

March 2014

RESUME

Prof. Menahem Bamberger

I.D. No. - 06824668
E-mail: mtrbam@tx.technion.ac.il
Tel: 04-829-4587

ACADEMIC DEGREES

1971 B.Sc., Physics, Technion, Haifa
1975 M.Sc., Materials Eng., Technion, Haifa
1978 Dr. Ing. Fakultät für Bergbau, Hüttenwesen und Maschinenwesen der Technische Universität, Clausthal, West Germany

ACADEMIC APPOINTMENTS

2011 Visiting Professor, HoMe-Hochschule Merseburg, Germany
2007 Visiting Professor, UTG, University of Munich, Germany
2006 Professor, Materials Eng. Technion, Haifa
2000-2001 Visiting Associate Professor, Department of Materials Science and Engineering, MIT, Cambridge, USA
1991 Associate Professor, Materials Eng., Technion, Haifa
1986 Senior lecturer, Materials Eng., Technion, Haifa
1982 Lecturer, Materials Eng., Technion, Haifa

PROFESSIONAL EXPERIENCE

Summer 1997 Guest scientist in the “Center for Laser Applications”, The University of Tennessee Space Institute. Subject: Laser Induced Metal/Ceramic Bonding
Summer 1995 Guest scientist in the “Center for Laser Applications”, The University of Tennessee Space Institute. Subject: Laser Induced Metal/Ceramic Bonding
1988-89 Guest scientist in the Laser Application Laboratory of DLR Stuttgart, W. Germany. Subject: Laser Boronizing of Steel.
Summer 1987 Guest scientist in the Institute für Werkstoffkunde, RWTH Aachen, W. Germany Subject: Laser Surface Treatment of Cast Irons
Summer 1983 Guest scientist in the Metallgesellschaft AG, Frankfurt, W. Germany Subject: Stress Field in Continuous Casting.

RESEARCH INTERESTS

Solidification and Phase Transformation, Phase Stability, Metallurgical Processing, Casting, Laser Materials Processing, Casting Simulations, Mg Processing, Ni-Base Superalloys.

HONORS

1976-1978 Deutsche Akademisch Austausch Dienst (DAAD) scholarship
1987 Deutsche Akademisch Austausch Dienst (DAAD) scholarship
1988-1989 Alexander von Humboldt (AvH) fellowship

RESEARCH GRANTS

- 2004-2008 CE – IDEA Consortium, 405000 €,
Development of Mg alloys for aerospace applications
- 2006-2010 The Ministry of Industry and Trade, The State of Israel (the consortium for light-weight metals), \$50000 yearly,
Inoculation of light-weight alloys with sub-micron particles
- 2006-2008 The Ministry of Industry and Trade, The State of Israel, \$50000 yearly
Solidification simulation in continuously cast Mg alloys
- 2007-2009 The Ministry of Industry and Trade, The State of Israel,
Development of Mg alloys for permanent mold casting, ~25000 € yearly
- 2007-2010 Niedersachsen Fund,
Simulation, monitoring and characterization of Austempered Ductile Iron,
112500 €
- 2011-2012 The Ministry of Industry and Trade, The State of Israel,
Development of new wrought Mg alloys, ~25000 € yearly
- 2012- KAMIN - The Ministry of Industry and Trade, The State of Israel
Development of Green Corrosion Resistant Conductive Coatings for Magnesium Alloys, \$100000 yearly
- 2013-2014 The Ministry of Industry and Trade, The State of Israel,
Mechanical Properties and Structural Analysis of Al-Si-Fe-Cu-Mn Based alloys~\$15000
- 2013 EC – THERMACO consortium 405000 €
Smart Thermal conductive Al MMC's by casting