



Dr. Sotiris P. Evgenidis
Post-doctoral Fellow
Multiphase Dynamics Group
School of Chemistry
Aristotle University of Thessaloniki
Greece

PERSONAL

Born:	21 December 1981 in Thessaloniki, Greece
Nationality:	Greek
Marital Status:	Married, two children
Working Address:	Division of Chemical Technology, School of Chemistry Aristotle University of Thessaloniki Univ. Box 116, 54124 Thessaloniki, Greece
Tel.:	+30 2310 997798
E-mail:	sevgenid@chem.auth.gr
Webpage:	http://karapant.webpages.auth.gr/

STUDIES

<u>10/2004 – 08/2010:</u>	PhD in Chemistry, School of Chemistry, Aristotle University of Thessaloniki, Greece General degree: 10/10
<u>01/2013 – 05/2015:</u>	MSc in Chemistry, School of Chemistry, Aristotle University of Thessaloniki, Greece General degree: 9.17/10
<u>10/1999 – 09/2004:</u>	Chemistry Degree, School of Chemistry, Aristotle University of Thessaloniki, Greece General degree: 7.46/10

Theses

<u>Post-Doctoral Objective:</u>	Diagnosis of Decompression Sickness and Coronary Disease by means of electrical impedance measurements
<u>PhD Thesis:</u>	Development of an electrical technique for the detection and characterization of bubbles in liquid flow
<u>MSc Thesis:</u>	Simulation of electrical signals for the case of bubbly flow

Graduate Thesis: Electrical technique development for measuring surface tension

WORKING EXPERIENCE

- 2019-2020: Research project: “*Innovative high efficiency boiler using “smart” heat transfer surfaces*” (Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020-EPAnEK)
- 2017-2018: Stavros Niarchos Foundation (SNF) Scholarship: “*Electrical Impedance Spectroscopy device for the diagnosis of Coronary Artery Disease (Cor-IS)*” (Eastern Macedonia and Thrace Institute of Technology-EMaTTech)
- 2017: Participation in 66th ESA Parabolic Flight Campaign (05/2017)
Experiment: “*Heat transfer in porous media*”
- 2016: Organizing Committee member of the Conference:
“*Smart and Green Interfaces 2016*”
Athens, Greece, May 04 - 06, 2016
- 2016: Participation in 64th ESA Parabolic Flight Campaign (04/2016)
Experiment: “*Heat transfer in porous media*”
- 2015: Organizing Committee member of the Conference:
“*22nd E.L.G.R.A. Symposium and General Assembly*”
Corfu, Greece, September 29 – October 01, 2015
- 2014 – 2015: Research Project: “*Biocide management for long term water storage*” (ESA, TRP, 4000109529/13/NL/CP, 118993/2013, 2014-2015)
- 2014: Organizing Committee member of the Conference:
“*10th European Conference on Foams and Applications-EUFOAM 2014*”
Thessaloniki, Greece, July 7-10, 2014
- 2013 – 2014: Project: “*Smart and green interfaces: from single bubbles/drops to industrial/environmental/biomedical applications*” (ESF/COST Action CGA-MP1106-2nd year, 53351/2013, 2013-2014).
- 2005 – 2013: Research Project: “*In-Vivo Embolic Detector*”
Phase I (ESA GSTP RFQ/3-10938/04/NL/PA, 2004-2005),
Phase II (ESA GSTP CCN/3-18354/05/NL/PA, 2006-2007),
Phase IIIa (ESA GSTP CCN/6-18354/05/NL/PA, 2009-2010),
Phase IIIb (ESA GSTP C4000101764/10/NL/SFe, 2010-2012)
Phase IVa (ESA GSTP CCN2 4000101764/10/NL/SFe, 41027/2013, 2013)
- 2009: Organizing Committee member of the Conference:
4th International Workshop “Bubble and Drop Interfaces” jointly organized with COST P21 Action “Physics of Droplets” 8th Management Committee + Working Groups Meetings
Thessaloniki, Greece, September 23 – 25, 2009
- 2008 - 2009: Participation in 49th and 50th ESA Parabolic Flight Campaigns (11/2008 & 05/2009)
Experiment: “*Mass diffusion-induced bubble growth in supersaturated solutions at temperatures below boiling: the role of g-jitters to heat conduction*”
- 2006 – 2009: Research Project: “*Development of an electrical technique for the detection and characterization of bubbles in bubbly liquid flows*” (Greek Ministry of Education & EuroDiving Trading Inc., PENED 2003, 03ED376/3403/19-01-2006, 2006-2009).

2005: Organizing Committee member of the Conference:
“*Biennial Meeting – General Assembly, E.L.G.R.A.*”
Santorini, Greece, September 21 – 23, 2005

TEACHING EXPERIENCE

2006, 2007, 2015, 2016,
2017, 2018: “Laboratory of *Introduction in Chemical Technology*”, School of Chemistry,
Aristotle University of Thessaloniki, Greece

2005, 2006, 2007, 2016,
2017: “*Laboratory of Physical processes*”, School of Chemistry, Aristotle
University of Thessaloniki, Greece

RESEARCH CO-SUPERVISION

PhD Thesis (2014-2020): “*Bubble dynamics during degassing of liquids*”, Ourania Oikonomidou,
School of Chemistry, Aristotle University of Thessaloniki, Greece.

MSc Thesis (2013): “*Study of vertical upward co-current bubbly flow using a non-Newtonian
liquid that simulates human blood*”, Petros Gkotsis, School of Chemistry,
Aristotle University of Thessaloniki, Greece.

Graduate Thesis (2009): “*Bubble size determination in dense dispersion employing image processing
software*”, Petros Gkotsis, School of Chemistry, Aristotle University of
Thessaloniki, Greece.

Graduate Thesis (2009): “*Development of a novel technique for the study of gas/liquid films stability
during foam drainage*”, Aggelos Zamanis, School of Chemistry, Aristotle
University of Thessaloniki, Greece.

PUBLICATIONS

Patents:

1. Thodoris D. Karapantsios, Aggelos Zamanis, Sotiris P. Evgenidis, Margaritis Kostoglou, “Novel method of liquid/liquid interfacial tension determination and liquid/liquid, liquid/gas interface stability study”, *Hellenic Industrial Property Organisation*, Patent Application No. GR20200100562, 16-09-2020.
2. Thodoris D. Karapantsios, Sotiris P. Evgenidis, Konstantinos Zacharias, Giorgos Karagiannis, “Non-invasive impedance spectroscopy device for early diagnosis of Coronary Artery Disease and method therefor”, *European Patent Office*, EP 3245947 A1, 2017.
3. Thodoris D. Karapantsios, Sotiris P. Evgenidis, Konstantinos Zacharias, Giorgos Karagiannis, “Innovative, non-invasive electrical impedance spectroscopy technique for early diagnosis of Coronary Artery Disease”, *Hellenic Industrial Property Organisation*, 1009123, 2016.
4. Thodoris D. Karapantsios, Sotiris P. Evgenidis, Konstantinos Zacharias, Thodoris Mesimeris, “Method for the detection and characterization of bubbles in liquids and device therefor, resp. system”, *European Patent Office*, EP 3005942 A1, 2016.

Peer-Reviewed Scientific Journals:

5. S. P. Evgenidis, K. Zacharias, V. Papadopoulou, S. Theunissen, C. Balestra, T. D. Karapantsios, “In-human demonstration of an innovative electrical impedance sensor for assessing decompression stress”, *Diving and Hyperbaric Medicine*, submitted, March 2021.
6. W. Tzevelekos, Q. Galand, S. Evgenidis, K. Zacharias, T. Karapantsios, S. Van Vaerenbergh, “High-resolution concentration measurement in water/n-butanol binary system by means of high-frequency electrical impedance method”, *Experimental Thermal and Fluid Science*, **126**, 110399, 2021.
DOI: <https://doi.org/10.1016/j.expthermflusci.2021.110399>

7. M. Kostoglou, T. D. Karapantsios, S. P. Evgenidis, "On a generalized framework for turbulent collision frequency models in flotation: The road from past inconsistencies to a concise algebraic expression for fine particles", *Advances in Colloid and Interface Science*, **284**, 102270, 2020.
DOI: <https://doi.org/10.1016/j.cis.2020.102270>
8. P. Gkotsis, S. P. Evgenidis, T. D. Karapantsios, "Associating void fraction signals with bubble clusters features in co-current, upward gas-liquid flow of a non-Newtonian liquid", *International Journal of Multiphase Flow*, **131**, 103297, 2020.
DOI: <https://doi.org/10.1016/j.ijmultiphaseflow.2020.103297>
9. A. P. Chondrou, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, "Stability of emulsions prepared with an innovative miniature pulsating emulsification device", *Colloids and Interfaces*, **4(1)**, 7, 2020.
10. S. Evgenidis, K. Zacharias, G. Karagiannis, V. Papadopoulou, N. Renne, S. Theunissen, C. Balestra, T. Karapantsios, "Assessment of endothelial functionality by means of electrical impedance measurements", *Scientific Chronicles*, **24(3)**, 417-433, 2019.
11. P. Gkotsis, S. P. Evgenidis, T. D. Karapantsios, "Influence of Newtonian and non-Newtonian fluid behaviour on void fraction and bubble size for a gas-liquid flow of sub-millimeter bubbles at low void fractions", *Experimental Thermal and Fluid Science*, **109**, 109912, 2019.
12. O. Oikonomidou, S. P. Evgenidis, C. J. Schwarz, J. J.W.A. van Loon, M. Kostoglou, T. D. Karapantsios, "Degassing of a decompressed flowing liquid under hypergravity conditions", *International Journal of Multiphase Flow*, **115**, 126-136, 2019.
13. S. P. Evgenidis, T. D. Karapantsios, "Gas-liquid flow of sub-millimeter bubbles at low void fractions: Void fraction prediction using drift-flux model", *Experimental Thermal and Fluid Science*, **98**, 195-205, 2018.
14. S. P. Evgenidis, T. D. Karapantsios, "Gas-liquid flow of sub-millimeter bubbles at low void fractions: Experimental study of bubble size distribution and void fraction", *International Journal of Heat and Fluid Flow*, **71**, 353-365, 2018.
15. I. Rios-Lopez, S. Evgenidis, M. Kostoglou, X. Zabulis, T. D. Karapantsios, "Effect of initial droplet shape on the tangential force required for spreading and sliding along a solid surface", *Colloids and Surfaces A: Physicochemical and Engineering special issue*, **549**, 164-173, 2018.
16. O. Oikonomidou, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, "Degassing of a pressurized liquid saturated with dissolved gas when injected to a low pressure liquid pool", *Experimental Thermal and Fluid Science*, **96**, 347-357, 2018.
17. S. P. Evgenidis, K. Kalic, M. Kostoglou, T. D. Karapantsios, "Kerberos: A three camera headed centrifugal/tilting device for studying wetting/dewetting under the influence of controlled body forces", *Colloids and Surfaces A: Physicochemical and Engineering special issue (S.I. Victor Starov)*, **521**, 38-48, 2017.
18. V. Papadopoulou, S. Evgenidis, R. J. Eckersley, T. Mesimeris, C. Balestra, M. Kostoglou, M.-X. Tang, T. Karapantsios, "Decompression induced bubble dynamics on ex-vivo fat and muscle tissue surfaces with a new experimental set-up", *Colloids and Surfaces B: Biointerfaces*, **129**, 121-129, 2015.
19. S. P. Evgenidis, T. D. Karapantsios, "Effect of bubble size on void fraction fluctuations in dispersed bubble flows", *International Journal of Multiphase Flow*, **75**, 163-173, 2015.
20. M. Kostoglou, S. P. Evgenidis, T. D. Karapantsios, "Unexpected natural convection heat transfer for small Rayleigh numbers in external geometry", *International Journal of Heat & Mass Transfer*, **64**, 773-782, 2013.
21. M. Kostoglou, S. P. Evgenidis, K. A. Zacharias, T. D. Karapantsios, "Heat transfer from small objects in microgravity: experiments and analysis", *International Journal of Heat & Mass Transfer*, **54**, 3323-3333, 2011.

22. S. P. Evgenidis, K. A. Zacharias, T. D. Karapantsios, M. Kostoglou, "Effect of liquid properties on heat transfer from miniature heaters at different gravity conditions", *Microgravity Science & Technology*, **23**, 123-128, 2011.
23. S. P. Evgenidis, N. A. Kazakis and T. D. Karapantsios, "Bubbly flow characteristics during decompression sickness: Effect of surfactant and electrolyte on bubble size distribution", *Colloids and Surfaces A: Physicochem. Eng. Aspects*, **365**, 46-51, 2010.
24. T. D. Karapantsios, M. Kostoglou and S. P. Evgenidis, "From single bubbles on solid surfaces to massive bubbly flows during decompression sickness", *J. Gravit. Phys.*, **15**, 227, 2008.
25. T.D. Karapantsios, M. Kostoglou and S. Evgenidis, "From the growth and detachment of single bubbles to massive bubbly flows", *Newsletter of the European Low Gravity Research Association*, **6**, 4-6, 2008.
26. S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, "Electrical conductance study of θ -liquid bridges", *J. Colloid Interface Sci.*, **302**(2), 597-604, 2006.

Presentations/Posters in Scientific Conferences

27. J. Lioumbas, S. Evgenidis, T. Tsilipiras, M. Kostoglou, T. Karapantsios. "Effect of micro-gravity on boiling during the immersion of a water saturated porous matrix in hot oil", *26th ELGRA Symposium and General Assembly*, Granada, Spain, September 24-27, 2019.
28. O. Oikonomidou, S. Evgenidis, C. J. Schwarz, J. J.W.A. van Loon, M. Kostoglou, T. Karapantsios. "Bubbles forming under hypergravity accelerations due to the degassing of a liquid jet", *26th ELGRA Symposium and General Assembly*, Granada, Spain, September 24-27, 2019.
29. S. Evgenidis, K. Zacharias, V. Papadopoulou, N. Renne, S. Theunissen, C. Balestra, T. Karapantsios. "Post-dive detection of endothelial dysfunction and bubbles as markers of decompression stress in scuba divers", *8th Conference: Bubble and Drop*, Sofia, Bulgaria, June 24-28, 2019.
30. I. Rios-Lopez, S. Evgenidis, M. Kostoglou, T. Karapantsios. "Droplet spreading & sliding on solid substrates under controlled body forces", *8th Conference: Bubble and Drop*, Sofia, Bulgaria, June 24-28, 2019.
31. O. Oikonomidou, S. Evgenidis, C. J. Schwarz, J. J.W.A. van Loon, M. Kostoglou, T. Karapantsios. "Degassing of a liquid jet under various gravitational accelerations", *8th Conference: Bubble and Drop*, Sofia, Bulgaria, June 24-28, 2019.
32. S. P. Evgenidis, K. Zacharias, T. D. Karapantsios, "In-Vivo Embolic Detector (I-VED): Technology for bubbles detection in living subjects", *Invited Research Seminar*, Joint Department of Biomedical Engineering-UNC Chapel Hill & NC State University, February 4, 2019.
33. S. P. Evgenidis, K. Zacharias, V. Papadopoulou, N. Renne, S. Theunissen, C. Balestra, T. D. Karapantsios, "Investigation of post-dive endothelial functionality through electrical impedance measurements", *"Flowing Matter 2018" COST MP1305 Conference*, Lisbon, Portugal, February 5-9, 2018.
34. O. Oikonomidou, S. Evgenidis, M. Kostoglou, T. Karapantsios, Liquid degassing under hypergravity conditions, *1st Conference of Chemistry Undergraduate/Postgraduate students of Aristotle University: Research-The perspective for growth*, Thessaloniki, Greece, November 10-12, 2017.
35. O. Oikonomidou, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, Degassing of a pressurized liquid saturated with dissolved gas when injected to a low pressure liquid pool, *"Flowing Matter 2017" COST MP1305 Conference*, Porto, Portugal, January 23-27, 2017.
36. A. Zamanis, S. Evgenidis, M. Kostoglou, T. Karapantsios, "Novel method for the determination of liquid surface tension and stability of gas / liquid interfaces in foam applications", *22nd Greek Conference of Chemistry*, Thessaloniki, Greece, December 2-4, 2016

37. S. P. Evgenidis, K. Zacharias, V. Papadopoulou, N. Renne, S. Theunissen, C. Balestra, T. D. Karapantsios, "Application of an innovative electrical technique for the detection of post-dive endothelial dysfunction", *42th Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS 2016)*, Geneva, Switzerland, September 13-16, 2016.
38. S. P. Evgenidis, K. Zacharias, V. Papadopoulou, S. Theunissen, C. Balestra, T. D. Karapantsios, "Post-dive detection of bubbles in scuba divers employing electrical impedance spectroscopy measurements", *42th Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS 2016)*, Geneva, Switzerland, September 13-16, 2016.
39. S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, Study of void fraction fluctuations dependence on bubble size through experimental and simulated electrical signal analysis, *Smart and Green Interfaces 2016*, Athens, Greece, May 04-06, 2016.
40. S. P. Evgenidis, P. Zikou, T. D. Karapantsios, Application of electrical resistance tomography and differential pressure method for low void fraction values determination in bubbly flow of sub-millimeter bubbles, *Smart and Green Interfaces 2016*, Athens, Greece, May 04-06, 2016.
41. K. Kalic, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, "Kerberos": A three camera headed (X-Y-Z) centrifugal device for studying liquid spreading on solid substrates under the influence of varying body forces, *Smart and Green Interfaces 2016*, Athens, Greece, May 04-06, 2016.
42. O. Oikonomidou, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, Saturation Pressure effect on the size of bubbles formed due to liquid decompression, *Smart and Green Interfaces 2016*, Athens, Greece, May 04-06, 2016.
43. A. Zamanis, S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, Experimental determination of thin film drainage around single foam bubbles, *Smart and Green Interfaces 2016*, Athens, Greece, May 04-06, 2016.
44. W. Tzevelecos, S. Evgenidis, K. Zacharias, T. Karapantsios, S. Van Vaerenbergh, Development of a Solubility Distribution Measurement Technique for Self-Rewetting Fluids Investigation: SELENE space project, *22nd ELGRA Symposium and General Assembly*, Corfu, Greece, September 29-October 1, 2015.
45. S. Evgenidis, K. Zacharias, V. Papadopoulou, S. Theunissen, C. Balestra, T. Karapantsios, In-Vivo Embolic Detector (I-VED): Recent Advancements on the Diagnosis of Decompression Sickness through Electrical Measurements of Exceptional High Temporal and Spatial Resolution, *22nd ELGRA Symposium and General Assembly*, Corfu, Greece, September 29-October 1, 2015.
46. O. Oikonomidou, S. Evgenidis, M. Kostoglou, T. Karapantsios, Bubble Size Evolution During Decompression Flow Degassing Under Terrestrial and Hypergravity Conditions, *22nd ELGRA Symposium and General Assembly*, Corfu, Greece, September 29-October 1, 2015.
47. S. P. Evgenidis, M. Vlachou, P. K. Gkotsis, T. D. Karapantsios, Study of bubble clumps in vertical co-current upward gas/non-newtonian liquid flow, *6th International Workshop on Bubble and Drop Interfaces*, Potsdam/Golm, Germany, July 06-10, 2015
48. S. P. Evgenidis, K. Zacharias, A. Mesimeris, T. D. Karapantsios, T. Mesimeris, G. Karagiannis, S. Stefanidou, M. Kotsiou, In-Vivo Embolic Detector (I-VED): Research advancements on bubbles detection in living subjects, *Smart and Green Interfaces 2015*, Belgrade, Serbia, March 30-April 01, 2015.
49. O. Oikonomidou, S. Evgenidis, M. Kostoglou, T. D. Karapantsios, Assessment of parameters affecting "flow" decompression degassing performance, *Smart and Green Interfaces 2015*, Belgrade, Serbia, March 30-April 01, 2015.
50. A. Mesimeris, S. P. Evgenidis, K. Zacharias, T. D. Karapantsios, T. Mesimeris, G. Karagiannis, S. Stefanidou, M. Kotsiou, "In-Vivo Embolic Detector (I-VED): Exploitation of electrical impedance spectroscopy measurements for bubbles detection in human body", *40th Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS 2014)*, Wiesbaden, Germany, September 24-27, 2014.

51. V. Papadopoulou, S. Evgenidis, R. J. Eckersley, T. Mesimeris, C. Balestra, M.-X. Tang, T. Karapantsios, "A study of decompression induced bubble dynamics on different tissue surfaces with a novel experimental set-up", *40th Annual Scientific Meeting of the European Underwater and Baromedical Society (EUBS 2014)*, Wiesbaden, Germany, September 24-27, 2014.
52. M. Petala, S. Evgenidis, V. Tsiridis, J. Georgieva, M. Kostoglou, S. Sotiropoulos, E. Darakas, T. Karapantsios, "International Space Station drinking water: Biocide management for long term water storage", *Smart and Green Interfaces 2014*, Marseilles, France, April 22-24, 2014.
53. S. P. Evgenidis, K. Zacharias, T. Mesimeris, T. D. Karapantsios, "In-Vivo Embolic Detector (I-VED): Electrical impedance response of different human body sites", *Smart and Green Interfaces 2014*, Marseilles, France, April 22-24, 2014.
54. S. P. Evgenidis, M. Kostoglou, T. D. Karapantsios, "A novel centrifugal technique for studying droplet's contact line motion dynamics on solid substrates under the influence of varying body forces", *Smart and Green Interfaces 2014*, Marseilles, France, April 22-24, 2014.
55. V. Papadopoulou, S. Evgenidis, R. J. Eckersley, T. Mesimeris, C. Balestra, M.-X. Tang, T. Karapantsios, "Decompression induced bubble growth on tissue surfaces", *Smart and Green Interfaces 2014*, Marseilles, France, April 22-24, 2014.
56. Petros K. Gkotsis, Sotiris P. Evgenidis, Thodoris D. Karapantsios, "Study of isolated bubbles and bubble clusters in co-current upward two-phase flow", *Workshop-COST Action MP1106: Multiphase flows with/without phase change*, Zaragoza, Spain, September 3-4, 2013.
57. V. Papadopoulou, S. Evgenidis, R. Eckersley, C. Balestra, M. Tang, T. Karapantsios, "Decompression Induced Bubble Growth on Tissue Surfaces from Gas Saturated Solutions", *Tricontinental Scientific Meeting on Diving and Hyperbaric Medicine-EUBS 2013*, St. Gilles, Reunion Island, Indian Ocean, September 22-29, 2013.
58. Sotiris P. Evgenidis, Konstantinos Zacharias, Thodoris D. Karapantsios, Ioannis Savvas, Kiriaki Pavlidou, Lysimachos Papazoglou, Michail Patsikas, "An electrical technique for detection of micro-bubbles in living subjects with in-vitro validation", *Smart and Green Interfaces 2013*, Prague, Czech Republic, March 21-22, 2013.
59. Petros K. Gkotsis, Sotiris P. Evgenidis, Thodoris D. Karapantsios, "Influence of pseudoplasticity and surface tension on gas volumetric concentration and bubble characteristics in two-phase co-current upward flow", *Smart and Green Interfaces 2013*, Prague, Czech Republic, March 21-22, 2013.
60. Virginie Papadopoulou, Sotiris Evgenidis, Robert J. Eckersley, Costantino Balestra, Meng-Xing Tang, Thodoris Karapantsios, "Effect of different tissue surfaces on decompression induced bubble growth from gas saturated solutions", *Smart and Green Interfaces 2013*, Prague, Czech Republic, March 21-22, 2013.
61. K. Slenzka, S. Podhajsky, J. Hochstein, S. Evgenidis, T. Karapantsios, "Modular design of 4 ISS relevant multi-phase flow experiments using an in-vivo embolic detector (I-VED)", *Seventh International Symposium on TWO-PHASE SYSTEMS FOR GROUND AND SPACE APPLICATIONS*, Beijing, China, September 17-22, 2012.
62. Evgenidis Sotiris, Zacharias Konstantinos, Samaras Konstantinos, Papazoglou Lysimachos, Karapantsios Thodoris, "A new electrical technique for the detection of bubbles in living subjects", *5th International Workshop on Bubble and Drop Interfaces (B&D 2012)*, Krakow, Poland, May 20 – 24, 2012.
63. Sotiris P. Evgenidis, Konstantinos Zacharias, Lysimachos Papazoglou & Thodoris D. Karapantsios, "IN VIVO EMBOLIC DETECTOR: A NON-INVASIVE ELECTRICAL TECHNIQUE FOR THE DETERMINATION OF BUBBLES CHARACTERISTICS DURING DECOMPRESSION SICKNESS", *E.L.G.R.A. Biennial Symposium and General Assembly "Gravity: from μ to x!"*, Antwerp, Belgium, September 6 – 9, 2011.

64. Evgenidis S., Karapantsios T., “Non-invasive techniques for the determination of bubbles characteristics during liquids handling and processing”, *European Advanced Life Support Workshop - ESA*, Universitat Autònoma de Barcelona, Spain, June 2 – 4, 2009.
65. Sotiris P. Evgenidis, Kostantinos Zacharias, Margaritis Kostoglou & Thodoris D. Karapantsios*, “Effect of gravity level on heat transfer from small spheroids”, *ELGRA Biennial Symposium and General Assembly "In the Footsteps of Columbus"*, Bonn, Germany, September 1 - 4, 2009.
66. Hatzidafni A., Evgenidis S., Lioumbas I. and Karapantsios T., “Electrical Resistance Tomography in upward co-current bubbly flow”, *4th International Workshop "Bubble and Drop Interfaces" jointly organized with COST P21 Action "Physics of Droplets" 8th Management Committee + Working Groups Meetings*, Thessaloniki, Greece, September 23 – 25, 2009.
67. T.D. Karapantsios, M. Kostoglou, S.P. Evgenidis, “From single bubbles on solid surfaces to massive bubbly flows during decompression sickness”, *Proceedings of the Symposium "Life in Space for Life on Earth"*, 22 - 27 June, Angers, France, 2008 (ESA, SP-663, December 2008).
68. M. Kostoglou, T.D. Karapantsios, A. Zamanis, S.P. Evgenidis “A new device for measuring thin film drainage around single foam bubbles”, *EUFOAM 2008, 9th European Conference on Foams, Emulsions and Applications*, ESA/ESTEC, Noordwijk, The Netherlands, July 8 - 10, 2008.
69. Konstantinos A. Zacharias, Sotiris P. Evgenidis, Thodoris D. Karapantsios, "An advanced Acoustical Technique for measuring bubbles in stagnant and flowing liquids", *Workshop: COST P21: The Physics of droplets*, Capri, Italy, May 15, 2008
70. Sotiris P. Evgenidis, Xenophon Zabulis, Thodoris D. Karapantsios, " Effect of surfactant and electrolyte on bubble size distribution in low gas fraction bubbly flows", *Workshop: COST P21: The Physics of droplets*, Capri, Italy, May 15, 2008
71. Konstantinos Zacharias, Sotiris P. Evgenidis, Thodoris D. Karapantsios, "Detection of bubbles in liquids with acoustical and electrical measurements", *Workshop: COST P21: The Physics of droplets*, Twente, Netherlands, October 08, 2007
72. Sotiris P. Evgenidis, Konstantinos Zacharias, Thodoris D. Karapantsios, "Detection of bubbles in two-phase flows with optical and electrical measurements", *Workshop: COST P21: The Physics of droplets*, Twente, Netherlands, October 08, 2007
73. Sotiris P. Evgenidis, Thodoris D. Karapantsios, "Bubble size distribution by optical, electrical and acoustical measurements", *Workshop: COST P21: The Physics of droplets*, Liege, Belgium, June 12, 2007
74. Evgenidis S., Karapantsios T.D. and Kostoglou M. “Characterization of electrically conducting liquid bridge”, *EUFOAM 2006, 6th European Conference on Foams, Emulsions and Applications*, Potsdam, Germany, July 2 - 6, 2006.
75. Kalogianni E. P., Altiparmakis C., Evgenidis S., Mesimeris T., Sideridis G., Karapantsios T. D., “In Vivo Embolic Detector (IVED): Phase I”, *Biennial Meeting – General Assembly, E.L.G.R.A.*, Santorini, Greece, September 21 – 23, 2005.

Presentations in Scientific Events

76. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, The Cor-IS Project, *Innovative Research and Student Groups of Aristotle University*, Pavilion 12 (Digital Greece, Ministry of Digital Policy, Telecommunications and Media), International Fair of Thessaloniki, Thessaloniki, Greece, 15 September, 2019.
77. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, In-Vivo Embolic Detector (I-VED): Technology for Decompression Sickness detection during astronaut activities on Moon, Invited Lecture, *Hellas to the Moon*, Hellenic Space Agency-Ministry of Digital Policy, Telecommunications and Media, Athens, Greece, 19 April, 2019.

78. S. Evgenidis, Representing Thallium in the Periodic Table of Younger Chemists for performing and exploiting research under micro- and hyper-gravity conditions, Invited Lecture, *Contact with the Periodic Table of Chemical Elements*, Association of Greek Chemists-Regional Department of Central and Western Macedonia, Thessaloniki, Greece, 11 April, 2019.
79. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, A medical device from space for Coronary Artery Disease diagnosis, *11th International University Competition on Entrepreneurship and Innovation 2018-Ennovation 2018*, Athens, Greece, 30 January, 2019.
80. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Technology Transfer from Space: Electrical Impedance Spectroscopy device for the diagnosis of Coronary Artery Disease, Invited Lecture, *When Space meets health*, ESA European Space Research and Technology Centre (ESA/ESTEC), Netherlands, 8 November, 2016.
81. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Electrical Impedance Spectroscopy device for the diagnosis of Coronary Artery Disease, *DLD Innovation Festival*, Tel-Aviv, Israel, 26 September, 2016.
82. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Invited Demonstration of Cor-IS device operation for the diagnosis of Coronary Artery Disease, *Pavilion of General Secretariat for Research & Technology (GSRT) in International Fair of Thessaloniki*, Thessaloniki, Greece, 10-18 September, 2016.
83. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Breaking the Wall of Coronary Artery Disease, *Falling Walls Lab in Berlin 2015*, Berlin, Germany, 8-9 November, 2015.
84. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Innovative electrical impedance spectroscopy: Technology transfer from space on ground applications, Invited Lecture, *9th Innovation and Growth Multi-Conference*, Thessaloniki, Greece, 7 November, 2015.
85. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Innovative portable impedance spectroscopy device for the diagnosis of Coronary Artery Disease (Cor-IS), *Falling Walls Lab in Athens 2015*, Athens, Greece, 8 October, 2015.
86. S. Evgenidis, K. Zacharias, G. Karagiannis, T. Karapantsios, Innovative Impedance Spectroscopy device for early indication and diagnosis of Coronary disease, *“Down to Earth Competition 2014, Greece”*, Athens, Greece, 27 November 2014.
87. S. Evgenidis, J. Lioumbas, T. Karapantsios, Emerging technologies in diagnostics and industrial applications, *Successful R&I in Europe 2014 – 6th European Networking Event*, Dusseldorf, Germany, 30-31 October, 2014.

DISTINCTIONS

1. Member of the Editorial Board (Review Editor) of *Frontiers in Space Technologies – Microgravity*, April 2020-present.
2. Selection of Dr. Sotiris Evgenidis to represent Thallium in the Periodic Table of Younger Chemists for the celebration of IUPAC100 and International Year of the Periodic Table (<https://iupac.org/100/pt-of-chemist/#sotiris-evgenidis-tl>), Murcia, Spain, 11 February, 2019.
3. Winner of “Technology Innovation Award” and “National Bank of Greece Business Seeds Award” for “A medical device from space for Coronary Artery Disease diagnosis” among 204 projects in the “11th International University Competition on Entrepreneurship and Innovation 2018-Ennovation 2018”, Athens, Greece, 30 January, 2019.
4. Publication 11 was included in the “Editor’s Favourite Papers” of the *International Journal of Heat and Fluid Flow* for 2018.

5. Publication **11** was awarded from Elsevier with the “*Most Downloaded Article*” Certification of the *International Journal of Heat and Fluid Flow* between June and September 2018 (measured by SCOPUS).
6. S. Evgenidis, “Electrical Impedance Spectroscopy device for early diagnosis of Coronary Artery Disease: From Space to Earth (Cor-IS)” in “Fellowships, Eastern Macedonia & Thrace Institute of Technology”, *Nature*, **557**, 749, 2018.
7. Top 100 Entry in the “*Create the Future 2017 Design Contest*” among 1100 innovative engineering products from 60 countries, organized by *Tech Briefs Media Group* (publisher of NASA Tech Briefs, the largest-circulation design-engineering magazine worldwide and Aerospace & Defense Technology, the largest-circulation engineering magazine for the mil/aero market), for “*Portable and Non-Invasive Electrical Device for the Diagnosis of Coronary Artery Disease (Cor-IS)*”, 11 November, 2017.
8. ESPA 2014-2020 Post-Doctoral Scholarship for “*Novel, non-intrusive assessment of vascular endothelium functionality*”, State Scholarships Foundation (IKY), June 2017 – May 2019, Grant: 26.141,04 €
9. Stavros Niarchos Foundation (SNF) Scholarship for “*Electrical Impedance Spectroscopy device for the diagnosis of Coronary Artery Disease (Cor-IS)*”, Eastern Macedonia and Thrace Institute of Technology (EMaTTEch), October 2016 – September 2018, Grant: 60.000 €
10. Award of Excellence from Aristotle University of Thessaloniki for the “*Non-invasive, innovative, portable electrical impedance spectroscopy technique for the diagnosis of Coronary Artery Disease*”, Thessaloniki, Greece, 28 January 2016.
11. Publication **16** was awarded with “*TOP25*” Certification from Elsevier-ScienceDirect as the 13th most downloaded article of the *International Journal of Multiphase Flow* between July and September 2015.
12. Qualification to Innovation Competition “*Falling Walls Lab in Berlin*” including the 100 greatest breakthroughs of the world in 2015 for “*Innovative portable impedance spectroscopy device for the diagnosis of Coronary Artery Disease-Cor-IS*”, Berlin, Germany, 8 November, 2015.
13. Winner of Innovation Competition “*Falling Walls Lab in Athens*” for “*Innovative portable impedance spectroscopy device for the diagnosis of Coronary Artery Disease-Cor-IS*”, Athens, Greece, 8 October, 2015.
14. Winner of Space Technology Transfer to Ground Applications Competition “*Down to Earth Competition 2014, Greece*” organized by the European Space Agency (ESA) and KINNO Consultants Ltd. with the support of the Greek Delegation to ESA / General Secretariat for Research & Technology (GSRT) for “*Innovative Impedance Spectroscopy device for early indication and diagnosis of Coronary disease*”, Athens, Greece, 27 November, 2014
15. “*Thomas Aggelidis*” Scholarship, Lab of General and Inorganic Chemical Technology, School of Chemistry, Aristotle University of Thessaloniki, 2010, Grant: 1.500 €

SEMINARS

1. Joint Cluster Meeting: “*Medical Diagnostics and Advanced Therapies / Sustainable Food Science and Technology*”, COST Action MP1106: Smart and green interfaces – from single bubbles and drops to industrial, environmental and biomedical applications (SGI), Naples, Italy, November 6-7, 2014.
2. 1st Training School “*Physico-chemical and flow behavior of droplet-based systems*”, COST P21: The Physics of droplets, Villa Orlandi, Anacapri, Italy, May 12-14, 2008.
3. 100 hours Seminar, Project P.E.N.E.D. 2003: “*Research methodology, management of research and innovation, evaluation of technology, incorporation of research and technological knowledge in the procedure of the financial and social evolution*”, Aristotle University of Thessaloniki, Greece, May 15-30, 2007

MEMBERSHIP

- Greek Chemists Association