

Yaron Perets, Ph.D.

Curriculum Vitae



September 20

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Yaron Perets

Personal Details

Date of Birth:	Juny 5, 1971	Home Address:	P.O.Box 1736
Marital status:	Married + 2 children		37 Tapoach St.
Citizenship:	Israel		84965 Omer, Israel
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Employment

Israel Atomic Energy Commission (IAEC)
Nuclear Research Center-Negev (NRCN)
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Education

2015	Ph.D	Department of Mechanical Engineering, Ben-Gurion University of the Negev (BGU), Research subject: <i>Axial Flow-Induced Vibration of a Corrugated Cylinder</i>
2003	M.Sc	Department of Mechanical Engineering, Ben-Gurion University of the Negev (BGU), Research subject: <i>Vapor Explosion of Coolant Jet When Penetrating a Hot Molten Metal</i>
1998	B.Sc	Department of Mechanical Engineering, Ben-Gurion University of the Negev (BGU), Research subject: <i>Temporary pedestrian bridge</i>

Main Areas of Interest

- Flow induced vibration – experimental and analytical tools
- Applications of fluid mechanics, heat transfer, vibration, ultrasonic and mechanical engineering

Employment History

2018 - present	Integrated R&D team leader, NRCN
2016 - 2017	Visiting Scholar, UC Berkeley, Department of Nuclear Engineering
2007 - 2015	Chief engineer of the technology & maintenance department IRR-2, NRCN
2001 - 2007	R&D IRR-2, NRCN
1998 – 2001	Mechanical engineer - department of technology & maintenance IRR-2, NRCN

Grants and Research Proposals

1. Avishai Sintov, Yaron Perets, Eran Sne, Disposable and Low-cost Robotic Arms for Handling Hazardous Materials, Pazy Research Proposal, 2019 – 2020.
2. Y. Perets, R. Harari and E. Sher, Flow-Induced Vibration, Pazy Research Grants, 2006 – 2012.

List of Publications

Refereed Articles in Scientific Journals

3. Y. Perets, R. Harari and E. Sher, Vapor explosion of coolant jet when penetrating a hot molten metal, *Nuclear Science and Engineering*, Vol. 150 (2), pp. 237 – 244, 2005
4. Y. Perets, B. Rivin, I. Bronstein, R. Harari and E. Sher, "Flow Induced Vibration of Corrugated Rod Subjected to Axial Flow", *WIT Transactions on The Built Environment*, Vol. 105, © 2009 WIT Press
5. Y. Perets, R. Harari and E. Sher "characterizing the dynamics flexible rod wrapped by transverse repeated ribs subjected to axial flow", *Nuclear Engineering and Design*, Vol. 269, pp. 349 – 359, 2014
6. Y. Perets, E. Sher and R. Harari "An experimental study on axial-flow-induced vibration of confined flexible rods with sequenced transverse rib roughness", *Experimental Thermal and Fluid Science*, Vol. 93, pp. 86 – 95, 2018

Conference Papers and Presentations

1. Y. Perets, R. Harari and E. Sher (2003), Vapor explosion by impinging coolant on liquid metals", 29th Israel Conference on Mechanical Engineering, Technion Haifa.
2. Y. Perets, R. Harari and E. Sher (9/12/2004) "Vapor explosion of coolant jet when penetrating into a hot molten tin", Poster, 20th Annual Symposium of the Israeli Section of the Combustion Institute, Ben-Gurion University Beer-Sheva, Israel.
3. Y. Perets, E. Brosh, M.Ghelman, N. Moran, Y. Drymer, Y. Kadmon and S. Dahan "Developing an Ultrasonic NDE System for a Research Reactor Tank", International Conference on Research Reactors: Safe Management and Effective Utilization, 5-9 November 2007, Sydney, Australia
4. E. Brosh, Y. Perets, M.Ghelman, Y. Kadmon "Ultrasonic Technique for NDE of Research Reactor Tank", IMEC 13, 9-10 December 2007, Hifa, Israel
5. Y. Perets, E. Brosh, M.Ghelman, N. Moran, Y. Kadmon and S. Dahan, "An Ultrasonic NDE System for the IRR2 Reactor Tank Wall", The 24th conference of the Nuclear Societies in Israel, 19-21 February 2008, Dead Sea, Israel.
6. M.Ghelman, J. Nir, D. Sadan, E. Brosh, Y. Perets, R. Seif, Y. Kadmon and D. Tirosh, "Noise Reduction of an Ultrasonic Inspection System for the IRR2 Research Reactor Tank", The 24th conference of the Nuclear Societies in Israel, 19-21 February 2008, Dead Sea, Israel
7. Y. Perets, R. Harari and E. Sher, "Flow Induced Vibration of Transverse Repeated Ribs Rod Subjected to Axial Flow", The 31st Israeli Conference on Mechanical Engineering (ICME 2010), 2-3 June 2010, Tel Aviv, Israel

Technical Reports

1. Per F. Peterson, Charalampos Andreades, **Yaron Perets**, Alan Bolind, Andrew Greenop, Shane Gallagher, Nils Haneklaus, Brian He, **Coiled Tube Gas Heaters For Nuclear Gas-Brayton Power Conversion**, Final Report March 2018 – For the DOE.
 2. Per F. Peterson, Charalampos Andreades, Alan Bolind, **Yaron Perets**, Andrew Greenop, Shane Gallagher, Jae Keun Choi, Bryant Phan, **Coiled Tube Gas Heaters For Nuclear Gas-Brayton Power Conversion**, Quarterly Progress Report 2017 Q3 – For the DOE.
 3. Per F. Peterson, Charalampos Andreades, Alan Bolind, **Yaron Perets**, Andrew Greenop, Shane Gallagher, Jae Keun Choi, Bryant Phan, **Coiled Tube Gas Heaters For Nuclear Gas-Brayton Power Conversion**, Quarterly Progress Report 2017 Q2 – For the DOE
 4. Per F. Peterson, Charalampos Andreades, Alan Bolind, **Yaron Perets**, Andrew Greenop, Shane Gallagher, Jae Keun Choi, Bryant Phan, **Coiled Tube Gas Heaters For Nuclear Gas-Brayton Power Conversion**, Quarterly Progress Report 2017 Q1 – For the DOE.
- 100 additional R&D proprietary reports