

Publications List – Liel Ishay

Peer reviewed journals

1. **L. Ishay**, G. Ziskind, E. Studer, U. Bieder and A. Rashkovan, Stratified Layer Erosion by a Wall-Deflected jet For Containment Flows Applications, in preparation.
2. **L. Ishay**, U. Bieder, G. Ziskind and A. Rashkovan, Nozzle Geometry Effect on Stratified Layer Erosion by a Vertical Turbulent Jet, *ASME Nuclear Engineering and Radiation Science*, 2017.
3. **L. Ishay**, U. Bieder, G. Ziskind and A. Rashkovan, Turbulent Jet Erosion of a Stably Stratified Gas Layer in a Nuclear Reactor Test Containment, *Nuclear Engineering and Design*, 292, 133-148, 2015.

Conference proceedings

1. E. Studer, S. Abe, B. Gera, **L. Ishay**, D. Abdo, Ph. Debesse, J. L. Widloecher, Erosion of a Stratified Layer by a Diffuse Buoyant Jet: Controlled Experimental Parametric Variations, *The 9th European Review Meeting on Severe Accident Research (ERMSAR2019)*, Prague, Czech Republic, March 18-20, 2019 (peer-reviewed).
2. E. studer, S. Abe, M. Andreani, J.S. Bharj, B Gera, **L. Ishay**, S. Kelm, J. Kim, Y. Lu, P. Paliwal, B. Schramm, H. Wang, Stratification Break-Up by a Diffuse Buoyant Jet: a CFD Benchmark Exercise, *The 12th International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Operation and Safety*, Qingdao, China, October 14-18, 2018, (peer reviewed).
3. **L. Ishay**, E. Rabinovich and N. Hazenshrung, A Comparison between Methods of Uncertainty Assessments of Thermal-Hydraulic Calculations, *Best Estimate Plus Uncertainty International Conference (BEPU-2018)*, Lucca, Italy, 13-16 May, 2018, (peer reviewed).
4. **L. Ishay**, E. Rabinovich and N. Hazenshrung, A Comparative Study for Uncertainty Assessments of Thermal-Hydraulic Parameters of the IRR-1, *The 29th Conference of the Nuclear Societies in Israel*, Herzeliya, Israel, 8-10 May, 2018.
5. **L. Ishay**, E. Studer, U. Bieder, G. Ziskind and A. Rashkovan, Modelling of the HM1_1 Benchmark in the MISTRA Facility, *The 29th Conference of the Nuclear Societies in Israel*, Herzeliya, Israel, 8-10 May, 2018.
6. **L. Ishay**, G. Ziskind, E. Studer, U. Bieder and A. Rashkovan, Nuclear Reactor Containment Flows – Modelling of Stratified Layer Erosion by a Wall-Deflected Jet, *The 17th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-17)*, Xi'an, China, 3- 8 September, 2017, (peer reviewed).

7. U. Bieder, **L. Ishay**, G. Ziskind and A. Rashkovan, CFD Analysis and Experimental Validation of Mixed Convection Sodium Flow, *Proceedings of ICAPP 2017*, Fukui and Kyoto, Japan, 24-28 April, 2017, (peer reviewed).
8. **L. Ishay**, A. Rashkovan, U. Bieder and G. Ziskind, Nozzle Jet Erosion of a Stably Stratified Layer, *Proceedings of the 34th Israeli Conference of Mechanical Engineering*, Haifa, Israel, 22-23 November, 2016.
9. **L. Ishay**, G. Ziskind, U. Bieder and A. Rashkovan, URANS Analysis of the Erosion of a Stably Stratified Layer, *Proceedings of CFD4NRS-6 Conference*, Cambridge, MA, Massachusetts, 13-15 September, 2016, (peer reviewed).
10. **L. Ishay**, G. Ziskind, U. Bieder and A. Rashkovan, Erosion of a Stably Stratified Layer by a Turbulent Round Jet, *The 28th Conference of the Nuclear Societies in Israel*, Tel Aviv, Israel, 12-14 April, 2016.
11. **L. Ishay**, G. Ziskind, A. Rashkovan, and U. Bieder, Nuclear Reactor Containment Flows – Modeling of Stably Stratified Layer Erosion by a Turbulent Jet, *the 16th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-16)*, Chicago, Illinois, 31 August - 4 September, 2015, (peer reviewed).
12. **L. Ishay**, G. Ziskind, A. Rashkovan, U. Bieder and J. Brinster, Simulation of LOWMA-3 MISTRA Experiment, *Proceedings of CFD4NRS-5 Conference*, Zurich, Switzerland, 9-11 September, 2014, (peer reviewed).
13. **L. Ishay**, G. Ziskind and Y. Aharon, Heat Transfer in Cross Flow of Gas over a Smooth and Modified Tube, *11th AIAA/ASME Joint Thermo-physics and Heat Transfer Conference*, Atlanta, Georgia, 16-20 June, 2014.
14. Y. Aharon, M. Katz, G. Ziskind, S. Peretz, **L. Ishay**, E. Landau and M. A. Fütterer, Heat Transfer Numerical Simulation of Gas Cross Flow in Tubular Heat Exchanger with Artificial Roughness for Enhanced Heat Transfer, *Israeli Conference of Mechanical Engineering*, Tel-Aviv, Israel, 17-18 October, 2012.

Oral presentations

1. **L. Ishay**, Mixing Effects in Fluid Flows with Buoyancy and Stratification, Department of Mechanical Engineering, Ben-Gurion University of the Negev, Be'er Sheva, Israel, 14 September, 2017.
2. **L. Ishay**, Stably Stratified Layer Erosion by Turbulent Jet, *The 4th CEA-IAEC Collaboration Meeting on Thermal Hydraulics*, CEA-Saclay, France, 20 May, 2015.