

# Dr. Moshe Shenker

## Personal Details

Born: 1953, Kibbutz Kabri, Israel

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Department of Soil and Water Sciences  
Faculty of Agricultural, Food and Environmental Quality Sciences  
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## CURRICULUM VITAE

### Higher Education

- 1982-85 The Hebrew University of Jerusalem, Faculty of Agriculture; soil and water sciences; B.Sc. (*cum laude*).
- 1986-89 The Hebrew University of Jerusalem, Faculty of Agriculture; soil and water sciences, plant nutrition; M.Sc. (*cum laude*).
- 1989-95 The Hebrew University of Jerusalem, Faculty of Agricultural, Food and Environmental Quality Sciences; soil chemistry and plant nutrition; Ph.D., supervisors: Prof. Y. Chen and Prof. Y. Hadar.
- 1996-97 Post-doctorate research at the Department of Soil and Environmental Sciences, University of California, Riverside, USA. Host – Prof. D.E. Crowley. Research: Rhizosphere interactions and trace-element uptake by plants – environmental considerations and soil bioremediation.

### Appointments at the Hebrew University

- 1986-93 Research and Teaching Assistant at the department of Soil and Water Sciences. Courses: Introduction to Soil Science; Physics.
- 1993-96 Teacher at the Faculty of Agriculture. Taught the courses of Methods of Soil Analysis (1995) and Waste Management and Recycling (1996).
- 1997-2003 Lecturer, Department of Soil and Water Sciences, Faculty of Agricultural, Food and Environmental Quality Sciences, Rehovot, Israel. Research and teaching topics include: Soil Fertility, Plant Nutrition, and Environmental Soil Chemistry.
- 2003 to-date Senior Lecturer, Dept. Soil and Water Sci., The Hebrew University of Jerusalem.

### Teaching at the Hebrew University

a) Courses

- Fertilization and Soil Fertility
- Municipal and Agricultural Waste Management and Recycling
- Soil Chemistry
- Soilless Culture, Container Media, and the Root Environment

b) Supervision of MSc. and Ph.D. students

- Oren Reichmann – M.Sc. student (1998-2002). Co-supervisor: Prof. Iggy M. Litaor.
- Sharon Seitelbach – M.Sc. student (1999-2003).
- Rosa E. Taquiri – Research project, the program for overseas M.Sc. students (1999-2000)
- Xiaolan Huang – Ph.D. student (2000-2004). Co-supervisor: Prof. Yona Chen.
- Sarit Brand – M.Sc. student (2001-2005)
- Avi Haim – M.Sc. student (2001-2005). Co-supervisor: Prof. Iggy M. Litaor.
- Yishai Nezer – Ph.D. student (2002 to-date). Co-supervisor: Dr. Amnon Schwartz.
- Yair Volovitz – M.Sc. student (2003 to-date). Co-supervisor: Prof. M.I. Litaor.
- Idan Barnea – M.Sc. student (2004 to-date). Co-supervisor: Prof. Iggy M. Litaor.
- Rotem Sade – M.Sc. student (2005 to-date). Co-supervisor: Prof. Iggy M. Litaor.
- Maayan Lichtenberg – M.Sc. student (2005 to-date).
- Sarit Brand-Klibanski – Ph.D. student (2005 to-date). Co-supervisor: Prof. Iggy M. Litaor.
- Yonatan Zusman – M.Sc. student (2005 to-date). Co-supervisor: Dr. Yafit Cohen.
- Guy Tamir – Ph.D. student (2005 to-date). Co-supervisor: Dr. Asher Bar-Tal.

c) Post-doctoral Fellows and Visitors (6 month or longer)

- Xiaolan Huang – Overseas graduate student (1998-1999).
- Dr. Tapan Adhikari – Post-doctoral Fellow (1999-2000).
- Cheng Bo – Overseas student (2001-2002).

## Research Activities

Research activities are focused on environmental and agricultural aspects of soil chemistry and plant nutrition. Research topics:

1. Hydro-geochemistry of phosphorus in re-wetted peat-soils
2. Evaluation of nutrient availability for plants
3. Control and restraining nitrate and phosphate release from fresh manure: application for reducing risks of water pollution and for slow release of nutrients after incorporation into soil.
4. Phosphorus reactions and availability in soils amended with sewage sludge
5. Metals in soils and their uptake by plants