

## Publications List – Eran Landau

### Peer reviewed journals

1. **E. Landau**, E. Tiferet, Y. Ganor, R. Ganeriwala, M. Matthews, D. Braun, M. Chonin and G. Ziskind, "Thermal characterization of the build chamber in electron beam melting," Additive Manufacturing (Q1 IF-7), vol. 36, no. 101535, 2020.

### Non-Classified scientific reports (externally reviewed by a notified body for nuclear licensing)

1. **E. Landau**, "Design-by-Analysis Calculation report for LORELEI double-flask vessel 005BA" (LOR-G-072 Rev. 3), ECMC, Rotem Industries LTD., 2021.
2. **E. Landau**, M. Szanto, "Design-by-Analysis Calculation report for LORELEI tension device with multi-layer bellows" (LOR-G-093), ECMC, Rotem Industries LTD., 2021.
3. S. Rubin, **E. Landau**, "Seismic calculation note for LORELEI in-pile assembly" (LOR-G-073), ECMC, Rotem Industries LTD., 2019.
4. M. Ezra, **E. Landau**, "Calculations of Safety Components According to RCC-MRx" (LOR-G-105), ECMC, Rotem Industries LTD., 2018.
5. S. Rubin, **E. Landau**, "LORELEI Methodology of the seismic calculation for – based on the configuration of vessel 004BA" (LOR-G-049), ECMC, Rotem Industries LTD., 2016.

### Conference proceedings

1. **E. Landau**, M. Szanto and Y. Weiss, "Numerical ballooning and burst prediction of fuel cladding during LOCA transients in LWR", in: 27th Conference of the nuclear societies in Israel, Dead Sea, 2014.
2. **E. Landau**, Y. Weiss, M. Szanto. "Numerical ballooning and burst prediction of fuel cladding during LOCA transients in LWR". In: 33<sup>rd</sup> Israeli Conference of Mechanical Engineering (ICME), Tel-Aviv, Israel, 2015.
3. **E. Landau**, N. Moran, Avner Sasson. "Design by Analysis of a double-barrier pressure flask for the containment of a single rod Loss of Coolant Accident experiment By RCC-MRx code rules". 34<sup>th</sup> Israeli Conference of Mechanical Engineering (ICME), Haifa, Israel, 2016.
4. **E. Landau**, H. Shanha, M. Ezra, N. Moran and A. Sasson, "Coupled Thermal Mechanical model of the LORELEI experimental device with multiple interactions and heat sources during controlled transients and accident scenarios", in: 29<sup>th</sup> Israeli nuclear societies conference (INIS-2018), Tel-Aviv, Israel, 2018.

### Oral presentations

1. **E. Landau**, M. Szanto and Y. Weiss, "A 3D Thermo-Mechanical model to predict ballooning and burst behavior of Zircaloy-4 fuel cladding during LOCA transients in LWR employing commercial numerical simulation software", in: ENS-RRFM, Ljubljana, Slovenja, 2014.

2. **E. Landau**. "Numerical ballooning and burst prediction of fuel cladding during LOCA transients in LWR". In: SIMULIA Abaqus © Annual users meeting, Tel-Aviv, Israel, 2015 (invited talk).
3. **E. Landau**, M. Szanto. "A user-material routine for the visco-plastic ballooning and burst of Zircalloy nuclear fuel cladding in a Loss of Coolant Accident". In: 12<sup>th</sup> World Congress on Computational Mechanics (WCCM-XII), Seoul, Korea, 2016.
4. **E. Landau**, E. Tiferet, Y. Ganor, M. Chonin and G. Ziskind, "Modelling and characterization of Pre-heating stage in electron beam additive manufacturing" in: *The 35th Israeli Conference on Mechanical Engineering (ICME 2018)*, Beer-Sheva, Israel, 2018.
5. **E. Landau**, H. Shanha, M. Ezra, N. Moran and A. Sasson, "Coupled Thermal Mechanical model of the LORELEI experimental device with multiple interactions and heat sources during controlled transients and accident scenarios", in: *World Congress on Computational Mechanics (WCCM-2018)*, New York, 2018.
6. **E. Landau**, E. Tiferet, Y. Ganor, M. Chonin, M. Ezra and G. Ziskind, "Simulation of the pre-heating Stage in Electron Beam Additive Manufacturing", in: *II International Conference on Simulations for Additive Manufacturing (SIM-AM)*, Pavia, Italy, 2019.
7. M. Ezra, **E. Landau**, Y. Ganor, M. Chonin, E. Tiferet and G. Ziskind, "Thermotopographic Imaging of Electron Beam Additive Manufacturing Process using Infra-Red Camera with a Dedicated Numerical Solution", in: *II International Conference on Simulations for Additive Manufacturing (SIM-AM)*, Pavia, Italy, 2019.
8. **E. Landau**, E. Tiferet, Y. Ganor, M. Chonin, M. Ezra and G. Ziskind, "Simulating the pre-heating stages in electron beam additive manufacturing", in: *International Conference of Welding, Joining and Additive Manufacturing (WJAM-2020)*, Tel-Aviv, Israel, 2020.

#### **Others**

1. **E. Landau**, E. Tiferet, G. Ziskind, "Modeling and simulation of pre-heating stages in electron beam additive manufacturing". Approved and defended PhD research proposal, college of engineering science, BGU, 2021.