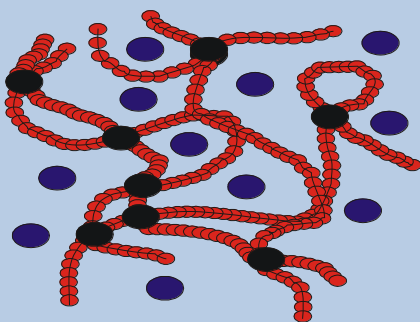




## One-Day Workshop

### Recent Advances in Synthetic and Biological Gels



21 September 2011

Istanbul Technical University  
Maslak Campus, Istanbul, Turkey

Gels are fascinating materials with a wide range of structural properties and diverse applications. This workshop takes place within the framework of collaboration between the research groups of Oğuz Okay (Istanbul Technical University) and Wilhelm Oppermann (Clausthal University of Technology) which is supported by TÜBİTAK and BMBF grants. The main goal of the workshop is the discussion of

the current stage of the collaborative project which is dedicated to the improvement of the mechanical performance of hydrogels by introducing reversible breakable crosslinks with finite lifetimes, instead of permanent crosslinks. However, this does not restrict the topics to be discussed during the workshop and the participation is not restricted to the members of the above mentioned research groups. The workshop will also offer a unique opportunity for the discussion of related research on recent advances in synthetic and biological gels, microgels, and their applications. It is also our aim that this workshop will provide a venue to enhance interdisciplinary interactions and collaboration amongst researchers. The organizers are looking forward to seeing you in İTÜ.

#### CHAIRMEN

Oguz OKAY, Istanbul Technical University (İTÜ)  
Wilhelm OPPERMANN, Clausthal University of Technology

#### LOCAL ORGANIZING COMMITTEE

Deniz C. TUNCABOYLU, İTÜ  
Nermin ORAKDOĞEN, İTÜ  
Suzan ABDURAHMANOĞLU, Marmara Univ.

#### VENUE

Istanbul Technical University (İTÜ), Maslak Campus, Faculty of Science and Letters

#### LANGUAGE

The workshop language will be English

#### Conference website

[www.polymergellab.itu.edu.tr](http://www.polymergellab.itu.edu.tr)

#### SPEAKERS

##### **Gel characterization by confocal microscopy.**

Arne LANGHOFF, Clausthal University of Technology

##### **Chitosan, alginate, gelatine hydrogels:**

##### **Preparation characterization and application in tissue engineering.**

Bahattin M. BAYSAL, Boğaziçi University, TÜBA

##### **Structure, fluctuations and function in microgels.**

Burak ERMAN, Koc University.

##### **Self-healing hydrogels via hydrophobic associations.**

Deniz C. TUNCABOYLU, İTÜ

##### **From cellulose graft copolymers to stimuli-responsive polymers and their applications.**

Gülten GÜRDAG, Istanbul University

##### **Controlling polymer surface roughness at the nano- and micrometer range to obtain superhydrophobic surfaces.**

H. Yıldırım ERBİL, Gebze Institute of Technology

##### **Formation, elasticity and molecular characteristics of responsive hydrogels.**

Nermin ORAKDOĞEN, İTÜ

##### **Hydrogel templated metal nanoparticles: preparation and their use in catalysis for various reactions.**

Nurettin ŞAHİNER, Onsekiz Mart University

**DNA versus silk fibroin hydrogels.**

*Oğuz OKAY, İTÜ*

**Recognition of conformation in imprinted thermosensitive hydrogels.**

*Orhan GÜNEY, İTÜ*

**Gels from red seaweeds.**

*Önder PEKCAN, Kadir Has University.*

**Functionalizable hydrogels via dendron-polymer conjugates.**

*Rana SANYAL, Bogazici University*

**Homogeneous hydrogels made by large size, flexible dimethacrylate crosslinkers.**

*Suzan ABDURRAHMANOĞLU, Marmara University*

**Removal of heavy metal ions from aqueous solutions by novel pH-sensitive hydrogels.**

*Ufuk YILDIZ, Kocaeli University.*

**Hydrogels made by thiol-ene-polymerization.**

*Wilhelm OPPERMANN, Clausthal University of Technology*

**Gels via photochemical and click chemistry methods.**

*Yusuf YAĞCI, İTÜ*

**SUBMISSIONS**

Only poster presentations will be accepted, with a maximum of one poster per presenting author.

**Instructions for submitting poster:** Complete the attached form. The title should be brief but descriptive. The abstract should be a maximum of 250 words. It should be concise and provide a clear outline of what will be included in the poster. Once completed please e-mail the application form and the attachment to [ceylant@itu.edu.tr](mailto:ceylant@itu.edu.tr)

**REGISTRATION**

There is no registration fee. Please note that the number of participants is limited. The application form should be completed and returned before 1 September 2011:

*Deniz C. TUNCABOYLU*

Phone: 0212-2853279

Fax: 0212-2856386

e-mail: [ceylant@itu.edu.tr](mailto:ceylant@itu.edu.tr)

**DATES & DEADLINES**

REGISTRATION AND ABSTRACT SUBMISSION  
CLOSES 1. September 2011

Contact:

*Deniz C. TUNCABOYLU*

Phone: 0212-2853279

Fax: 0212-2856386

e-mail: [ceylant@itu.edu.tr](mailto:ceylant@itu.edu.tr)

**Workshop  
Recent Advances in Synthetic and  
Biological Gels**

**21 September 2011, Istanbul, Turkey**



**APPLICATION FORM**

Registrant Details:

**Name:**

**Affiliation:**

**Address:**

**E-mail:**

**I will present a poster:** YES ☐ NO ☐

**Title:**

**Abstract:** max. 250 words, should be attached as Word document

**I will attend the workshop  
dinner (60 TL):** YES ☐ NO ☐

Once completed please e-mail this form and the attachment to [ceylant@itu.edu.tr](mailto:ceylant@itu.edu.tr)