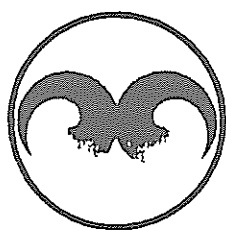


# POLYMER PROCESSING SOCIETY

## EUROPEAN REGIONAL MEETING

S e p t e m b e r 2 1 - 2 4 , 1 9 9 2  
P R A G U E , C Z E C H O S L O V A K I A



PROGRAM  
ABSTRACTS  
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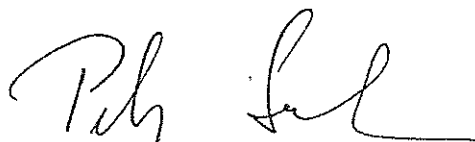
THE POLYMER PROCESSING SOCIETY  
EUROPEAN REGIONAL MEETING

PRAGUE, CZECHOSLOVAKIA  
SEPTEMBER 21-24, 1992

The large number of contributed papers from all over the world, along with the coordinated efforts of the Symposia chairmen, have resulted in a high quality technical program for this Regional Meeting of the Polymer Processing Society. Over 80 presentations are included in the Technical program. Extended abstracts of practically all of these presentations are collected in this volume.

The abstracts of the oral presentations are arranged according to the eight symposium topics. In addition, abstracts of the poster presentations are also included toward the end of the volume along with an author index.

I would like to take this opportunity to thank all authors and contributors for making this PPS Meeting and successful forum for exchange of technical information and results related to the processing of polymeric systems.

A handwritten signature in dark ink, appearing to read 'P. Saha', with a long horizontal stroke extending to the right.

Petr Saha  
General Secretary

# PROGRAM

## CONFERENCE COMMITTEE

Chairman	J.Šimoník, Rubber and Plastics Technology Research Institute, Zlín
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Editor-in-Chief	J.L.White, Akron, U.S.A.
Editor	H.G.Fritz, Stuttgart, Germany

## THE POLYMER PROCESSING SOCIETY

The goal of the PPS as embodied in its constitution is to foster scientific understanding and technical innovation in polymer processing by providing a discussion forum for the worldwide community of engineers and scientists in this field. The thematic range of the PPS encompasses all formulation, conversion and shaping operations applied to polymeric system in the transformation from their monomeric forms to commercial products. Membership at the PPS is open to all research workers in the field, and to all individuals who feel activities of the society advance their professional development.

## REGISTRATION PLACE

The registration desk will be open during the meeting at the Convention and Culture Centre at the following hours:

Monday	21st September	12.00-19.00
Tuesday	22nd September	8.00-19.00
Wednesday	23rd September	8.30-18.30
Thursday	24th September	8.30-11.00

## GENERAL SCHEDULE

Monday, September 21	Registration Welcoming Reception	12.00-19.00 19.00-22.00
Tuesday, September 22	Registration Opening Ceremony Plenary Lecture Morning Session Exhibition Afternoon Session Poster & Reception	8.00-19.00 9.30- 9.40 9.40-11.00 11.00-13.00 13.00-19.00 15.00-17.00 17.00-19.00
Wednesday, September 23	Registration Morning Session Exhibition Afternoon Session Banquet	8.30-18.30 9.00-13.00 9.00-16.00 15.00-17.00 19.00-22.00
Thursday, September 24	Registration Morning Session Exhibition	8.30-11.00 9.00-13.00 9.00-13.00

## TECHNICAL PROGRAM

PLENARY LECTURER: Zehev TADMOR  
Technion Israel Institute of Technology  
Haifa, Israel

TITLE: Devolatilization Mechanisms of Polymeric Melts

### SYMPOSIA:

1. Reactive Processing
2. Mathematical Modelling
3. Extrusion
4. Recycling
5. Composite Materials
6. Molding Technologies
7. Blends
8. Student Forum

### ORGANIZERS

M.Lambla, C.Tzoganakis  
M.Vincent, J.Vlachopoulos  
B.Vergnes, G.Mennig  
C.Klason, B.Latto  
T.Kitano, L.Nicolais  
H.G.Fritz, J.L.White  
I.Partridge, E.Martuscelli  
P.Sáha, G.Krehbiel

### P R E S E N T A T I O N

Forty minutes will be allowed for the key-note lecturers, and twenty minutes for each oral presentation including time for discussion. Each session room will be equipped with a both slide and an overhead projector. Slides should be in frames of 50x50mm. There will be three parallel sessions running in the morning and afternoon each day of the conference.

A poster session is scheduled on Tuesday, September 22 at 17.00 hours. All posters should be put up during the morning of September 22 and shall be removed after the poster session or the next day. Poster boards are 60cm wide and 120cm high. Poster boards will be identified by the paper number. The authors are expected to prepare their posters and to fix them to the poster boards at the scheduled time by themselves. The basic materials (papers, tapes, scissors, pins) will be available.

## SOCIAL PROGRAM

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Monday, 21st September	19.00-22.00 Welcoming Reception	No charge
Tuesday, 22nd September	17.00-19.00 Poster & Reception	No charge
Wednesday, 23rd September	19.00-22.00 Banquet	\$ 50 US

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During the conference, various social activities will be arranged for the participants and accompanying people.  
The information desk for the social activities will be near the registration desk and will be open during the following hours:

Monday	from	12.00-19.00
Tuesday		9.00-15.00
Wednesday		9.00-15.00

Some tours are will require a minimum of 10 people.

## THE BASIC SOCIAL PROGRAM

### A

#### PRAGUE - The Heart of Europe

- a sightseeing tour by a special little train from Staroměstské náměstí with a tour guide
- a visit to the baroque castle in Troja, lunch in the Troja castle wine restaurant, a visit to the Gallery of Prague, the Picture Gallery and the Convent of St. Agnes of Bohemia
- price \$ 50 US

### B

#### EVENING CONCERTS

- Jazz - Jazz Club Parnas Classical Music - Slovan House, Valdstejn Garden, Museum of B. Smetana
- Pop Music - concert of a Czech group Organ Music - concerts of old masters in the St. Jacob's or St. Nicholas's Cathedrals. The concerts will be held throughout the whole congress.
- price \$ 15 US

### C

#### A MEETING WITH THE MORAVIAN FOLKLORE

- tasting of Moravian wines in wine vaults, a visit to the Perštýn castle
- lunch in a restaurant with folk songs
- a visit to the Bohemia glass-works in Světlá n./Sázavou art of the Czech glass-workers
- price \$ 60 US

## D

### THE BEST KNOWN CZECH SPAS

- a visit to the world-famous spa Karlovy Vary, founded by Charles IV. in the 14th century and the tasting of mineral springs
- lunch in the Grandhotel Pupp
- Karlovy Vary's porcelain - a visit to the plants "Stará" and "Nová Role"
- a visit to the spas Františkovy Lázně and Mariánské Lázně founded in the 18th century, with a tour guide
- price \$ 60 US

## E

### THE CZECH CASTLES - Karlštejn

- lunch in the restaurant Myslivna, a visit to the Karlštejn castle
- the show of historical fencing in typical costumes in the courtyard, guests will be driven in veteran cars from the Prague Veteran Car Club
- price \$ 60 US

## F

### THE CASTLE - Konopiště

- a visit to the Konopiště castle (previous castle of the emperor Ferdinand de Este)
- lunch in the picturesque restaurant Koliba
- price \$ 50 US

## G

### THE OLD PRAGUE JEWISH TOWN

- lunch in the wine restaurant "U Golema" famous for its Jewish cuisine
- a visit to the Old Jewish town - the Synagogue, the Jewish cemetery, an exposition of rare Hebrew manuscripts
- the Variety show: ALFRED STORY about the old Prague with Jewish songs and stories in the theater "U Italů" located in the Malá Strana district, held in English
- price \$ 50 US

# GENERAL SCHEDULE

MONDAY, SEPTEMBER 21      Registration      12.00-19.00      Welcoming Reception - Panorama Restaurant  
19.00-22.00

TUESDAY, SEPTEMBER 22      Registration 8.00-19.00      Exhibition 13.00-19.00

9.30	9.40	11.00	13.00	15.00	17.00	19.00	
Opening Ceremony Small Hall	Plenary Lecture Small Hall	Composite Materials-Small Hall		Lunch	Mathematical Modelling-Chamber Hall		Poster Reception Chamber Hall
		Reactive Processing-Chamber Hall			Student Forum - Room B1		
		Recycling - Room A4			Recycling-Room A4	Molding Technologies-Room A4	

WEDNESDAY, SEPTEMBER 23      Registration 8.30-18.30      Exhibition 9.00-16.00

9.00	11.00	13.00	15.00	17.00	19.00	22.00
Mathematical Modelling-Chamber Hall		Lunch		Composite Materials - Room B1		
Reactive Processing - Room B1				Extrusion - Room A4		
Molding Technologies-Room A4				Blends - Room A3		
Blends - Room A3						
Banquet Panorama Restaurant						

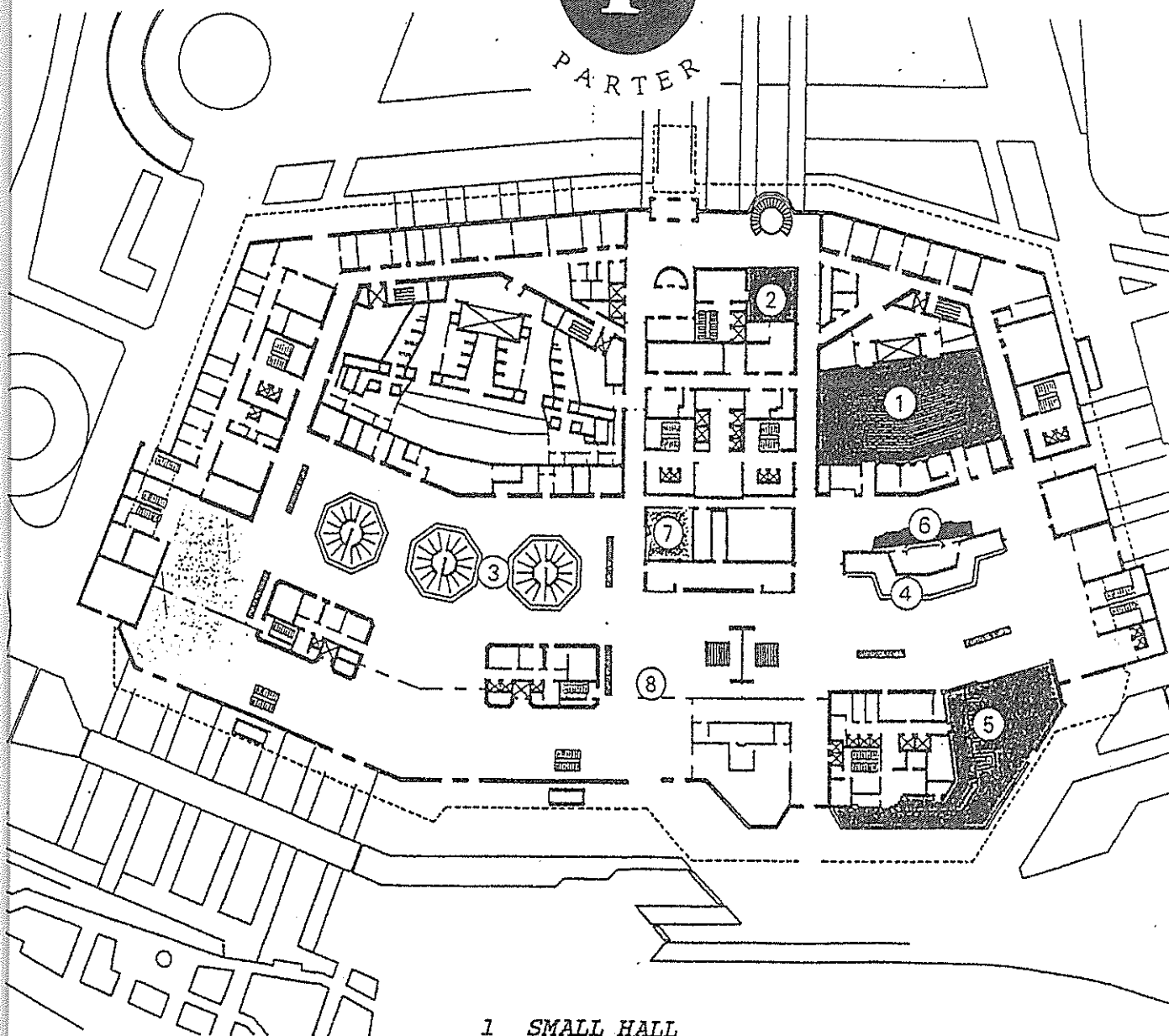
THURSDAY, SEPTEMBER 24      Registration      8.30-11.00      Exhibition      9.00-13.00

9.00      13.00

Composite Materials - Room B1
Extrusion - Room A4
Student Forum - Room A3

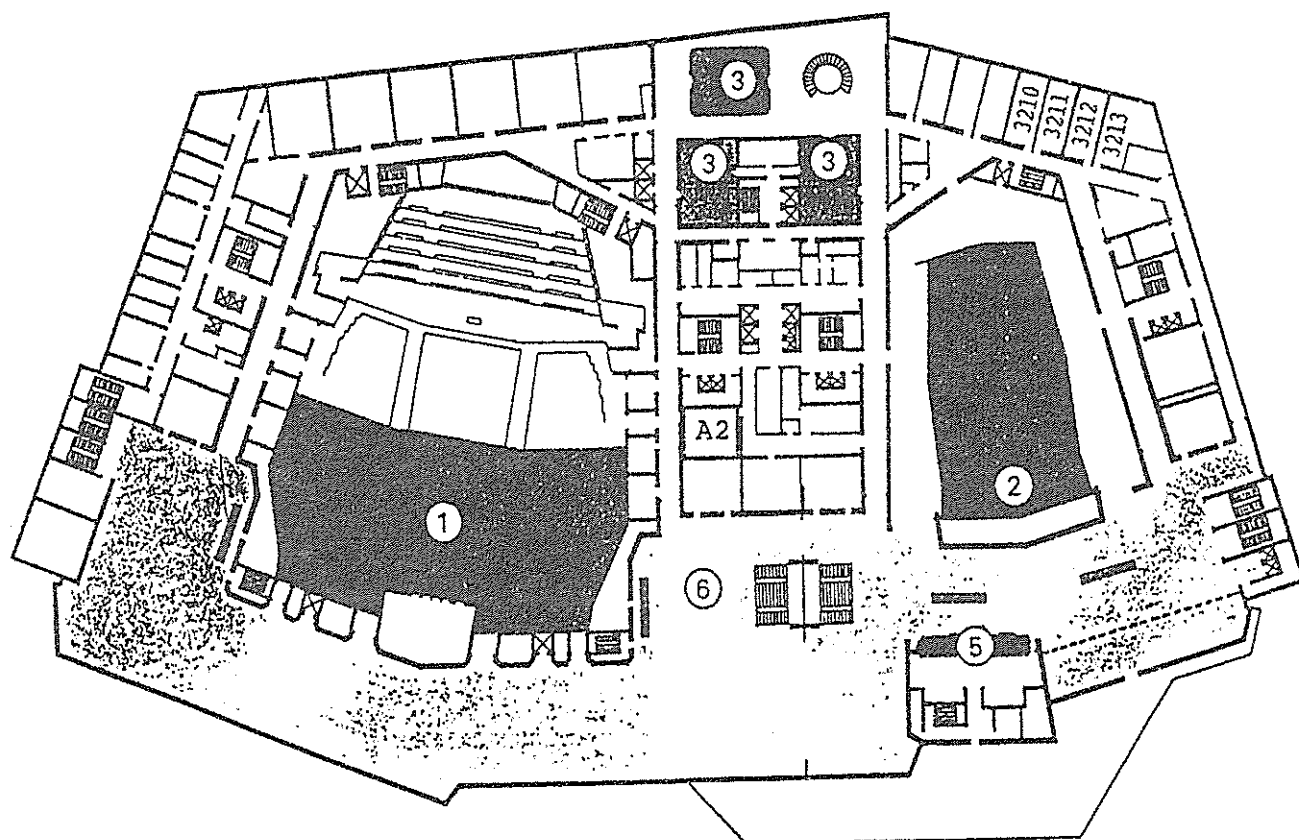
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PŘÍZEMÍ  
P  
PARTER



- 1 SMALL HALL
- 2 Function Room
- 3 Garderobe - Congress Hall
- 4 Garderobe - Concert Hall
- 5 Snack Bar
- 6 Buffet
- 7 Post Office
- 8 Foyer

PATRO  
2  
FLOOR



1 Congress Hall

2 Concert Hall

3 Casino

A2 FUNCTION HALL

5 Buffet

6 Foyer

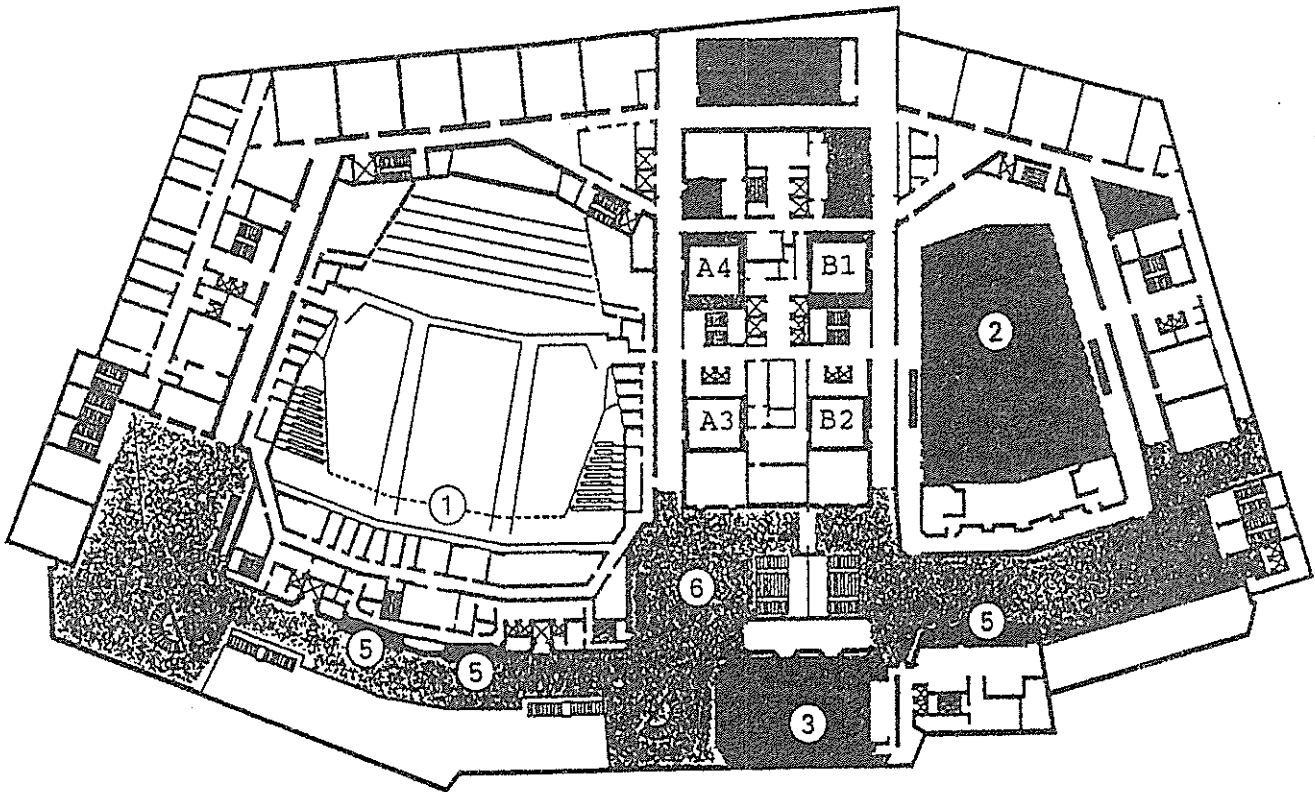
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3213 SECRETARIAT

PATRO  
3  
FLOOR



1 Congress Hall

2 Concert Hall

3 CHAMBER HALL

A3, A4 FUNCTION ROOMS

B1, B2 FUNCTION ROOMS

5 Buffet

6 Foyer

TUESDAY, SEPTEMBER 22

9.30	OPENING		
10.40	Plenary Lecture Professor Avraam I. Isayev		
10.40	B R E A K		
11.00			
	Room A3	Chamber Hall	Room A4
	SESSION 5 L.Nicolais T.Kitano	SESSION 1 M.Lambla C.Tzoganakis	SESSION 4 C.Klason B.Latto
11.00 11.40	05-KN1 Viscoelastic Behaviour of p.120 Crystallizable Thermoplastic Matrix Composites During Processing J.M.Kenny, University of Naples, Italy	01-KN1 Mixing Phenomena in Extruders p.1 D.Bigio, University of Maryland, USA	04-KN1 General Aspects and Future p.88 Trends of Plastics Recovery E.Wogroly, TGM-Kunststofftech., Wien, Austria
11.40 12.00	05-01 Crystallization Kinetics of p.128 New TPI L.Torre, University of Naples, Italy	01-01 Free Radical Grafting of p.4 Activated Monomers onto Polypropylene in the Extruder J.J.Flat, ATOCHEM, Serquigny, France	04-01 Processing Effects on PET from p.100 Bottle Scraps G.Giannotta, Instituto Guido Donegani S.p.A., Novara, Italy
12.00 12.20	05-02 Effects of Resin - Rich p.130 Interply Zones on Fatigue of Unidirectional and Cross-Ply Laminates I.K.Partridge, Cranfield Institute of Technology, U.K.	01-02 Some Industrial Application of p.6 Products Produced by Reactive Processing A.M.Adur, BP Chemicals, Hackettstown, USA	04-02 Recycling of Polyethylene p.102 Terephthalate (PET) W.DE Winter, Agfa-Gevaert N.V., Belgium
12.20 12.40	05-03 Mechanics of Cycling p.132 Destruction of Elastomeric Composites V.I.Dyrda, Dniepropetrovsk, Ukraine	01-03 Modelling of Reactive Extrusion p.7 in a Model Twin Screw Extruder T.Fukuoka, University of Akron, USA	04-03 The Effects of Multiple p.104 Extrusions on the Recyclability of Polyolefins A.T.P.Zahavich, McMaster University, Canada
12.40 13.00	05-04 Energy Absorption in Impacted p.134 Composite Sandwich Structures P.E.Reed, University of London, U.K.	01-05 Continuous Crosslinking of EVA/ p.8 EMA Copolymer Blends by On-Line Microwave Heating P.Cassagnau, CNRS Vernaison, France	04-04 Recycling of PVC Hose : p.105 Separation of PVC Particles and Polyester Fibre B.Latto, MIXIS Corporation, Dundas, Canada
13.00 15.00	L U N C H		

B2

	Chamber Hall	Room B1	Room A4
	SESSION 2 M.Vincent J.Vlachopoulos	SESSION 8 P.Sáha G.Krehbiel	SESSION 4 C.Klason B.Latto
15.00 15.20	02-KN1 Simulation of Chemically - p.26 Reacting Processing Flows R.Keunings, Université Catholique de Louvain, Belgium	08-01 Radiation Modification of p.204 Polyethylene O.Krtilová, Institute of Chemical Technology, Prague, Czechoslovakia	04-05 Utilization of Recycled p.106 Polyolefins as Asphalt Binder Modifiers E.Wogorolly, TGM-Kunststofftech., Wien, Austria
15.20 15.40		08-03 Methods of Volatiles p.206 Determination in Polymers J.Pokorný, Institute of Chemical Technology, Prague, Czechoslovakia	04-06 Recycling of Mixed Plastics p.116 Waste Containing Paper C.Klason, Chalmers University of Technology, Sweden
15.40 16.00	02-01 Modelling of Blow Molding p.34 K.Kouba, McMaster University, Canada	08-04 Dynamic Vulcanizates of p.208 Polypropylene/NBR Blends M.Dudík, STU Bratislava, Czechoslovakia	SESSION 6 H.G.Fritz J.L.White
16.00 16.20	02-02 On the Modelling of Post Filling p.36 Stages in the Injection Molding Process of Crystalline Polymers G.Titomanlio, Università di Salerno, Italy	08-05 Some Aspects of Polyolefine p.210 Stabilization - Reactive Modification D.Q.Tuan, STU Bratislava, Czechoslovakia	06-KN1 New Ways in Process Control p.162 H.Potente, University of Paderborn, Germany
16.20 16.40	02-03 A Configurable Mathematical p.37 Model for the Analysis of Temperature Transients During Extrusion K.Panreck, University of Paderborn, Germany	08-06 High Loaded Composite Materials p.211 Z.Brunovská, STU Bratislava, Czechoslovakia	
16.40 17.00	02-04 Residence Time Distributions p.39 in Spiral Mandrel Dies J.Perdikoulis, Brampton Engineering, Canada		06-01 Residual Stress and Birefringence p.170 in Injection Molded Optical Disk A.I.Isayev, University of Akron, USA

WEDNESDAY, SEPTEMBER 23

	Chamber Hall	Room B1	
9.00 9.20	02-05 Numerical Analysis of Polymer p.41 Rotational Extrusion <u>A.Karaqiannis</u> , Monsanto Chemical Co., USA	01-KN2 Chemical Modification in Extruder <u>A.Michel</u> , CNRS Lyon, France	06 p.
9.20 9.40	02-06 Helical Flow in Annular Spaces p.43 with a Rotating Inner Wall <u>P.Filip</u> , ČSAV, Institute of Hydrodynamics, Prague, Czechoslovakia		06 p.
9.40 10.00	02-07 Birefringence Modelling of p.45 HDPE Melts through Dies <u>E.Mitsoulis</u> , University of Ottawa, Canada	01-06 Solubility Aspects of Peroxides p.10 in the Modification of Polypropylene with Maleic Anhydride <u>A.H.Hogt</u> , Akzo Chemical B.V., Deventer, Netherland	06 p.
10.00 10.20	02-08 Flow of EPDM Compounds in p.47 Capillary Dies : Experiments and Computations with Sticking and Slipping Contact <u>M.F.Boube</u> , Hutchinson Centre de Recherches, France	01-07 Visbreaking of Polypropylene p.12 in Different Processing Machines <u>K.Ebner</u> , University of Akron, USA	01 p.
10.20 10.40	02-09 Flow Field Analysis of the p.49 Cavity Transfer Mixer <u>I.Manas-Zloczower</u> , University of Cleveland, USA	01-08 Cure Monitoring of Epoxy Based p.16 Composites by Dielectric Spectroscopy <u>A.Trivisano</u> , University of Naples, Italy	0 F
10.40 11.00	B R E A K		
11.00 11.20	02-10 The Fundamental Requirements p.51 for Good Mixing <u>J.H.Conner</u> , University of Maryland, USA	01-09 The Twin-Screw Extruder for p.18 Condensation Reactions in Homo- and Heterogeneous Media <u>Ch.Maier</u> , EAHP, Strasbourg, France	
11.20 11.40	02-11 Empirical Models of Adhesion p.53 of Polyethylene Film to Epoxy Adhesive <u>M.Zenkiewicz</u> , Torun, Poland	01-10 Synthesis of Multimethacrylic p.19 Epoxy - Amine Prepolymers by Reactive Extrusion <u>M.Taha</u> , INSA-Bat.403, France	

Room A4	Room A3
der 06-02 p.171 Determination of the Hollow Space Cross - Section in Gas - Assisted Injection Molded Parts <u>H.Potente</u> , University of Paderborn, Germany	07-KN1 p.181 Toughening of Highly Cross - Linked Epoxy Resin by Blending with Engineering Thermoplastics <u>G.Ragosta</u> , Institute of Polymer Technology and Rheology, Arco Felice, Italy
06-03 p.173 How to Avoid Blister Formation During Compression Molding of Sheet Molding Compound <u>S.Halvarsson</u> , Swedish Institute of Composites, Pitea, Sweden	
06-04 p.175 Computer Simulation of Plastication Process in Screw Injection Molding Machines <u>R.Steller</u> , Technical University of Wroclaw, Poland	07-KN2 p.187 Reactive Blending of Poly (ethylene terephthalate) with Ethylene-Propylene Rubber <u>T.Inoue</u> , Tokyo Institute of Technology, Japan
s 06-05 p.176 Shaft Seal Manufacturer - Alternate Molding Techniques <u>R.Bond</u> , CR Industries, Illinois, USA	
06-06 p.178 Factors Affecting the Strength of Long-Fibre Reinforced Thermoplastic Composites <u>S.F.Bush</u> , University of Manchester, U.K.	07-02 p.195 Morphological Changes of a Polymer Blend into a Twin-Screw Extruder <u>B.Vergnes</u> , CEMEF, Valbonne, France
SESSION 3 B.Vergnes G.Mennig	B R E A K
03-KN1 p.65 Phase Morphology Development in Modular Co-Rotating and Modular Counter-Rotating Twin Screw Extruder <u>J.L.White</u> , University of Akron, USA	

	Chamber Hall	Room B1	Room A4
11.40 12.00	02-12 Correlations between Molar Mass Distribution and Rheological Behaviour of Polymer Melts <u>M.Gahleitner</u> , Johannes Kepler University, Linz, Austria p.55	01-11 Silane-Grafting and Molding Steps of Polyethylenes, Realized as Improved Single Stage Processes <u>H.G.Fritz</u> , University of Stuttgart, Germany p.21	03-01 The Effects of Screw Geometry on the Changes in the Particle Structure of Rigid PVC <u>J.Stasiek</u> , METALCHEM, Torun, Poland p.68
12.00 12.20	02-13 Boundary Element Simulation of the Wire Coating Process <u>J.Li</u> , University of Stuttgart, Germany p.57	01-12 High molecular weights in poly (ethylene terephthalate-co-oxy-benzoate)-LCP by short-time coupling in a melt kneader <u>M.Stephan</u> , Institute of Polymer Research, Dresden, Germany p.23	03-02 Normalization of Distributive Mixing in Partially-Filled Twin Screw Extruders Distributive Mixing and Energy Distribution in Twin Screw Extruder <u>D.Bigio</u> , Univ.of Maryland, USA p.69
12.20 12.40	02-14 Analysis of Operating Characteristics of a Single Roll Extruder for Polymer Recycling <u>S.Fang</u> , University of Stuttgart, Germany p.59		03-03 Distributive Mixing of Non - Newtonian Fluids in Partially - Filled Non - Intermeshing Twin Screw Extruder <u>W.Baim</u> , University of Maryland, USA p.71
12.40 13.00	02-15 Plasticizer Transport from Insulating PVC Foils into Water <u>K.Kolomaznik</u> , Zlin, Faculty of Technology, Czechoslovakia p.61		
13.00 15.00	L U N C H		
	Room B1	Room A4	Room A3
15.00 15.20	05-05 Study of Mechanical Property and Fracture Behaviour of Sandwich Injection Moldings <u>Z.I.Maekawa</u> , Kyoto Institute of Technology, Japan p.136	03-04 Flow in a Modular Co - Rotating Twin Screw Extruder Scale - up and Non - Isothermal Effects <u>J.L.White</u> , University of Akron, USA p.73	07-01 Control of the Size of Ethylene Vinyl Acetate/Ethylene Methyl Acrylate Domains by Interfacial Chemical Modification in PVC/ (EVA/EMA) Blends <u>A.Michel</u> , CNRS, BP 24, France p.194
15.20 15.40	05-06 The Chemical Polypropylene Modification <u>W.Slezynqier</u> , Politechnika Rzeszowska, Poland p.138	03-05 The Single Screw Extruder Feeding Zone Design <u>V.V.Jinescu</u> , Polytechnic Institute, Bucharest, Romania p.74	07-03 Impact of Polyethylene - Polypropylene Copolymer <u>P.E.Reed</u> , University of London, U.K. p.197
15.40 16.00	05-KN2 Processing of Glass Mat Reinforced Thermoplastics <u>L.A.Berglund</u> , Lulea University, Sweden p.139	03-06 Optimal Extruder Control using Economical Criteria <u>F.Dörrscheidt</u> , University of Paderborn, Germany p.76	07-04 Crystallization Kinetics of PCL Blended with SAN <u>P.Svoboda</u> , Tokyo Institute of Technology, Japan p.199

16.00 16.20		03-07 p.78 Processing of Short Glass Fibre Reinforced PP in a Single Screw Extruder <u>D.Dospíšil</u> , Faculty of Technology Zlín, Czechoslovakia	07-05 p.201 A Possibility of Elasticity Improvement in NBR/PVC and Copoly (ester-ether) Elastomers <u>V.Ducháček</u> , Prague Institute of Chem.Technology, Czechoslovakia
16.20 16.40	05-07 p.147 Method for Production of Reinforcing Fibre/Thermoplastic Fibre Mixed Mats and Mechanical Properties of Their Composites <u>T.Kitano</u> , MITI, Tsukuba, Japan		
16.40 17.00	05-08 p.149 Simulation of Deformation Process for Long Fibre Reinforced Thermoplastics During Compression Molding <u>Z.I.Maekawa</u> , Kyoto Institute of Technology, Japan		

THURSDAY, SEPTEMBER 24

	Room B1	Room A4	Room A3
9.00 9.20	05-09 Continuous Fibre Reinforcement p.151 Thermoplastic Composite <u>J.Sarlin</u> , Technical Research Centre of Finland, Finland	03-08 Potential Applications for the p.80 Computer-Aided Design Extruders <u>H.Potente</u> , University of Paderborn, Germany	08-07 Recycling of Plastics from Motor p.212 Vehicles <u>A.Anzenhofer</u> , Wien, TGM - VA Kunststofftechnik, Austria
9.20 9.40	05-10 Void Formation in RTM with and p.153 without Vacuum Assistance <u>T.S.Lundström</u> , Swedish Instit. of Composites, Sweden	03-09 The Advantage of Hele Shaw p.82 Elements in Simulation of Extrusion Flow <u>H.J.Pitz</u> , BASF Aktiengesellschaft Ludwigshafen, Germany	08-08 Why the Electrical Measurements p.213 are Useful for Cure Monitoring of Epoxy Resins <u>P.Vilčák</u> , Zlín, Faculty of Technology, Czechoslovakia
9.40 10.00	05-11 Influence on the Curing Process p.155 from the Thermal Properties of RTM Moulds <u>L.A.Strömbeck</u> , Swedish Instit. of Composites, Sweden	03-10 Reduction of Extrusion p.83 Instabilities Using a Lubricated Die - Head <u>J.Becker</u> , Chalmers University of Technology, Sweden	08-09 Changes of Properties of the p.214 Oriented Isotactic PP <u>P.Bartončík</u> , Zlín, Faculty of Technology, Czechoslovakia
10.00 10.20	05-12 Mold Filling in Resin Transfer p.157 Molding <u>M.Vincent</u> , URA CNRS, France	03-11 An Experimental and Theoretical p.85 Study of the Maddock Dispersive Shear Mixer in Plasticating Extrusion <u>I.Postoaca</u> , University of Lund, Sweden	08-10 Effect of Minor Constituents in p.215 Polyolefins on Pyrolysis Products <u>G.Steiningger</u> , Wien, TGM - VA Kunststofftechnik, Austria
10.20 10.40	05-14 Extrusion of Self-Reinforced p.159 Polyethylene <u>A.Weber</u> , University of Erlangen Germany		

The Organizing Committee of the Polymer Processing Society for the European Regional Meeting gratefully acknowledges the support of the following sponsors:

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