig Germany, 9-13 July 2007 (*full paper in the CD of Conference Proceedings, art. no. S3_Tue_C_24, pp. 1-10*).

[3] **C.D. Dritselis** and N.S. Vlachos, '*DNS/LES study of fluid-particle interaction in a turbulent channel flow at a low Reynolds number*', 6th International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2008, Kos Greece, 16-20 September 2008 (*published in AIP Conf. Proceedings, vol. 1048, pp. 735-738, 2008*).

[4] **C.D. Dritselis** and N.S. Vlachos, '*Direct numerical simulation of particle interaction with coherent structures in a turbulent channel flow*', iTi Conference on Turbulence III, Bertinoro Italy, 12-15 October 2008.

[5] **C.D. Dritselis**, M. Moutsikopoulou and N.S. Vlachos, '*Modeling of droplet deposition in two-phase gas-liquid annular pipe flows for environmental applications*', 11th International Conference on Environmental Science & Technology, Chania Crete, Greece, 3-5 September 2009 (*published in Conference Proceedings, vol. A, pp. 269-276, also in the CD of Conference Proceedings*).

[6] I.E. Sarris, A.I. Iatridis, **C.D. Dritselis** and N.S. Vlachos, '*Low-Prandtl number MHD cooling in a vertical cylindrical container*', 12th EUROMECH European Turbulence Conference-ETC12, Marburg Germany, 7-10 September 2009.

[7] **C.D. Dritselis** and N.S. Vlachos, '*On the effect of a transverse magnetic field on the coherent structures near the wall of a channel*', 6th International Symposium on Turbulence, Heat and Mass Transfer THMT09, Rome Italy, 14-18 September 2009 (*published by Begell House, Eds. K. Hanjalić, Y. Nagano, S. Jakirlić, pp. 997-1000, 2009. ISBN 978-1-56700-262-1, full paper in the CD of Conference Proceedings*).

[8] **C.D. Dritselis**, '*Large eddy simulation of particle-laden turbulent channel flow with transverse roughness elements on one wall*', 7th International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2009, Crete Greece, 18-22 September 2009 (*published in AIP Conf. Proceedings, vol. 1168, pp. 677-680, 2009*).

[9] **C.D. Dritselis**, A. Iatrides, I.E. Sarris and N.S. Vlachos, '*Turbulent dispersion of nonmetallic impurities in magnetohydrodynamic channel flow of liquid metals at lo magnetic Reynolds number*', 6th International Conference on Electromagnetic Processing of Materials EPM 2009, Dresden Germany, 19-23 October 2009, paper no. 226, pp. 1-4.

[10] **C.D. Dritselis** and N.S. Vlachos, '*Damping effect of magnetic fields on the turbulent coherent structures in material processing*', 6th International Conference on Electromagnetic Processing of Materials EPM 2009, Dresden Germany, 19-23 October 2009, paper no. 224, pp. 1-4.

[11] **C.D. Dritselis**, '*Numerical investigation of particle-laden turbulent channel flow with either longitudinal or transverse roughness elements on the lower wall* ', 7th International Conference on Multiphase Flow, Tampa, FL USA, May 30-June 4 2010.

Conferences and meetings

[1] D. Fidaros, **Ch. Dritselis** and N. Vlachos, '*Αριθμητικό Μοντέλο Προσομοίωσης Διεργασιών Ασβεστοποιητή – [Numerical Modeling of Calciner Processes]*', FLOW 2000: 2nd Meeting of Research Activities in Fluid Flow Phenomena in Greece, pp. 126-129, Univ. of Thessaly, Volos, Greece, 22 May 2000 (in Greek).

[2] **C. Dritselis**, D. Fidaros and N. Vlachos, '*Numerical Simulation of Flow and Transport Phenomena in Cyclones*', 1st Meeting of the Greek Section of ERCOFTAC, Thessaloniki Greece, 31 Jan.-1 Feb. 2002.

[3] **Ch. Dritselis**, D. Fidaros and N. Vlachos, '*Προσομοίωση Φαινομένων Ροής και Μεταφοράς σε Κυκλώνες Παραγωγής Τσιμέντου – [Simulation of Flow and Transport Phenomena in Cyclones for Cement Production]*, FLOW 2002: 3rd Meeting of Research Activities in Flow Phenomena in Greece, pp. 170-174, Univ. of Patras, 2-3 Oct. 2002 (in Greek).

[4] D. Fidaros, **C. Dritselis** and N. Vlachos, '*Numerical aspects of chemically reacting flows in cement calciners*', 3rd Meeting of the Greek Section of Combustion Institute, Patras, Greece, 2-3 October 2003.

[5] **C. Dritselis**, I. Sarris and N. Vlachos, '*Μελέτη της εναπόθεσης σε τυρβώδη ροή σε κατακόρυφο κανάλι με άμεση αριθμητική προσομοίωση – [Numerical study of particle deposition in a turbulent channel flow using DNS]*', FLOW2004: 4th Meeting of Research Activities in Fluid Flow in Greece, pp. 228-235, NTUA, Athens, 26 Nov. 2004 (in Greek).

[6] I. Sarris, **C. Dritselis**, A. Grecos and N. Vlachos, '*Άμεση προσομοίωση της επίδρασης μαγνητικού πεδίου στην ελεύθερη ψύξη υγρού μετάλλου σε κατακόρυφο κυλινδρικό δοχείο – [Direct numerical simulation of the magnetic field effect on free cooling of metals in a vertical cylindrical container]*', FLOW2004: 4th Meeting of Research Activities in Fluid Flow in Greece, NTUA, Athens (in Greek).

[7] I. Sarris, **C. Dritselis**, A. Grecos and N. Vlachos, '*Μελέτη της επίδρασης μαγνητικού πεδίου στην ψύξη με ελεύθερη συναγωγή υγρού μετάλλου σε κυλινδρικό δοχείο – [Study of magnetic field effect on the cooling by free convection of a liquid metal in a cylindrical container]*', CD-ROM 1st National Conference of Mechanical-Electrical Engineers, Athens, 38-30 March 2005 (in Greek).

[8] **C. Dritselis** and N. Vlachos, '*Συνεκτικές δομές σε τυρβώδη διφασική ροή αέρα-σωματιδίων σε αγωγό – [Coherent structures in two-phase flow of air-particles in a duct]*', FLOW2006: 5th Meeting of Research Activities in Fluid Flow in Greece, Univ. of Patras, 4 Nov. 2006 (in Greek).

[9] D.K. Fidaros, C.A. Baxevanou, **C.D. Dritselis** and N.S. Vlachos, '*Modelling of combustion and calcination in a cement precalciner*', Proceedings of the European Combustion Meeting ECM2007, Crete Greece, 11-13 April 2007.

[10] **C. Dritselis** and N. Vlachos, '*Μελέτη αλληλεπίδρασης ρευστού-σωματιδίων σε τυρβώδη ροή σε κανάλι με χρήση άμεσης αριθμητικής προσομοίωσης και προσομοίωσης μεγάλων δινών – [Study of fluid-particle interaction in a turbulent channel flow using DNS/LES methods]*', FLOW2008: 6th Meeting of Research Activities in Fluid Flow in Greece, pp. 1-8, Kozani, 28 Nov. 2008 (in Greek).

[11] A. Iatridis, I.E. Sarris, **C.D. Dritselis** and N.S. Vlachos, '*Επίδραση μαγνητικού πεδίου στη ψύξη ρευστού σε κυλινδρικό δοχείο με ελεύθερη συναγωγή – [Magnetic field effect on the natural convection cooling in a cylindrical container]*', FLOW2008: 6th Meeting of Research Activities in Fluid Flow in Greece, pp. 1-8, Kozani, 28 Nov. 2008 (in Greek).

[12] **C.D. Dritselis**, A. Iatridis, E. Benos, I.E. Sarris and N.S. Vlachos, '*Near wall coherent structures in MHD turbulent channel flow with heat transfer*', FLOW2010: 7th Pan-Hellenic Conference of Research Activities in Fluid Flow, pp. 73-82, Thessaloniki, 12-13 Nov. 2010.

[13] A. Iatridis, I.E. Sarris, **C.D. Dritselis**, and N.S. Vlachos, '*Επίδραση μαγνητικού πεδίου στη ψύξη ρευστού σε κυλινδρικό δοχείο με ελεύθερη συναγωγή – [Magnetic field effect on the natural convection cooling in a cylindrical container*', FLOW2010: 7th Pan-Hellenic Conference of Research Activities in Fluid Flow, pp. 225-232, Thessaloniki, 12-13 Nov. 2010 (in Greek).

Announcements-lectures-posters

[1] **C. Dritselis**, I. Sarris and N. Vlachos, '*Magnetohydrodynamic turbulent channel flow with neutral particle dispersion*', poster presentation, 3rd School on Fusion Physics & Technology, Volos Greece, 29 March-3 April 2004.

[2] I. Sarris, **C. Dritselis**, A. Graikos and N. Vlachos, '*Magnetic field effect on the natural convection cooling in a vertical cylindrical container*', poster presentation, 4th School on Fusion Physics & Technology, Volos Greece, 18-22 April 2005.

[3] **C. Dritselis**, I. Sarris and N. Vlachos, '*Particle-turbulence interaction in MHD channel flow*', presented at the Research Seminar Session of 7th School on Fusion Physics & Technology, Volos Greece, 14-19 April 2008.

[4] **C. Dritselis** and N. Vlachos, '*Near-wall coherent structures in MHD turbulent flows*', presented at the Workshop-2: Viscous MHD Flow, Heat Transfer & Turbulence (Dedicated to Dr. Alkis P. Grecos – Ret. Faculty U. Libre de Bruxelles), 8th School on Fusion Physics & Technology, Volos Greece, 6-11 April 2009.

[5] **C. Dritselis**, I. Sarris and N. Vlachos, '*Numerical investigation of MHD turbulent particle-laden flows using DNS/LES methods*', presented at the Research Seminar Session of 8th School on Fusion Physics & Technology, Volos Greece, 6-11 April 2009.

[6] A. Iatridis, I. Sarris, **C. Dritselis** and N. Vlachos, '*MHD natural convection cooling in cylindrical domains*', presented at the Research Seminar Session of 8th School on Fusion Physics & Technology, Volos Greece, 6-11 April 2009.

[7] **C.D. Dritselis**, '*Particle-coherent structures interactions*', presented at the Department of Mechanical & Manufacturing Engineering, Univ. of Cyprus, Cyprus, 27 October 2009.

[8] **C. Dritselis**, I. Sarris, D. Fidaros and N. Vlachos, '*Neutral particle transport and deposition in turbulent MHD flows*', poster presentation, 9th School on Fusion Physics & Technology, Volos Greece, 19-23 April 2010.

[9] I. Sarris, A. Iatrides, **C. Dritselis**, I. Sarris, D. Fidaros and N. Vlachos, '*Magnetic field effect on the cooling of low-Pr fluids in a vertical cylinder*', poster presentation, 9th School on Fusion Physics & Technology, Volos Greece, 19-23 April 2010.

[10] **C. Dritselis** and N. Vlachos, '*Coherent structures in MHD turbulent flows*', presented at the Workshop-2: MHD & Plasma Stability, 9th School on Fusion Physics & Technology, Volos Greece, 19-23 April 2010.

[11] **C. Dritselis**, I. Sarris, D. Fidaros, and N. Vlachos, '*Transport and deposition of neutral particles in MHD turbulent channel flows at low Rm*', poster presentation, 10th School on Fusion Physics & Technology, Volos Greece, 9-13 May 2011.

[12] **C. Dritselis** and N. Vlachos, '*MHD turbulent channel flow with heat transfer*', presented at the mini-symposium during the 10th School on Fusion Physics & Technology, Volos Greece, 9-13 May 2011.

Fellowships

[1] Fellowships from the Department of Mechanical & Industrial Engineering, 2001-02, 2002-03.

[2] 'HERACLETOS: Basic research', Ministry of National Education and Religious Affairs (funded by the EU), 2004-2006.

Referee for scientific journals

[1] International Journal of Multiphase Flow, IJMF.

Personal skills

Mother tongue: Greek.

Other languages: English.

Computers:

Very good knowledge of:

- Operating systems: DOS, Windows and UNIX (Linux).
- Programs: MS Office, AutoCad, Mathematica, LINDO, MRP and LaTeX.
- Commercial CFD applications: TEACH, DIAN, FLUENT, OpenFoam (*finite volume based CFD codes*), as well as several in-house CFD codes.
- Programming languages: FORTRAN 77/90/95 and C++.

Other:

- Experience with LES - Large Eddy Simulation and with high-resolution numerical simulations, DNS - Direct Numerical Simulation (*finite-differences and pseudospectral CFD codes*).
- Good knowledge of large-scale computations on high performance computing platforms and MPI parallelization (*Currently working on parallelizing several in-house CFD codes*).
- Good knowledge of experimental methods based on LASER, such as LDA and PDA.

Research fields and interests

Research:

- Modeling and physics of turbulence.
- Theoretical, numerical and experimental study of fluid-particle and particle-particle interactions.
- Magnetohydrodynamic flows (Full MHD equations, Low Rm approximation) with/without heat transfer and/or particle transport.
- Modeling (DNS/LES) and study of wall roughness effects on the mechanisms of turbulent transport of particles.
- Development of subgrid-scale turbulence models (LES) and numerical methods for the numerical solution of Navier–Stokes equations.
- Particle motion in the presence of stochastic electromagnetic fields.

Interests: Music (classic guitar), photography, painting, and athletics.

Citations

[1] Cao, S.-X., Zhang, Y., Chen, Y., Liu, S.-L., Zhang, S.-S., 2010, Aspen Plus based study on the oxygen consumption of alternative fuels in the cement calciner combustion process, 2010 International Conference on E-Product E-Service and E-Entertainment, ICEEE2010 , art. no. 5660137

[2] Li, W., Wu, B., Zhang, J., Chu, Y., 2011, Structure and function design of automatic control system for NSP cement clinker production process, Shenyang Jianzhu Daxue Xuebao (Ziran Kexue Ban)/Journal of Shenyang Jianzhu University (Natural Science) 27 (1), pp. 200-204

[3] Zhang, Y., Cao, S.-X., Shao, S., Chen, Y., Liu, S.-L., Zhang, S.-S., 2011, Aspen Plus-based simulation of a cement calciner and optimization analysis of air pollutants emission, Clean Technologies and Environmental Policy 13 (3), pp. 459-468

[4] Li, J., Wang, H.-F., Liu, Z.-H., Chen, S., Zheng, C.-G., 2011, PIV measurements of the effects of solid particulates on the coherent structures in a horizontal channel flow, Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics 32 (7), pp. 1157-1160.

[5] Huang, Y., Marshall, J.S., 2011, Experiments on bounded vortex flows and related particle transport, Journal of Fluids Engineering, Transactions of the ASME 133 (7), art. no. 071204.

[6] Zhao, L.H., Andersson, H.I., Gillissen, J.J.J., 2010, Turbulence modulation and drag reduction by spherical particles, Physics of Fluids 22 (8), art. no. 081702.

[7] Wang, B., 2010, Inter-phase interaction in a turbulent, vertical channel flow laden with heavy particles. Part I: Numerical methods and particle dispersion properties, International Journal of Heat and Mass Transfer 53 (11-12), pp. 2506-2521.

[8] Wang, B., 2010, Inter-phase interaction in a turbulent, vertical channel flow laden with heavy particles. Part II: Two-phase velocity statistical properties, International Journal of Heat and Mass Transfer 53 (11-12), pp. 2522-2529.

[9] Li, J., Wang, H.F., Liu, Z.H., Liu, Y.M., Han, H.F., Zheng, C.G., 2010, Experimental investigation on turbulence modulation in the boundary layer of a horizontal particle-laden channel flow with relative low mass loading ratios, AIP Conference Proceedings 1207, pp. 436-441.

[10] Li, J., Liu, Z.-H., Wang, H.-F., Chen, S., Liu, Y.-M., Han, H.-F., Zheng, C.-G., 2010, Turbulence modulations in the boundary layer of a horizontal particle-laden channel flow, Chinese Physics Letters 27 (6), art. no. 064701.

[11] Dou, H., Chen, Z., Huang, J., 2009, Numerical study of the coupled flow field in a Double-spray calciner, Proceedings-2009 International Conference on Computer Modeling and Simulation, ICCMS 2009, art. no. 4797367, pp. 119-123.

[12] Wang, Z., Yuan, M., Wang, B., Wang, H., Wang, T., 2008, Dynamic model of cement precalcination process, 2008, Proceedings of the IASTED International Conference on Modelling, Identification, and Control, MIC.

[13] Ahn, C.-I., Yoo, J.-B., Kim, Y.-T., Yi, S.-C., 2008, Computational modeling of the sintering process of ceramic particles in a fluidized bed furnace, Journal of Ceramic Processing Research 9 (6), pp. 569-575.

[14] Pogačnik, Ž, 2008, Connection between analysis results - Carbonate bomb and thermal analysis, [Zveza med analiznimi rezultati- Karbonatna bomba in termična analiza], Materiali in Tehnologije 42 (1), pp. 27-32.

References

[1] Prof. Vasilis Bontozoglou, Department of Mechanical Engineering, Univ. of Thessaly, Athens Avenue, 38334 Volos, Greece, Tel.: 0030 24210 74069, Fax: 0030 24210 74085, Email: bont@mie.uth.gr.

[2] Prof. Dimitris Valougeorgis, Department of Mechanical Engineering, U. of Thessaly, Athens Avenue, 38334 Volos, Greece, Tel.: 0030 24210 74058, Fax: 0030 24210 74085, Email: diva@mie.uth.gr.

[3] Emeritus Prof. Nicholas Vlachos, Department of Mechanical Engineering, Univ. of Thessaly, Athens Avenue, 38334 Volos, Greece, Tel.: 0030 24210 74094, Fax: 00302421074085, Email: vlachos@mie.uth.gr.