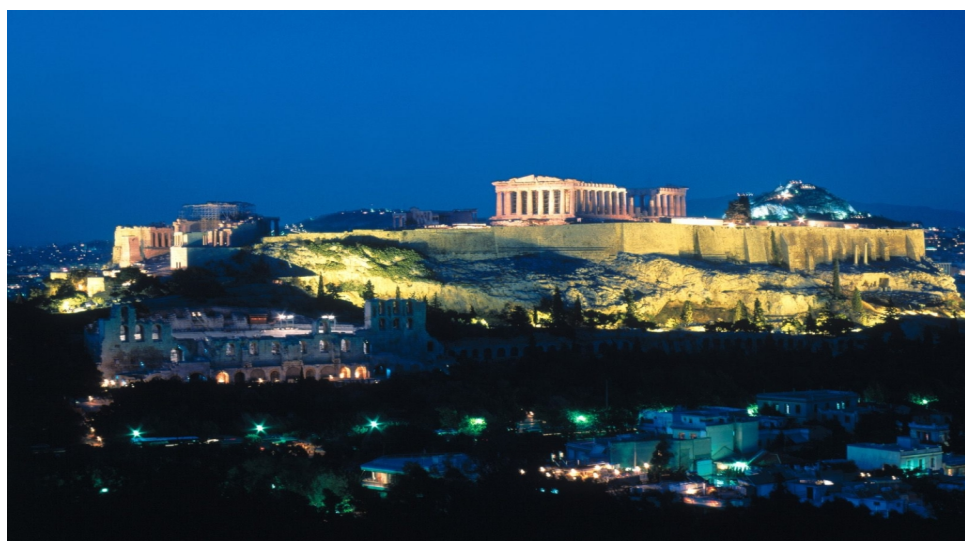




HSR 2011



HELLENIC SOCIETY OF RHEOLOGY



Athens, Greece

June 28-29, 2011



Programme

HSR 2011 Program Summary

Tuesday, June 28, 2011

| | |
|--------------------|--|
| 08:30-09:00 | Registration |
| 09:00-09:05 | Welcome remarks |
| 09:05-09:50 | Plenary presentation by Prof. D. Vlassopoulos |
| 09:50-10:30 | 2 presentations |
| 10:30-11:00 | Coffee break |
| 11:00-12:20 | 4 presentations |
| 13:00-15:00 | free for lunch |
| 15:00-16:20 | 4 presentations |
| 16:20-16:40 | Coffee break |
| 16:40-18:00 | 2 presentations + HSR Business Meeting |
| 18:00-20:30 | Break |
| 20:00-23:00 | Banquet |

Wednesday, June 29, 2011

| | |
|--------------------|--|
| 08:45-09:30 | Plenary presentation by Prof. Y. Dimakopoulos |
| 09:30-10:30 | 3 presentations |
| 10:30-11:00 | Coffee break |
| 11:00-13:00 | 5 presentations |
| 13:00-15:00 | free for lunch |
| 15:00-16:40 | 5 presentations |
| 16:40-17:00 | Coffee break |
| 17:00-18:00 | 3 presentations |
| 18:00 | End of Conference |

Total:

1 Plenary presentation by Prof. D. Vlassopoulos (45 min)
1 Plenary presentation by Prof. Y. Dimakopoulos (45 min)
28 oral presentations (20 minutes each)
Posters

Tuesday, June 28, 2011

08:30 Registration

09:00 Welcome Remarks

Morning session I: Rheology and Rheometry

Chair: G.C. Georgiou

Plenary Talk

09:05-9:50

D. Vlassopoulos

Structure and viscoelasticity of fluorocarbons at the air/water interface

09:50-10:10

A.D. Gotsis, E. Fragkoulis

Bubble growth in a polymeric fluid undergoing a cross-linking reaction

10:10-10:30

H. Anvari Ardakani, S.G. Hatzikiriakos, Th. Zisis, **E. Mitsoulis**

Rheology and processing of toothpaste

10:30-11:00

Coffee break

Morning session II: Rheology and Rheometry

Chair: Ch. Tsenoglou

11:00-11:20

S. Coppola, D. Visani, F. Bacchelli

The viscoelastic catenary: fall and rise of polymer filaments

11:20-11:40

H. Lentzakis, D. Vlassopoulos

Extensional rheology of model branched polymers

11:40-12:00

E. Mitsoulis, S.G. Hatzikiriakos

The effect of slip in the flow of a HDPE melt: experiments and simulations

12:00-12:20

D. Truzzolillo, **D. Vlassopoulos**, M. Gauthier

Star-linear polymer mixtures: a subtle balance between depletion and osmotic shrinkage

13:00-15:00

Free for lunch

Afternoon session I: Structure and Dynamics of Polymers

Chair: A. Gotsis

15:00-15:20

C. Grigoriadis, **G. Floudas**, N. Haase, K. Muellen

Self-assembly, dynamics and kinetics of structure formation in discotic liquid crystals of nano-graphenes

15:20-15:40

Ch. Tsenoglou, P. Kiliaris, C.D. Papaspyrides

Assessing the variable molecular size and architecture of poly(ethylene terephthalate) under reactive modification by melt and dilute solution rheology

15:40-16:00

A. Anastasiou, C. Baig, V.G. Mavrantzas

Non-equilibrium molecular dynamics simulation of the stretching behavior of adhesive polymers

16:00-16:20 **E. Voyiatzis**, D.N. Theodorou
Viscosity computation of a polystyrene-fullerene nanocomposite system through hierarchical modeling

16:20-16:40 **Coffee break**

Afternoon session II: Colloids and Suspensions

Chair: D. Vlassopoulos

16:40-17:00 A.S. Poulos, J. Stellbrink, **G. Petekidis**
Nonlinear viscoelasticity and yielding of soft colloidal glasses probed by large amplitude oscillatory shear

17:00-17:20 N. Koumakis, **G. Petekidis**, J. Brady
Yielding of colloidal glasses and gels

17:20-18:00 **HSR Business Meeting**

18:00 *End*

20:00-23:00 *Banquet*

Wednesday, June 29, 2011

Morning Session I: Numerical Simulations

Chair: J. Tsamopoulos

Plenary Talk

08:45-9:30

Y. Dimakopoulos

Hemodynamics of the aortic valve: numerical simulation and open issues

09:30-09:50

A.N. Beris, G. Samanta, K.D. Housiadas, A.J. Young

Analysis of single and joint velocity PDFs and its implication to higher order statistics in polymer-modified channel flow turbulence

09:50-10:10

K. Tsiglifis, K. Efthimiou, **N. Pelekasis**

Boundary element simulations of insonated contrast agents – effect of the viscoelastic properties of the coating

10:10-10:30

E. Mitsoulis, N.A. Malamataris

The free boundary condition in viscoelastic flow simulations

10:30-11:00

Coffee break

Morning Session II: Numerical Simulations

Chair: E. Mitsoulis

11:00-11:20

D.A. Johnson, U.P. Naik, **A.N. Beris**

Wall elasticity effects to the outlet flow conditions in blood flow simulations through asymmetric arterial bifurcations

11:20-11:40

M. Pavlidis, Y. Dimakopoulos, J. Tsamopoulos

Topography-induced thickness variation of viscoelastic films

11:40-12:00

S. Poyiadji, G.C. Georgiou

Perturbation solutions of weakly compressible, Newtonian Poiseuille flows with slip along the walls

12:00-12:20

A.N. Alexandrou, G.C. Florides, G.C. Georgiou

Squeezing of a finite amount of viscoplastic material exhibiting thixotropy

12:20-12:40

J. Papaioannou, A. Yiannousakis, Y. Dimakopoulos, J. Tsamopoulos

Deformation of a bubble in a viscoelastic liquid subjected to axisymmetric extensional flow

13:00-15:00

Free for lunch

Afternoon Session I: Molecular Modeling

Chair: V. Mavrantzas

15:00-15:20

A.N. Rissanou, E. Manias, **I.A. Bitsanis**

Collapse transitions in alternating blocky copolymers: a Monte Carlo study

15:20-15:40

V. Harmandaris, C. Baig

Structure and dynamics of non-equilibrium polymer melts through hierarchical multi-scale dynamic simulations

- 15:40-16:00 **S.D. Anogiannakis**, C. Tzoumanekas, B. Rousseau, D.N. Theodorou
Primitive path dynamics and contour length fluctuations in entangled polymer melts: a molecular simulation study
- 16:00-16:20 **A. Morozinis**, C. Tzoumanekas, D.N. Theodorou
Molecular modeling of cavitation in polymer melts and rubbers
- 16:20-16:40 **A.N. Rissanou**, V.A. Harmandaris, D. Vlassopoulos, C.N. Likos
Effective interaction between diblock-arm star copolymers: a molecular dynamics study
- 16:40-17:00 **Coffee break**

Afternoon Session II: Molecular Modeling

Chair: G. Petekidis

- 17:00-17:20 M. Yiannourakou, I.G. Economou, **I.A. Bitsanis**
Micro-structure and particle dynamics in suspensions of size-dispersed colloids
- 17:20-17:40 **P.S. Stephanou**, G. Tsolou, N. Stratikis, C. Baig, V.G. Mavrantzas
Rouse theory for polymer rings and comparison with atomistic molecular dynamics simulations
- 17:40-18:00 **P.S. Stephanou**, C. Baig, G. Tsolou, M. Kröger, V.G. Mavrantzas
Quantifying chain reptation in entangled polymer melts: topological and dynamical mapping of atomistic simulation results onto the tube model
- 18:00 *End*

Poster Session: