

# **PROF. YONA CHEN**

**THE HEBREW UNIVERSITY OF JERUSALEM**

**FACULTY OF AGRICULTURE,  
FOOD AND ENVIRONMENT**

**DEPARTMENT OF SOIL AND WATER SCIENCES**

## **CURRICULUM VITAE**

**(January, 2018)**

Office Address: P.O. Box 12, Rehovot 76100, Israel

Home Address: 10 Tel-Aviv Street, Nes Ziona 74085, Israel

Phone : +972-8-9489234 ; Cellular : +972-54-8820168 Fax : +972-8-9468565 ;

E-mail: yonachen@agri.huji.ac.il

### **Personal**

Date and place of birth: July 11, 1941, Haifa, Israel

Nationality: Israeli

Marital status: Married, with two children (daughter, born 1966 and son, born 1969)

Military service: 1959-1962 (Armored Corps)

### **University Degrees**

1968 B.Sc. with honors. The Hebrew University of Jerusalem

1970 M.Sc. with honors. The Hebrew University of Jerusalem

1975 Ph.D. The Hebrew University of Jerusalem

Thesis: "Evaluation of montmorillonite behavior and particle structure as a model for swelling and flow impediment in soils"

### **Hebrew University - Employment Record**

1970-74 Assistant in soil science, Department of Soil and Water Sciences

1974-75 Instructor in soil science, Department of Soil and Water Sciences

1977-79 Lecturer in soil chemistry, Department of Soil and Water Sciences

1979-83 Senior Lecturer in soil chemistry, Department of Soil and Water Sciences

1983-87 Associate Professor in Soil Chemistry, Department of Soil and Water Sciences

1986-89 Head, The Department of Soil and Water Sciences and The Seagram Center for Soil and Water Sciences, Faculty of Agriculture

1987-to date Professor of Soil Chemistry, Department of Soil and Water Sciences

1993-1997 Dean, Faculty of Agricultural, Food and Environmental Quality Sciences

### **Additional Activities within the Hebrew University**

1974-75	Member, Teaching Committee, Faculty of Agriculture
1979-81	Chairman of Teaching Program in Soil and Water Sciences, Faculty of Agriculture
1982-83	Member of Committee of Physical Planning for the Faculty of Agriculture
1983-86	Chairman, Committee for Recreation and Sports
1983-86	Member, the Research Committee, Faculty of Agriculture
1983-88	Member, the Teaching Committee, Faculty of Agriculture
1983-85	Member, the Committee for Basic Equipment, Faculty of Agriculture
1985-86	Member, the Committee for Academic Development, Faculty of Agriculture
1985-87	Member, University Disciplinary Committee for Graduate Research Assistants in Earth Sciences, Hebrew University
1986-90	Chairman, The Seagram Fund for Research, Development and Training Soil and Water
1986	Chairman, Planning Committee for the Employment of Graduate Students, Faculty of Agriculture
1987-89	Member, Fellowship Committee, Faculty of Agriculture
1987-90	Chairman, University Disciplinary Committee for Graduate Research Assistants in Earth Sciences, Hebrew University
1990-92	Member, University Committee for Studies in Environmental Quality
1991-93	Chairman of Teaching Program in Soil and Water Sciences
1991-94	Member, Hebrew University Committee for Evaluation and Promotion to Associate and/or Full Professor degrees in Chemistry, Mathematics, Physics, Computer Sciences and Earth Sciences
2000	Head, Center for Agricultural Research in Desert and Semi-Arid Lands
2001-2007	Member, Executive Committee, The Hebrew University of Jerusalem
2002-04	Member, Hebrew University's Promotion Committee in the Exact Sciences for ranks of Associate Professor and Full Professor
2004-2008	Member, Hebrew University's Promotion Committee in the Life Sciences for the rank of Senior Lecturer with tenure

#### **Positions at Research Institutes and Universities Abroad**

1975-77	Research Fellow, Chemistry and Biology Research Institute, Agriculture Canada, Ottawa
1981-82	Visiting Professor, Department of Agronomy, University of Illinois, Urbana, Illinois
1989	Visiting Professor, Department of Agronomy, University of Maryland and Research Associate, USDA-ARS, Beltsville, Maryland
1990	Visiting Professor, Institute of Environmental Sciences, The Pennsylvania State University, University Park, Pennsylvania
1998	Visiting Professor, Center for Environmental Chemistry and Geochemistry, The Pennsylvania State University, University Park, Pennsylvania
1999	Visiting Professor, Dept. of Soil, Water and Climate, The University of Minnesota

2000	Visiting Professor, Dept. of Chemistry, the Ohio State University, Columbus, Ohio
2002	Visiting Professor and an Alexander von Humboldt Research Awardee, the University of Karlsruhe, Germany

### **Publications**

Theses - 2  
Books - 7  
Invited Reviews (reviewed) - 35  
Chapters in Books and Proceedings - 61  
Patent - 1  
Articles in Scientific Journals (reviewed) - 225  
Articles in Hebrew Journals - 50  
Teaching Manuals (in Hebrew) - 10

**Total Number of Publications - 381**

### **Editorial Activity**

1987-to date Associate editor of "Agricoltura Mediterranea"  
1993-2009 Editorial Technology Board – Critical Reviews in Environmental Science CRC Press  
1997-2003 Associate Editor – Journal of Environmental Quality – Published by the American Society of Soil Science and The American Society of Agronomy.  
2003—to date Editorial Board - Journal of Environmental Science and Health, Part B  
2004—to date Editorial Board – Archives Agronomy and Soil Science  
2004 Editorial Board – Soil Science and Plant Nutrition – Special Issue on Iron Nutrition and Interactions in Plants, 2004  
2007—to date Associate Editor – Soil Science  
2017 –to date Guest Editor – Journal of Soils and Sediments

### **International and National Activities**

1978-80 Member of the Board and Treasurer, The Israel Society of Soil Science  
1979-to date Invited speaker and presentation of keynote lectures in 3 to 5 International Symposia per annum. Inviting organizations are: American Society of Agronomy, American Society of Soil Science, International Society of Soil Science, The American Society of Chemistry, The International Humic Substances Society, The International Society of Horticultural Science, The International Working Group on Iron Nutrition in Plants, and various Waste Management Societies.  
1982-83 Member, Organizing Committee of the 3rd International Symposium on Peat and Soil Organic Matter  
1982-92 Member of the Board, Israel Fertilizer Research Center  
1982-84 Member of the Scientific Advisory Committee for the Ministry of Agriculture and the U.S.-Israel Binational Agricultural Research and Development Fund (BARD)  
1983-84 Member, Organizing Committee for the 2nd International Symposium

	on Biosalinity, Jerusalem
1984-to date	Member, Organizing and Scientific Committees of the bi-annual International Conferences of the International Humic Substances Society (IHSS) as follows: 2 <sup>nd</sup> - Birmingham, United Kingdom, 1984; 3 <sup>rd</sup> – Oslo, Norway, 1986; 4 <sup>th</sup> – Matalascanas Beach, Spain, 1988; 5 <sup>th</sup> – Nagoya, Japan, 1990; 6 <sup>th</sup> – Monopoli, Italy, 1992; 7 <sup>th</sup> – St. Augustine, Trinidad & Tobago, 1994; 8 <sup>th</sup> – Wroclaw, Poland, 1996; 9 <sup>th</sup> – Adelaide, Australia, 1998; 10 <sup>th</sup> – Toulouse, France, 2000; 11 <sup>th</sup> – Boston, U.S.A., 2002; 12 <sup>th</sup> – Sao Pedro, Brazil, 2004; 13 <sup>th</sup> – Karlsruhe, Germany, 2006; Moscow, Russia, 2008.
1984-89	Member, Committee for Organic Agriculture, Ministry of Agriculture
1984-92	Member, Board of Directors, the International Association for Micronutrients in Agriculture (based in France)
1985-to date	Member, Steering Committee, International Working Group on Iron Nutrition and Interactions in Plants
1986-87	Member, Organizing Committee of the 2nd International Symposium on Behavior of Pollutants in Porous Media
1986-1996	Member, Committee for Water and Irrigation, the Israel Ministry of Agriculture
1986-90	Member Scientific Committee for Cooperation between Israel and Germany on Research on Ecology - Israel Ministry for Science and Development
1987	Member, Organizing Committee, Methods of Analysis, International Symposium on Horticultural Substrates and Their Analysis, International Society of Horticultural Science, Denmark
1987-89	Chairman of the Organizing Committee of the "5th International Symposium on Iron Nutrition and Interactions in Plants" held in Israel in 1989
1988-94	Member, Committee for Water Quality and Water Recycling, National Water Management Authority, Ministry of Agriculture
1988-94	Associate Editor "Plant and Soil"
1989-94	Chairman, International Working Group of Iron Nutrition and Interactions in Plants
1990-91	Postdoctorate Fellowship Committee, U.S. - Israel, Binational Agricultural Research and Development Fund (BARD)
1990-93	Member, Technical Advisory Board (TAC) of U.S. - Israel, Binational Agricultural Research and Development Fund (BARD)
1992-97	Member, Committee for Promotion of Researchers, The Government of Israel
1994-99	Chairman, National Committee for Research in Environmental Quality, Ministry of Science, Israel
1996-99	Member, European Union Committee for Agricultural Research
1996-99	Member, European Union Committee for Research in Environmental Quality
1996	Advisor, The World Bank
1996-2001	Chairman, The National Committee for Environmental Research, The Israeli Ministry of Science
1999-to date	Member, European Science Foundation – European Environmental Research Organization (EERO).

1999-to date	Member, Board of Directors, China-Israel Training Center in Agriculture and Environment, Beijing, China
2000-to date	Member, Steering Committee for Wastewater Irrigation Research, The Israeli Ministry of Agriculture and Rural Development
2000	Vice-President and President Elect – International Humic Substances Society
2000-to date	Member, Board of Directors, ICA-JCA, Charitable Foundation
2001	Member, Proposal Evaluation Committee in Environmental Quality, The Israel Academy of Science
2001-to date	Member, Board of Governors, The Tel-Hai College
2001-2004	President, Israel Society for Ecology and Environmental Quality Sciences
2001-to date	Member, Executive Board, International Society for Environmental Biogeochemistry (ISEB)
2002-2004	President, International Humic Substances Society
2003-to date	Member, Board of Directors, The Rimón School for Contemporary Music, Ramat Hasharon, Israel
2004-to date	Member, Board of Directors, The Tel-Hai College, Upper Galilee, Israel
2004-to date	Vice President of the A. von Humboldt Awardee Club in Israel
2004-2005	Member, Organizing Committee of the "Water is Life", joint Israel – Germany Conference, Jerusalem, December 2005
2005-to date	Member, Soil Sciences Section Board, European Geosciences Union (EGU)
2006-2009	Member, Organizing Committee, International Conference on "Deserts and Desertification: Challenges and Opportunities", Sede Boqer Campus, Ben Gurion University of the Negev, Israel, November 2006 and 2009.
2008	Ambassador of the German A. von Humboldt Foundation, in Israel.
2008	Member, of the Board of Directors, The Dead Sea and Arava Research Center.
2009 - 2014	Chairman, Joint reviewing committee, Binational Environment and Energy Research Program, France and Israel.
2009 - 2015	President, Tel Hai Academic College
2012 – 2015	Chairman, Committee of Academic Public Colleges in Israel (21 Colleges)
2016- to date	Member, Advisory Board, Beyachad (Caraso) Philanthropic Fund, dedicated to pre-engineering colleges.

### **Prizes and Awards**

1968	G. Cohen Award, the Faculty of Agriculture, Rehovot,
1970	Israel Society of Soil Science Mokady Award
1981	The G.A. Miller Distinguished Scientist Award, the University of Illinois
1990	Fellow, American Society of Agronomy
1991	Fellow, Soil Science Society of America
1997	Feher Foundation Prize for Excellence in Research and Science, awarded by: The Jerusalem Institute for Israel Studies, The Jerusalem Foundation and The Feher Foundation
1998	The Rothschild Prize for Excellence in Research in Agricultural Sciences
2001	Kaye Innovation Award, The Hebrew University of Jerusalem
2002	The Lisa Meitner – Alexander Von Humboldt Research Prize, Germany
2008	Doctor Honoris Causa, Wroclaw (Breslau) University of Environmental and Life Sciences, Poland

### **Scientific Societies and Organizations**

- Israel Society for Soil Science
- Israel Society for Clay Research
- International Soil Science Society
- International Humic Substances Society
- American Society of Agronomy
- Soil Science Society of America

### **Teaching**

Teaching the following courses:

1. Introduction to Soil Science - undergraduate level
2. Methods of Soil Analysis - undergraduate level
3. Soil and Water Pollution - graduate level
4. Soil Organic Matter - graduate level

Rectors list (\$ times) of outstanding Teachers at the Hebrew University

### **Graduate Students' Supervision:**

- Supervised 64 M.Sc. students. Among these, 7 were graded excellent and 4 received the Israel Soil Science Society Award
- Supervised 32 Ph.D. students.

### **Other Academic Activities**

- Reviewer of manuscripts for Nature, Plant and Soil, Soil Science Society of America Journal, J. Environ. Quality, Science of the Total Environ., Organic Geochem., Soil Sci., Agronomy Journal, Waste Management
- Reviewer of books for Elsevier and Kluwer Press
- Evaluations for the Faculty Promotion Committees for: the University of Illinois; Brigham Young University; Agricultural Research Organization, Israel; The Hebrew University of Jerusalem; Bar-Ilan University; University of California – Riverside; Louisiana State University; The University of Minnesota; The University of Wisconsin; The Oregon State University; The University of Arizona; The Technical University of Berlin; The GSF, Munich, Germany.
- Reviewer of research proposals for: Israel Science Foundation; BARD; BSF; GIF; BMBF; DFG; The Israeli Ministry of Agriculture.

### **Grants**

Since 1990, received grants from the following:

### **Foundations:**

- U.S.-Israel Binational Agricultural Research and Development Fund (5 grants)

- Commission of European Communities (EU) (3 grants)
- National Council for Research and Development (NCRD)
- Ministry of Niedersachsen for Science, Germany
- Ministry of Baden-Wurtemberg for Science, Germany (4 grants)
- Kaye Foundation for Biotechnology
- The Seagram Fund for Research, Development and Training in Soil and Water
- German Israel Foundation (GIF) (4 grants)
- Deutsche Forschung Gemeinschaft (DFG) (4 grants)
- Chief Scientist, Ministry of Agriculture (18 grants)
- Chief Scientist, Ministry of the Environment (5 grants)
- U.S. – Israel Binational Science Foundation (BSF)
- Israel Academy of Science (ISF)
- BMBF, Germany (4 grants)
- The Israel Ministry of Commerce and Industry (1 grant)
- MERC (2017)
- ICA (2018-2019)
- Netafim (2018-2019)
- Tevat Noach – Israel Ministry of Agriculture and Rural Development + ICL (2017-2019)

**Industry:**

- Israel Chemicals
- Schacham Ltd.
- Agrical-Habonim
- Israel National Coal Company
- Dow Chemicals
- Haifa Chemicals
- Dead Sea Works
- Y. Levin & Sons, Haifa
- Jaer, Spain
- Hydrola, Israel
- Elran Ecology, Israel
- Humin Tech, Germany
- Netafim, Israel
- Bar Idan, Israel
- ICL
- Netafim
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