

CURRICULUM VITAE

Dr. Michal ARBEL HADDAD

Birth date: 3/12/1962

Place of Birth: Rehovoth, ISRAEL

ACADEMIC DEGREES:

1987- BSc in Chemistry, The Hebrew University of Jerusalem

1991- MSc in Applied Chemistry, The Hebrew University of Jerusalem

1997 – PhD, the Faculty of Chemistry, Weizmann Institute of Science, Rehovoth

FURTHER RESEARCH EXPERIENCE:

Sep 1997 – Jul 1998 Post-Doctoral fellow, URA 1281 CNRS, Université Paris-Sûd, France

Aug 1998 – Aug 2007 Research Chemist, Department of Chemistry, NRCN

Sep 2007 – Aug 2008 Visiting Scientist, Geopolymer Group, Department of Chemical Engineering, University of Melbourne, Australia

Sep 2008 – Dec 2008 Research Chemist, Department of Chemistry, NRCN

Jan 2009 – Dec 2015 Head of Corrosion Laboratory, Department of Chemistry, NRCN

Jan 2016 – Dec 2016 Visiting Scientist, Department of Civil Engineering,
Ben Gurion University, Beer Sheva

FELLOWSHIPS AND PRIZES:

Outstanding Studentship Award for the academic year of 1986-1987, The Faculty of Mathematics and Sciences, The Hebrew University of Jerusalem

Eshkol Scholarship for PhD studies, 1993-1996, The Ministry of Science, Israel

Chateaubriand Post-Doctoral Scholarship, 1997-1998, The Foreign Ministry, France

Katzir Research Fellowship, 1998-2004, Dept of Chemistry, NRCN

THESES:

A Study of the Mechanism of Acid Extraction by Acid-Base Couple Extractants, Thesis for the degree of MSc in Applied Chemistry, The Hebrew University of Jerusalem, 1991

Supervisor: Dr. A. Eyal

Studies of Mixed Thin Films at the Air-Water Interface in Relation with Crystal Nucleation,

Thesis for the degree of PhD, Weizmann Institute of Science, Rehovoth, 1997

Supervisors: Prof. Meir Lahav and Prof. Leslie Leiserowitz

STUDENTS SUPERVISED:

Co-Supervisor, MSc research project of Mr. P Huber,

Dept. of Materials Engineering, Ben Gurion University of the Negev, Beer-Sheva

Thesis title: Structural and Electrochemical Characterization of Two-Phase Al-Ce Alloys,

July 2006

Co-Supervisor, undergraduate research project of Mr. Y. Toister and Mr. Paz Yabo,

Dept. of Materials Engineering, Ben Gurion University of the Negev, Beer-Sheva

Thesis title: Evaluation of the Corrosion Resistance of Amorphous and Crystalline Al-Ce

Alloys, September 2006

Co-Supervisor, MSc research project of Ms. E. Ben-Yaish,

Dept. of Materials Engineering, Ben Gurion University of the Negev, Beer-Sheva

Thesis topic: Anodization of Al Alloys, July 2008

Co-Supervisor, PhD research project of Ms. E. Ofer-Rozovsky,

Dept. of Civil and Environmental Engineering, Technion, Haifa

Thesis title: Geopolymers as Matrices for Nuclear Waste Immobilization

RESEARCH GRANTS:

2009-2012 Grant by: the council for higher education and the Israel atomic energy committee. PIs: Michal Arbel-Haddad (NRCN), Gabriela Bar-Nes (NRCN) and Amnon Katz (Technion). Subject: “Geopolymers as materials for stabilization and immobilization of radioactive waste”, Grant for 3 years with approximately 200,000 NIS/year.

2011-2014 Grant by: Israel atomic energy committee. Collaboration between CEA and IAEC. PI's: Gabriela Bar-Nes (NRCN), Michal Arbel-Haddad (NRCN) and Valerie L'Hostis (CEA-LECBA). Subject: “LLW immobilization in cementitious pastes and geopolymers: the effect of carbonation/irradiation degradation mechanisms on the matrix microstructure and transport properties of the immobilized waste”. Grant for 4 years with approximately 170,000 NIS/year.