International workshop on rheological and mechanical properties of hydrogels

Hydrogels, a class of highly hydrated polymer materials, are all around us. Just think of shower gel, toothpaste and contact lenses. The ability to design and create and apply novel hydrogel structures for emerging applications such as tissue engineering depends on our understanding of their rheological and mechanical properties.

This workshop will provide specialist research reviews and in-depth tutorials on synthetic and biological hydrogels. The workshop will provide a venue to enhance interdisciplinary interactions and collaboration amongst research students, early career researchers, academics, industry and international visitors.

In addition, the most recent advances in characterising the properties of hydrogels will be presented by each of our invited speakers.

Speakers include:

- Dr. Ross Clark (CP Kelco, San Diego, USA)
- Prof. Paul Calvert (University of Massachusetts, Dartmouth, USA)
- Dr Philip G. Whitten (University of Wollongong)
- Prof. Hugh Brown (University of Wollongong)
- Dr Robert J. Miller (Genzyme Drug & Biomaterials, USA – to be confirmed)

The organisers, Associate Professor Marc in het Panhuis and Professor Geoff Spinks are looking forward to seeing you in Wollongong.

Sponsored by:

FACULTY OF SCIENCE

SOFT MATERIALS GROUP

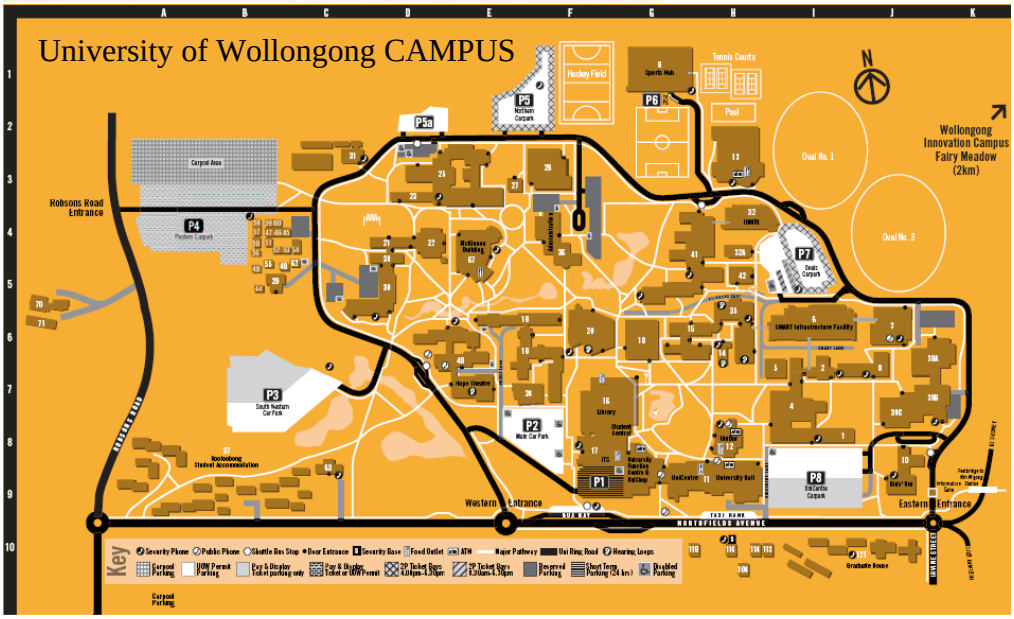
ARC Centre of Excellence for Electromaterials Science

INTELLIGENT POLYMER RESEARCH INSTITUTE

The Venue

The workshop will be held in the UniCentre Function Room (Building 11, see map below) on the main campus at the University of Wollongong. The University is located in one of the most beautiful settings in Australia, just an hour's drive south of Australia's largest city, Sydney. Our students and staff come from diverse backgrounds, many from overseas. The University aims to make the experience of visiting the campus a rewarding one, and your hosts extend a warm welcome to participants in our hydrogel workshop.

AERIAL VIEW OF FLAGSTAFF POINT AND WOLLONGONG BOAT HARBOUR



Accommodation

Please book directly

Beach Park Motor Inn [Ph: (02) 42261577]
Boat Harbour Motel [Ph: (02) 42289166]
Normandie Motel [Ph: (02) 4229 4833]
Novotel Northbeach Wollongong [Ph: (02) 42263555]

Airport Transfers (from Sydney Airport)

Please book directly

Leisure Coast Limousine Service [Ph: (02) 42617393]

University of Wollongong

International workshop on rheological and mechanical properties of hydrogels

University of Wollongong, UniCentre Function Rooms

28th July 2011

REGISTRATION CLOSES 7th July 2011

Registrant Details:

Name: _____

Affiliation: _____

Address: _____

Phone: _____(M) _____ (W)

Email: _____

Registration Cost:
Students: $50
Non-students: $150

Payment Details:

Visa ☐ Mastercard ☐

Card Holder Name: _____

Card Number ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Expiry Date: _____/_____ Amount to be charged to Credit Card: $_____

Cardholders Signature _____

Registrations are on a first in first served basis – we can not guarantee places. You will be informed within two days if you registration can not be accepted.

No refund will be made for cancellations if you cannot attend; your registration is transferable to another member of your organisation.

Once completed please e-mail this form to panhuis@uow.edu.au

Once payment has been made this document can be used as a Tax Invoice

ABN: 61 060 567 686

Draft Program:
International workshop on rheological and mechanical properties of hydrogels

Thursday 28th July 2011 (UniCentre Functions Rooms, University of Wollongong)

9:30am-9:45am	Welcome address Prof Will Price (UOW)
9:45am-10:30am	Hydrogel machines Prof. Paul Calvert (University of Massachusetts, USA)
10:30am-11:00am	***Coffee/Tea***
11.00am-11:45am	Understanding rheology Dr. Ross Clark (CP Kelco, USA)
11:45am-12:30pm	Theory of tough hydrogels Prof Hugh Brown (UOW)
12:30pm-1:30pm	***Sandwich/Pizza Lunch***
1.30pm-2.15pm	Requirements for gel artificial muscles Prof. Geoff Spinks (UOW)
2.15pm-3.00pm	Hydrogel composite materials A/Prof. Marc in het Panhuis (UOW)
3:00pm-3:30pm	***Coffee/Tea***
3.30pm-4.15pm	Highly elastic hydrogel microfibers Dr Philip G. Whitten (UOW)
4:15pm-5:00pm	Medical applications of PEG Hydrogels Dr Robert J. Miller (Genzyme, USA)
5.00pm-5.30pm	Panel Session: where to from here? Chair: Mr Phil Jackson (CP Kelco, Asia-Pacific)
5:30pm-7:00pm	***BBQ***