

## **AGENDA Meeting WG2 and WG3, [COST 869](#), Jokioinen, Finland, 14-16 June 2010**

### **Sunday, June 13**

Arrival at Forssa (10 km from MTT Agrifood Research Finland), Hotel Pumpulienkeli

Address of the hotel: Hämeentie 7, Torikeskus, 30100 Forssa

19 - 21 Welcome at the hotel bar

### **Monday, June 14**

9.00 Departure by bus from the hotel to MTT, Jokioinen

9.30 Registration at MTT. Address: Humppilantie 9, 31600 Jokioinen

10.15 **Erkki Kemppainen**, Finland: Opening of the workshop

10.30 **Session 1: *Novel methods - innovations, experiences, prospects***

**George A. O'Connor**, USA: Amendments to control P mobility [KEYNOTE]

**Deborah Ballantine**, New Zealand: Methods for reducing agricultural nutrient loading and eutrophication: The New Zealand story [KEYNOTE]

13.00 Lunch

14.00 **Session 2: *Potential of phosphorus and nitrogen binding materials***

**Wim Chardon**, The Netherlands: Testing phosphorus sorbing materials - results and questions about criteria

**Risto Uusitalo**, Finland: Phosphate retention/solubilization characteristics of industrially produced Ca-Fe oxide granules

**Olav Eklund**, Finland: Nanostructured vermiculite - A new material for recycling ammonium from different types of polluted matters

15.15 Coffee + **poster session**

16.30 Excursion at MTT to sites with new measures

18.30 Evening and dinner at Elonkierto park with optional canoeing and sauna by the River Loimijoki

22 Arrival at the hotel

### **Tuesday, June 15**

8.30 Departure by bus from the hotel to MTT

9.00 **Session 3: *Practical results for runoff, buffer zones and wetlands with new measures***

**Raymond Bernard Brennan**, Rep. of Ireland: Evaluation of chemical amendments to control soluble phosphorus losses from dairy cattle slurry

**Jaana Uusi-Kämpä**, Finland: A rainfall simulation study on P removal in buffer zones amended with Fe and Ca compounds

**Barbro Ulén**, Sweden: Structure liming and omitting ploughing as measures to reduce agricultural nutrient loading to surface waters

**Anne Falk Øgaard**, Norway: Phosphate adsorption on different filter materials

10.30 Coffee

11.00 **Session 3 continues**

**Pia Kynkäänniemi**, Sweden: Constructed wetland to mitigate P losses from hotspots in agricultural areas

**Anne-Mari Ventelä**, Finland: Winter time nutrient load is challenging long-term water protection measures - urgent need for new tools

**Clare Deasy**, United Kingdom: Assessing the potential for using constructed wetlands as mitigation options for phosphorus and sediment within UK agriculture

**Petri Ekholm**, Finland: Does gypsum reduce phosphorus losses in an agricultural catchment?

12.30 Lunch + **poster session**

14.00 Excursion to a wetland site near Turku, and the Archipelago Sea

22 Arrival at the hotel

**Wednesday, June 16**

8.30 Departure by bus from the hotel to MTT

**9.00 Session 4: *More about catchments: measures on critical source areas***

**Daniel Fiala**, Czech Republic: Shortfall of P budget in Orlik Reservoir - statistical tryout among culprits with sparse data

**Micha Gebel**, Germany: Evaluation of critical source areas to reduce nutrient loading from agriculture in river basins in Saxony/Germany

**Jaroslav Antal**, Slovakia: Reduction of groundwater pollution by nitrate-nitrogen with agrotechnical measures

**Jeroen de Klein**, The Netherlands: Balancing emission reduction measures and ecological water quality benefits; the river Dommel case

10.30 Coffee

**11.00 Session 5: *Remedies in water bodies***

**Jouni Lehtoranta**, Finland: What to do with extra electrons - how combating eutrophication may affect mineralization pathways

**Guido Waajen**, The Netherlands: Application of lanthanum-modified bentonite and flocculent reduces eutrophication in a lake

**Bryan Spears**, United Kingdom: Using Phoslock®, to control cyanobacteria in a shallow eutrophic Scottish reservoir - ecological responses across multiple trophic levels

**Sebastian Meis**, United Kingdom: Using Phoslock® to control cyanobacteria in a shallow eutrophic Scottish reservoir - assessing its impact on sediment phosphorus pools

12.30 Lunch

14.00 End of the workshop, departure to the hotel

## **Poster presentations:**

**Borda, T., Celi, L., Buenemann, E., Oberson, A., Frossard, E., Barberis, E.:** Potential phosphorus and arsenic release in dispersed particulate form from Bangladesh rice fields

**De Bolle, S., Gebremikael, M.T., De Neve, S.:** Can phosphate solubilising bacteria be of use on phosphate saturated soils?

**Hämäläinen, J.-M., Kulokoski, U., Pietola, L.:** Gypsum effects on soil characteristics and phosphorus sorption

**Johannesson, K.M., Tonderski, K., Wedding, B., Weisner, S.E.B.:** Phosphorus dynamics and retention in non-point source wetlands in southern Sweden

**Kjaergaard, C.:** Sustainable phosphorus remediation and recycling technologies in the landscape

**Koski-Vähälä, J., Saarijärvi, E., Heikkilä, J.:** Modelling of the effects of phosphorus load in Iisalmi Route

**Lilja, H.:** Erosion mapping with Light Detection and Ranging (LIDAR) and RUSLE - method testing at experimental plots and farmers' fields

**Martin, M., Hossain, J., Simona, S., Celi, L., Borda, T., Barberis, E.:** Potential phosphorus and arsenic release in dispersed particulate form from Bangladesh rice fields

**Närvänen, A., Uusitalo, R.:** Reduction of phosphorus load from critical source areas using ferric sulphate

**Pietola, L., Kulokoski, U.:** Gypsum effects on percolated water characteristics at various soil P status

**Purnavel, G., Dana, D., Filiche, E., Petrovici, G., Dodocioiu, A.M., Mocanu, R., Cotet, V.:** Protection of hill lakes through erosion control works

**Saarijärvi, K., Virkajärvi, P.:** Surface runoff simulator (SIMU) hastens the research on phosphorus losses from grasslands

**Skowron, P.:** Acidification as a controlling factor for the content of an active form of nutrients in soil

**Stoicheva, D., Kercheva, M., Koleva, V., Simeonova, T.:** Agricultural practice and nitrogen leaching at the field experiment: Risk analyses using NLEAP model

**Uusitalo, R., Ylivainio, K., Nylund, P., Pietola, L., Turtola, E.:** Rainfall simulations of Jokioinen clay soils amended with gypsum to decrease soil losses and associated P transfer

**Vakkilainen, P., Alakukku, L., Myllys, M., Nurminen, J., Paasonen-Kivekäs, M., Puustinen, M., Peltomaa, R., Äijö, H.:** Nutrient transport from different kind of subsurface drainage systems on clay soil

**Tonderski, K., Pers, C., Arheimer, B.:** Assessing the effect of constructed wetlands on non-point source nitrogen removal.

**Valkama, P., Lahti, K., Särkelä, A.:** Applying on-line monitoring for quantification of diffuse load