

PERSONAL DETAILS

Address: Vardit 25, P.O.Box 50, Lehavim, 8533800, Israel

Date of birth: 4 December 1969

EDUCATION

1994-2001 **Ph.D. (Direct Doctoral Track)**, "Classical and Statistical Thermodynamics of Unstable Intermetallic Hydrides at Hydrogen Pressures Up to 1,000 Atmospheres", Department of Materials Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel. Research supervisors: Prof. Moshe H. Mintz, Prof. Levy Kornblit, Dr. Zamir Gavra.

1990-1993 **B.Sc. with excellence**, Department of Materials Engineering (Electronic & Structural Materials), Ben-Gurion University of the Negev, Beer-Sheva, Israel.

EXPERIENCE

2017-present **Deputy of the Head of Materials Department**, NRCN, Israel.

2016-present **Head of the Metallurgy Lab**, Materials Department, NRCN, Israel. Subjects: Physical metallurgy, materials properties and characterization, mechanical properties and mechanical testing.

2014-2016 **Deputy of the Head of Physics Department**, NRCN, Israel.

2013-2014 **Research Fellow**, Sabbatical at the department of materials engineering, Department of Materials Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel. Subject: Thermoelectricity. Host: Dr. Yaniv Gelbstein.

2008-2013 **Head of the Physical Metallurgy Group**, physics department, NRCN, Israel. Subjects: Studying metallurgical behavior of alloys and intermetallics as a function of preparation processes. This includes a variety of phenomena such as phase transitions, microstructure evolution, precipitation thermodynamics and kinetics, etc.

2006-2008 **Researcher**, Physical-metallurgy group, physics department, NRCN, Israel.

2005-2006 **Research Fellow**, Sabbatical at the department of materials science and engineering, Northwestern University, USA. Subjects: Precipitation in Al-Sc alloys and transformation mismatch plasticity in Pd. Hosts: Prof. David C. Dunand and Prof. David N. Seidman.

2003-2005 **Researcher**, Physical-metallurgy group, physics department, NRCN, Israel.

2001-2003 **In Charge of System Simulation and Verification**, TeraCross LTD. (startup that designed a switch fabric chipset for terabit routers).

1993-2001 **Researcher**, materials R&D department, NRCN, Israel. Subjects: Studying the thermodynamic and kinetic properties of intermetallic hydrides under high pressures and hydrogen-structural materials interactions including diffusion, permeability and embrittlement.

Ofer Be'eri, Ph.D.

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1992-1994 **Teaching Assistant**, Department of Materials Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel.

MAIN FIELDS OF INTEREST

- Physical-metallurgy and thermodynamics of metals including experiment and theory.
- Classical and statistical thermodynamics.
- Materials characterization (APT, XRD, SEM, mechanical testing, etc).
- Hydrogen-metal interaction, hydrides and hydrogen embrittlement.
- High pressure gas systems.
- Vacuum technology.
- Thermoelectricity.

EXCELLENCE AND AWARDS

B.Sc. with excellence, Department of Materials Engineering (Electronic & Structural Materials), Ben-Gurion University of the Negev, Beer-Sheva, Israel.

Katzir Scholarship for promising Israeli scientists specializing in the fields of engineering, electronics and core science (2003).