



Itzhak Edry

Technology Division
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Education

- 2013-2017 Ph.D., Materials Engineering, Ben Gurion University of the Negev, **Dean Award**.
Thesis subject: The effect of external electric fields on the structure of solidified aluminum
- 2002-2004 M.Sc., Materials Engineering, Ben Gurion University of the Negev, **Cum Laude**.
Thesis subject: Optimization of the thermoelectric efficiency in graded materials based on PbTe
- 1998-2002 B. Sc., Materials Engineering, Ben Gurion University of the Negev, **Suma Cum Laude**.

Employment

- 2020-present: Head of Production department, NRCN
- 2016-2019 Process Engineer, NRCN
- 2015 On sabbatical leave, Visiting Researcher at Prof. Shmuel Hayun's research laboratory, at Ben Gurion University of the Negev, Israel
- 2008-2014 Group leader of Castings and Thermal treatment group, R&D department, NRCN
- 2004-2007 Researcher at Castings and Thermal treatment group, R&D department, NRCN

Professional and Administrative Activities

- 2020-present: Manager of the Production department which responsible for products manufacturing and processing. Leading and guiding the process engineers, monitoring their progress and constructing future improvement plans.
- 2016-2020 Conducting the Solidification Forum at NRCN which responsible for professional cross-examination of related activities and processes at different process units, suggesting solutions to specific related concerns and proposing improvement plans.
- 2004-2020 Process Engineer of Castings product line. Performing solidification analysis, thermal and metallurgical analysis, resolving complex casting problems such as micro-porosity, hot-spots, macro-segregation and adjusting the metallurgical macro and micro-structure by appropriate treatments.
- 2006, 2014 Attending professional courses on Solidification (Switzerland) and Castings Inspection (Ohio, US).

Awards and Honors

- 2017 Dean award for excellency during the Ph.D. studies

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|------|--------------------------------------------------------------------------------------------------------------|
| 2016 | Pazi prize for research excellency and personal achievements |
| 2006 | Kazir scholarship to promising Israeli scientists specializing in fields of natural sciences and engineering |
| 2002 | Prize for excellence in final graduation project from the Materials and Processes Israeli Association |

Academic Activities

- **Grants**

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|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 (approved) | Controlling mechanical properties by Anti-phase boundaries engineering in novel high entropy alloys for extreme service applications – from The Ministry of Science and Technology. |
| 2013-2017 | The effect of external fields on the structure of solidified aluminum – Pazy Grant no.: 239-13 |

Educational Activities

Courses taught

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|-----------|-------------------------------------------------------------------------------------------|
| 2019-2020 | Solidification and Casting course, Ben Gurion University of the Negev, Beer Sheva, Israel |
| 2014 | Metallurgy for laboratory technical assistants, NRCN |
| 2013 | Manufacturing of Thermal Apparatus for laboratory technical assistants, NRCN |

Research students

Towards M.Sc. degree in Materials Engineering at Ben-Gurion University of the Negev:

1. Miss Rotem Shunker (co-supervisor Prof. Meshi Louisa) – studies on going
2. Mr. Tomer Mordechai (co-supervisor Prof. Shmuel Hayun) – finished 2017

Since 2006: Supervised 8 students towards practical engineering diploma at the Ben Gurion University of the Negev, Beer Sheva, Israel.