

CURRICULUM VITAE

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Languages: Hebrew, English (fluent)

EDUCATION:

- 2005- 2010 Technion- Israel Institute of Technology, Department of Materials Engineering.
Ph.D. in Materials Engineering. *Strengthening mechanism in Mg-Al-Sn-Zn based alloys*. Supervisor: Prof. Menachem Bamberger.
- 1999 - 2002 Technion- Israel Institute of Technology, Department of Materials Engineering.
M.Sc. in Materials Engineering, *Reactive wetting and characterization of i-3A materials*, Grade for thesis and examination 90.
Supervisor: Prof. Wayne D. Kaplan.
- 1994-1999 Technion- Israel Institute of Technology, Department of Materials Engineering.
B.Sc. in Materials Engineering.
B.A. in Physics.
Final project, *Alumina bonding using a glass braze*.
Supervisor: Prof. Wayne D. Kaplan.

ACADEMIC EXPERIENCE:

- 2006- 2010 Teaching assistant of academic and practical courses, Technion- Israel Institute of Technology, Department of Materials Engineering:
"Introduction to Material engineering", "Introduction to Material engineering"-students labs, "Metals and alloys", Instructor of practical course (XRD).
- 1999 - 2002 Teaching assistant of academic and practical courses, Technion- Israel Institute of Technology, Department of Materials Engineering:
"Introduction to Material engineering", "Introduction to Material engineering"-students labs, "Joining process", Instructor of practical courses (SEM, XRD).

PRIZES AND GRANTS:

- March 2008 Grant from the Stiftelsen för Tillämpad Termodynamik (the foundation for applied thermodynamics). Institutionen for Materialvetenskap, KTH, Brinellvägen 23, SE-100 44 Stockholm, Sweden.
- January 2002 Technion Prize for Innovativeness and Enterprise (Sanford Kaplan Award), together with the Metal-Ceramic Interface Group, Department of Materials Engineering, Technion- Israel Institute of Technology and Micro-Swiss Ltd. (Israel).

LIST OF SCIENTIFIC AND PROFESSIONAL PUBLICATIONS

Journal papers:

1. S. Avraham, A. Katsman and M. Bamberger, *Optimization of composition and heat treatment design of Mg-Sn-Zn alloys via the CALPHAD method*, Journal of Materials Science, 46[21]: 6941-6951, 2011.
2. S. Avraham, Y. Maoz and M. Bamberger, *Application of the Calphad Approach to Mg-Alloys Design*, Calphad, 31[4]: 515-521, 2007.
3. S. Avraham, P. Beyer, R. Janssen, N. Claussen and W.D. Kaplan, *Characterization of α -Al₂O₃-(Al-Si)₃Ti Composites*, Journal of the European Ceramic Society, 26[13]: 2719-2726, 2006.
4. G. Levi, S. Avraham, A. Zilberov and M. Bamberger, *Solidification, Solution Treatment and Age Hardening of a Mg-1.6 Wt.% Ca-3.2 Wt.% Zn Alloy*, Acta Materialia, 54[2]: 523-530, 2006.
5. S. Cohen, G. Goren-Muginstein, S. Avraham, M. Bamberger, B. Rashkova and G. Dehm, *Precipitation Hardening in Mg-Zn-Sn Alloys with Minor Additions of Ca and Si*, Zeitschrift fuer Metallkunde/Materials Research and Advanced Techniques, 96[9]: 1081-1087, 2005.
6. S. Avraham and W.D. Kaplan, *Reactive Wetting of Rutile by Liquid Aluminium*, Journal of Materials Science, 40[5]: 1093-1100, 2005.