

Ravit Silverstein

Havazelet 8, Ness Ziona, Israel
Phone: 052-8108826
Email: barrav@post.bgu.ac.il

I.D. 038020699

Date of birth – 11.10.1985

- Educational Background -

- Ph.D (2011)** **Materials Engineering,**
Ben-Gurion University of the Negev, Beer-Sheva
Ph.D thesis advisor: Professor Dan Eliezer, Dr. Daniel Moreno and
Dr. Benny Glam.
Thesis: *The Influence of Inclusion and Hydrogen on the
Microstructure and Dynamic Strength of Materials.*
- M. Sc (2009-2011)** **Materials Engineering,**
Ben-Gurion University of the Negev, Beer-Sheva.
Final average: 95.
M.Sc thesis advisor: Professor Dan Eliezer.
Thesis: *The Influence of Hydrogen on Thermal Desorption
Processes in Structural Materials.*
- B. Sc (2005-2009)** **Materials Engineering,**
Ben-Gurion University of the Negev, Beer-Sheva.
Final average: 87.
Electronic Materials program
Project: *Development of nanocrystalline thermoelectric films on p-
type Bi₂Te₃ based compound*

- Employment-

a- Teaching experience

- 2009-2013** **Teaching assistant,**
Department of Materials Engineering, Ben-Gurion University of the
Negev, Beer-Sheva, Israel.
Laboratories: Materials laboratory 1- Metallography, TTT,
Quenching; Materials laboratory 4- grain and solid solution
hardening; Materials laboratory 5- Ultrasonics, Radiography.
- 2011-2013** **Lecturer for undergraduate students-** Introduction to materials science,
SCE College

b- Military service

2004-2005 Israel Air- Force intelligence.
Course: operation sergeant.

-Awards and scholarships-

2014 'NEGEV' scholarship
2013 Intel award for academic excellence
2011 MSc graduation with high honors with an average mark 96

- Computer skills-

Office (Word, Excel, PowerPoint, Outlook).
Solidworks. Matlab.

- Publications -

1. **R. Silverstein**, D. Eliezer, B. Glam, D. Moreno and S. Eliezer, "Evaluation of hydrogen trapping mechanisms during performance of different hydrogen fugacity in a lean duplex stainless steel". Journal of Alloys and Compounds. (Accepted- JALCOM-S-15-04690) 2015.
2. **R. Silverstein**, D. Eliezer, "Hydrogen trapping mechanism of different duplex stainless steels alloys", Journal of Alloys and Compounds 644: 280–286, 2015.
3. **R. Silverstein**, D. Eliezer, B. Glam, D. Moreno and S. Eliezer, "Dynamic strength of duplex steel in the presence of hydrogen". In OCAS (Ed.), SteelyHydrogen2014 Conference Proceedings. Ghent: Lode Duprez. 662–666, 2014.
4. **R. Silverstein**, D. Eliezer, B. Glam, D. Moreno, S. Eliezer, "Influence of Hydrogen on the Microstructure and Dynamic Strength of Lean Duplex Stainless Steel", Journal of Materials Science 49:4025–4031, 2013.
5. **R. Bar**, E. Dabah, D. Eliezer, T. Kannengiesser and T. Boellinghaus, "The Influence of Hydrogen on Thermal Desorption Processes in Structural Materials," Procedia Engineering 10:3668–3676, 2011.

- Conferences participant –

1. **R. Silverstein**, D. Eliezer, B. Glam, D. Moreno and S. Eliezer, "The influence of inclusions or hydrogen on the microstructure and dynamic strength of materials", 19th Biennial APS Conference on Shock Compression of Condensed Matter (SCCM), Tampa Florida 2015.
2. **R. Silverstein**, D. Eliezer, B. Glam, D. Moreno and S. Eliezer, "Dynamic strength of Duplex steel in the presence of hydrogen", Steely Hydrogen Conference, Ghent 2014.
3. **R. Silverstein**, E. Dabah, D. Eliezer, T. Kannengiesser and T. Boellinghaus, "The Influence of Hydrogen on Thermal Desorption Processes in Duplex Stainless Steels", The 16th Israel Materials Engineering Conference (IMEC-16), Hifa Israel 2014.
4. **R. Silverstein**, D. Eliezer, B. Glam, D. Moreno, S. Eliezer, "The Influence of Hydrogen on the Microstructure and Dynamic Strength of Lean Duplex Stainless Steel", The International Conference on Intergranular and Interphase Boundaries in Materials (IIB13), Halkidiki Greece 2013.
5. **R. Silverstein**, E. Dabah, D. Eliezer, T. Kannengiesser and T. Boellinghaus, "The Influence of Hydrogen on Thermal Desorption Processes in Duplex and Super Martensitic Stainless Steels", The 15th Israel Materials Engineering Conference (IMEC-15), Dead Sea Israel 2012.
6. **R. Bar**, E. Dabah, D. Eliezer, T. Kannengiesser and T. Boellinghaus, "The Influence of Hydrogen on Thermal Desorption Processes in Structural Materials", International Conference on Mechanical Behavior of Materials (ICM11), Lake Como Italy 2011.