Upcoming workshop:

**Automated Methods for Continuous Measurements in Agriculture and Forestry**

*September 9-10, 2013*

*George Evens Family Auditorium, Sede Boqer Campus*

*Ben-Gurion University of the Negev*

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**Monday, September 9th (Even-Ari Symposium):**

8:30-9:20 Registration
9:20-9:40 OPENING REMARKS – Pedro Berliner, Sammy Boussiba, Yitzchak Guterman, Shimon Rachmilevitch
9:40-10:30 Opening lecture – C. and G. Campbell: **Simplifying and enhancing distributed environmental instruments and associated measurement networks from the sensor to the user interface**

**Session 1: Chair - Jhonathan Ephrath**

10:30-10:50 M van der Ploeg: **Continuous monitoring of the soil water potential in dry and saline soils with polymer tensiometers**
10:50-11:10 I Ferreira: **Long term monitoring of sap flow in lignotuber and roots in rainfed olives**
11:10-11:30 N Lazarovitch: **Optimization of triggered irrigation using numerical modelling of water flow and solute transport**

11:30-11:50 Coffee break
11:50-12:10 M Faget: **Exploring roots and root interactions through novel and automated methods**
12:10-12:30 S Rachmilevitch: **Continuous automated measurements of whole plant root respiration and photosynthesis in response to non-self-neighbours**
12:30-12:50 S Friedman: **Measurements and modelling of water uptake of bell pepper plants drip-irrigated at different frequencies**
12:50-13:10 A Ben-Gal: **LISYMETERS for in-situ plant and soil monitoring**
13:10-14:30 Lunch and Poster session

**Session 2: Chair – Naftali Lazarovitch**

14:30-15:10 CW Windt: **Measuring plant water relations, dry matter accumulation and sap flow by means of a portable NMR sensor**
15:10-15:30 JE Fernandez: **The use of trunk diameter variations to schedule irrigation in olive orchards**
15:30-15:50 S O’Shaughnessy: **Wireless canopy sensing network systems for automated control of irrigation and water use efficiency**
15:50-16:20 Coffee break
16:20-16:40 J Tanny: **Continuous measurements of whole canopy fluxes using turbulent transport techniques**
16:40-17:00 M Moshelion: **A novel high-throughput diagnostic screening system for identifying crop and trees seedlings stress resistance traits: The physiomics approach**
17:00-17:20 O Guy: **Using dendrometer to support decision-making in the field**
17:20-17:30 Concluding remarks

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**Tuesday, September 10th:**

**Session 3: Chair – Shimon Rachmilevitch**

9:00-9:40 J Flexas: **Automaticable tools for regulating irrigation in grapevines**
9:40-10:00 E Ravish: **Using automated stem electric conductivity measurement for continues monitoring of variation in stem water content status in agriculture and forestry**
10:00-10:20 E Tripler: **Diurnal water uptake pattern by trees measured by a Geo-Drip Tensiometer**
10:20-10:40 G Winters: **Lessons to be learnt from monitoring dieI and seasonal changes in the photo physiology in corals using PAM fluorometry**
10:40-11:00 J Ben-Asher: **Monitoring vs. Sampling: A comparison of the PTM 48 Photosynthesis and Transpiration Monitor with LiCor 6400 sampler**
11:00-11:30 Coffee break
11:30-11:50 A Furman: **Electrical Resistivity Tomography as a tool for space continuous root zone monitoring**
11:50-12:10 S Cohen: **Sap flow monitoring for determining whole plant water use**
12:10-12:30 Y Netzer: **Is it possible to measure hourly water consumption in drainage lysimeters?**
12:30-12:50 T Kamai: **Soil-Tree-Atmosphere water relations in the rain-snow transition zone of a California Sierra Nevada forest**
12:50-13:00 B Rewald: **Root laboratories of the future—A design contest**
13:00-14:30 Lunch and poster session

**Session 4: Chair – Alon Ben-Gal**

14:30-15:10 SR Evet: **Automated soil water balance sensing: From layers to control volumes**
15:10-15:30 E Rotenberg: **Preparing for future climate: Continuous, automated measurements of land atmosphere exchange of energy and gases in Yatir**
15:30-15:50 V Alchanatis: **Thermography for evaluation of wheat plants behaviour during water stress**
15:50-16:10 Coffee Break
16:10-16:25 O Spirling: **Stem-water sensors reveals intra-flows in the soil-plant-atmosphere continuum of date palms**
16:25-16:40 I Paudel: **Automatic monitoring the soil, plant and climatic sensors for irrigation control in nectaring trees**
16:40-16:55 N Schwartz: **Measurement of porous media fluid and solid-fluid interface properties using spectral induced polarization**
16:50-17:30 S Cohen and U Hochberg: **Round Table Discussion**