

CURRICULUM VITAE

Mualem, Yechezkel

Born: April 4, 1941, Bagdad, Iraq
Immigration to Israel: 1950
Citizenship: Israeli
Marital Status: Married with 4 children
Address: Seagram Center for Soil & Water Sciences,
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P.O. Box 12, Rehovot,
Israel

Academic Background

B.Sc., Technion - Israel Institute of Technology, Faculty of Civil Engineering, Haifa, Israel, 1967 (Cum laude).
M.Sc., Technion - Israel Institute of Technology, Faculty of Civil Engineering, Haifa, Israel, 1970 (Cum laude).
D.Sc., Technion - Israel Institute of Technology, Faculty of Civil Engineering, Haifa, Israel, 1974.

Present Status - Professor (emeritus), Columbia Foundation Chair in Soil and Water Sciences, Department of Soil and Water Sciences, The Robert H. Smith Faculty of Agriculture, Food & Environment, The Hebrew University of Jerusalem, P.O.B. 12, Rehovot 76100, Israel.

Previous Appointments

1967-1969 Assistant, (Fluid Mechanics, Hydraulics, Watershed Hydrology, Ground-water Hydrology), Faculty of Civil Engineering, Technion, Israel.
1969-1971 Instructor (part-time), as above.
1969-1971 Hydrologist, Regional hydrology of the coastal aquifer of Israel and North Sinai. Hydrologic Service of Israel, Ministry of Agriculture, Jerusalem.

1971-1975	Research Engineer, Hydraulic properties of unsaturated soils. Hydraulic and Hydrodynamics Laboratory, Technion - Israel Institute of Technology.
1972-1975	Lecturer (part-time, Fluid Mechanics, Hydraulics, Watershed Hydrology, Ground-water Hydrology), Faculty of Civil Engineering, Technion, Israel.
1975-1977	Research Associate, Faculty of Civil Engineering, Colorado State University, U.S.A.
1977	Research Associate, Department of Physics, University of Wisconsin, Madison, U.S.A.
1977-1978	Senior Research Associate, Faculty of Civil Engineering, Colorado State University, U.S.A.
1978-1979	Research Associate Professor, Faculty of Civil Engineering, Colorado State University, U.S.A.
1979-1993	Associate Professor, Dept. of Soil and Water Sciences, The Faculty of Agric., Food & Environ. Quality Sciences The Hebrew University of Jerusalem, Rehovot 76100, Israel.
1993-present	Full Professor, Dept. of Soil and Water Sciences, Faculty of Agricultural, Food & Environ. Quality Sciences, The Hebrew University of Jerusalem, Rehovot, Israel.

Professional Experience and Other Activities

1960-1963	Military service.
1963-1967	Construction worker (part-time).
1968-1971	Hydrologist, carrying out regional hydrological research of the coastal aquifer of Israel and North Sinai. Hydrologic Service of Israel, Ministry of Agriculture, Jerusalem.
1969-1971	Reviewing water planning projects in the framework of the Hydrologic Service of Israel. Consulting work for the Water Commissioner's Office.
1972-1973	Consultant to "Tahal" - Water Planning for Israel Ltd.: Utilization of surface water flow in artificial aquifers recharge.
1971-1975	Research Engineer, working on solutions for unsaturated flow problems. Hydraulic and Hydrodynamics Laboratory, Technion - Israel Institute of Technology.

- 1975 Post-doctoral fellowship granted by Yad Avi Hayishuv.
- 1975-1976 Participated in interdisciplinary project on "Water-logging Control for Improved Water and Land Use Efficiencies: A Systematic Technical, Institutional and Economic Analysis", headed by Professor R.A. Young.
- 1976-1979 Leading research projects on measurements and prediction of the hydraulic properties of unsaturated soils and their effect on soil-water processes.
- 1976-1977 Member of the "Organizing Committee" of the "Third Fort Collins International Hydrology Symposium", June 27-29, 1977.
- 1977 Invited to write (with Dr. E. Bresler) the "General Report on Soil-Water Processes" for the 3rd Session of the Third Fort Collins International Hydrology Symposium, June 27-29, 1977.
- 1977 Conducted seminars on soil-water processes and advisor, Department of Soil Physics, and the Mathematic Research Center, University of Wisconsin, Madison, Wisconsin.
- 1979-1981 Member of the BARD Evaluation Committee research proposals, Soil and Water Division, Ministry of Agriculture, Israel.
- 1981-1983 Member of the Executive Committee of the Israel Soil Science Society.
- 1984 Member of the Executive Committee of the Seagram Fund for Research, Development and Training in Soil and Water, The Hebrew University of Jerusalem.
- 1984 Chairman, Symposium on "Mathematical and Numerical Problems of Water Flow". EGS 10th Annual Meeting, Luviana-Neave, Belgium, 1984.
- 1984-1986 Head of the Teaching Division of Soil and Water Sciences, The Faculty of Agric., Food & Environ. Quality Sciences The Hebrew University of Jerusalem, Israel.
- 1985-1991 Editor, CATENA - An Interdisciplinary Journal of Soil Science, Hydrology and Geomorphology, D-3302 Cremlingen-Destedt, W. Germany.
- 1986-1991 Cooperation with the University of Nairobi, Kenya on Rain Water Harvesting for Livestock in Sandy Semi-Arid Regions.

- 1989 Invited speaker to the International Workshop on Mathematical Modeling for Flow and Transport in Porous Media, Irsee, W. Germany.
- 1989 Invited speaker to International Workshop on Indirect Methods for Estimating the Hydraulic Properties of Unsaturated Soils.
- 1990 Invited guest of the Institute of Soil Science, USSR Academy of Sciences. Lecture tour in Leningrad, Moscow and Pushchino, U.S.S.R.
- 1991 Invited speaker to the International Symposium on Soil Crusting: Chemical and Physical Processes, The University of Georgia, Athens, Georgia.
- Invited speaker to the Israeli-Czechoslovak Workshop on Soil and Ground Water Hydrology and Hydraulics, Czech University, Prague, Czechoslovakia.
- 1991-1993 Chief Editor of a new journal on Modeling Geo-Biosphere Processes, Catena Verlag, Germany.
- 1992 Invited speaker on Soil Surface Sealing and on Characterization of Regional Rainfall, University of Barcelona, Spain.
- Invited for scientific consultation, ZALF - Center for Agricultural Landscape and Land Use Research in Muncheberg and the Technical University of Berlin.
- Invited speaker and session-head to the Workshop on Agro-Ecosystem Modeling, Braunschweig, Germany.
- 1994 Invited speaker on Healing in the Social Structure of Ancient Israel, Najac, France.
- 1994 Invited speaker on Orientation Questions for Healers, Laurient, France.
- 1994-present Scientific Editor of Catena Verlag.
- Speaker and Chairman, Conference on Erosion and Land Degradation in the Mediterranean, Portugal, University of Aveiro, June 14-18, 1995.
- 1995-1998 Head of the Teaching Division of Soil and Water Sciences, The Faculty of Agric., Food & Environ. Quality Sciences, The Hebrew University of Jerusalem, Israel.
- 1995-1999 Member of the Editorial Advisory Board, Ecological Modeling, Elsevier.

- 2001 Visiting Professor (July 1 to September 30, 2001), Soil Sci. Unit, Dept. of Environmental and Soil Science, University of Girona, Spain.
- 2002-2005 Head of the Teaching Division of Soil and Water Sciences, The Faculty of Agric., Food & Environ. Quality Sciences, The Hebrew University of Jerusalem, Israel.
- 2004 Member of the Research Proposals Evaluation Committee; Head of Sub-Committee on Soil and Water Sciences, Ministry of Science and Technology, Israel.
- 2005-2008 Head of the Department of Soil and Water Sciences and the Leo Picard Groundwater Research Center, The Faculty of Agric., Food & Environ. Quality Sciences, The Hebrew University of Jerusalem.

Awards

- 1974 - Michael Landau Research Prize for "Accomplishment in Civil Engineering". Granted for excellent achievements in research on the "Hydraulic properties of unsaturated porous media: A critical review and new models of hysteresis and prediction of the hydraulic conductivity".
- 1975 - Certificate of Appreciation. A team award for cooperation and technical capabilities brought to bear in successful completion of the research project entitled: "Development of methods, tools and solutions for unsaturated flow with application to watershed hydrology and for field problems" headed by Dr. G. Dagan. Has been granted by the United States Department of Agriculture, Agricultural Research Service, International Program Division.
- 1979 - Fellow of the Bat-Sheba de Rothschild Foundation.
- 2004 - Appointed to serve on the "Columbia Foundation Cathedra of Soil and Water Sciences".

Membership in Professional and Scientific Societies

- Member - Soil Science Society of America.
- Member - American Geophysical Union.
- Member - International Soil Science Society.