

Pasture plant adaptation to drought and high temperature stress

Satellite Meeting of the 22nd International Grasslands Congress

Sydney University, Saturday 14 September 2013

As the impacts of climate change impinge more and more on agriculture and the demand for increased production of animal protein grows, the search for pasture and forage plants with greater adaptation to drought and high temperature increases. This Workshop will bring together some of the leading researchers in the World in this field as well as providing a forum for young voices new to the discipline to present their findings.

Presentations will address a range of topics including:

- Studies of the summer dormancy trait and endophytes to assess their potential to improve the survival and forage production of tall fescue, cocksfoot (orchard grass) and *Elymus scaber* across a range of environments including the southern USA Great Plains, Mediterranean Basin, New Zealand and south-eastern Australia with contributions from Chuck West (Texas Tech Univ.), Florence Volaire (INRA/CNRS, France), Charlie Brummer, Malay Saha, Twain Butler (Noble Foundation, USA), Lulu Hey (Massey Univ. NZ) and Matthew Newell (NSW DPI, Aust.);
- Mechanisms of stress tolerance in two xerophytic and halophytic species with implications for improvement of forage legumes with contributions from, Suo-Min Wang and Ai-Ke Bao, Lanzhou Univ. China;
- Identification of traits of grasses for warmer and drier climates and insights into the role of leaf hydraulics for their relevance to biomass production and drought & heat tolerance with contributions from Brendan Cullen (Melbourne Univ.), Jimmy Hatier (Agresearch N.Z.) and Meisha Marika Holloway-Phillips (Aust. Nat. Univ.);
- Improving the drought tolerance of white clover through inter-specific hybridisation and studies of the role of the winter dormancy trait in enhancing drought tolerance in lucerne with contributions from Shirley Nicols (Agresearch N.Z.) and Keith Pembleton (TIAR, Aust.).

Venue:

University of Sydney, Camperdown Campus, The Education Building (A35, CoCo), Lecture Theatre 424.

For a map of the location and directions of how to get to the building go to these websites

http://sydney.edu.au/education_social_work/coco/contact/maps.shtml

http://sydney.edu.au/education_social_work/coco/images/maps/busMap.jpg

There is a link to a more detailed map of the venue in Google maps also at the first website.

Time:

9.00 am – 5.00 p.m.

Registration:

A\$100 includes morning tea/coffee and lunch.

Payment may be made by:

1. Electronic funds transfer (EFT) to the following Bank account:

SWIFT code: WPACAU2S

Bank: Westpac

Account Name: The Grassland Society of NSW Conference

BSB (Bank and branch numbers): 032-833

Account Number: 353 720

Attach your 'First Name', 'Second name' and the word "Workshop" for identification of the payment.

2. Cash on the day (please email mark.norton@nsw.dpi.nsw.gov.au before for a reservation);

3. Cheque drawn on an Australian Bank in Australian dollars to 'The Grassland Society of NSW'.



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