Dr. Nikolaos D. Hassiotis

Teaching Staff and Technical Support of the UTH

(Department of Mechanical Engineering)

Short Bio

Nikolaos D. Hassiotis, Metallurgical Engineer (Master of Science in Metal Working and Heat Treatment 1982, Dr. Engineer- PhD In Materials Science and Engineering 1993, Polytechnic University of Bucharest-UPB and Political Scientist 2010, Pnteion University of Social and the Political Science-Athens) Teaching Staff in metal working, manufacturing engineering and machining processes and Technical Support of Dep. of Mechanical Eng.

Prior to joining UTH, he worked:

● As a Chief Production Engineer at the Melting Division of Hellenic Ferrous Industry (ELSI SA) at the Ferro-Chromium Plant (Magnesia-Greece), 1983-1991.

Field of Activity: Design and control of Ferro-chromium alloy production and casting process, Optimization of industrial and technological processes, Industrial equipment maintenance procedures, Development of special Ferro-chromium qualities and Economical-Technical analysis of the production process

● As a Freelancer Metallurgical Engineer

Field of Activity: Studies and research in Metallic Materials Technology; Technical study and design of Industrial metallurgical processes and Development of research programs, 1992-1994

● As Teaching Staff and Technical Support of the UTH (Dep. of Mechanical Engineering)

Field of Activity: Autonomous University Teaching Courses (Heat treatment of metallic materials, Welding and Casting, Mechanical behavior of metallic materials, Forming Processes and Equipment, Corrosion and Protection of metallic materials, Physical metallurgy, Tribology, Introduction to manufacturing engineering and Machining processes), 1994-2019

Research Activities and Interests

1. Development of New Material Metallurgical Technology through Casting Processes, 2. Metallurgy of Ferro Alloys and Special Properties of Iron Chromium, 3. Optimization of the Metallurgical Production, 4. Casting and Heat Treatment of Stainless Steel and Refractory Steel, 4. Thermochemical and Surface Treatment of Metallic Materials and Mechanical Components, 5. Impact of Machining on the Corrosion Resistance of Metallic Materials, 6. Corrosion Behavior of Aluminum Air Alloys, 7. Simulation of Methods for the Treatment of Metallic Materials with Resistance and Mechanical Behavior

Publications

- N.D. Hassiotis, Design of Heat Treatment, Mineral Wealth, Vol.102, p.17-30, 1997
- H. Flandorfer, J. Groebner, A. Stamou, N.D. Hassiotis, P. Rogl and G.N. Haidemenopoulos., Experimental Investigation and Thermodynamic Calculation of the Ternary System Mn-Y-Zr., Zeitschrift für Metallkunde, Vol 88, No 7, 1997, p. 529-538.
- G.N. Haidemenopoulos, N.D. Hassiotis, G. Papapolymerou, and V. Bontozoglou, Hydrogen Absorption into Aluminum Alloy 2024-T3 During Exfoliation and Alternate Immersion Testing, Corrosion, Vol.54, No.1, p.73-78, 1998.
- N. D. Hassiotis, G. Petropoulos, Influence of surface roughness on corrosion resistance of turned carbon steel parts, Int. Journal of Machining and Machinability of Materials (IJMMM) , Vol. 1, No 2, p. 202-212 , 2006.
- N. Hassiotis , G. Petropoulos , C. Hatzopoulos , N. Vaxevanidis Influence of Surface Topography on Corrosion of Stainless Steel AISI 304 Turned Surfaces with different Cutting Advanced Materials Research Vols. 18-19 , pp. 399- 405, (2007) © (2007) Trans Tech Publications, Switzerland
- N.D. Hassiotis, Analysis and Design Optimization of Gas Carburizing at Controlled Atmospheres, Mineral Wealth, Vol. 117, p.37-50, 2000.
- N. Hassiotis, G. Petropoulos and N. Vaxevanidis, On the Relationship between Topography and Corrosion Resistance of Machined Steel Surfaces, European Congress on Advanced Materials and Processes EUROMAT 99, Munich Germany, 27-29 September 1999.