CURRICULUM VITAE

Dr. Michal ARBEL HADDAD

BIRTH DATE: 3/12/1962

PLACE OF BIRTH: Rehovoth, ISRAEL

Academic Degrees:

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

Thesis: *Studies of Mixed Thin Films at the Air-Liquid Interface in Relation with Crystal Nucleation*, supervised by Prof. M. Lahav and Prof. L. Leiserowitz, 1997.

1991 – MSc in Applied Chemistry, The Hebrew University of Jerusalem.

Thesis: *A Study of the Mechanism of Acid Extraction by Acid-Base Couple Extractants*, supervised by Dr. A. Eyal, 1991.

1987 – BSc in Chemistry, The Hebrew University of Jerusalem

Research Experience:

Jan 2017 – Present	Head of Corrosion Laboratory, Department of Chemistry, NRCN
Jan 2016 – Dec 2016	Visiting Scientist, Department of Civil Engineering, Ben Gurion University of the Negev, Beer Sheva
Jan 2009 – Dec 2015	Head of Corrosion Laboratory, Department of Chemistry, NRCN
Sep 2008 – Dec 2008	Research Chemist, Corrosion Laboratory, Department of Chemistry, NRCN
Sep 2007 – Aug 2008	Visiting Scientist, Geopolymer Group, Department of Chemical and Biochemical Engineering, University of Melbourne, Australia
Aug 1998 – Aug 2007	Research Chemist, Corrosion Laboratory, Department of Chemistry, NRCN
Sep 1997 – Jul 1998	Post-Doctoral fellow, URA 1281 CNRS, Universitè Paris-Sûd, France

Fellowships:

1998 - 2004	Katzir Research Fellowship, 1998-2004, Dept of Chemistry, NRCN
1997 - 1998	Chateaubriand post-doctoral Scholarship, granted by the French The Foreign Ministry
1993 - 1996	Eshkol Scholarship for PhD studies, granted by the Ministry of Science, Israel
1986 – 1987	Outstanding Studentship award, the Faculty of Mathematics and Sciences, the Hebrew University of Jerusalem

Research Grants:

2004-2008 Grant by the Council for Higher Education and the Israel Atomic Energy Committee, Subject: *A study of Localized Corrosion at the Microscopic Level.*
Grant for 5 years with approximately 200,000 NIS/year, in collaboration with Dr. Eyal Sabatani (NRCN) and Prof. Yuval Golan (BGU).

2009-2012 Grant by the Council for Higher Education and the Israel Atomic Energy Committee, Subject: *Geopolymers as Materials for Stablization and Immobilization of Radioactive Waste.*
Grant for 3 years with approximately 200,000 NIS/year, in collaboration with Dr. Gabriela Bar-Nes (NRCN) and Prof. Amnon Katz (Technion).

2011-2014 Grant by: Israel Atomic Energy Committee for collaborative research with CEA.
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, in collaboration with Dr. Gabriela Bar-Nes (NRCN), and Valerie L'Hostis (CEA-LECBA).

2020-2021 Grant by: Israel Atomic Energy Committee for collaborative research with CEA.
Subject: *Evaluation of corrosion rate and mechanisms at the geopolymer-steel interface.*
Grant for 2 years with approximately 100,000 NIS/year, in collaboration with David Lambertin (CEA), and Sylvie Delpech (IPN, France).

Students Supervised:

2004 – 2006 Co-supervision of MSc research project of Mr. P. Huber, in collaboration with Dr. E. Sabatani (NRCN) and Prof. Y. Golan (BGU). Thesis title: *Structural and Electrochamical Characterization of Two-Phase Al-Ce Alloys*

2005 – 2006 Co-supervision of undergraduate research project of Mr. Y. Toister and Mr. Paz Yabo, in collaboration with Dr. M. Pinkas (NRCN) and Prof. Y. Golan (BGU). Project title: *Evaluation of the Corrosion Resistance of Amorphous and Crystalline Al-Ce Alloys.*

2005 – 2007 Co-supervision of MSc research project of Ms. E. Ben-Yaish, in collaboration with Dr. E. Sabatani (NRCN) and Prof. Y. Golan (BGU). Thesis title: *Anodization of Al Alloys*

2010 – 2017 Co-supervision of PhD research project of Ms. E. Ofer-Rozovsky, in collaboration with Dr. G. Bar-Nes (NRCN) and Prof. A. Katz (Technion). Thesis title: *Geopolymers as Matrices for Nuclear Waste Immobilization*

2020 - Co-supervision of undergraduate research project of Mr. R. Farber in collaboration with Prof. A. Peled (BGU). Project title: *Evaluation of corrosion rate and mechanisms at the geopolymer-steel interface.*