# CURRICULUM VITAE

## Salhov Shai

## Personal information

**Date of birth:** 29 August 1967

**Nationality**: Israeli

**1986-1990:** Israel Defense Forces.

**Married:** since 1999, 4 children.

**Home Address:** Erez Hemda 10 ,Beer-Sheva, Israel

## Education

**2011** **M.Sc. in Material Science and Engineering**.
Ben-Gurion University of the Negev, P.O.Box 653, Beer-Sheva, Israel

**Thesis:** "Phase Transformation and microstructure of binary Uranium – Gallium alloys".

Supervisor by: Prof. Moshe Dariel and Prof. Giora Kimmel.

**1998** **B.Sc. in Material Science and Engineering.**
Ben-Gurion University of the Negev, P.O.Box 653, Beer-Sheva, Israel.

**Project topic**: "preparation and characterization of Al – Be alloys".

Supervisor by: prof. Eli Abramov and Dr. Gavriel Zamir

### Employment

**Since 2012:** Researcher Metallurgical Processing group, Material Department, Nuclear Research Center – Negev.

**2011-2012:**Sabbatical - Department of Materials Engineering, Ben-Gurion University of the Negev. Host: Prof. Nachum Frage.

Research subjects: Dissolution Kinetics and Solubility Limit of ceramics in Molten Salts.

**1999-2011:** Researcher -Physical Metallurgy group, Physics Department, Nuclear Research Center – Negev.

**Publications**

2.1 L. Meshi, Y. Linden, A. Munitz, **S. Salhov**, M. Pinkas, "Retardation of the σ phase formation in the AlCoCrFeNi multi component alloy", Materials Characterization 148, p171-177, (2019).

2.2 A. Munitz, **S. Salhov**, G. Guttmann, N. Derimow, M. Nahmany, "Heat treatment influence on Microstructure and mechanical properties of AlCrFeNiTi0.5 High Entropy Alloys", Materials Science and Engineering A, ,742, p. 1-14 (2019).

2.3 A. Broide, O. Rivin, S. Maskova, M. Lucas, A. Hen, I. Orion, **S. Salhov**, M. Shandalov, A. Moreira Dos Santos, J. Molaison, Z. Chen, I. Halevy, "Pressure Induced Crystal Structure Transition in Fe-Cr Alloys", International Journal of Engineering Science Invention, 7 (2018) 01.

2.4 A. Munitz, S. Samuha, E. Brosh, **S. Salhov**, N. Derimow, R. Abbaschian, "Liquid phase separation phenomena in $Ai_{2.2}CrCuFeNi_2$ HEA", Intermetallics 97 p. 77-84 (2018).

2.5 A. Munitz, **S. Salhov**, S. Hayun, N. Frage, "Heat treatment impacts the micro structure and mechanical properties of AlCoCrFeNi high entropy alloy", Journal of Alloys and Compounds 683 p. 221-230 (2016).

2.6 O. Rivin, A. Broide, S. Maskova, M. S. Lucas, A. Hen, I. Orion, **S. Salhov**, M. Shandalov,A. M. D. Santos, J. Molaison, Z. Chen, I. Halevy, "High Pressure Neutron Powder Diffraction Study of Fe1-x Crx With and Without Hydrogen Exposure", Hyperfine Interact Vol 231, p. 29-36 (2015).

2.7 M. Aizenshtein, **S. Salhov**, N. Froumin, N. Frage, "Brazing Boron Carbid by Cu – Alloys: Interface Interaction and Mechanical Properties of Joints", Journal of Materials Science Research Vol 2 No 1, p. 42-48 (2013).

2.8 **S. Salhov**, Michael Aizenshtein, Natalya Froumin, Shmuel Barzilai, Nachum Frage, "Dissolution Kinetics and Solubility Limit of $CaF_2$ in Molten KCl-NaCl Salt", Journal of Materials Science Vol 48, No 8. (2013).

2.9 I. Halevy, **S. Salhov**, M. L. Winterrose, A. Broide, A.F Yue, A. Robin, O. Yeheskel, J. Hu, and I. Yaar, "High pressure study and electronic structure of the super-alloy $HfIr_3$", Journal of physics, 215, (2010).

2.10 O. Yeheskel, M. Shokhat, **S. Salhov** and O. Tevet, "Effect of Initial Particle and Agglomerate Size on the Elastic Modeli of Porous Yttria (Y2O3)", Journal Am. Ceram. Soc. , 92(8), 1655-1662, (2009).

2.11 **S. Salhov**, G. Kimmel and M.P. Dariel, "Contribution to the U-Ga phase diagram", Journal of Alloys and Compounds 444. (2007) p. 257-260.

2.12 I. Halevy, I. Yaar, V. Z. Zenou, **S. Salhov**, E. N. Caspi, H. Ettedgui, "High pressure study of the intermetallic compound UFe2Al10", Journal of Alloys and Compounds 419. (2006) p. 21-24.

2.13 I. Halevy, **S. Salhov**, A.F. Yue, J. Hu, I. Yaar, "Crystallographic and electronic structure of HfNi under high pressure", Hyperfine Interaction 159. (2004) p. 357-362.

2.14 I. Yaar, I. Halevy, **S. Salhov**, E. Caspi, N. Dubman, M. Kahane, Z. Berant, "TDPAC study of the intermetallic compound $HfCo_3B_2$", Hyperfine Interaction 158. (2004) p. 285-291.

2.15 I. Halevy, E. Ustundag, **S. Salhov**, A.F. Yue, A. Broide and J. Hu, "High pressure study of a Zr-based bulk metallic glass and its composite", Zeitschrift für Kristallographie 219. (2004) p. 166-171. I. Halevy, S. Salhov, S. Zalkind, M. Brill, I. Yaar, "High pressure study of β-UH3 crystallographic and electronic structure", Journal of Alloys and Compounds 370. (2004) p. 59-64.

2.16 I. Halevy, **S. Salhov**, G. Kimmel, A.P. Gonçalves and W. Schäfer, "High Pressure studies of the $UFe_5Al_7$ and $UFe_7Al_5$ Actinide compounds", Journal of Nuclear Science and Technology 3. (2002) p.152-155.

2.17 Halevy, **S. Salhov**, G. Kimmel, U. Atzmony, L. C. J. Pereira, A. P. Gonçalves, and W. Schäfer, "High Pressure Studies Of ThMn12 –TYPE Actinide Compound: $UFe_5Al_7$ ", J. Phys. Condenens. Matter 14. (2002) p.11189.