

Eitan Tiferet Curriculum Vitae 2019

Personal

- Born: 22.9.1974
- Family Status: Married +5.
- E-mail: tiferete@gmail.com.

Education

- 1999-2003: **B.Sc.** in Nuclear Engineering, Faculty of Engineering, Ben Gurion University of the Negev, (IIIrd & IVth year with excellence).
- 2004-2008: **Ph.D.** Thesis: "Initial Water vapor Adsorption and Oxidation of Stressed Polycrystalline Uranium Surface-Effect of thermal Annealing", Thesis advisors: Dr. N. Shamir, Prof. M.H. Mintz and Prof. I. Jacob.
- 2014: Post doc. Sabbatical leave at the University of California Davis, calorimetric measurements of various Uranium compounds in Prof. Alexandra Navarotzky's lab.

Professional Experience

- Since 2015: Head of the Additive Manufacturing Center, Rotem Ind.
- Since 2007: Research Staff member, Department of Materials Science, NRCN, Israel.
 - Additive manufacturing, optimization of mechanical properties.
 - Powder technology densification systems (HIP, CIP, sintering).
 - Powder Particles shape & size distribution characterization.
 - Surface Analysis (XPS, AES, DRS).

Educational Activities

(a) Course taught

Additive Manufacturing of metals. BGU. (2018, 2019).

(b) Research students

Ph.D.

- From 2018: (with Dr. I. Orion) Mr. E. Damri, Thesis: "Simulation study of interactions between electron beam and powders during EBM additive manufacturing processes", Nuclear Engineering Unit, Ben Gurion University of the Negev.
- From 2018: (with Dr. E. Caspi and Prof. R. Shneck) Mr. G. Rafailov, Thesis: "Texture analysis of additively manufactured Ti64 by neutron diffraction", Materials Engineering department, Ben Gurion University of the Negev.
- From 2018: (with Prof. G. Ziskind) Mr. E. Landau, Thesis: "Thermo-mechanical properties of additively manufactured powder bed, electron beam melting processes", Nuclear Engineering department, Ben Gurion University of the Negev.
- From 2014: (with Dr. I. Orion) Mr. M. Geller, (exam passed), Thesis: "Low Energy Electron Transport Measurements in Solids", Nuclear Engineering department, Ben Gurion University of the Negev.
- 2010-2014: (with Dr. I. Orion) Mr. A. Givon, Thesis: "Low Energy Electrons Attenuation by Low Z Materials", Nuclear Engineering department, Ben Gurion University of the Negev.

M.Sc. - Full Research Theses

- 2014-2017: M.Sc. co-advisor of Mr. Z. Sefer, Thesis: "Additive Manufacturing: radiation Damage effects on AlSi10Mg ", Nuclear Engineering department, Ben Gurion University of the Negev.
- 2011-2013: M.Sc. co-advisor of Mr. G. Ainshech, Thesis: "Monte Carlo Simulations of Low Electron Energy in Solids ", Nuclear Engineering department, Ben Gurion University of the Negev.
- 2009-2011: M.Sc. co-advisor of Mr. M. Geller, Thesis: "Fabrication & Analysis of Low Z Thin Layers", Nuclear Engineering department, Ben Gurion University of the Negev.
- 2009-2010: M.Sc. co-advisor of Mr. A. Givon, Thesis: "Low Energy Electrons Attenuation by Low Z Materials", Nuclear Engineering department, Ben Gurion University of the Negev.
- 2002-2004: Head instructor, advanced laboratory. Teaching and Research assistant, Nuclear Engineering department, Ben Gurion University of the Negev.