



**Technion - Faculty of Civil and Environmental Engineering**

**The Dahlia Greidinger International Symposium - 2009**

**Organized and Supported by:  
The Dahlia Greidinger Memorial Fund  
and  
BARD, The United States - Israel  
Binational Agricultural Research and Development Fund**

**Crop Production in the 21<sup>st</sup> Century: Global Climate  
Change, Environmental Risks and Water Scarcity**

**March 2-5, 2009  
Technion-IIT, Haifa, Israel**

**<http://dgsymp09.technion.ac.il>**

*Second Circular*



## The Dahlia Greidinger International Symposium - 2009

### Symposium Objective and Format

The objective of this four day symposium is to re-examine research and development directions, needs and knowledge gaps, and identify possible modes for coping with the increasing severity of water scarcity, reduced water quality, soil degradation, and their effects on food security. A post-symposium professional tour ( March 6<sup>th</sup>) will be held, in which participants will be shown Israel's technological developments in brackish water and wastewater treatment and advanced fertigation systems.

The majority of podium presentations will be delivered by invited speakers who are leading experts in their fields, with a few additional selected voluntary presentations. Poster sessions will be held in parallel.

The Dahlia Greidinger Memorial Symposium is strongly supported this year by BARD (*The United States - Israel Binational Agricultural Research and Development Fund*) and MARD (*Multinational Agricultural Research and Development Fund*).

Special support will allow travel assistance to M.Sc. and Ph.D. students presenting posters related to the themes described below.

### Symposium Themes

#### 1. Inter-relations: Global Climate Change and Crop Production

- 1.a. Global Climate Changes and the Water Cycle.
- 1.b. Agriculture Addressing Global Changes.
- 1.c. Interrelationships between Irrigation, Plant Nutrition, and Pollution.

#### 2. Approaches to Overcoming Problems Related to Water Scarcity and Quality in Crop Production

- 2.a. Water Resource Management: local and regional management; trans-boundary water problems; socio-economic and policy issues.
- 2.b. Carbon Sequestration – approaches towards increasing soil productivity.
- 2.c. Water and Nutrient Conservation and Saving.
- 2.d. Irrigation and Fertigation of the Future: "precision delivery"; novel technologies; phyto-monitoring; advances in science of future irrigation engineering.
- 2.e. Crops of the Future: hydraulic efficiency of crop plants in water challenged environments; genetic engineering and breeding combined with improved water and nutrient management.
- 2.f. Novel Approaches to Modeling.



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### Invited Speakers (Tentative List)

First Name	Last Name	Affiliation	Theme
Oded	Achileah	Haifa Chemicals Ltd.	2c
Amjad	Alewi	House of Water and Environment, Ramallah	2a
Pinhas	Alpert	Geophysics & Planetary Sciences, Tel Aviv University	1a
Shmuel	Assouline	ARO, Volcani Center	2d
Pedro	Berliner	Jacob Blaustein Institutes for Desert Research, Ben-Gurion University	2f
Nirit	Bernstein	ARO, Volcani Center	2c
Shabtai	Cohen	ARO, Volcani Center	2c
Shmulik	Friedman	ARO, Volcani Center	2d/1b
Alex	Furman	CEE, Technion-IIT	2d
Ibrahim	Gurer	Gazi University, Ankara	2c
Terry	Howell,	USDA-ARS, Texas Conservation & Production Research Lab	2d
William	Jury	Department of Environmental Sciences, UC Riverside	2f
Ramesh	Kanwar	Agricultural & Biosystems Engineering, Iowa State University	2a/2f
Arnon	Karnieli	Solar Energy and Environmental Physics, Ben-Gurion University	1a/2d
Rattan	Lal	School of Natural Resources, Ohio State University	2b
Matthias	Langensiepen	Faculty of Agriculture and Horticulture, Humboldt-University of Berlin	2e
Daniel P	Loucks	School of Civil and Environmental Engineering, Cornell	2a

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### Invited Speakers (Tentative List) - continued

First Name	Last Name	Affiliation	Theme
Luc	Maene	Director General Int. Fertilizer Industry (IFA)	1b/1c
Amer	Marei	Department of Earth and Environmental Sciences, Al-Quds University	2d
Holger	Meinke	The Netherlands Crop and Weed Ecology, Wageningen University	2f
Avi	Ostfeld	CEE, Technion-IIT	2f
Zhang	Renduo	Zhongshan (Sun Yat-Sen) University, China	1b
Eyal	Rotenberg	Environmental Sciences and Energy Research, Weizmann Institute	2a
Alon	Samach	Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Hebrew University	2e
Uri	Shamir	CEE, Technion-IIT	2a
Uri	Shani	Director of Israel Water Authority & Faculty of Agriculture, Hebrew University	2a
Mordechai	Shecter	Department of Economics, Haifa University	1b/2a
Thomas R.	Sinclair	Agronomy Department, University of Florida	2e
Gurbachan	Singh	Central Soil Salinity Institute, Karnal, India	2c
Timothy C.	Strickland	USDA-ARS, Southeast Watershed Research Laboratory, GA	2a/2c
Abdul Rahman	Tamimi	Palestinian Hydrology Group, Ramallah	2a
Ron	Turco	Water Center, Purdue University	2c/2f
Mike	Walter	Biological and Environmental Engineering, Cornell University	2a/2f
Dan	Yakir	Department of Environmental Sciences & Energy Research, Weizmann Institute	2b
Uri	Yermiyahu	ARO- Volcani Center	2c



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### Information

**Accommodations:** Participants are welcome to make reservations with the help of the Symposium secretary. Special rates will be offered.

**Registration:** A registration fee is required to cover expenses for a conference booklet, lunches and coffee breaks for the four conference days. An early registration fee of \$150 per person will be charged until January 5, 2009, after which the fee will be \$170.

**Please note:** Registration fees will be waived for all participants presenting posters and for presenters of the (selected) voluntary podium presentations.

### Important Submission Dates

Registration form (see attachment)	From now on;
Extended Abstracts (up to 500 words in WORD)	By January 5, 2009;
Early (discount) registration fee	By January 5, 2009;
Manuscripts of presentations	By March 2, 2009.

### Regional Organizing Committee

<u>Chair</u> - Prof. A. Shaviv, Technion-IIT	Prof. Emeritus J. Hagin, Technion-IIT
Dr. D. Broday, Technion-IIT	Dr. S. Cohen, ARO, Volcani Center
Dr. A. Furman, Technion-IIT	Mr. G. Kalyan, Fertilizers & Chem. Ltd., Haifa
Dr. A. Aliewi, House of Water and Environment, Ramallah	
Mrs. Lee Cornfield, Technion- IIT – Symposium secretary	

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### Scientific Committee

In addition to the scientists listed above, the scientific committee will include:

Co-Chair Prof. R. Kanwar, Iowa State University

Prof. R. Mohtar, Purdue University

Prof. M. Walter, Cornell University

*A final circular with the full program will be issued in early February, 2009.*