

Effects of fertiliser nitrogen and variety on the concentrations of non-Starch polysaccharides in winter wheat for alcohol production
HANNAH DAVIS-KNIGHT, RICHARD WEIGHTMAN, REGINALD AGU, TOM BRINGHURST & JAMES BROSHNAN (ADAS Centre for Sustainable Crop Management, ADAS UK Ltd, Boxworth, Cambridge, UK)

20.00 **DINNER**

TUESDAY 11 MAY

08.30 **REGISTRATION**

Session II : Fibre crops and conversion of biomass (cont'd)

09.00 **Biorefining of ryegrass for fibre production in Northern Ireland**
H S SHEKHAR SHARMA, GARY LYONS, COLIN McROBERTS & MIKE CAMLIN (APSD & AFESD, Agrifood & Biosciences Institute, Belfast, N Ireland)

09.20 **Acid treatment of rapeseed straw for bioethanol production**
A MATHEW, A HUMPHRIES, M CROOK & K CHANEY (Harper Adams University College, Newport, UK)

Session III : Higher value and pharmaceutical products

09.40 **Invited speaker**
Development of Cannabis as a prescription medicine
BRIAN WHITTLE, ETIENNE de MEYER & DAVID POTTER
(GW Pharmaceuticals, Porton Down Science Park, Salisbury, UK)

10.20 **Biopharmaceuticals; opportunities and constraints**
LYDIA SMITH (NIAB, Cambridge, UK)

10.40 **COFFEE**

11.10 ***Euphorbia peplus* as a pharmaceutical crop**
RICHARD WEIGHTMAN, MARIE BEAUDET & HELEN GREENLEAVES
(ADAS Centre for Sustainable Crop Management, ADAS UK Ltd, Boxworth, Cambridge, UK)

11.30 **Developing Sweet Gale (*Myrica gale*) as a new crop for the pharmaceutical industry**
PETER MARTIN & XIANMIN CHANG (Agronomy Institute, Orkney, UK)

11.50 **The agricultural production of woad and derivation of indigo**
IAN HOWARD (The Woad Centre, Dereham, Norfolk, UK)

12.10 **DISCUSSION**

12.30 **LUNCH & DEPART**



INVESTOR IN PEOPLE

ASSOCIATION OF APPLIED BIOLOGISTS

President: Michael Jeger, PhD, FIBiol, FIMA, FLS



A 2 day conference

**at Wyboston Lakes Conference Centre,
Bedfordshire, UK**

on 10–11 May 2010

**PROGRAMME AND
BOOKING FORM**

Non Food Uses of Crops

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Non Food Uses of Crops

to be held at Wyboston Lakes Conference Centre, Bedfordshire UK

on 10-11 May 2010

BASIS POINTS AWARDED 9 (1 CP, 4 E, 1 AP, 1 PN, 2 PD)

PROVISIONAL PROGRAMME

MONDAY 10 MAY

- 09.00 REGISTRATION
- 10.00 **INTRODUCTION**
RICHARD WEIGHTMAN (ADAS Centre for Sustainable Crop Management, ADAS UK Ltd, Boxworth, Cambridge, UK)
- 10.10 *Invited speaker*
The development of non-food crops - the long road from high values to mainstream energy
JEREMY TOMKINSON (National Non Food Crops Centre, York, UK)
- Session I : GHG savings and environmental benefits*
- 10.50 **Biofuels - Their impact on crop production world wide**
BRUCE KNIGHT (Innovation Management, Burwell, Cambridge, UK)
- 11.10 **Optimisation of supply and energetic use of biomass from representative grassland types in Germany**
KATYE GÖDEKE (Thuringian State Institute of Agriculture (TLL), Germany)
- 11.30 **COFFEE**
- 12.00 **'Use of Hemp-lime and straw bale technology as low-carbon solutions to building construction'**
PETER WALKER Centre for Innovative Construction Materials, Dept of Architecture & Civil Engineering, University of Bath, UK)
- 12.20 **Nitrate leaching losses from *Miscanthus × giganteus* impact on groundwater quality**
EDNA CURLEY (University College, Dublin, Ireland)
- 12.40 **Low N input cereal varieties for bioethanol production**
DANIEL KINDRED *et al.* (ADAS Centre for Sustainable Crop Management, ADAS UK Ltd, Boxworth, Cambridge, UK)
- 13.00 **DISCUSSION**
- 13.10 **LUNCH**

Session II : Fibre crops and conversion of biomass

- 14.10 *Invited speaker*
The future for fibre crops
RAY HARWOOD (Copernicus Textile Solutions Ltd, Desford, Leicestershire, UK)
- 14.50 **Mechanical extraction of fibre from linseed straw**
MATTHEW R L HORNE (Textile Engineering and Materials Research Group, De Montfort University, Leicester, UK)
- 15.10 **TEA**
- 15.30 **The use of oilseed rape (*Brassica napus*) straw for combustion purposes: a review of the advantages and disadvantages**
LETITIA CHICO-SANTAMARTA, ANDREA CLAIRE HUMPHRIES, DAVID RICHARD WHITE, KEITH CHANEY & RICHARD JOHN GODWIN (Harper Adams University College, Newport, UK)
- 16.00 **Market opportunities from the separation of biomass components**
CLAIRE SMITH (National Non Food Crops Centre, York, UK)
- 16.20 **High-sugar perennial ryegrass as a feed-stock for bioconversion to platform chemicals**
ANA WINTERS, MIKE MORRIS, DAVE LEEMANS, ADAM CHARLTON & JOE GALLAGHER (Aberystwyth University, Gogerddan, Wales, UK)
- 16.40 **DISCUSSION**
- 18.30-19.30 **POSTER SESSION**
- Short-fibre hemp for high value textiles**
MATTHEW R L HORNE & JANE HARWOOD (Textile Engineering and Materials Research Group, De Montfort University, Leicester, UK)
- Cultivating stinging nettle (*Urtica dioica*) for fibre production in the UK**
JANE HARWOOD, DENNIS WALDRON & MATTHEW R L HORNE (Textile Engineering and Materials Research Group, De Montfort University, Leicester, UK)
- Increased biomass productivity in saline land using plant growth promoting rhizobacteria**
MEENU SARAF (University School of Sciences, Gujarat University, Ahmedabad, India)
- The environmental impact of oilseed rape (*Brassica napus* L.) straw pellets - A cradle-to-grave analysis**
ANA ARONSSON & ANDREA HUMPHRIES (Harper Adams University College, Newport, Shropshire, UK)
- Biogas and methane yields from perennial ryegrass (*Lolium perenne*) in dependence on the fraction of obtusifolious sorrel (*Rumex obtusifolius*)**
KATYE GÖDEKE, FRANK HENGELHAUPT & HANS HOCHBERG (Thuringian State Institute of Agriculture (TLL), Jena, Germany)
- Production of marshmallow (*Althea officinalis*) roots in a hydroponic system as a source of ingredients for personal care products**
RICHARD WEIGHTMAN, HELEN GREELEAVES & TAMARA VERHOEVEN (ADAS Centre for Sustainable Crop Management, ADAS UK Ltd, Boxworth, Cambridge, UK)

