

Prof. YONA CHEN

THE HEBREW UNIVERSITY OF JERUSALEM

**FACULTY OF AGRICULTURE,
FOOD AND ENVIRONMENT**

DEPARTMENT OF SOIL AND WATER SCIENCES

CURRICULUM VITAE

(January, 2020)

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Personal

Place of birth: 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 – Faculty of Agriculture, Food and Environment (FAFE)

-Employment Record

197074 Teaching assistant in soil science, Department of Soil and Water Sciences

197475 Instructor in soil science, Department of Soil and Water Sciences (DSWS)

197779 Lecturer in Environmental and Soil Chemistry, DSWS

197983 Senior Lecturer in Environmental and Soil Chemistry, DSWS

198387 Associate Professor in Soil Chemistry, DSWS

198689 Head, Department of Soil and Water Sciences and The Seagram Center for Soil and Water Sciences, Faculty of Agriculture, Food and Environment

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

1993-1997 Dean, Faculty of Agricultural, Food and Environment (FAFE)

Additional Activities within the Hebrew University

- 197475 Member, Teaching Committee, FAFE
- 197981 Chairman of Teaching Program in Soil and Water Sciences, FAFE
- 198283 Member of Committee of Physical Planning for the FAFE
- 198386 Chairman, Committee for Recreation and Sports, FAFE
- 198386 Member, the Research Committee, FAFE
- 198388 Member, the Teaching Committee, FAFE
- 198385 Member, the Committee for Basic Equipment, FAFE
- 198586 Member, the Committee for Academic Development, FAFE
- 198587 Member, University Disciplinary Committee for Graduate Research Assistants in Earth Sciences, Hebrew University
- 198690 Chairman, The Seagram Fund for Research, Development and Training Soil and Water
- 1986 Chairman, Planning Committee for the Employment of Graduate Students, FAFE
- 198789 Member, Fellowship Committee, FAFE
- 198790 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, FAFE
- 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
- 1997-2009 Head, Vigevani chair for Environmental Quality and Agriculture, FAFE

Positions at Research Institutes and Universities Abroad

- 1975-77 Research Fellow, Chemistry and Biology Research Institute, Agriculture Canada, Ottawa
- 198182 Visiting Professor, Department of Agronomy, University of Illinois, Urbana, Illinois
- 1989 Visiting Professor, Department of Agronomy, University of Maryland and Research Associate, USDAARS, 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- 2003 Visiting Professor and an Alexander von Humboldt Research Awardee, the University of Karlsruhe, Germany

2007-2008 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) - 234

Articles in Hebrew Journals - 52

Teaching Manuals (in Hebrew) - 10

Total Number of Publications – 402

As of 1.1.2020

H Index: 75; i10 index:216

Citations (total): 18763

Editorial Activity

1987to 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

197880 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
- 198292 Member of the Board, Israel Fertilizer Research Center
- 198284 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: 2nd - Birmingham, United Kingdom, 1984; 3rd - Oslo, Norway, 1986; 4th - Matalascanas Beach, Spain, 1988; 5th - Nagoya, Japan, 1990; 6th - Monopoli, Italy, 1992; 7th - St. Augustine, Trinidad & Tobago, 1994; 8th - Wroclaw, Poland, 1996; 9th - Adelaide, Australia, 1998; 10th - Toulouse, France, 2000; 11th - Boston, U.S.A., 2002; 12th - Sao Pedro, Brazil, 2004; 13th - Karlsruhe, Germany, 2006; Moscow, Russia, 2008.
- 198489 Member, Committee for Organic Agriculture, Ministry of Agriculture
- 1984-92 Member, Board of Directors, the International Association for Micronutrients in Agriculture (based in France)
- 1985to 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
- 19861996 Member, Committee for Water and Irrigation, the Israel Ministry of Agriculture
- 198690 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
- 198789 Chairman of the Organizing Committee of the "5th International Symposium on Iron Nutrition and Interactions in Plants" held in Israel in 1989
- 198894 Member, Committee for Water Quality and Water Recycling, National Water Management Authority, Ministry of Agriculture
- 198894 Associate Editor "Plant and Soil"
- 198994 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 for the best thesis of the year
 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; Barllan 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 BadenWurtemberg 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 (2017-2022)

Industry:

- Israel Chemicals
- Schacham Ltd.
- AgricalHabonim
- 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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