

Dr. Orna Breuer

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Academic Degrees:

- 1994 - 1998 **Ph.D., Technion - Israel Institute of Technology, Haifa, Israel**
Department of Chemical Engineering
Thesis: *Segregated Structures in Multiphase Polymer Systems Containing a Low Concentration of a Conductive Filler*, Advisor: Prof. M. Narkis.
- 1989 - 1992 **M.Sc., Technion - Israel Institute of Technology, Haifa, Israel**
Department of Materials Engineering
Thesis: *The Influence of Polyethylene Fiber Surface Treatment on Fiber Properties and Composite Material Reinforcement*, Advisor: Prof. M.S. Silverstein.
- 1985 - 1989 **B.Sc., Technion - Israel Institute of Technology, Haifa, Israel**
Department of Chemical Engineering

Academic Appointments:

- 2008- Present **Academic Activities**
Supervision of graduate students (Michael Rein - Weizmann Institute of Science, 2008-2010, together with Prof. Daniel Wagner; Currently Yaakov Amsalem, Technion - Israel Institute of Technology, Haifa, Israel, Department of Chemical Engineering, together with Prof. Avi Marmur).
Serving on examination boards upon request for graduate students in the Technion, Tel-Aviv University and Shenkar College.
- 2007- Present **Technion - Israel Institute of Technology, Haifa, Israel**
Department of Materials Engineering
Senior Lecturer (previously Adjunct Teacher) for the undergraduate course *Engineering of Composite Materials*; *Invited lecturer for the graduate course "Special Topics in Polymer Engineering"*.
- 2001-2003 **University of Alberta, Chemical and Materials Engineering Department**
Visiting lecturer and post-doctoral fellow.
Teaching Activities: Undergraduate Heat Transfer Course.
Research: Development of a novel miniature mixer for processing small amounts of nanocomposites; experimental study and simulation of flow regimes within this mixer.
- 1994 – 1998 **Technion - Israel Institute of Technology, Haifa, Israel, Department of Chemical Engineering**
Adjunct Teacher for undergraduate courses Material and Energy Balances, Introduction to Plastic Materials, Composite Materials,

Polymers I, Polymers II, Polymer Laboratory Exercises, and graduate course Polymer Processing.

1990 – 1991 Technion - Israel Institute of Technology, Haifa, Israel
Department of Materials Engineering
Adjunct Teacher for undergraduate courses Introduction to Materials Science, Materials Science student Laboratory.

MAIN SCHOLARSHIPS AND AWARDS:

1999 Katzir fellowship for an outstanding young scientist, Israel Ministry of Defense
1997 SAMPE award for an outstanding graduate student, Israeli chapter
1996 Eshkol award for an outstanding graduate student, Israel Ministry of Science
1994 Kaplan award for outstanding achievement, Israel Ministry of Trade and Industry, given for participation in the R&D group who developed Caesarea Marble, lead by Prof. Narkis.