



Curriculum Vitae

MEHMET MASUM TUNCAY

MARMARA UNIVERSITY

METALLURGICAL and MATERIALS ENGINEERING

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Education:

- 2012-present : McGill University, Mining and Materials Engineering, PhD student
2009-2012 : Marmara University, Institute of Science, Metallurgical and Materials Engineering, MSc
2006-2010 : Marmara University, Faculty of Engineering, Department of Mechanical Engineering, B.S.
2004-2009 : Marmara University, Faculty of Engineering, Metallurgical and Materials Engineering, B.S.

Work Experiences:

- 2011-present : Research Assistant at Marmara University Metallurgical and Materials Engineering Department, Istanbul, Turkey
2010-2012 : MSc student researcher at Dizayn Group, Istanbul, Turkey
2010-2010 : Intern in Turkish Airlines Technical Unit, Istanbul, Turkey
2007-2007 : Intern in Kale Porcelain Electrotechnical Industry, Istanbul, Turkey

Previous Research Experiences:

- Project titles: Profile optimization of corrugated infrastructure pipes,
Photoelastic stress analysis of buried pipes
Dates: September 2010 - May 2012
Advisor(s): Prof. Dr. Ziya Abdulaliyev, Assoc. Prof. Dr. Senol Ataoglu

Institution(s): Istanbul Technical University, Dizayn Group Technology,
Marmara University

Project title: Improvement of the impact capacity of the epoxy matrix
Kevlar reinforced composites

Dates: September 2008 - June 2009

Advisor(s): Prof. Dr. Arif Nihat Gulluoglu

Institution: Marmara University

Achievements:

- August 2012, PhD scholarship (The Council of Higher Education of Turkey)
- June 2009, most successful student to graduate from Metallurgical and Materials Engineering program and fifth rank in the Engineering Faculty of Marmara University
- September 2008, TUBITAK scholarship for my B.S. thesis

Conferences:

- M.M. Tuncay, L. Ngyuen and M. Brochu, "Direct Pressing of Aluminum and AA7075 Near-net Shapes by Spark Plasma Sintering", Material Science & Technology, October 8-12nd 2015, Pittsburgh (Pennsylvania, USA), oral presentation
- M. Brochu, M. Tuncay, S. Rudinsky, and L. Ngyuen, "The Influence of Surface Powder State on Neck Development and Diffusion during Spark Plasma Sintering ", Material Science & Technology, October 8-12nd 2015, Pittsburgh (Pennsylvania, USA), oral presentation
- M.M. Tünçay, A.Ghosh, H.Aydın and M. Brochu, "Evaluation of near-net shapes for Spark Plasma Sintering of AA7075", CASI Aeronautics Conference, May 19-21st 2015, Montreal (Quebec, Canada), oral presentation
- M.M. Tünçay, P. Hendrickx, L. Nguyen and M. Brochu, "Modeling densification of Al-Mg-Zn alloys consolidated by Spark Plasma

Sintering", Canadian Materials Science Conference, June 2-5th 2015, Halifax (Nova Scotia, Canada), oral presentation

Publications:

- M.M. Tünçay, J.A. Muñiz-Lerma, D.P. Bishop, M. Brochu, Spark Plasma Sintering and Upsetting of a Gas-Atomized/Air-Atomized Al Alloy Powder Mixture, J. Mater. Eng. Perform., (2017).
- M.M. Tünçay, J.A. Muñiz-Lerma, D.P. Bishop, M. Brochu, Spark plasma sintering and spark plasma upsetting of an Al-Zn-Mg-Cu alloy, Mater. Sci. Eng.: A, 704 (2017) 154-163.
- M.M. Tünçay, L. Nguyen, P. Hendrickx, M. Brochu, Evaluation of the Particle Bonding for Aluminum Sample Produced by Spark Plasma Sintering, J. Mater. Eng. Perform., 25 (2016) 4521-4528.
- P. Hendrickx, M.M. Tünçay, M. Brochu, Recyclability assessment of Al 7075 chips produced by cold comminution and consolidation using spark plasma sintering, Can. Metall. Q., 55 (2016) 94-103.
- J. Milligan, P. Hendrickx, M.M. Tünçay, E.A. Olevsky, M. Brochu, Modeling residual porosity in thick components consolidated by spark plasma sintering, Scr. Mater., 76 (2014) 53-56.

Languages Known:

English (Advanced)
Turkish (Mother Tongue)

Computer Skills :

- SolidWorks
- ABAQUS
- COMSOL
- MS Office

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