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August, 2013

WP2, Training by ZALF (CP5), 5-day training period

SEMINAR O UPORABI MERITEV STABILNIH IZOTOPOV V GOZDARSTVU

(Velika sejna soba Gozdarskega inštituta Slovenije)

Monday, 26 August 2013

Afternoon (from 14:00 till 17:00): Stable isotopes principles and general background

Tuesday, 27 August 2013

Morning (from 9:00 till 12:00): Isotope mass spectrometry: theory

Afternoon (from 13:00 till 16:00): Discussion on specific problems

Wednesday, 28 August 2013

Morning (from 9:00 till 12:00): Carbon isotopes - photosynthetic and post-photosynthetic fractionation;
Oxygen isotopes

Afternoon (from 13:00 till 16:00): Assessing the water and carbon balance of plants and ecosystems with
stable isotopes; Interpretation of stable isotope data - what do we need to take into account

Thursday, 29 August 2013

Field trip to the research plots on Podgorski kras

Friday, 30 August 2013

Morning (from 9:00 till 10:00): Special questions and wrap-up

Prof. Arthur Gessler: *Plant Physiologist working on plant involvement in biogeochemical cycles and on plant-microbe interactions as affecting nutrient uptake of woody and herbaceous plants. A.G. is highly experienced in the application of stable isotopes in natural abundance and as enriched tracers to explain and quantify nutrient fluxes and cycles from the metabolic to the landscape level. Member of several editorial boards of renowned scientific journals.*

Dr. Zachary Kayler: *experience in plant and soil isotope techniques and in designing pulse label experiments, Technical and analytical experience in stable isotope measurements with isotope ratio mass spectrometers and isotope laser spectrometers.*