

Workshop of the Tel-Aviv University (School of Geosciences), and the Ministry of Science,
Technology and Space

**SPATIAL AND TEMPORAL MONITORING OF PASTURE ECOLOGICAL QUALITY: A
MULTIDISCIPLINARY APPROACH**

PROGRAM

Location: Porter Building Tel-Aviv University, December 20, 2018

- 08:30 - 09:00 Registration and refreshments
- 09:00 – 09:15 Workshop goal: Dr. A. Chudnovsky, Tel-Aviv University
- 09:15 - 9:50 Marcelo Sternberg, Kineret Shwartz-Manevich and Zalmen Henkin "Effects of stocking density on soil properties and forage quality: Evidences from a long-term study in a Mediterranean grassland".
- 9:50 - 10:20 Rachel Lugassi, Eli Zaady, Naftaly Goldshleger, Maxim Shoshany, Alexandra Chudnovsky: Spatial and temporal monitoring of pasture ecological quality: Satellite-based estimation of crude protein (CP) and neutral detergent fiber (NDF) contents.
- 10:20 – 10:50 Efrat Sheffer: "Nutrient limitation in herbaceous pastures across the rainfall gradient in Israel"
- 10:50 – 11:20 : Jaime Kigel, Arie Vinograd and Eli Zaady: "Is traditional grazing based on seasonal corrals leading to loss of soil fertility and vegetation productivity?"

11:30-12:30 lunch Break

- 12:30-13:00 S.Y. Landau: Fecal NIRS evaluation of diet quality and animal density at pasture
- 13:00- 13:30 Maxim Shoshany, Jisung Chang, Naftali Goldshlager, Rachel Lugassi, Zaady Eli and Alexandra Chudnovsky: Hyper-spectral mapping of soil and vegetation conditions along semi-arid to arid climatic gradient.
- 13:30- 14:00 Jisung Chang, Maxim Shoshany, and Yisok Oh: Polarimetric Radar Vegetation Index for Biomass Estimation in Desert Fringe Ecosystems
- 14:00 – 14:30 Naftali Goldshleger and Eli Zaady: Frequency Domain Electromagnetic Method as remote sensing tool to study the contaminated subsoil of nighttime livestock enclosures in dry regions.

14:30- 15:00 coffee Break

- 15:00 – 16:00 Multidisciplinary approach in ecological quality: current challenges: Open table discussion. Mediator: Maxim Shoshani.

Refreshments and light lunch will be served. Please reserve your participation at:
achudnov@tauex.tau.ac.il. Workshop language is Hebrew