

CURRICULUM VITAE

PERSONAL DATA

Surname.....: Stergioudi
Name.....: Fani
Middle Name.....: George
Date of birth.....: 12-07-1984
Birth place.....: Thessaloniki
Address: Department of Mechanical Engineering, Physical
Metallurgy Laboratory, Aristotle University of
Thessaloniki, Thessaloniki 54124 Greece
E-mail.....: fstergio@auth.gr
Scientific interests.....: Production of porous metals, Characterization of
materials, Mechanical properties of porous materials,
Modeling of porous metals and metal foams, Surface
modification of porous metals, Nanotechnology

FORMAL EDUCATION

09/2002-07/2007 Degree on Mechanical Engineering, Mechanical Engineering
Department, Aristotle University of Thessaloniki, (certificate grade: 9,13)
11/2007-until now PhD student, Mechanical Engineering Department, Aristotle University of
Thessaloniki
10/2007-10/2009 Master degree on “Nanosciences and Nanotechnologies”, Aristotle
University of Thessaloniki, (certificate grade: 9,31).

FOREIGN LANGUAGES

- English (European level C2)
- French (European level B2)

SCHOLARSHIPS

2002 Scholarship from the State Scholarships Foundation of Greece for high ranking
grades in national examinations for entering Mechanical Engineering
Department of Aristotle University of Thessaloniki.
2002-2003 Scholarship from the State Scholarships Foundation of Greece for high ranking
grades in each academic year during undergraduate studies.

- 2003 Award from the Technical Chamber of Greece for academic excellence during undergraduate studies.
- 2004-2005 Scholarship from the State Scholarships Foundation of Greece for high ranking grades in each academic year during undergraduate studies.
- 2004 Award from the Technical Chamber of Greece for academic excellence during undergraduate studies.
- 2005-2006 Scholarship from the State Scholarships Foundation of Greece for high ranking grades in each academic year during undergraduate studies.
- 2006-2007 Scholarship from the State Scholarships Foundation of Greece for high ranking grades in each academic year during undergraduate studies.
- 2007-2008 Scholarship for high ranking grades in each academic year during postgraduate studies.
- 2008-2009 Scholarship for high ranking grades in each academic year during postgraduate studies.
- 2009 Scholarship of excellency from the Research Centre of Aristotle University of Thessaloniki to support PhD research at Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.

WORKING EXPERIENCE

- 04/2008-06/2008 Academic Assistant-Tutor, Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.
- 09/2008-12/2008 Academic Assistant-Tutor, Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.
- 01/2009-06/2009 Academic Assistant-Tutor, Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.
- 09/2009-12/2009 Academic Assistant-Tutor, Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.
- 01/2010-06/2010 Academic Assistant-Tutor, Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.
- 09/2010-12/2010 Academic Assistant-Tutor, Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.

ATTENDANCE ON SCIENTIFIC ASSOCIATIONS

- Technical Chamber of Greece (TEE),
- Association of Mechanical and Electrical Engineers of Northern Greece

TRAININGS / SEMINARS / ATTENDANCE ON SCIENTIFIC CONFERENCES

- International conference on Applied Crystallography, Wisla, Poland, September 2006.
- 3th European School for Materials Science, Ljubljana, Slovenia, May 2008.
- 2th International Summer School on Nanosciences and Nanotechnologies (SS-NN08) and 5th International Workshop on Nanosciences and Nanotechnologies (NN08), Thessaloniki, Greece, July 2008.
- 3th International Summer School on Nanosciences and Nanotechnologies (SS-NN08) and 6th International Workshop on Nanosciences and Nanotechnologies (NN09), Thessaloniki, Greece, July 2009.
- 6th International Conference on Porous Metals and Metallic Foams (METFOAM), Bratislava, Slovakia, September 2009.
- 7th International Conference of the Balkan Physical Union (BPU7), Alexandroupolis, Greece, September 2009.

PUBLICATIONS IN SCIENTIFIC JOURNALS

- 1) N. Michailidis, F. Stergioudi, H. Omar, D.N. Tsipas, Investigation of the Mechanical Behavior of Open-Cell Ni Foams, by Experimental and FEM Procedures, *Advanced Engineering Materials* 10 (2008), pp. 1122.
- 2) N. Michailidis, F. Stergioudi, H. Omar, D.N. Tsipas, An image-based reconstruction of the 3D geometry of an Al open-cell foam and FEM modelling, *Mechanics of Materials* 42 (2010), pp. 142-147.
- 3) N. Michailidis, F. Stergioudi, H. Omar, E. Paulidou, D.N. Tsipas, C. Albanakis, D. Missirlis, K. Yakinthos, A. Goulas, B. Granier, Microstructural characterization of oxide morphologies on Ni and Inconel foams exposed to concentrated solar radiation, *Journal of Alloys and Compounds* 496, (2010) pp. 644-649.
- 4) N. Michailidis, F. Stergioudi, H. Omar, D.N. Tsipas, FEM modeling of the response of porous Al in micro-compression, *Computational Material Science* 48, (2010) pp. 282-286.
- 5) D.P. Papadopoulos, H. Omar, F. Stergioudi, S.A. Tsipas, H. Lefakis, N. Michailidis, A novel method for producing Al-foams and evaluation of their compression behaviour, *Journal of Porous Materials* 17, (2010) pp. 773-777.
- 6) N. Michailidis, F. Stergioudi, Establishment of process parameters for producing Al-foam by dissolution and powder sintering method, *Materials and Design* 32, (2011) pp. 1559-1564.
- 7) N. Michailidis, F. Stergioudi, A. Tsouknidas, E. Pavlidou, Compressive response of Al-foams produced via a powder sintering process based on a leachable space-holder material, *Materials Science and Engineering A* 528, (2011) pp.1662–1667.

- 8) N. Michailidis, F. Stergioudi, D. N. Tsipas, Manufacturing of Open-Cell Metal Foams Using a Novel Leachable Pattern, *Advanced Engineering Materials* (2010), in Press, DOI: 10.1002/adem.201000141.
- 9) D. P Papadopoulos, H. Omar, F. Stergioudi, S. A Tsipas, N. Michailidis, The use of Dolomite as foaming agent and its effect on the microstructure of Aluminum metal foams - Comparison to Titanium Hydride, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2010), in Press, doi:10.1016/j.colsurfa.2010.12.005.
- 10) N. Michailidis, F Stergioudi, H. Omar, D. Papadopoulos, D.N. Tsipas, Experimental and FEM analysis of the material response of porous metals imposed to mechanical loading" has been accepted for publication in *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2010), in Press.

PUBLICATIONS IN CONFERENCE PROCEEDINGS

- 1) F. Stergioudi and D. Tsipas, Evolution of Fe₃Si Phase During Siliconising of Ferrous Materials, *Diffusion and Defect Data Pt.B: Solid State Phenomena* 130 (2007), pp. 89-92.
- 2) N. Michailidis, F. Stergioudi, H. Omar, D.N. Tsipas, Study on the mechanical behavior of open-cell metal foams, accepted for oral presentation in 3th Pan-Hellenic Symposium on Porous Materials, 1-2 November 2007, Centre for Research and Technology Hellas (CERTH), Themi, Thessaloniki.
- 3) D.P. Papadopoulos, H. Omar, S. Tsipas, F. Stergioudi, N Michailidis, D.N. Tsipas, Dolomite mineral as foaming agent for producing closed cell Al metal foams, accepted for oral presentation in 7th International conference of Eufoam (EUFOAM), 8-10 July 2008, Noordwijk, Netherlands.
- 4) N. Michailidis, F Stergioudi, H. Omar, D.N. Tsipas, Comparison of the response between 2D and 3D FEM models in compression of porous Al-foam, proceedings of the 6th International Conference on Porous Metals and Metallic Foams (METFOAM), 1-4 September 2009, Bratislava, Slovakia.
- 5) H. Omar, N. Papanastasiou, P. Psyllaki, S.A. Tsipas, F. Stergioudi, N. Michailidis, D.N. Tsipas, Surface Modification of Nickel Foams by a Slurry Aluminizing Process, *AIP Conference Proceedings* 1203 (2009), pp. 832-836.
- 6) N. Michailidis, F. Stergioudi, H. Omar, D.N. Tsipas, Fabrication of Open-Cell Al Foams and Evaluation of their Mechanical Response under Tension, *AIP Conference Proceedings* 1203 (2009), pp. 826-831.
- 7) F. Stergioudi, N. Frangis, Structural Modulations in Bi₂Te₃ and Related Systems, accepted for poster presentation in the 6th International Workshop on Nanosciences and Nanotechnologies (NN09), 14-16 July 2009, Thessaloniki, Greece.

- 8) H. Omar, N. Papanastasiou, P. Psyllaki, S.A. Tsipas, F. Stergioudi, N. Michailidis, D.N. Tsipas, Surface Modification of Nickel Foams, proceedings of the International Conference on Cellular Materials (CELLMAT), 27-29 October 2010, Dresden, Germany.
- 9) N. Michailidis, F. Stergioudi, O. Haidar, D. Missirlis, C. Albanakis, P. Psyllaki, S. Tsipas, Z. Vlahostergios, B. Granier, Application of Ni-Foam as Volumetric Solar Receiver: Flow, Thermal and Microstructural Evaluation, proceedings of the 16th SolarPACES International Conference, 21-24 September 2010, Perpignan, France.
- 10) D. P Papadopoulos, H. Omar, F. Stergioudi, S. A Tsipas, N. Michailidis, The use of Dolomite as foaming agent and its effect on the microstructure of Aluminum metal foams - Comparison to Titanium Hydride, accepted for poster presentation in 8th International conference of Eufoam (EUFOAM), 14-16 July 2010, Borovets, Bulgaria.
- 11) N. Michailidis, F Stergioudi, H. Omar, D. Papadopoulos, D.N. Tsipas, Experimental and FEM analysis of the material response of porous metals imposed to mechanical loading" accepted for oral presentation in 8th International conference of Eufoam (EUFOAM), 14-16 July 2010, Borovets, Bulgaria.
- 12) N. Michailidis, F Stergioudi, H. Omar, D.N. Tsipas, The use of tomographic images for modeling the compressive behavior of Al-foams, 4th Pan-Hellenic Conference of Metallic Materials, 4-5 November 2010, Thessaloniki, Greece.
- 13) N. Michailidis, F Stergioudi, Optimization of production parameters for Al-foam by using a dissolution and powder sintering method, 4th Pan-Hellenic Conference of Metallic Materials, 4-5 November 2010, Thessaloniki, Greece.
- 14) N. Michailidis, F Stergioudi, Manufacturing of open-cell metal foams using crystalline carbohydrate as leachable space-holder material, 4th Pan-Hellenic Conference of Metallic Materials, 4-5 November 2010, Thessaloniki, Greece.