

Тридцать восьмое заседание Общественного семинара Научного Совета РАН по ВМС "Новейшие достижения в области науки о полимерах"

**Программа тридцать восьмого семинара:**

**1. А.Р. Хохлов** – Информационный блок для участников семинара

**2. М.Г. Томилин** (ГОИ им. С.И. Вавилова) - Научный доклад: «Применение жидких кристаллов для визуализации свойств поверхностей в полимерных и биологических системах».

Web-site семинара

<http://polly.phys.msu.ru/ru/seminar/vms/>

# Европейский полимерный конгресс - 2005

Москва

**27 июня – 1 июля, 2005**

# Расписание пленарных докладов:

**June 27**

Opening ceremony	
Kabanov V.A., Kabanov A.V. (Moscow, Russia)	“Polymer science to life science”
Lemstra, P.J. (Eindhoven, Netherlands)	“Polymers in Europe, Qua Vadis?”
Jin J. (Seoul, Korea)	“A contribution to nanoscience of polymeric materials.”

# Расписание пленарных докладов:

**June 28**

Plate N.A. (Moscow, Russia), Talroze R.V.	"Induction and stabilization of mesophases in macromolecular systems with noncovalent interaction"
Wegner G. (Mainz, Germany)	"Photophysical chemistry of polyconjugated oligomers and polymers"
Peppas N. (Austin, USA)	"Recognitive and diagnostic polymer networks: formation, simulations and thermodynamics"
Osada Y. (Supporo, Japan)	"Soft & wet materials - an artificial muscles systems"

# Расписание пленарных докладов:

**June 29**

Hadjichristidis N. (Athens, Greece)	"Well-defined linear and non-linear block copolypeptides"
Penczek S. (Lodz, Poland)	"Hydrophilic Star-shape Polymers: from Difficult to Make Models to Simple Less Perfect Stars"
Rinaudo M. (Grenoble, France)	"Associating polymeric systems based on polysaccharides"
Marrucci G. (Napoli, Italy)	"Recent progress in understanding nonlinear polymer rheology".

# Расписание пленарных докладов:

**June 30**

Moeller M. (Aachen, Germany)	"Star-PEG Coatings - Protein Repellency Combined with Functionality"
Linse P. (Lund, Sweden)	"Complexation in solutions containing oppositely charged macromolecules"
Vancso G.J. (Twente, Netherlands)	"Nanotechnology with polymers: from single molecules to functional platforms"
Stamm M. (Dresden, Germany)	"Polymer Nanotemplates and Single Molecules - the Challenge of Nanoscience"

# Расписание пленарных докладов:

**July 1**

Maffetone P.L. (Tourin, Italy)	"Rheology of liquid crystalline polymers: from rods to rheo-chaos"
Albertsson A.C. (Stockholm, Sweden)	"Hierachial structures of degradable polymers with and without biocompatible surfaces and their environmental interaction".
Kremer F. (Leipzig, Germany)	"Forces of interaction between single colloids grafted with polyelectrolytes"
Closing ceremony	

# Список секций



1. Macromolecular Synthesis And Modification Of Polymers
2. Field Responsive And Conducting Polymers
3. Nanostructures In Polymer Systems
4. Biomimetic And Biorelated Polymers
5. Polymer Materials
6. Polymers at Interfaces And Polymer Membranes
7. Theory And Simulation
8. Polymer Rheology And Processing
9. Macromolecules In Solution, Polymer Gels



# Section 1. Macromolecular Synthesis And Modification Of Polymers



1. **Hvilsted S.** (Lyngby, Denmark), "Novel Functional Block Copolymer Avenues".
2. **Ivanchev S.S.** (St-Petersburg, Russia), "Some New Trends in Macromolecular Synthesis".
3. **Likhatchev D.** (Mexico, Mexico), "Polymerizable Perinone Dyes for Novel Luminescent Polymers".
4. **Landfester K.** (Ulm, Germany), "Molecular Synthesis in Miniemulsion".
5. **Monakov Yu.B.** (Ufa, Russia), "Multi-Center Ion-Coordinated Catalytic Systems for Polymerisation".
6. **Muzafarov A.M.** (Moscow, Russia), "Molecular Design in Dendritic Polymers Area".
7. **Novakov I.A.** (Volgograd, Russia), "Radical polymerization initiation and control in the synthesis of cationic polyelectrolytes (for flocculation application)".
8. **Rieger B.** (Ulm, Germany), *title to be announced*.
9. **Voit B.** (Dresden, Germany), "Block Copolymer and Nanostructure Formation of Orthogonally Protected Hydroxystyrene Derivatives via Nitroxy Mediated Radical Polymerization."

## Section 2. Field Responsive And Conductive Polymers

1. **Coles H.** (Cambridge, United Kingdom), "Oligomeric Siloxanes: Materials with Macroscopic Properties Similar to Polymers but with Microsecond Electro-optic Properties".
2. **Emelianenko A.** (Moscow, Russia), "Novel Smectic Phases in Chiral Ferroelectric Materials".
3. **Galli G.** (Pisa, Italy), "Nanoscale Phenomena in Nematic Polymers for Optical Data Storage".
4. **Ikeda T.** (Yokohama, Japan), "Direction-controllable Bending of Polymer Films by Light".
5. **Ikkala O.** (Helsinki, Finland), "Hierarchical Self-assembly of Polymeric Complexes: A Concept for Functional Matter".
6. **Maltsev E.** (Moscow, Russia), "Electroluminescence of Molecular Aggregates in Polymers".
7. **Mitov M.** (Toulouse, France), "Polymer-based Cholesteric Liquid Crystals as Photonic Broadband Gaps: Optical and Electro-optical Properties".
8. **Serrano J.L.** (Zaragoza, Spain), "Chirality Transfer from Light to Liquid Crystalline Azopolymers".
9. **Shibaev V.P.** (Moscow, Russia), "Photoinduced Processes in Cholesteric Polymer Systems".
10. **Stumpe J.** (Potsdam, Germany), "Switchable Holographic Gratings Based of Photopolymerisation Triggered Phase Separation".

# Section 3. Nanostructures In Polymer Systems

1. Antipov E.M. (Moscow, Russia), "Mesophase Hard-Elastic Fibers and Nanocomposites Based on Biodegradable Polyhydroxyalkanoates".
2. ten Brinke G. (Groningen, Netherlands), "New Insights in Comb-shaped Supramolecules Based Nanomaterials".
3. Fytas G. (Heraklion, Greece), "Phonon Propagation in Soft Microstructures".
4. Galesky A. (Lodz, Poland), "Nanoscale Cavitation and Other Mechanisms of Plastic Deformation of Crystalline Polymers".
5. Gerard J.-F. (Lyon, France), "Synthesis of Nanostructured Hybrid Organic-inorganic Materials from Introduction of Methacrylate-functionalized Polyoligomeric Silsesquioxanes and Titanium-based Nanoclusters".
6. Hashimoto T. (Kyoto, Japan), "Controlled Nanostructures in Block Copolymer Blends".
7. Lotz B. (Strasbourg, France), *title to be announced*.
8. Ozerin A.N. (Moscow, Russia), "Spatial Structure of Nano-sized Dendritic Macromolecules".
9. Russo S. (Genoa, Italy), "In-situ Formation of Nanocomposites and Hybrids Based on Polyamide 6".
10. Ungar G. (Sheffield, United Kingdom), "Supramolecular Periodic Structures in Soft Materials".

# Section 4. Biomimetic And Biorelated Polymers

1. **Kabanov A.V.** (Omaha, USA), "Charge Driven Self-Assembly of Nanomaterials".
2. **Klok H.A.** (Lausanne, Switzerland), "Proteins, Bio-inspired Peptide-based Block Copolymers and Biomimetic Branched Peptide Architectures".
3. **Levon K.** (New York, USA), "Interactions Between Biological Molecules and Functional Polymers".
4. **Lozinsky V.I.** (Moscow, Russia), "Synthesis of Some Protein-like Copolymers and Study of their Temperature-dependent Solution Behaviour in Aqueous Media".
5. **Schmaljohann D.** (Cardiff, United Kingdom), "Stimuli-responsive Polymers and Hydrogels in Tissue Engineering and Drug".
6. **Svergun D.** (Hamburg, Germany), "Structural Studies of Biological Macromolecules Using Synchrotron X-ray Small-angle scattering".
7. **Tenhu H.** (Helsinki, Finland), "Colloidally Stable Polyelectrolyte Complex Particles".
8. **Yaroslavov A.A.** (Moscow, Russia), "Negative Liposomes in Contact With Polycations".
9. **Yoshikawa K.** (Kyoto, Japan), "Extotic Nano-ordered Structures from Single Giant DNA".
10. **Zelenetski A.N.** (Russia, Moscow), "New Principle of Biologically Active Materials Preparation on the Base of Modified Polysaccharides".

## Section 5. Polymer Materials

1. **Aglietto M. (Pisa, Italy)**, "Reactive Processing with Functionalized Polyolefins for the Reuse and Recycling of Post-consumer Polyesters".
2. **Bouznik V.M. (Novosibirsk, Russia)**, "Modified composite powders on the basis of polytetrafluorethylene".
3. **D'Amore A. (Naples, Italy)**, "Residual Stresses in Polymers".
4. **Eisenbach C.D. (Stuttgart, Germany)**, "Molecular Reinforcement Phenomena of Rod/Coil Ionomer Blends".
5. **Jimenez A. (Alicante, Spain)**, "Thermal Degradation and Pyrolytic Behaviour of Plasticized Cellulose Acetate".
6. **Karger-Kocsic J. (Stuttgart, Germany)**, "Toughness Determination of Polymer Sheets and Films Using the Essential Work of Fracture (EWF) Approach".
7. **Narkis M. (Haifa, Israel)**, "Novel Electrically Conductive Polymers and Blends as Sensors of Chemicals".
8. **Oleinik E.F. (Moscow, Russia)**, "Polymers and Metals: a View through a Prism of Plasticity".
9. **Pascault J.-P. (Lyon, France)**, "Synthesis and Properties of Self Cross-linkable Thermoplastic Polyurethanes".
10. **Kenny J.M. (Terni, Italy)**, "Dynamic-mechanical and dielectric behavior of polymer matrix nanocomposites".

# Section 6. Polymers At Interfaces And Polymer Membranes

1. Allen N. (Manchester, United Kingdom), "Environmental Photocatalytic Coatings".
2. Anastasiadis S. (Heraklion, Greece), "pH-responsive Block Copolymers and the Formation of Metal Nanocrystals".
3. Gallyamov M.O. (Moscow, Russia), "Vapour-induced Conformational Transitions of Individual Macromolecules Visualised in Real Time by Scanning Force Microscopy".
4. Godovsky Yu.K. (Moscow, Russia), "Smart" Nanolayered Polymeric Films at the Air/Water Interface".
5. Hofmann D. (Berlin, Germany), "Molecular Modelling of Small Molecule Transport Processes in Polymer-based Materials".
6. Magonov S.N. (Santa Barbara, USA), " Visualization of Structure and Dynamics of Alkane and Polyethylene Layers on Selected Substrates".
7. Mijangos C. (Madrid, Spain), "Surface Modification and Characterization of Polymer Membranes".
8. Slomkowsky S. (Lodz, Poland), "Assemblies of Polymeric Nano and Microspheres at Solid-liquid Interface".
9. Urban M. (Hattiesburg, USA), "Stimuli-responsive Polymeric Films and Coatings".
10. Yaminsky I.V. (Moscow, Russia), "Force Mapping of Composite Polymers with Nanometer Resolution"

## Section 7. Theory And Simulation

1. **Birshtein T.M.** (St-Petersburg, Russia), "Liquid-crystalline Order in Polymer Brushes".
2. **Daoud M.** (Cedex, France) "Structure of Beta Casein in Solution".
3. **Erukhimovich I.Ya.**, (Moscow, Russia) "The Theoretical Basics of the Block Copolymer Nanostructures Design".
4. **Fleer G.** (Amsterdam, Netherlands), "Concentration and Solvency Effects on Polymer Depletion and the Resulting Pair Interaction of Colloidal Particles in a Solution of Nonadsorbing Polymer".
5. **Grosberg A.** (Minneapolis, USA), *title to be announced*.
6. **Halperin A.** (Grenoble, France), "On the Physics of DNA Microarrays".
7. **Ivanov V.A.** (Moscow, Russia), "Computer Simulation of Stiff-chain Macromolecules".
8. **Kremer K.** (Mainz, Germany), " Linking Structure and Properties: Multiscale Simulations of Macromolecules".
9. **Rubinstein M.** (Chapel Hill, USA), "In Search of Ideal Chain".
10. **Schmid F.** (Bielefeld, Germany), "Copolymer Adsorption and Molecular Recognition".
11. **Semenov A.N.** (Strasbourg, France), "Shape Transformations of Protein-like Copolymer Globules".
12. **Vasilevskaya V.V.** (Moscow, Russia), "Conformational Polymorphism of Amphiphilic Copolymers".

# Section 8. Polymer Rheology And Processing

1. Cassagnau P. (Lyon, France), "Rheology and Processing in Twin Screw Extruders of Reactive Systems".
2. Isayev A.I. (Akron, USA), "Theoretical and experimental studies on development of anisotropic shrinkage in injection molding process".
3. Gotlib Yu.Ya. (St-Petersburg, Russia), "Visco-elastic Dynamic Models Describing the Mechanical Relaxation in Nanocomposite Polymer Network Systems with Included Hard Rod-like Particles".
4. Hourdet D. (Paris, France), "Viscoelastic Studies of Responsive Polymer Solutions Based on Oppositely Charged Stickers".
5. Kulichikhin V.G. (Moscow, Russia), "Morphology Development at Strong Shear Flow of Heterophase Polymer Melts".
6. Laun M. (Ludwigshafen, Germany), "Rheology and Morphology of Multiphase Polymer Blends".
7. Navard P. (Sophia-Antipolis, France), "Processing of Cellulose Objects from Cellulose Solutions".
8. Tsitsilianis C. (Patras, Greece), "Responsive Physical Gels from Telechelic Polyelectrolytes".
9. Vermant J. (Heverlee, Belgium), "Alignment and orientation effects of particles suspended in polymeric media: Effects of medium rheology and particle shape".
10. Williams R.J.J. (Mar Del Plata, Argentina), "Thermally Reversible Light Scattering Films Produced by Polymerization-induced Phase Separation".



# Section 9. Macromolecules In Solution, Polymer Gels

1. **Bronstein L.** (Bloomington, USA), "Self-assembled Amphiphilic Polysilsesquioxane Gels in Polar Solvents: Interaction with Functional Modifiers and Metal Compounds".
2. **Burchard W.** (Freiburg, Germany), "Possibilities and Limitations in the Characterization of Supramolecular Structures in Solution".
3. **Dusek K.** (Prague, Czech Republic), "Polymer Networks from Designed Precursors: Simulations and Experiments".
4. **Eisenberg A.** (Montreal, Canada), "Incorporation and Release of Small Molecules from Block Copolymer Aggregates in Solution".
5. **Philippova O.E.** (Moscow, Russia), "Smart Polymer Systems in Oil Recovery".
6. **Piculell L.** (Lund, Sweden), "A Closer Look at the Polymer Dissolution Process".
7. **Shibayama M.** (Tokyo, Japan), "Structure and Dynamics of Organo-clay Nanocomposite Gels".
8. **Winnik F.** (Montreal, Canada), "Amphiphilic Polymers of Controlled Architecture: Synthesis, Solution Properties and Applications".
9. **Zein A.B.** (Moscow, Russia), "Complexes of Poly(propyleneimine) Dendrimers with Cross-linked Polyanions".
10. **Zrinyi M.** (Budapest, Hungary), "Smart Polymer Gels and Elastomers".
11. **Zubov V.P.** (Moscow, Russia), "Composite Polymer Hydrogels as Novel Biomaterials".

# Registration fees



	Early registration (Up to April 15, 2005)	Late registration (On and after April 16, 2005 up to June 25, 2005)	On-site registration on and after June 26, 2005)
Participants	€ 350	€ 400	€ 450
Reduced fee (for students only)	€ 165	€ 200	€ 250
Accompanying persons	€ 150	€ 200	€ 250

**Registration fee covers:** coffee-breaks, lunches, welcome party, participant's kit, visa support (tourist visa), one copy of the conference proceedings, sight-seeing tour.

**Reduced fee:** coffee-breaks, welcome party, participant's kit, visa support (tourist visa), one copy of the conference proceedings. Written confirmation of student status signed by scientific advisor is needed to use this option. The confirmation has to be sent by fax (+7 812 3247322) simultaneously with payment of this reduced fee.

**Registration fee for accompanying person(s) covers** coffee-breaks, welcome party, sight-seeing tour, tourist visa support.

# Число участников

- Всего зарегистрировано – 786
- Всего подано абстрактов - 790
- Из них:
  - Постеров – 393
  - Устных - 397
  - Принято устных – 180
    - (остальные переведены в постерные)
- Регистраций без тезисов – 128
  - Из них несколько – просто сопровождающие

# Agenda



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## June 26 (Sunday)

11-00 - 20-00	<b>Registration</b>
13-00 - 18-00	City Tour
19-00 - 21-30	Welcome Party

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## June 27 (Monday)

9-00 - 9-45	<b>Opening Ceremony</b>	
9-45 - 10-30	Kabanov V.A. (Moscow, Russia)	"Polymer Science to Life Science"
10-30 - 11-00	Coffee-break	
11-00 - 11-45	Lemstra P.J. (Eindhoven, Netherlands)	"Polymers in Europe, Qua Vadis?"
11-45 - 12-30	Jin J. (Seoul, Korea)	"A Contribution to Nanoscience of Polymeric Materials"
12-30 - 14-00	Lunch	
14-00 - 16-00	<b>Sections: Invited and Oral Lectures</b>	
16-00 - 16-30	Coffee-break	
16-30-18-30	<b>Sections: Invited and Oral Lectures</b>	

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# Agenda

June 28 (Tuesday)

9-00 - 9-45	Plate N.A., Talroze R.V. (Moscow, Russia)	"Induction and Stabilization of Mesophases in Macromolecular Systems with Noncovalent Interaction"
9-45 - 10-30	Wegner G. (Mainz, Germany)	"Photophysical Chemistry of Polyconjugated Oligomers and Polymers"
10-30 - 11-00	Coffee-break	
11-00 - 11-45	Peppas N. (Austin, USA)	"Recognitive and Diagnostic Polymer Networks: Formation, Simulations and Thermodynamics"
11-45 - 12-30	Osada Y. (Sapporo, Japan)	"Soft & Wet Materials - Artificial Muscles Systems"
12-30 - 14-00	Lunch	
14-00 - 16-00	<b>Poster Session 1 + Innovation Round Table</b>	
16-00 - 16-30	Coffee-break	
16-30-18-30	<b>Sections: Invited and Oral Lectures</b>	

June 29 (Wednesday)

9-00 - 9-45	Hadjichristidis N. (Athens, Greece)	"Well-defined Linear and Non-linear Block Copolypeptides"
9-45 - 10-30	Penczek S. (Lodz, Poland)	"Hydrophilic Star-shape Polymers: from Difficult to Make Models to Simple Less Perfect Stars"
10-30 - 11-00	Coffee-break	
11-00 - 11-45	Rinaudo M. (Grenoble, France)	"Associating Polymeric Systems Based on Polysaccharides"
11-45 - 12-30	Marrucci G. (Napoli, Italy)	"Recent Progress in Understanding Nonlinear Polymer Rheology"
12-30 - 14-00	Lunch	
14-00 - 16-00	<b>Sections: Invited and Oral Lectures</b>	
16-00 - 16-30	Coffee-break	
16-30-18-30	<b>Sections: Invited and Oral Lectures</b>	

# Agenda

June 30 (Thursday)

9-00 - 9-45	Moeller M. (Aachen, Germany)	"Star-PEG Coatings - Protein Repellency Combined with Functionality"
9-45 - 10-30	Linse P. (Lund, Sweden)	"Complexation in Solutions Containing Oppositely Charged Macromolecules"
10-30 - 11-00	Coffee-break	
11-00 - 11-45	Vancso G.J. (Twente, Netherlands)	"Nanotechnology with Polymers: from Single Molecules to Functional Platforms"
11-45 - 12-30	Stamm M. (Dresden, Germany)	"Polymer Nanotemplates and Single Molecules - the Challenge of Nanoscience"
12-30 - 14-00	Lunch	
14-00 - 16-00	<b>Poster Session 2 + Sponsors Presentations</b>	
16-00 - 16-30	Coffee-break	
16-30-18-30	<b>Sections: Invited and Oral Lectures</b>	

July 1 (Friday)

9-00 - 9-45	Maffetone P.L. (Tourin, Italy)	"Rheology of Liquid Crystalline Polymers: from Rods to Rheo-chaos"
9-45 - 10-30	Albertsson A.C. (Stockholm, Sweden)	"Hierarchical Structures of Degradable Polymers with and without Biocompatible Surfaces and Their Environmental Interaction"
10-30 - 11-00	Coffee-break	
11-00 - 11-45	Kremer F. (Leipzig, Germany)	"Forces of Interaction Between Single Colloids Grafted with Polyelectrolytes"
11-45 - 12-30	<b>Closing Ceremony</b>	
12-30 - 14-00	Lunch	

# INTAS

## ИНТАС объявляет конкурс исследовательских проектов 2005-2006 гг.

- В проекте должны принимать участие по меньшей мере две команды из двух разных стран, принадлежащих ИНТАС (одна из них - координирующая группа) и одной команды из стран бывшего СССР.
- Продолжительность проекта - 18, 24 или 30 месяцев.
- Заявка оформляется в два этапа.
- Крайний срок подачи заявок на первом этапе - 14 июня 2005 года,
- Второй этап подачи заявок начинается 5 сентября 2005 года и заканчивается 10 января 2006 года
- Заявка должна быть оформлена через интернет-систему подачи заявок ИНТАС (подробная информация: [www.intas.be](http://www.intas.be) )

Министерство образования и науки Российской  
Федерации

Приоритетные направления

ОБЪЯВЛЕННЫЕ КОНКУРСЫ

# НАНОСИСТЕМЫ

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(III очередь)

Заказчик **Роснаука**

Ориентировочный объем финансирования(млн. руб.) **105,6**

Прием заявок до **10.05.2005**

Лоты 1-13, 16-18 – НИР

14,15,19,20 - ОКР



## **ЛОТ 1**

**ИН-12.1/002.** Разработка методов создания гибридных структур на основе наноуглерода.

## **ЛОТ 2.**

**ИН-12.1/003.** Разработка новых типов нанозондов на основе углеродных материалов.

## **ЛОТ 3.**

**ИН-12.1/004.** Разработка нейтронографических методов характеристики наноструктур в функциональных материалах

## ЛОТ 4.

**ИН-12.1/005.** Разработка новых методов создания атомно-гладкой поверхности полупроводников АЗВ5.

## ЛОТ 5

**ИН-13.1/002** . Объемные углеродные материалы на основе фуллеренов и нанотрубок с экстремально-высокими механическими свойствами.

## ЛОТ 6

**ИН-13.1/003.** Разработка технологии химического синтеза из газовой фазы тонкопленочных материалов, обеспечивающих создание структур для устройств памяти.

## **ЛОТ 7**

**ИН-13.1/004.** Наноспектрометр ближнего поля для Раман- и люминесцентной спектроскопии единичных нанообъектов

## **ЛОТ 8**

**ИН-13.1/005.** Разработка сверхвысоковакуумного низкотемпературного сканирующего туннельного микроскопа.

## **ЛОТ 9**

**ИН-12.2/003.** Разработка научных основ технологии производства полимеров, термоэластопластов и эластомеров с новым комплексом физико-механических характеристик.

## ЛОТ 10

**ИН-13.2/001.** Разработка основ технологии производства оптически прозрачных полимерных и композиционных полимерных электролюминесцентных материалов для новых типов эффективных светодиодных устройств.

## ЛОТ 11

**ИН-13.3/003.** Разработка технологии получения углерод-азотных наноструктур для высокостабильных полевых эмиттеров.

## ЛОТ 12

**ИН-13.3/005.** Разработка технологий получения кристаллов сульфата никеля и его производных, а также кристаллов неорганических фторидов для зонных фильтров УФ-диапазона.

## ЛОТ 13

**ИН-13.3/006.** Разработка технологии получения материалов для низкотемпературных термоэлектрических охладителей нового поколения.

## ЛОТ 14

**ИН-22.3/002.** Разработка технологии получения нанокарбидных материалов, интегрированных в технологию изготовления устройств бесконтактной радиочастотной идентификации.

## ЛОТ 15

**ИН-22.3/003.** Создание высокоэффективной технологии получения ультрадисперсных структур в крупнозернистых литых заготовках конструкционных металлов и сплавов методами интенсивной пластической деформации.

## ЛОТ 16

**ИН-12.5/001.** Разработка новых методов получения нанокompозитных материалов, основанных на использовании твердофазных нанореакторов.

## ЛОТ 17

**ИН-12.5/002.** Разработка новых методов получения люминесцентных наноматериалов на основе оксида цинка.

## ЛОТ 18

**ИН-13.5/001.** Разработка технологии получения нанокерамики с низкими оптическими потерями на основе фторидов металлов, активированных редкоземельными элементами.

## ЛОТ 19

**ИН-22.5/001.** Разработка ресурсосберегающей технологии и создание промышленного производства деформируемых структурно-композиционных магнитотвердых материалов с улучшенными эксплуатационными характеристиками.

## ЛОТ 20

**ИН-22.6/001.** Создание химически стойких мембран, модулей и установок на их основе для процессов выделения ценных и токсичных компонентов из водных технологических сред.

**Russian Academy of Sciences  
Ministry of Education and Sciences, Russian Federation**

**THE 12th EAST ASIAN SYMPOSIUM  
ON POLYMERS FOR ADVANCED  
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**EASPAT**

**June 12-17, 2005, Samara, Russia**



## RUSSIA

M.M. Feldstein, P.E. Kireeva, T.I. Kiseleva, M.B. Novikov, P. Singh, G.W. Cleary. Structure - property relationship and pharmaceutical application of pressure-sensitive adhesives based on interpolymer complexes.

A.A. Berlin, A.Yu. Shaulov. The way of plastification of inorganic polyoxides - the main components of ceramic materials.

A.N.Ozerin, A.I.Kuklin, V.I. Gordeliy, A.Kh Islamov, M.A.Krykin, L.A. Ozerina, D.S. Zavorotnyuk.  
Structure and dynamics of dendritic macromolecules.

A.M. Muzafarov. Progress in organosilicone dendrimers chemistry.

[A.B. Zezin, D.V. Pergushov, V.A. Kabanov.](#)  
Polyelectrolyte complexes of amphiphilic blok-  
copolymers.

[H.M. Tseitlin, I.A. Novakov, A. Nesterova.](#) New epoxy  
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test-systems.

[O.E. Filippova, A.S.Andreeva, A.R.Khokhlov.](#)  
Hydrogels with responsive nanostructure.

[V.V. Vasilevskaya, P.G. Khalatur, A.R. Khokhlov.](#)  
Polymer systems with amphiphilic monomer units.

## CHINA

CHEN, Yong-ming "pH-Sensitive Micellization and Phase Transfer Based on Hyperbranched PEI-PBLG Copolymer"

YANG, Zhen-zhong

GAN, Zhi-hua

SUN, Wen-hua

"Late-Transition Metal Catalysts for Long-Chain Olefins and Branched Polyethylene "

WANG, Xian-hong

YAN, Dong-hang "Crystalline organic thin-films prepared by vapor phase deposition".

CHEN, Xue-si

ZHANG, Xue-quan

ZHANG, Xi

WAN, Xin-hua "Long Range Chirality Transfer in Free Radical Polymerization of Chiral Promesogenic Vinyl Monomers"

# JAPAN

- **Kohzo Ito**
- “Polyrotaxane Gel: a Topological Gel by Figure-of-eight Cross-links”
- **Toshio Nishi**
- “Development of Nanotechnology for Nanostructured Polymer Project”
- **Hiroyuki Nishide**
- “Radical Polymers : a New Material for a Memory Device and a Battery”
- **Yoshiki Chujo**
- "Organic-Inorganic Polymer Hybrids Based on Sol-Gel Method"
- **Tokuji Miyashita**
- “Photofunctional Nano-devices Based on Polymer Nano-sheet Assemblies”

**Eiji Yahima**

“Supramolecular Assemblies of Helical Polymers”

**Toshiaki Ushijima**

“Without presentation”

## **KOREA**

**Un Young Kim**

**Bong Shik Kim** Polymer Hydrogels of Chitosan-Alginic Acid Complex

**Won Ho Jo** Structure Development of Nanostructured Organic Materials under Various External Conditions

**Yong Soo Kang** Dye-Sensitized Solar Cells Employing Polymer Electrolytes

**Jungahn Kim** Synthesis of Chain end-Functionalized Poly(ethylene oxide)s via Living Anionic

**Hee Woo Rhee** Nanoporous Ultralow Dielectric Materials for Next Generation Semiconductors

**Hwan Kyu Kim** "Recent Progress in Lanthanide(III)-Cored Supramolecular Materials with Highly Efficient Light-harvesting Dendritic Arrays for Advanced Photonics Applications"

**Youngro Byun** PEG grafting on pancreatic islets for the immunoprotection

**Sang Youl Kim** Selective Nucleophilic Aromatic Substitution Reaction for Nanostructured Organic Materials