

WORKSHOP : « Properties of Polymers in Thin Films »

in connection with the Mid-Term-Review of the
RTN « POLYFILM »

<http://www.polyfilm.eu.com/>

13,14 September 2006

LOCATION: Institut de Chimie des Surfaces et Interfaces, CNRS
15, rue Jean Starcky
F-68057 MULHOUSE, FRANCE

PROGRAMME

EACH SPEAKER has 30 min for the presentation and 10 min for DISCUSSION

Sept. 13, 2006: Morning : 8H30 – 12H30 :

Dynamics of polymer chains in thin films:

8H30 – 9H10 : John Dutcher : Complex Flow During Hole Growth in Freely-Standing Polystyrene Films

9H10 – 9H50 : Christian Fretigny (Paris, France): Reduced viscosity of ultra-thin polymer films

9H50 – 10H30 : Elie Raphaël (Paris, France): Dewetting of polymer thin films

10H30 – 11H00 : Coffee break

11H00 – 11H40 : Arnold Yang (Hsinchu/Taiwan): Molecular recoiling forces operative in dewetting of polymer ultrathin films

11H40 – 12H20 : Johann de Silva (Sheffield, UK): Thickness effects on the dewetting of a model polymer bilayer

12H30 – 14H30: LUNCH

Sept. 13, 2006: Afternoon : 14H30 – 18H30 :

Processes of ageing (storing) of polymer thin films below T_g

14H30 – 15H10 : John Torkelson (Evanston, USA) : Polymers Confined in Thin Films and Nanocomposites: Demonstration of the Near Dichotomy in T_g and Aging Responses and Discussion of Its Potential Origin

15H10 – 15H50 : Sindee Simon (Lubbock/USA - Paris/F): Calorimetric Glass Transition Temperature and Absolute Heat Capacity of Polystyrene Ultrathin Films

15H50 – 16H30 : Hendrik Meyer (Starsbourg, France) : Dynamics and Entanglements in Thin and Two-Dimensional Polymer Films

16H30 – 17H00 : Coffee break

17H00 – 17H40 : Greg McKenna (Lubbock/USA - Paris/F): Some comments on thin films of polymers and ageing

17H40 – 18H20 : Yahya Rharbi (Grenoble, France): Nanomechanics and Glass Transition of Polymers Confined Within Spherical Nanometric Domains

19H20 : Bus departs for “DINNER”

Sept. 14, 2006: Morning : 8H30 – 12H30 :

Influences of confinement on crystallization of polymers in thin films

8H30 – 9H10 : Jamie Hobbs (Sheffield, UK): Real-time observation of polymer nucleation and crystallization in thin films.

9H10 – 9H50 : Ralf Köhler (Golm, Germany): Nucleation, growth and equilibrium in alkane sub-monolayers

9H50 – 10H30 : S. Napolitano (Leuven, Belgium) : Slowing-down of the crystallization kinetics in ultrathin polymer films, a size or an interface effect?

10H30 – 11H00 : Coffee break

11H00 – 11H40 : Dimitri Ivanov (Mulhouse, France): Mesophase formation versus crystallization in confined geometry: case of main-chain liquid crystalline polymer

11H40 – 12H30 : Günter Reiter (Mulhouse, France): Concluding remarks and discussion

12H30 – 14H30: LUNCH

followed by the mid-term review of the RTN “POLYFILM

Preliminary Agenda for the POLYFILM Mid-Term Review
September 14-15 2006

September 14

14:00 Welcome and coffee

14:30 Introduction: Erno Vandeweert (Project Officer, European Commission)

14:45 Midterm review: Mark Geoghegan This will include the following

- i) Scientific overview (including objectives and highlights)
- ii) Networking (including inter-network activities)
- iii) Training and ToK
- iv) Summary of recruitment and of use of budget to date and projection until the end of the contract
- v) Other issues including contract revision

15:45 Short coffee break

16:00 Presentations by participants (this will be done thematically by node)

i) Conformation

16:00 Martin Rosenthal

16:15 Wilfried Béziel

ii) Diffusion and dynamics

16:15 Simone Napolitano

16:30 Ludovic Marquant

16:45 Simona Capponi

iii) Morphology and structure

17:00 Sabine Ludwigs and Mihaela Nedelcu

17:20 Arnaud Chiche and Adriana Mihut

17:40 Viorela-Roxana Ostaci

18:20 Close of session

19:20 Bus to dinner

September 15

08:30 Coffee will be available

08:45 Presentations by participants will continue

iv) Glass transition

08:45 Konstantina Kostourou

09:00 Simone Peters

v) Switchability

09:15 Michael Tomlinson and Rita La Spina

09:45 Meeting between the ESRs/ERs and Erno
in parallel: steering committee meeting

10:45 Coffee

11:00 Meeting between the SiCs and Erno

12:00 Open discussion

13:00 Lunch

Participants from the RTN POLYFILM <http://www.polyfilm.eu.com/>

University of Sheffield

Mark Geoghegan SiC¹
Rita La Spina ESR
Michael Tomlinson ER

Universität des Saarlandes

Karin Jacobs SiC
Ludovic Marquant ESR

GDR POLYFUM

1. ICSI/Mulhouse

Günter Reiter
Dimitri Ivanov SiC
Martin Rosenthal ESR

2. ICS/Strasbourg

Jörg Baschnagel SiC
Hendrik Meyer SiC
Simone Peter ESR

3. UPS//Orsay

Liliane Léger SiC
Bertrand Deloche SiC
Simona Capponi ESR

4. Lyon/Lorient

Yves Grohens SiC
Eric Drockenmuller SiC
Viorela-Roxana Ostaci ESR

University of Cambridge

Ullrich Steiner SiC
Mihaela Nedelcu ESR
Sabine Ludwigs ER

Katholieke Universiteit Leuven

Michael Wübbenhorst SiC
Simone Napolitano ESR

Université Libre de Bruxelles

Michele Sferrazza SiC
Wilfried Béziel ESR

Universität Bayreuth

Georg Krausch SiC
Adriana Mihut ESR
Arnaud Chiche ER

Max Planck Institut, Göttingen

Ralf Seemann SiC
Konstantina Kostourou ESR

¹ SiC : Scientist in Charge, ESR : Early Stage Researcher, ER : Experienced Researcher