

Prof. Avrahami holds an appointment of Professor with tenure at the Department of Mechanical Engineering and Mechatronics at Ariel University . She received her B.Sc. in mechanical engineering at the Technion (Cum Laude) and her M.Sc. and Ph.D. in Biomedical Engineering from Tel Aviv University in Israel. She then continued as a post-doctoral fellow at the Technion and at the California institute of Technology (Cal Tech).

Prof. Avrahami was a faculty position at department of medical engineering at Afeka College of Engineering in Tel Aviv Until 2011, when she joined Ariel University. In 2013-2016 she held the position of the Head of the Department of Mechanical Engineering and Mechatronics at Ariel University.

Prof. Avrahami's research utilizes numerical and experimental methods to study complex coupled problems related to fluid dynamics, biomedical and energy. Her research involves fluid-structure interactions in the cardio-vascular system, flow as a result of chemical reactions in fuel cells, flow in a resonance pump due to elastic wave reflections, heat convection using water flow exchangers, etc. She has published over 40 peer reviewed articles in the leading journals in the field of bio-medical engineering and fluid mechanics, contributed more than 120 presentations (including invited talks and plenary lectures). Her research is funded by competitive scientific and applicative research funds, including grants from KAMIN (Ministry of Trade), ISF (the Ministry of Science), Ministry of Energy, and the Ministry of Health. She and her students won several prizes in international and national competitions

She is a committee member of Clinical Trials in Medical Devices of the Ministry of Health, a board member of the Israeli Society for Medical and Biological Engineering, A member in the Education Committee of the National Council for the Advancement of Women in Science and Technology, a consultant to medical devices companies and a member in several academic and educational initiatives.

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