

ECPA 2017 Satellite: Precision Management of Grassland & Grazing Livestock

Programme

Tuesday 18th July

12.00-	Registration
12.30-1.30	Lunch
1.30-2.15	Invited Speaker (Matthew Smith; Microsoft)
2.15-3.00	Invited Speaker (Ian Yule; Massey University) : Pasture and soil monitoring techniques for use with grazing ruminants.
3.00-3.30	Coffee
3.30-3.42	Alvemar: profitability of controlled traffic in grass silage production – economic modelling and machinery systems
3.42 -3.54	Hargreaves: Potential for Controlled Traffic Farming (CTF) in Grass Silage Production: Agronomics, system design and economics
3.54-4.06	Higgins: A review of Precision Agriculture as an aid to Nutrient Management in Intensive Grassland Areas in North West Europe
4.06-4.18	Andersson: Estimating pasture biomass with active optical sensors
4.18-4.30	Berry: Development of methods for remotely sensing grass growth to enable precision application of nitrogen fertiliser
4.30-4.42	Giepel: Hyperspectral Aerial Imaging for Grassland Yield Estimation
4.42-4.54	Pena-Yewtukhiw: Interactions between landscape defined management zones and grazing management systems
4.54-5.06	Portz: capability of crop canopy sensing to predict crop parameters of cut grass swards aiming at early season variable rate nitrogen top dressings
5.06-5.18	Serrano: Proximal sensing for monitoring the productivity of a permanent Mediterranean pasture: influence of rainfall patterns

Wednesday 19th July

9.00-9.45	Invited Speaker (Bob Rees; SRUC): Prospects for smart soil management techniques in grazing systems - techniques and implications of spatial management of grassland soils
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9.45-10.00	Bernardi: Soil electrical resistivity in different water levels in an integrated crop-livestock-forest system in Brazil
10.00-10.15	Blennerhassett: MitAgator - a GIS based spatial tool to manage nitrogen, phosphorus, sediment and E.Coli losses from pasture
10.15-10.30	Cosby: Pastures from Space® Plus for teaching precision pasture management
10.30-11.30	Coffee and Poster viewing
11.30-11.45	Kenyon: Cultivar Selection by Cattle Grazing Tall Fescue Infected with Novel Endophytes
11.45-12.30	Invited Speaker (Christina Umstatter; AgroScope): Tracking and control of livestock in extensive systems.
12.30-1.30	Lunch
1.30-2.15	Invited Speaker (Mark Rutter; Harper Adams University): Precision monitoring systems for the performance and health of grazing livestock: remote and animal-mounted sensors for monitoring the feeding, performance and health of free-ranging animals.
2.15-2.30	Cosby: Low-Cost GPS Collars: An Alternative to Commercial Collars for Tracking Cattle During Rangeland Research
2.30-2.45	Kenyon: The application of a weight-based targeted selective wormer treatment (TST) strategy on hill and upland sheep flocks
2.45-3.00	Morgan-Davies Evaluating precision management of sheep in a hill farming system
3.00-3.30	Coffee
3.30-3.45	O'Brien: Evaluation of the RumiWatch technology for measuring detailed grazing activities of cows
3.45-4.00	Romanzin: Effect of climatic conditions on nocturnal behavior of dairy cows grazing on Alpine pasture
4.00-4.15	Kodam: Opportunities for live tracking of sheep and cattle in grassland systems
4.15-4.30	McManus: Prediction of grass dry matter intake in grazing ewes using infrared thermal imaging

Posters

Primi	A preliminary evaluation of a simple model for the estimation of mountain forage biomass using Sentinel 2 data
Santiago	Calving behaviour monitoring through Digitanimal platform in dairy cows: Preliminary results
Valbuena-Parralejo	Grasscheck: weather and grass growth monitoring to improve grassland management in Northern Ireland
Bernardi	Soil electric resistivity in different water levels in an integrated crop-livestock-forest system
Wang	Evaluating critical nitrogen dilution curve in grass seed production using images from unmanned aerial system
Paoli	Towards the estimation of vole damage on grassland by aerial multispectral imaging
Borra-Serrano	Non-destructive monitoring of grassland canopy height using a UAV