ISPST 2026

Tehran, Iran

Program Book

شرکت صنایع پتروشیمی خلیج فارس
Persian Gulf Petrochemical Industries Co
PGPIC

IPS

International Seminar on

Po 17th mer

Science & Technology ISPST 2026

17-19 November 2026, Amirkabir University of Technology ,Tehran

In the name of ALLAH

Table of content

Welcome notes …… 2

About ISPST …… 5

Seminar chairs …… 7

Executive committee …… 8

Student Executive committee …… 9

Program layout …… 10

Industrial Panels …… 13

Oral Presentation schedule …… 15

Poster Presentation schedule …… 42

Plenary Speakers …… 55

Keynote Speakers …… 60

Workshops …… 97

Organizers …… 105

Scientific committee …… 106

Sponsors …… 125

Seminar important contact list …… 128

Welcome Note

Welcome Note of ISPST 2026 Committees:



Seminar Co-chair
Prof. Morteza Ebrahimi



Scientific Chair
Prof. Mehdi Rafizadeh



Executive Chair
Dr. Mahdi Tohidian

Warm Greetings to

All Esteemed Colleagues, Researchers, Professionals, and Students

in the Field of Polymer Science and Engineering,

It is our distinct pleasure and profound honor to cordially welcome you to the 17th International Seminar on Polymer Science and Technology (ISPST 2026). Building upon a proud legacy of sixteen highly successful editions, this prestigious biennial gathering has firmly established itself as one of the most credible and influential scientific events in the region and across the globe.

ISPST 2026 serves as a premier interdisciplinary platform for distinguished scholars, visionary scientists, and industry leaders from around the world to present their latest groundbreaking research, exchange innovative ideas, and explore emerging trends in macromolecular science. As the global community faces pressing challenges in sustainability, advanced healthcare, and clean energy, this seminar aims to bridge the gap between fundamental research and industrial application, fostering meaningful collaborations that drive technological innovation.

We invite you to actively engage in the keynote lectures, technical sessions, and networking opportunities ahead. Thank you for bringing your expertise and enthusiasm to ISPST 2026. We wish you an inspiring, productive, and memorable conference experience.

Best Regards,

November 2026

Welcome Note

Welcome Note of IPS President:



Prof. Mehdi Nekoomanesh-Haghighi

Distinguished Guests, Esteemed Colleagues, Scholars, Industry Leaders, and Dear Students,

On behalf of the Iran Polymer Society (IPS), it is my great privilege and pleasure to warmly welcome you all to the 17th International Seminar on Polymer Science and Technology (ISPST 2026).

As the proud organizer of this prestigious biennial event, the Iran Polymer Society remains committed to promoting excellence in polymer science, technology, and engineering. Over the years, ISPST has evolved into an important platform for scientific exchange, international collaboration, and the presentation of the latest advances in polymer research and industrial applications.

Today, polymer science and technology play a vital role in addressing major global challenges, ranging from advanced materials and healthcare to energy, environmental protection, and sustainable manufacturing. In particular, the transition toward a circular economy and the development of sustainable, recyclable, and environmentally friendly polymers call for innovative research and closer collaboration between academia and industry.

I would also like to highlight Iran's growing contribution to the international polymer science community. Over recent decades, Iranian universities, research institutes, and scientists have made significant contributions to polymer synthesis, characterization, processing, and advanced materials.

According to bibliometric analyses based on the Web of Science database, Iran has been reported to rank 12th worldwide in **Polymer Science** subject category, considering the scientific publications of universities, research institutes, and other research-producing centers across the country in all years. **Notably, Iran's global ranking improved significantly, reaching 7th place worldwide in Polymer Science in 2025.**

Welcome Note

Furthermore, according to SCImago, Iran ranks 10th worldwide in the subject category of **Polymers and Plastics**. These achievements reflect the scientific capabilities, dedication, and sustained efforts of Iranian researchers and academic institutions.

Nevertheless, scientific progress cannot be measured by publication numbers alone. Research quality, innovation, technological advancement, industrial impact, and international collaboration are equally important indicators of scientific development.

In this regard, I would like to emphasize one important message:

Iran is not merely a participant in the global polymer science community; it is an increasingly active contributor to its scientific and technological advancement.

Strengthening this position requires continued investment in research and development, broader international engagement, and stronger connections among universities, research centers, and industry.

One of the principal missions of the Iran Polymer Society is to foster meaningful synergy between academic research and Iran's polymer industry, while supporting young scientists and engineers who will shape the future of this important field.

We sincerely hope that ISPST 2026 will provide an excellent opportunity to exchange ideas, establish new scientific partnerships, share technological achievements, and build lasting relationships between Iranian and international research communities.

I would like to express my sincere appreciation to the organizing committee, invited speakers, participating institutions, sponsors, and everyone whose dedication and efforts have contributed to making this event possible.

Finally, I wish you all a productive, inspiring, and memorable seminar. May our discussions and collaborations contribute to the continued advancement of polymer science and technology in Iran and throughout the world.

Thank you for your participation, and welcome to ISPST 2026.

November 2026

About ISPST

The 17th International Seminar on Polymer Science and Technology (ISPST 2026) proudly builds upon the legacy of its sixteen successful previous editions, offering a premier forum for presenting, discussing, and disseminating the latest developments and emerging trends in polymer science and technology. This prestigious event brings together leading academics, researchers, and industry professionals from around the world to facilitate the exchange of knowledge and foster collaboration across various fields of polymer science.

Organized by the Department of Polymer and Color Engineering at Amirkabir University of Technology, ISPST 2026 offers participants not only a stimulating scientific environment but also a unique opportunity to explore Tehran, the capital of Iran, renowned for its magnificent museums, historical monuments, and rich cultural heritage. Building on the success of its sixteen previous editions, this seminar promises to provide an exceptional scientific and cultural experience.

The previous sixteen editions of the seminar were held at the following institutions:

- ISPST 2024, Sahand University of Technology, Tabriz, Iran.
- ISPST 2022, Isfahan University of Technology, Isfahan, Iran.
- ISPST 2020, Tarbiat Modares University, Tehran, Iran.
- ISPST 2018, Amirkabir University of Technology, Tehran, Iran.
- ISPST 2016, Islamic Azad University, Tehran, Iran.
- ISPST 2014, Iran Polymer and Petrochemical Institute, Tehran, Iran.
- ISPST 2012, Amirkabir University of Technology, Tehran, Iran.
- ISPST 2009, Iran Polymer and Petrochemical Institute, Tehran, Iran.
- ISPST 2007, Sharif University of Technology, Tehran, Iran.
- ISPST 2005, Amirkabir University of Technology, Tehran, Iran.
- ISPST 2003, Iran Polymer and Petrochemical Institute, Tehran, Iran.
- ISPST 2000, Amirkabir University of Technology, Tehran, Iran.
- ISPST 1997, Iran Polymer and Petrochemical Institute, Tehran, Iran.
- ISPST 1994, Shiraz University, Shiraz, Iran.
- ISPST 1990, Amirkabir University of Technology, Tehran, Iran.
- ISPST 1986, Amirkabir University of Technology, Tehran, Iran.

As part of its ongoing commitment to advancing scientific excellence and strengthening academic and industrial collaboration in polymer science and technology, ISPST 2026 has attracted remarkable interest from researchers and professionals worldwide. A total of 726 papers were submitted, marking the highest number of submissions in the seminar's history and setting a new record for scientific participation.

About ISPST

Following an initial review and approval by the Seminar's Scientific Chair, the submitted papers were forwarded by the respective Topic Chairs to qualified reviewers with expertise in the relevant subject areas for further evaluation. Upon completion of the peer-review process, 738 papers were submitted, 658 papers were accepted, while 46 were rejected and 34 papers were deleted. Of the accepted papers, 163 were selected for oral presentation, and 495 were designated for poster presentation. This seminar hosted 3 plenary spaekers and 30 keynote speakers.

This unprecedented number of submissions reflects the growing international recognition of ISPST as an established platform for scientific exchange. It also underscores the seminar's continuing role in bringing together researchers, academics, and industry professionals to share the latest scientific advances, exchange ideas, foster collaboration, and promote innovation in polymer science and technology.

The scientific topics of the seminar, together with the corresponding number of submitted papers under each topic, are summarized in the following table below:

Special topics		
#	title	# of papers
1	Artificial Intelligence Applications in Polymers	33
2	Circular Economy in Polymers	9
3	Advanced Polymers with high added value	19
Seminar topics		
1	Polymers, Environment and Sustainable Development	74
2	Novel Applications in Polymers	19
3	Biopolymers, Biocompatible Polymers and Tissue Engineering	85
4	Polymer Physics and Physical Chemistry	11
5	Fibers, Films and Polymeric Membranes	44
6	Polymer Synthesis and Characterization	88
7	Rheology and Polymer Processing	32
8	Polymer Blends, Composites, Nanocomposites and elastomers	121
9	Resins, Adhesives and Coatings	78
10	Smart and Functional Polymers	47
11	Polymer Reaction Engineering	3
12	Modeling and Simulation	42

.

Seminar Chairs

Seminar Chair

Prof. Abbas Soroush, Amirkabir University of Technology

Seminar Co-chair:

Prof. Morteza Ebrahimi, Amirkabir University of Technology

Scientific Chair:

Prof. Mehdi Rafizadeh, Amirkabir University of Technology

Executive Chair:

Dr. Mahdi Tohidian, Amirkabir University of Technology

IPS President:

Prof. Mehdi Nekomanesh, Iran Polymer and Petrochemical Institute

Executive Commitee

1) Dr. Saeid Bahrami
2) Dr. Zahra Balzadeh
3) Dr. Alireza Mahjub
4) Dr. Hadi Shirali
5) Dr. Mahdi Tohidian
6) Ms. Fatemeh Abdolmohammadi
7) Ms. Atefeh Alimadadi
8) Mr. Isaa Babalu
9) Ms. Somayeh Bakhshi
10) Ms. Mojdeh Farahani
11) Mr. Reza Gheshlaghi
12) Mr. Seyed Ali Imeni
13) Ms. Anis Jafari
14) Mr. Yaser Malekshah
15) Ms. Mojgan Safarzadeh
16) Ms. Farideh Talebi
17) Ms. Neda Veisi

Student Executive Commitee

1) Mr. Ali Abbasi
2) Mr. Reza Baderestani
3) Mr. Mehdi Ghasempour
4) Ms. Nahid Ghavidel
5) Ms. Helia Heydarinasab
6) Mr. Ehsan Jafarian
7) Ms. Melikai Kazemi
8) Ms. Maryam Kolvari
9) Ms. Hoda Mahjub
10) Mr. Mohammad Mahdi Malakouti
11) Mr. Seyed Sepehr Moosavion
12) Ms. Sajedeh Mozafarpour
13) Ms. Kimia Pourbakht
14) Ms. Mobina Rabiei
15) Mr. Amirreza Rahmati Noughabi
16) Mr. Parsa Sadeghi Marznaki
17) Ms. Niloufar Yousefi Kiasaraei
18) Mr. Abolfazl Zakeri

Program Layout

Day 1 – Tuesday

17 November 2026							
Registration: 7:00							
Time	**Event**						
8:15-09:45	**Central Amphitheater**						
	Opening Ceremony Invited guest: Dr. Mohammad Shariatmadry (Chief Executive Officer of Persian Gulf Petrochemical Industries Company)						
09:45-10:15	**Central Amphitheater**						
	Plenary Lecture A Presenter: Prof. Hamid Mirzadeh Tilte: Iran's Scientific Standing in Global Rankings: The Current Status of Higher Education, Challenges, and Strategies: Emphasizing Polymer Science and Technology						
10:15-10:45	Break						
10:45-12:15	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	Poster
	Polymer Blends, Composites and Nanocomposites	Polymer Synthesis and Characterization	Modeling and Simulation / Fibers, Films and Polymeric Membranes	Biopolymers, Biocompatible Polymers and Tissue Engineering	Modeling and Simulation	Artificial Intelligence Applications in Polymers	
12:15-14:00	Prayer and Lunch						
14:00-15:30	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	
	Polymer Blends, Composites and Nanocomposites	Polymer Synthesis and Characterization	Fibers, Films and Polymeric Membranes	Biopolymers, Biocompatible Polymers and Tissue Engineering	Biopolymers, Biocompatible Polymers and Tissue Engineering / Modeling and Simulation	Polymer Reaction Engineering/ Artificial Intelligence Applications in Polymers	
15:30-16:00	Break						
16:00-17:00	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	
	Polymer Blends, Composites and Nanocomposites	Polymer Synthesis and Characterization	Fibers, Films and Polymeric Membranes	Biopolymers, Biocompatible Polymers and Tissue Engineering	Modeling and Simulation / Polymer Synthesis and Characterization	Artificial Intelligence Applications in Polymers	

Program Layout

Day 2 – Wednesday

18 November 2026							
Time	**Event**						
8:15-09:00	**Central Amphitheater**						
	Plenary Lecture B Presenter: Prof. Farhad Sharif Title: The Discipline of Discovery: AI and the Next Generation of Polymer Research						
09:15-10:45	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	
	Polymer Blends, Composites and Nanocomposites	Polymer Synthesis and Characterization	Fibers, Films and Polymeric Membranes / Resins, Adhesives and Coatings	Biopolymers, Biocompatible Polymers and Tissue Engineering	Novel Applications in Polymers	Circular Economy in Polymers / Rheology and Polymer Processing	
10:45-11:15	Break						
11:15-12:15	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	
	Polymer Blends, Composites and Nanocomposites	Polymer Synthesis and Characterization	Resins, Adhesives and Coatings	Biopolymers, Biocompatible Polymers and Tissue Engineering	Modeling and simulation/ Polymers, Environment and Sustainable Development	Rheology and Polymer Processing	
12:15-14:00	Prayer and Lunch						
14:00-15:30	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	Poster
	Polymer Blends, Composites and Nanocomposites	Polymer Synthesis and Characterization / Smart and Functional Polymers	Resins, Adhesives and Coatings	Biopolymers, Biocompatible Polymers and Tissue Engineering	Smart and Functional Polymers / Polymers, Environment and Sustainable Development	Rheology and Polymer Processing / Polymer Synthesis and Characterization	
15:30-16:00	Break						
16:00-17:00	**Hall A**	**Hall B**	**Hall C**	**Hall D**	**Hall E**	**Hall F**	
	Polymer Blends, Composites and Nanocomposites	Smart and Functional Polymers	Resins, Adhesives and Coatings / Polymer Synthesis and Characterization	Biopolymers, Biocompatible Polymers and Tissue Engineering	Polymers, Environment and Sustainable Development / Biopolymers, Biocompatible Polymers and Tissue Engineering	Polymer Physics and Physical Chemistry	

Program Layout

Day 3 – Thursday

<table>
<tr><th colspan="8">19 November 2026</th></tr>
<tr><th>Time</th><th colspan="7">Event</th></tr>
<tr><td rowspan="2">8:15-09:00</td><td colspan="7">Central Amphitheater</td></tr>
<tr><td colspan="7">Plenary Lecture C
Presenter: Dr. Mohammad Mahdi Hasani-Sadrabadi
Title: Polymers to Train Immunity</td></tr>
<tr><td rowspan="2">09:15-10:45</td><td>Hall A</td><td>Hall B</td><td>Hall C</td><td>Hall D</td><td>Hall E</td><td>Hall F</td><td rowspan="4">Poster</td></tr>
<tr><td>Polymer Blends, Composites and Nanocomposites</td><td>Smart and Functional Polymers</td><td>Resins, Adhesives and Coatings</td><td>Circular Economy in Polymers</td><td>Polymers, Environment and Sustainable Development</td><td>Polymer Physics and Physical Chemistry / Advanced Polymers with high added value</td></tr>
<tr><td>10:45-11:15</td><td colspan="6">Break</td></tr>
<tr><td rowspan="2">11:15-12:15</td><td>Hall A</td><td>Hall B</td><td>Hall C</td><td>Hall D</td><td>Hall E</td><td>Hall F</td></tr>
<tr><td>Polymer Blends, Composites and Nanocomposites</td><td>Smart and Functional Polymers</td><td>Resins, Adhesives and Coatings</td><td>Modeling and Simulation</td><td>Polymers, Environment and Sustainable Development/ Polymer Blends, Composites and Nanocomposites</td><td>Advanced Polymers with high added value</td></tr>
<tr><td>12:15-14:00</td><td colspan="6">Prayer and Lunch</td></tr>
<tr><td>14:00-17:00</td><td colspan="7">Closing Ceremony</td></tr>
</table>

Day 2 – Wednesday

18 November 2026	
Time	**Event**
09:00-10:30	Dept. of Polymer & Color Engineering Amphitheater
	Transition to High-Value-Added Engineering Polymers: Strategies for Diversifying the Product Portfolio of Persian Gulf Holding In Cooperation with: **Persian Gulf Petrochemical Industries Co.**
10:30-10:45	Break
10:45-12:15	Dept. of Polymer & Color Engineering Amphitheater
	Domestic Production of Engineering Polymers, Compounds, and Fillers In Cooperation with: **National Petrochemical Co.**
12:15-14:00	Prayer and Lunch
14:00-15:30	Dept. of Polymer & Color Engineering Amphitheater
	Circular Economy and Development of Polymer Recycling In Cooperation with: **Iranian Polymer Recycling Industries**
15:30-15:45	Break
15:45-17:15	Dept. of Polymer & Color Engineering Amphitheater
	Circular Economy and Development of Polymer Recycling In Cooperation with: **Iranian Polymer Recycling Industries**

Day 3 – Thursday

19 November 2026	
Time	**Event**
09:00-10:30	Dept. of Polymer & Color Engineering Amphitheater
	Compounding and Upcycling In Cooperation with: **Masterbatch and Compound Producers Association of Iran**
10:30-10:45	Break
10:45-12:15	Dept. of Polymer & Color Engineering Amphitheater
	Compounding and Upcycling In Cooperation with: **Masterbatch and Compound Producers Association of Iran**

Oral Presentation Schedule

Day 1: Tuesday, 17 November 2026

Time: 10:45-12:15

Venue: Hall A **Time:** 10:45-12:15

SESSION CHAIRS: Prof. Mehdi Razzaghi-Kashani & Dr. Mohammadjavad Hafezi

TOPIC: Polymer Blends, Composites and Nanocomposites

10:45-11:15		**Keynote**: Prof. Mehdi Razzaghi-Kashani, Tarbiat Modares University Enviromental Concerns of Tire Wear Particles and the Controlling Parameters
11:15-11:35	1294	**Reactive Compatibilization of PLA/TPS Blends during Melt Processing: A Comparative Study on Epoxidized Oils vs. Multifunctional Chain Extenders** **Pedram Bahrami** - Hamid Garmabi
11:35-11:55	1266	**PBAT/Expanded Graphite Composites for Multifunctional Biodegradable Packaging: Effect of Processing Method** **Shahrzad Valipour** - Mohammad Najafi - Sohrab Nikazar - Ghodratollah Hashemi Motlagh
11:55-12:15	1280	**Improving Tensile Properties and Toughness of Epoxy via the Formation of Epoxy/Acrylate Interpenetrating Polymer Networks** **Mehran Jahani** - Alireza Sharif - Seyed Mohammad Reza Paran

Venue: Hall B **Time:** 10:45-12:15

SESSION CHAIRS: Dr. Hossein Boohendi & Dr. Zahra Balzadeh

TOPIC: Polymer Synthesis and Characterization

10:45-11:15		**Keynote**: Dr. Hossein Boohendi, Iran Polymer and Petrochemical Institute Pore Formation and Wetting Dynamics in Precipitation and Dispersion Polymerization of Crosslinked Poly(acrylic acid)
11:15-11:35	1078	**Synthesis and Regiochemical Characterization of Poly(3-hexylthiophene) (P3HT) as a Hole-Transport Layer for Halide-Doped Carbon-QuantumDot-Modified Perovskite Solar Cells** **Zahra Eghbal** - Saeed Pourmahdian - Farzad Zahedi
11:35-11:55	1513	**Synthesis of Host-Guest Stimuli-Responsive Macromolecules Based on Azobenzene and β-Cyclodextrin for the Developing of Smart Nanocarriers** **Amin Shoghli** - Ali Amiri - Fatemeh Maleki - Hossein Sadri - Mobin Rahmanidoust - Amin Abdollahi
11:55-12:15	1729	**Structural and Ion-Exchange Investigation of PVDF-g-PSPMA Copoly-mers Synthesized via Free Radical/Graft Polymerization** **Alireza Mirkhani Deligani** - Saeed Pourmahdian - Mehdi Tohidian - Mohammad Golmohammad - Maral Ghahremani - Nazanin Rostami

Oral Presentation Schedule

Venue: Hall C **Time:** 10:45-12:15

SESSION CHAIRS: Dr. Seyed Morteza Ghasemi & Dr. Zahra Maghsoud

TOPIC: Modeling and Simulation / Fibers, Films and Polymeric Membranes

10:45-11:15		**Keynote**: Prof. Naser Mohammadi, Amirkabir University of Technology The fiber Drawability- precursor morphology correlation of gel spun ultra-high molecular weight polyethylene (UHMWPE)
11:15-11:35	1756	**Simulation Based Design of a Chitosan/Sulfonated Polybutylene Fumarate Nanocomposite Membrane With MWCNT-Im for Direct Methanol Fule Cells** Mehdi Ghasempour - Seyed Ali Mazloumi - Hadi Shirali - **Maryam Kolvari**
11:35-11:55	1367	**The Model Prediction of Membrane Microstructure and Morphology based on Multiple Gas Permeability/Selectivity Data** **Dorsa Talghan Ghafari** - Naser Mohammadi
11:55-12:15	1703	**Amidoxime-Functionalized Poly(vinyl imidazole-co-acrylonitrile)/ Polyacrylonitrile Blend Nanofibers for High Efficient Gold Recovery** **Hamed Omidian -** Abbas Shirdast - Mahdi Abdollahi

Venue: Hall D **Time:** 10:45-12:15

SESSION CHAIRS: Dr. Mohammad Mahdi Abolhasani & Dr. Alireza Mahjub

TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

10:45-11:15		**Keynote**: Dr. Mohammad Mahdi Abolhasani, Kashan University Biopolymers and Biocompatible Polymers in Nanogenerators: From Energy Harvesting to Biomedical Sensing and Electrical Stimulation
11:15-11:35	1392	**Photoinitiator Type and Concentration in a DLP Resin: Cure Depth, Polymerization Shrinkage and Print Fidelity** **Melika Rahemi Ebrahimi** - Saeid Bahrami - Mohammad Atai - Morteza Mohammadi Ghayeghchi - Ali Hasani
11:35-11:55	1044	**CaO_2-Loaded Electrospun PLLA/PGS Fibres with Sustained Release of Oxygen and Ca Ions for Bone Tissue Engineering** **Seyyed Ahmad Seyyed Nasrollah** - Hanieh Nojehdehian - Reza Karimi-Soflou
11:55-12:15	1643	**Efficient encapsulation of pEGFP-N_2 plasmid and dexamethasone in microfluidically synthesized hybrid nanogels** **Farahnaz Karamouz** - Farhang Abbasi

Oral Presentation Schedule

Venue: Hall E **Time:** 10:45-12:15
SESSION CHAIRS: Prof. Mir Hamid Reza Ghoreishy & Dr. Mohammad Najafi
TOPIC: Modeling and Simulation

10:45-11:15		**Keynote**: Prof. Mir Hamid Reza Ghoreishy, Iran Polymer and Petrochemical Institute From Time-Domain Hyper-Viscoelasticity to RPA Dynamic Moduli: Predicting the Nonlinear LAOS Response of Carbon-Black-Reinforced SSBRs
11:15-11:35	1144	**Numerical Simulation and Verification of Gentamicin Release from Gelatin Microspheres Using a Fickian Diffusion Model** **Saeedreza Barzkar -** Zahra Kiaei - Maryam Saadatmand
11:35-11:55	1338	**Process modeling and simulation of PLA/EVOH blends in an internal mixer** **Mojtaba Atashi** - S.Ali Mazloumi - Hadi Shirali
11:55-12:15	1734	**Numerical Modeling of a PNIPAM/PEGMA/DMAEMA Composite Electrolyte Reinforced with CNT/CNC for Multi-Responsive Implantable Lithium-Ion Batteries** **Roya Fallah** - Alireza Ramezani

Venue: Hall F **Time:** 10:45-12:15
SESSION CHAIRS: Dr. Alireza Sharif & Dr. Hadi Shirali
TOPIC: Artificial Intelligence Applications in Polymers

10:45-11:15		**Keynote**: Prof. Najem Abdulkadhim Al-Rubaiey, University of Technology, Iraq Artificial Intelligence and Advanced Polymeric Nanocomposites: Emerging Opportunities for Corrosion Protection and Environmental Sustainability
11:15-11:35	1627	**Percolation-Constrained Neural Networks for Predicting the Electrical Conductivity of CNT/Polymer Nanocomposites** **Mohammad Ali Shiukhi** - Kian Ghanbari - Mahyar Ghasemi Olanlari
11:35-11:55	1584	**Machine Learning Models for Mechanical Property Prediction in Polymer/Sepiolite Nanocomposites: A Comparative Evaluation** **Ali Abbasi** - Mohammad Ghadimi - Kimia Pourbakht - Mehdi Rafizadeh
11:55-12:15	1407	**Improving the Optical transparency of PMMA parts fabricated by FDM 3D printing with processing parameters & post processing** **Mahdi Kazemi Rad** - Amir Masoud Rezadoust - Reza Ghaffarian Anbaran

Oral Presentation Schedule

Day 1: Tuesday, 17 November 2026
Time: 14:00 – 15:30

Venue: Hall A **Time:** 14:00-15:30
SESSION CHAIRS: Prof. Ahmadreza Bahramian & Dr. Hossein Yahyaei
TOPIC: Polymer Blends, Composites and Nanocomposites

14:00-14:30		**Keynote**: Prof. Ahmadreza Bahramian, Tarbiat Modares University Polymeric Aerogels and Phase Change Materials for Advanced Thermal Energy Management: Insulation, Storage, and Thermal Protection
14:30-14:50	1165	**Carbon-Fiber-Reinforced Phenolic Aerogels for Ablative Thermal Protection: Effect of Matrix Type and Reinforcement** **Mohamad hosein Lajevardi** - Seyed reza Ghaffarian
14:50-15:10	1462	**Investigation of the Physico-Mechanical Properties and Tribological Behavior of Epoxy Composites Containing Solid Lubricants** **Alireza Ziadelahi** - Seyed hassan Jafari - Masoud Esfandeh - Amirmasoud Rezadoust
15:10-15:30	1573	**Effects of Sodium Hydroxide and Sodium Acetate Modification on the Tensile Behavior of Jute/PLA Composites** **Saghar Hematkhahan** - Seyed Abolfazl Mirdehghan - Hooshang Nosraty

Venue: Hall B **Time:** 14:00-15:30
SESSION CHAIRS: Prof. Mahdi Abdollahi & Prof. Vahid Haddai-Asl
TOPIC: Polymer Synthesis and Characterization

14:00-14:30		**Keynote**: Prof. Mahdi Abdollahi, Tarbiat Modares University Advances in Non-Functional Low Molecular Weight Liquid Polybutadiene: Synthesis and Molecular Architecture
14:30-14:50	1647	**Effect of Monomer Stoichiometry on the Properties of Poly(glycerol adipate) Elastomeric Hydrogels** **Reza Bagheri-Renani** - Mohsen Shahrousvand - Abdolmajid Bayandori Moghaddam - Jamshid Mohammadi-Rovshandeh
14:50-15:10	1267	**Effect of GO@MnO_2 Hybrid Nanostructure on the β-Phase Formation of PVDF Nanocomposites** **Zahra Aliasgharzadeh –** Fatemeh Goharpey – Hossein Nazokdast
15:10-15:30	1421	**Raman Spectroscopic Insight into the Microwave-Assisted Grafting of Acrylic Acid onto Polysulfide Epoxy Resins** **Zahra Rahmani -** Behzad Shirkavand Hadavand

Oral Presentation Schedule

Venue: Hall C **Time:** 14:00-15:30
SESSION CHAIRS: Dr. Manouchehr Khorasani & Dr. Maral Ghahramani
TOPIC: Fibers, Films and Polymeric Membranes

14:00-14:30		**Keynote**: Dr. Manouchehr Khorasani, Amirkabir University of Technology Hydrophobic Engineering of Poly(acrylic acid) Xerogels for Salt-Tolerant Thichening Applications
14:30-14:50	1650	**A Fully Biodegradable Chitosan/PVA Triboelectric Nanogenerator for Sustainable Mechanical Energy Harvesting** **Mohammad Aghanouri** - Mohammad Mahdi Abolhasani
14:50-15:10	1640	**Low-Flux Polysulfone Membrane Dialyzers Sterilized by Gamma Irradiation and Ethylene Oxide: A Performance-Based Comparative Study** **Mohanna Arab Khazaeli** - Hamed Salimi-Kenari - Hassan Adeli
15:10-15:30	1691	**Preparation and Characterization of Ion-Exchange Nanocomposite Membranes Based on Modified Chitosan Nanoparticles** **Mehdi Zolfi Zeinab -** Negar Hanaei - Mehdi Gasempour - Ana Sharifi - Mehdi Tohidian

Venue: Hall D **Time:** 14:00-15:30
SESSION CHAIRS: Prof. Mohammad Taghi Khorasani & Dr. Saeid Bahrami
TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

14:00-14:30		**Keynote**: Prof. Asra Ali Hussein, Babylon University, Iraq Biopolymers: From Sustainable Materials to Advanced Biomedical Applications
14:30-14:50	1733	**Highly Porous Poly(lactic acid)/Functionalized Natural Rubber-Based Foams Reinforced with Plant-Derived Micro- and Nanocellulose for Tissue Engineering Applications** Pardis Sarafrezaei **- Ladan Amini Shirazi -** Farkhondeh Hemmati
14:50-15:10	1386	**Crystalline Structure Manipulation in Electrospun Fibers to Optimize Biodegradation Rates** **Ali Abbasi** - Hossein Beiranvand - Mobina Shokrollah Zadeh Moghadam - Mehdi Rafizadeh
15:10-15:30	1049	**Preparation and Surface Functionalization of Lignin Nanoparticles with APTES for Potential Reinforcement of Rubber Composites** **Delaram Seyedahmadnia -** Abbas Shirdast - Mehdi Razzaghi-Kashani - Mahdi Abdollahi

Oral Presentation Schedule

Venue: Hall E **Time:** 14:00-15:30

SESSION CHAIRS: Prof. Ahmad Ramazani Saadatabadi & Dr. Azizollah Nodehi

TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering/ Modeling and Simulation

14:00-14:30		**Keynote**: Ahmad Ramazani Saadatabadi, Sharif University of Technology Preparation and Investigation on Anticancer Efficiency of Injectable Hyaluronic Acid Hydrogel Containing Fucoidan-Chitosan and Magnesium Oxide Nanoparticles
14:30-14:50	1721	**Three-Dimensional Monte Carlo Simulation of CNT-Based Polymer Nanocomposites: Role of Polymer Properties in Matrix-Dependent Tunneling** **Niloufar Yousefi Kiasaraei** - Armin Ebrahimi - Mohammad Heydarnejad Moghadam - Fatemeh Goharpey
14:50-15:10	1152	**Numerical Modeling and Inverse Acoustic Characterization of NBR/PVC Porous Panels for Sound Insulation Applications** **Maryam Mohseni** - Amirmohammad Momenirad - Pedram Alizadeh Esfestani - Seyed Mostafa Hosseini
15:10-15:30	1173	**Role of Viscoelastic Dissipation in Crack-Path Prediction of Bilayer Rubber Composites** **Sahar Tavosi -** Mohammad Alimardani - Mir Hamid Reza Ghoreishy - Hossein Roshanaei

Venue: Hall F **Time:** 14:00-15:30

SESSION CHAIRS: Dr. Abbas Rezaee Shirin-Abadi & Dr. Hamed SalimiKenari

TOPIC: Polymer Reaction Engineering / Artificial Intelligence Applications in Polymers

14:00-14:30		Keynote: Dr. Abbas Rezaee Shirin-Abadi, Shahid Beheshti University PET Circularity: Overcoming Bottlenecks in Mechanical and Chemical Recycling
14:30-14:50	1726	**Microstructural characterization of industrial Ziegler-Natta catalysts via N2 adsorption-desorption analysis** **Aliasghar Mohammadi** - Nona Ghasemi
14:50-15:10	1479	**Closing the Loop in Biomaterials Design: An AI-Driven Active Learning Framework for Multi-Objective Optimization of Biopolymer-Based Tissue Engineering Scaffolds** **Ehsan Ghiasy Nick** - Faezeh Saffyari - Mohsen Shahrousvand
15:10-15:30	1025	**Machine Learning Analysis of Corrosion Protection in Polymer Nanocomposite Coatings** **Najem Al-Rubaiey** - Fadhil Kadhim

Oral Presentation Schedule

Day 1: Tuesday, 17 November 2026
Time 16:00 – 17:00

Venue: Hall A **Time:** 16:00-17:00
SESSION CHAIRS: Prof. Mohammad Karrabi & Dr. Hedayatollah Sadeghi Ghari
TOPIC: Polymer Blends, Composites and Nanocomposites

16:00-16:20	1472	**In Situ Synthesis and Characterization of MIP-202@Leafiran: A Bio-MOF/Lignocellulose Hybrid Nanocomposite** **Shima Panahi -** Mohammad Dinari
16:20-16:40	1379	**Engineering Hydrophilic PDMS with a Chitosan-Based Additive for Microfluidic and Body-on-Chip Applications** **Fatemeh Irajirad -** Rafieh-Sadat Norouzain
16:40-17:00	1263	**From Rubber Abrasion to Tire Wear: How Laboratory Abrasion Testers Facilitate the Valid Prediction of Tire Wear?** **Seyed Hamid Reza Sabbaghi -** Mehdi Razzaghi-Kashani

Venue: Hall B **Time:** 16:00-17:00
SESSION CHAIRS: Prof. Hassan Agha Arabi & Dr. Abdol-Rahim Faramarzi
TOPIC: Polymer Synthesis and Characterization

16:00-16:20	1600	**Balancing Melt Processability and Structural Integrity in HDPE: The Critical Role of Hydrogen Partial Pressure in the Second Reactor** **Somayeh Lashgari -** Ali Safinejad - Majid Habibelahi - Mohammadreza Mehdizadeh
16:20-16:40	1326	**One-Pot Synthesis of α-Diimine Nickel(II) Catalysts: Effect of Ligand Steric Environment on Ethylene Polymerization Activity and Polyethylene Thermal Behavior** **Mohammad Moein Safa -** Maryam sadat Beheshti - Hasan Arabi - Mehdi Ghambarian
16:40-17:00	1587	**Synthesis of flexible double-network hydrogels with improved mechanical properties** **Sayed Ali Savaedi -** Kourosh Kabiri - Mohammad Jalal Zohuriaan-Mehr - Hossein Bouhendi

Oral Presentation Schedule

Venue: Hall C **Time:** 16:00-17:00

SESSION CHAIRS: Prof. Mehran Javanbakht & Dr. Jalal Barzin

TOPIC: Fibers, Films and Polymeric Membranes

16:00-16:20	1032	**Development of Janus Nanoparticle-Containing Pebax-based Mixed Matrix Membranes for CO2/N2 Separation** **Reyhane Jalali Viarsagh -** Ehsan Chehrazi
16:20-16:40	1546	**Antibacterial Properties of Cotton Fabric via Coating with Silver Nanoparticles Green-Synthesized Using Sandalwood Extract** **Parisa Taromi -** Mahdi Safi - Mousa Sadeghi-Kiakhani
16:40-17:00	1704	**Preparation and Characterization of Nanocomposite Proton Exchange Membranes Based on 17.5% Sulfonated Poly(butylene fumarate) and Cellulose Nanofibers** **Mohammad Mahdi Malakouti** - Abolfazl Zakeri - Mehdi Ghasempour - Mahdi Tohidian

Venue: Hall D **Time:** 16:00-17:00

SESSION CHAIRS: Dr. Mozhgan Zandi & Dr. Hamid Keshvari

TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

16:00-16:20	1093	**Development of a Hybrid Calcium Chloride/Tannic Acid Crosslinking System for Double-Network Poly(vinyl alcohol)/Sodium Alginate Hydrogels** **Zeinab Yarhosseini -** Mehdi Entezam - Moslem Tavakol
16:20-16:40	1702	**Printability and Morphological Characteristics of a GelMA-Based Ink** **Narges Rabbanikhah** - Morteza Ebrahimi - Sahar Abdollahi Baghban - Shadab Bagher-Khoulenjani
16:40-17:00	1391	**Sudan I as a DLP Light Absorber: Cure Depth, Shrinkage and Print Fidelity** **Melika Rahemi Ebrahimi** - Saeid Bahrami - Mohammad Atai - Morteza Mohammadi Ghayeghchi - Ali Hasani

Oral Presentation Schedule

Venue: Hall E **Time:** 16:00-17:00

SESSION CHAIRS: Dr. Mohammad Ghashghaee & Dr. Mohsen Najafi

TOPIC: Modeling and Simulation/ Polymer Synthesis and Characterization

16:00-16:20	1026	**Dynamic Construction of Realistic Networks for Molecular Simulation of an Acrylic-Melamine Thermoset Coating: A Case Study** **Seyyed Mohammad Mousavifard** - Mohsen Mohseni - Hesam Makki - Hossein Yahyaei
16:20-16:40	1323	**Comparison of Electronic Structure and Conceptual DFT Descriptors for PTSA and H_2SO_4 in PVA-Based Solid Polymer Electrolyte for Electrochemical Capacitors** **Elahe Sehhat -** Mahdi Salami-Hosseini - Mehdi Salami-Kalajahi
16:40-17:00	1400	**Molecular Insights into Colistin Encapsulation by Hyaluronic Acid and PVA-PSS Polymeric Nanocarriers** **Abolfazl Azadi** - Khadije Ahmadi - Hossein Fazli - Hoda Nassira

Venue: Hall F **Time:** 16:00-17:00

SESSION CHAIRS: Dr. Mohammad Fakhroleslam & Dr. Hadi Shirali

TOPIC: Artificial Intelligence Applications in Polymers

16:00-16:20	1669	**Trust-Gated Machine Learning for Tensile Strength Screening of PLA/CNF Nanocomposites** **AmirAli Mahiroodi** - Ali Azimi - Mohammad Saleh Abbasi
16:20-16:40	1145	**Interpretable Machine Learning for the Study of Thermal and Mechanical Properties of Epoxy Resin Systems** **Seyed Ali Noorashrafedin** - Alireza Sharif
16:40-17:00	1051	**Interpretable Machine Learning for Multiscale Prediction of Viscosity in Concentrated Polymer-Particle Suspensions** **Kimia Ghorbani -** Fatemeh Goharpey - Hadi Shirali

Oral Presentation Schedule

Day 2: Wednesday, 18 November 2026
Time: 09:15-10:45

Venue: Hall A **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Seyed Reza Ghaffarian & Dr. Hamed Azizi
TOPIC: Polymer Blends, Composites and Nanocomposites

9:15-9:45		**Keynote**: Dr. Shahriar Hojjati Emami, Amirkabir University of Technology Chemical mechanism prediction unravels multiple macromolecular outcomes from free-radical reactions
9:45-10:05	1138	**Effect of Different Sulfur Vulcanization Systems on the Cellular Morphology and Mechanical Properties of Nanosilica-Filled NBR/PVC Elastomeric Foams** **Aida Entezari -** Mehdi Ghanbari adivi - Elham Ramyar - Parisa Aberi zaker
10:05-10:25	1150	**Toward a Visible-Light-Responsive Biopolymer Photocatalyst via Solvothermal growth of CdS on Chitosan Surface** **Amir Mohammad Anajafi Marzijarani** - Azadeh Ebrahimian Pirbazari - Fatemeh Esmaeili Khalil Saraei
10:25-10:45	1251	**PVA/Graphene Oxide Nanocomposite Aerogels: Physical vs. Chemical Cross-Linking Effects on Network Structure and Performance** **Kosar Alavi -** Hossein Nazockdast - Hamid Garmabi - Mohsen Ranjbari

Venue: Hall B **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Mehdi Nekoomanesh & Dr. Alireza Mahjub
TOPIC: Polymer Synthesis and Characterization

9:15-9:45		**Keynote**: Prof. Mehdi Nekoomanesh, Iran Polymer and Petrochemical Institute Ionic Environments in $AlCl_3$ Mediated Polymerization
9:45-10:05	1725	**Micellar copolymerization of acrylamide with hydrophobic monomers and comparison of the properties of the resulting copolymers with those obtained via inverse emulsion polymerization** **Soroush Gholamjani Moghaddam -** Ahmad Ramazani Saadatabadi
10:05-10:25	1083	**Elimination of Chemical Crosslinkers in Poly(MMA-co-BMA) Core-Shell Nanocapsules via Compartmentalization-Induced Entanglement: Mechanism of Burst-Release Mitigation** **Sara Gharibi -** Alireza Mahjoub
10:25-10:45	1469	**Investigation of the growth kinetics of silver nanorods synthesized by the polyol method using UV-Vis spectroscopy** Abdol-Rahim Faramarzi **- Foad Haghdadi**

Oral Presentation Schedule

Venue: Hall C **Time:** 9:15-10:45

SESSION CHAIRS: Dr. Mehdi Ghaffari & Dr. Manouchehr Khorasani

TOPIC: Fibers, Films and Polymeric Membranes / Resins, Adhesives and Coatings

9:15-9:45		**Keynote**: Dr. Mehdi Ghaffari, Golestan University Polymer-Based Nanocomposites for Sustainable Energy Storage: Nano-Engineered Phase Change Materials
9:45-10:05	1306	**Selective Suppression of CH_4 Transport by Two-Dimensional GO@MPS-PMMA Nanofillers in Polyurethane** Rahim Bavi **- Mohammad Reza Salehzadeh** - Farzin Jamalpour - Arash Abbaspour
10:05-10:25	1501	**Electrochemical Evaluation of α-Zirconium Phosphate for Corrosion Protection of Steel in a Chloride-Rich Environment** **Sarah Farahani -** Bahram Ramezanzadeh - Mohammad Mahdavian
10:25-10:45	1230	**Molecular Design of Self-Healing Silane-Terminated Polyurethane Coatings through HDI Architecture and Silane Content Control** **Mahsa Mirzaei** - Hossein Yahyaei

Venue: Hall D **Time:** 9:15-10:45

SESSION CHAIRS: Dr. Hamid Mirzadeh & Dr. Mohsen Shahrousvand

TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

9:15-9:45		**Keynote**: Dr. Mohammad bayat, Noveratech, LLC, USA. Advanced Biomaterial Scaffolds and Cell-Free Nanotherapeutics for Complex Bone Defects: Current Paradigms and Future Directions
9:45-10:05	1528	**Photothermal Antibacterial Self-Adhesive Wound Dressing Based on Non-Isocyanate Polyurethane** **Parsa Mousavi -** Hamid Yeganeh - Masoud Babaahmadi
10:05-10:25	1715	**Plasma-Assisted Surface Functionalization of PLA Nanofibers with Graphene Oxide for Enzyme Immobilization** **Helia Heydarinasab -** Amir Hossein Davoodi - Seyed Omid Ranaei-Siadat - Saeedeh Mazinani - Farhad Sharif
10:25-10:45	1038	**Polymer-Lipid Hybrid Design: LNP-Based mRNA Nanocarriers and the Role of Nisin in Modulating IFN-γ Response in PBMCs** **Fereshteh Moharrmzadeh -** Mahdieh Jafari - Amir Shamloo - Morteza Karimipour - Mohammad-Ali Shokrgozar

Oral Presentation Schedule

Venue: Hall E **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Farhang Abbasi & Dr. Helma Vakili
TOPIC: Novel Applications in Polymers

9:15-9:45		**Keynote**: Prof. Farhang Abbasi, Sahand University of Technology Crystallization Thermodynamics of Poly(3-hexylthiophene): Challenges and Solutions
9:45-10:05	1489	**Predicting Coalescing Agent Efficiency in Latex Film Formation Using Hansen Solubility Parameters** **Ali Raeisiyekta** - Mohsen Mohseni
10:05-10:25	1405	**Production of SCBA Mask buckle using FDM 3D-printing** **Mehdi Rostami -** Gholam-Reza Nejabat
10:25-10:45	1430	**From Nano-Scratch to Macro Strain-Hardening: A Multiscale Correlation between PVA Fiber Surface Shearing and Flexural Toughness of ECC** **Mohamad ALi Etminani Esfahani -** Abbas Abbasian - Farhad Sharif

Venue: Hall F **Time:** 9:15-10:45
SESSION CHAIRS: Dr. Fatemeh Goharpay & Prof. Mahdi Salami-Hosseini
TOPIC: Circular Economy in Polymers / Rheology and Polymer Processing

9:15-9:45		**Keynote**: Dr. Ehsan Behzadfar, Toronto Metropolitan University, Toronto, Canada When Polymers Evolve: Rheology, Structural Memory, and the Physics of Sustainable Materials
9:45-10:05	1598	**Facile post-synthetic loading of anthocyanin onto PEG/PCL-based polyurethanes: Surface dyeability and hydrogen bonding dynamics** **Zeynab Hashemi-Torkamani** - Mohammadreza Miralvar - Mostafa Rezaei
10:05-10:25	1709	**Biaxial Stretching-Induced Crystallization in PLA/EVA Blends and Its Effect on Water Vapor Barrier Properties** **Azin Nobakht Ghomsheh** - Mohammad Heidari - Hamid Garmabi
10:25-10:45	1722	**Rheological Modeling of Stress Relaxation and Dynamic Covalent Network Kinetics in Polyethylene Vitrimers** **Asal Yousefi** - Fatemeh Goharpey – Hossein Nazokdast

Oral Presentation Schedule

Day 2: Wednesday, 18 November 2026
Time: 11:15 – 12:15

Venue: Hall A **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Masoud Esfandeh & Dr. Mahshid Maroufkhani
TOPIC: Polymer Blends, Composites and Nanocomposites

11:15-11:35	1401	**Effect of Dicumyl Peroxide Concentration on Reactive Modification of PLA with Maleic Anhydride and Styrene** **Fateme Asoode kisomi -** Mahshid Maroufkhani - Hamed Azizi
11:35-11:55	1641	**Tensile Strength of PP/SiC Nanocomposites: Experimental Study and Micromechanical Modeling** **Mohammad Purhaji** - Mohammad Reza Nakhaei
11:55-12:15	1148	**Effect of Silica Localization on the Mechanical and Self-Healing Balance of Sulfur-Cured ENR/TPU Blends** **Mohammad Alimardani** - Hamidreza Sari

Venue: Hall B **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Shahram Mehdipour & Dr. Helma Vakili
TOPIC: Polymer Synthesis and Characterization

11:15-11:35	1473	**Construction of a Nitrogen-Rich Porous Triazine-Linked Covalent Organic Polymer Using a Multifunctional Diol Building Block** **Roghayeh Aalizadeh Isini -** Mohammad Dinari
11:35-11:55	1441	**In-situ Oxidative Polymerization Of Polyaniline on the Ti3C2Tx (MXene) nanosheet** **Maedeh Jalilpour -** Omid Rafeie - Saeed Zeinali Heris
11:55-12:15	1448	**Synthesis and Characterization of a Styrene-Acrylic acid-Hydroxyethyl methacrylate Terpolymer for Adsorption of Methylene Blue from Aqueous Solutions** **Elham Sanaei -** Gholam Ali Koohmareh - Behnaz Ghalavand

Venue: Hall C **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Ali Asghar Sabbagh Alvani & Dr. Hossein Eivaz Mohammadloo
TOPIC: Resins, Adhesives and Coatings

11:15-11:35	1526	**Investigating the Effect of Polyether-Polyester Copolyol on the Thermal, Rheological, and Adhesion Properties of Thermoplastic Polyurethane (TPU) Adhesives** **Mehrdad Elahy** - Mohammad Fasihi - Hassan Farokhzad
11:35-11:55	1114	**Crosslink-Density Controlled Thiol-Maleimide Microcapsules for Thermally Latent One-Component Epoxy Curing** **Sakineh Hajebi** - Hassan Fattahi - Mehrzad Mortezaei - Hamid Reza Heydarnezhad
11:55-12:15	1024	**Investigating the Capillary Behavior and Droplet Formation in Solvent-Based Inkjet Inks through Dimensionless Analysis** **Sara Javad Esfahani** - Mohsen Mohseni - Javad Shayegh

Venue: Hall D **Time:** 11:15-12:15
SESSION CHAIRS: Dr. Saeid Bahrami & Dr. Fatemeh Shokrolahi
TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

11:15-11:35	1279	**Synthesis and Characterization of Enzymatically and Physically Dual-Crosslinked Silk Fibroin/Chondroitin Sulfate Hybrid Hydrogels** **Maryam Farokhi**
11:35-11:55	1090	**Dynamic Mechanical Stimulation of Cell-Imprinted Substrates Enhances Osteogenic Differentiation of Stem cells** **Fatemeh Pouladzadeh -** Shadab Bagheri-Khoulenjnai
11:55-12:15	1091	**Toughening of Poly(lactic acid) with Plant Oils and Functionalized Plant Oils** **Amirreza Ahadi -** Amin Mortazavi - Hossein Ali Khonakdar - Farkhondeh Hemmati

Oral Presentation Schedule

Venue: Hall E **Time:** 11:15-12:15
SESSION CHAIRS: Dr. Mahmoud Parvazinia & Dr. Omid Moini Jazani
TOPIC: Modeling and Simulation / Polymers, Environment and Sustainable Development

11:15-11:35	1624	**Data-Driven Modeling of PMMA Polymerization for Process Control Using NARX and LSTM Networks** **Hosna Afshar aelam** - Ehsan Nazerfard - Abolfazl Dibaji - Mehdi Rafizadeh
11:35-11:55	1671	**Flow Modeling of Extruded Polypropylene into Cross-Die Head for Manufacturing Thermoplastic Composite Tapes** **S.M.A. Hosseini -** A. A. Yousefi
11:55-12:15	1659	**Soil Biodegradation Evaluation of PBAT/PAA Hydrogel Film Assemblies** **Nazanin Eslamipour** - Zahed Ahmadi

Venue: Hall F **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Mahdi Salami-Hosseini & Dr. Saeid Talebi
TOPIC: Rheology and Polymer Processing

11:15-11:35	1118	**Melt Modification of Recycled Poly(lactic acid) with Joncryl 678: Rheological, Thermal, and Morphological Assessment** Fateme Abbasi - **Mohammad Vaziri** - Parastoo Pishe
11:35-11:55	1521	**Effect of Zinc Catalysis on the Linear Viscoelastic Behavior of Epoxy-Modified Poly(ethylene terephthalate)** **Parmida sadat Rasouli** - Hamid Garmabi - Zohreh Solouki
11:55-12:15	1273	**Preparation and Investigation of Rheological and Reprocessing Properties of Polyethylene Vitrimer and the Effect of CNT** **Ali Motamed -** Hossein Nazokdast - Fatemeh Goharpey - Mahdis Basati

Oral Presentation Schedule

Day 2: Wednesday, 18 November 2026
Time: 14:00 – 15:30

Venue: Hall A **Time:** 14:00-15:30
SESSION CHAIRS: Prof. Mohammadreza Nofar & Prof. Akbar Shojaei
TOPIC: Polymer Blends, Composites and Nanocomposites

14:00-14:30		**Keynote**: Prof. Mohammadreza Nofar, Istanbul Technical University, Istanbul, Turkey Enhancing Compatibilization Efficiency and Recyclability in Droplet–Matrix Polymer Blends
14:30-14:50	1105	**Hybrid Covalent-Ionic Networks in Peroxide-Cured Polybutadiene Rubber Containing Zinc Dimethacrylate** **Iman Abbasi Shahdehi -** Abbas Sheikh
14:50-15:10	1047	**Frictional Behavior and Structural Characterization of Exfoliated MoS2/Epoxy Novolac Composite Coatings** **Hossein Beiranvand** - Alireza Mahjub - Seyed Reza Ghaffarian
15:10-15:30	1205	**Development of Biodegradable PBAT Composites Reinforced with Electrospun PLA Mats** **Zahra sadat Ziabakhsh -** Ghodratollah Hashemi Motlagh - Mehdi Elhamnia

Venue: Hall B **Time:** 14:00-15:30
SESSION CHAIRS: Prof. Hossein Roghani-Mamaqani & Dr. Mohammad Barmar
TOPIC: Polymer Synthesis and Characterization / Smart and Functional Polymers

14:00-14:30		**Keynote**: Prof. Hossein Roghani-Mamaqani, Sahand University of Technology Advanced anticounterfeiting polymer inks
14:30-14:50	1299	**Tailoring Mechanical Performance and Surface Wettability of Biodegradable PBS-co-LA Copolyesters through Lactic Acid Content** **Sajedeh Mozafarpour -** Mehdi Rafizadeh
14:50-15:10	1706	**Oxazolidine- and Spiropyran-Modified Functional Copolymer Latex Nanoparticles for Smart Fluorescent Inks** **Sajjad Bagherian -** Ali Amiri - Amin Abdollahi
15:10-15:30	1745	**Design and Synthesis of Stretchable Conductive Hydrogels with Self-Healing and High Sensitivity for Advances Wearable Sensors** **Fardin Heydari -** Mahdi Bayat - Rasoul Shahamati - Zahara Mohamadnia

Oral Presentation Schedule

Venue: Hall C **Time:** 14:00-15:30

SESSION CHAIRS: Prof. Mohammad Hosain Beheshty & Dr. Saeideh Gorji Kandi

TOPIC: Resins, Adhesives and Coatings

14:00-14:30		**Keynote**: Prof. Mohammad Hosain Beheshty, Iran Polymer and Petrochemical Institute Development of an Optimal B-Staging Window for Epoxy-Based Composite Prepregs
14:30-14:50	1562	**Metal-Organic Framework as Reinforcing Agent in Dental Adhesives: Synthesis and Properties** **Faezeh Salmanzadeh** - Mohammad Reza Naimi-Jamal - Mohammad Atai
14:50-15:10	1576	**Synthesis and Characterization of Acrylic Pressure-Sensitive Adhesive for Ibuprofen Release in Transdermal Drug Systems** Sahar Amiri - **Martin Aghanians** - Sanam Amiri
15:10-15:30	1210	**Adhesion Under Fire: Z-α Master Curve Unravels the Nucleation-Growth Mechanism in Epoxy-Phenolic Adhesives** **MohammadHossein Karami** - Omid Moini Jazani

Venue: Hall D **Time:** 14:00-15:30

SESSION CHAIRS: Prof. Hamid Yeganeh & Dr. Masoumeh Haghbin Nazarpak

TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

14:00-14:30		**Keynote**: Prof. Hamid Yeganeh, Iran Polymer and Petrochemical Institute From Polyurethane Nanocarriers to Sustainable Non-Isocyanate Polyurethanes: Targeted and Stimuli-Responsive Platforms for Cancer Therapy
14:30-14:50	1520	**Cyclodextrin Inclusion Complexes Loaded with Silver Sulfadiazine in Electrospun PVA-Based Nanofibers for Controlled Drug Delivery and Antibacterial Activity** Sahar Amiri - **Martin Aghanians** - Sanam Amiri
14:50-15:10	1575	**Effect of Carboxymethyl Chitosan-Bioactive Glass Nanohybrid on the Printability and shape Fidelity of Alginate-Based Bioinks** **Hadis Khaksar** - Hadi Shirali - Shadab Bagheri-Khulenjani
15:10-15:30	1522	**Toughened Lignin Recovered from Paper-Making Byproduct with Epoxidized Natural Rubber** **Mahdi Kazemi Rad -** Shayan Yeganeh - Farkhondeh Hemmati

Oral Presentation Schedule

Venue: Hall E **Time:** 14:00-15:30
SESSION CHAIRS: Prof. Mehdi Salami-Kalajahi & Dr. Amir Babaei
TOPIC: Smart and Functional Polymers/ Polymers, Environment and Sustainable Development

14:00-14:30		**Keynote**: Prof. Mehdi Salami-Kalajahi, Sahand University of Technology Engineering Polymer Architectures for Sustainable Energy Technologies
14:30-14:50	1753	**Synthesis and Characterization of Silver Nanowire-Reinforced Gelatin/Polyacrylamide Double-Network Hydrogels as Smart Polymers** **Mahsa Raddadi -** Fatemeh Goharpey
14:50-15:10	1133	**Investigating the Piezoelectric Property of Silicone Rubber/ Zinc Oxide Nanocomposite for Pressure Sensing Application** **Mohammad Hossein Yousefi** - Rezvan Soltani - Mohammad Sadegh Soltanali
15:10-15:30	1158	**Effect of Graphene Oxide Nanosheet Size on the Filtration Performance of Water-Based Drilling Fluids** **Hossein Sharifi -** Fatemeh Goharpey - Mohsen Dehvedar - Amir Mohammad Ebadi - Ali Karimollahi

Venue: Hall F **Time:** 14:00-15:30
SESSION CHAIRS: Dr. Fatemeh Goharpey & Dr. Farhad Sharif
TOPIC: Rheology and Polymer Processing/ Polymer Synthesis and Characterization

14:00-14:30		**Keynote**: Dr. Reza Salehiyan, Edinburgh Napier University, Edinburgh, U.K. Rheological detection and monitoring of degradation in thermally sensitive polymers
14:30-14:50	1223	**Synthesis and Optimization of Tetrahydrofuran-Propylene Oxide Random Copolymer as a Polyether Binder for Composite Propellants** **Mohammad javad Bayat -** Yadollah Bayat
14:50-15:10	1261	**Filler-Controlled Vulcanization of Rubber Composites: Catalytic and Networking Effects** **Faezeh Razavi Zadeh** - Mehdi Razzaghi-Kashani - Mohammad Raef - Seyed Mostaffa Hosseini - Fatemeh Khakbaz
15:10-15:30	1274	**Rheological behavior of concentrated bimodal silica suspensions** **Mahdis Basati -** Fatemeh Goharpey - Ali Motamed

Oral Presentation Schedule

Day 2: Wednesday, 18 November 2026
Time: 16:00 – 17:00

Venue: Hall A **Time:** 16:00-17:00
SESSION CHAIRS: Prof. Ghasem Naderi & Dr. Saeedeh Mazinani
TOPIC: Polymer Blends, Composites and Nanocomposites

16:00-16:20	1255	**Effects of Polystyrene-Graft-Ground Tire Rubbers (PS-g-GTR) on the Mechanical Properties of PS/GTR Blends** **Akbar Amiri** - Zahra Khoubi-Arani - Mehdi Salami-Kalajahi - Mina Alizadeh-Agdam
16:20-16:40	1029	**Thermal Protection Performance of Carbon-Fiber-Reinforced (PICA) and Silica-Fiber-Reinforced (PISA) Phenolic Aerogels** **Reyhan Gholami -** Ahmad Reza Bahramian
16:40-17:00	1696	**Effect of Poly(methyl methacrylate) Molecular Weight in Core-Shell Processing Aids on the Processing Behavior of Rigid Poly(vinyl chloride)** Haniyeh Motalebi - **Mohammad Reza Gholizadeh** - Mahdi Abdollahi

Venue: Hall B **Time:** 16:00-17:00
SESSION CHAIRS: Prof. Elaheh Kowsari & Dr. MohammadAli Pourmohammadi
TOPIC: Smart and Functional Polymers

16:00-16:20	1593	**Synthesis of smart polyurethanes containing dual chain extenders and investigation of their light and pH responsiveness** **Mohammadreza Miralvar -** Milad Babazadeh-Mamaqani - Hossein Roghani-Mamaqani - Mostafa Rezaei
16:20-16:40	1045	**Inver Opal Preparation Method for Humidity Sensing** **Mohammadbagher Sobhanimatin**
16:40-17:00	1096	**Water Harvesting from Air using Hydrogels** **Fatemeh Amiri -** Mohammad Jalal Zohuriaan-Mehr - Kourosh Kabiri

Oral Presentation Schedule

Venue: Hall C **Time:** 16:00-17:00

SESSION CHAIRS: Dr. Mehran Rostami & Dr. Shahla Shekarriz

TOPIC: Resins, Adhesives and Coatings/ Polymer Synthesis and Characterization

16:00-16:20	1646	**Modulating the Anti-reflective Performance of Silica Coatings via Amphiphilic Triblock Copolymers** **Kiana Ashouri -** Hossein Yahyaei - Saeideh Gorji Kandi
16:20-16:40	1062	**A Comparative Performance Evaluation of Different HPMC and RDP in Dry-Mix Mortars** **Yasamin Khanjari -** Ali Almasganj - Kimia Rabiee
16:40-17:00	1634	**Synthesis and Characterization of Polyester Polyol-Based Polyurethane and Investigation of Its Dielectric Properties** **Ghazal Eslamian** - Hadi Shirali - Mehdi Rafizadeh

Venue: Hall D **Time:** 16:00-17:00

SESSION CHAIRS: Dr. Atefeh Solouk mofrad & Dr. Hakimeh Ghaleh

TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering

16:00-16:20	1578	**Development of a Carboxymethyl Chitosan Sulfate Hydrogel for Three-Dimensional Breast Cancer Modeling** **Mobina Tohidian –** Narges Abili **-** Shadab Bagheri-Khoulenjnai - Abdollah Amini – Mahdi Tohidian
16:20-16:40	1648	**Dynamic Modeling of pH-Responsive Drug Release from Polymeric Hydrogels under Evolving Wound Microenvironments** **Faezeh Saffyari -** Ehsan Ghiasy Nick - Mohsen Shahrousvand
16:40-17:00	1750	**Electrospun Polyurethane/Rosemary/Zinc Oxide Composite Nanofibers as Potential Scaffolds for Tissue Engineering** **Mobina Rabiei -** Saeid Bahrami

Oral Presentation Schedule

Venue: Hall E **Time:** 16:00-17:00

SESSION CHAIRS: Prof. Mir Karim Razavi Aghjeh & Dr. Kourosh Kabiri

TOPIC: Polymers, Environment and Sustainable Development/ Biopolymers, Biocompatible Polymers and Tissue Engineering

16:00-16:20	1282	**Development and Characterization of CuPc-Loaded PLA Nanoparticles for Controlled Drug Delivery Systems** **Marzieh Orouji Hafez -** Javad Mokhtari
16:20-16:40	1759	**Synthesis and Characterization of Metakaolin-Based Geopolymer Activated by a Diatomite-NaOH Blend for Efficient Methylene Blue Adsorption** **Fatemeh Oshani -** Nargess Yousefi-Limaee - Fatemeh Beyk Mahabadi - Parisa Tanha
16:40-17:00	1052	**Solid-State PP-g-MA Compatibilization for Improved Mechanical Performance of PP/PET Textile Waste Recycling** **Fatemeh Dargahi** - Mohammad-Javad Hafezi

Venue: Hall F **Time:** 16:00-17:00

SESSION CHAIRS: Prof. Mohammad Karimi & Dr. Morteza Ghasemi

TOPIC: Polymer Physics and Physical Chemistry

16:00-16:20	1065	**Decoding the Thermomechanical Behavior of Drawn PET Filaments through Multivariate Structural Analysis** **Zahra Mahdavipour** - Mohammad Karimi
16:20-16:40	1535	**Development of Beta phase in PVDF via immersion precipitation 3D printing** **Atieh Janmaleki Dehchani –** Farhad Sharif – Shadab Bagheri-Khoulenjani
16:40-17:00	1362	**Elucidating the Crystal Structure and Crystallization Kinetics/Thermodynamics of a Synthesized Poly(butylene adipate) Diol** **Melika Akbarinejad** - Elham Najafi - Naser Mohamadi - Mehdi Rafizadeh

Oral Presentation Schedule

Day 3: Thursday, 19 November 2026
Time: 9:15 – 10:45

Venue: Hall A **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Hamid Garmabi & Dr. Foroud Abbasi-Sourki
TOPIC: Polymer Blends, Composites and Nanocomposites

9:15-9:45		**Keynote**: Prof. Hamid Garmabi, Amirkabir University of Technology Morphology Engineering of PLA-Based Blends for Enhanced Oxygen Barrier Performance
9:45-10:05	1199	**Thermal Insulation Performance of Alumina-Felt-Reinforced Phenolic Aerogels for Building Applications** **Nikta HasaniNasab -** Reza Poursalehi - Ahmadreza Bahramian
10:05-10:25	1494	**Thermophysical Evaluation of PEG-Based Phase Change Materials for Human Thermal Comfort Management** **Shokouh Ahmadvand -** Nadere Golshan Ebrahimi - Ahmadreza Bahramian
10:25-10:45	1503	**Synergistic Effects of Ammonium Polyphosphate and Pentaerythritol on the Flame Retardancy of Polypropylene** **Mahshid Maroufkhani -** Alireza Rastegar Koohi - Ali Keshavarz Tork

Venue: Hall B **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Ali reza Mahdavian & Prof. Javad Mokhtari
TOPIC: Smart and Functional Polymers

9:15-9:45		**Keynote**: Prof. Ali Reza Mahdavian, Iran Polymer and Petrochemical Institute Chromogenic Materials: Thermochromic Polymers for the Advanced Stimuli-responsive Systems
9:45-10:05	1190	**Effect of matrix flexibility and polarity on the photochromic behavior of spiropyran-doped acrylate films** **Seyed Hossein Hosseini Kakhk -** Jaber Keyvan Rad - Hamid Salehi-Mobarakeh - Ali Reza Mahdavian
10:05-10:25	1341	**Preparation of pH-responsive thermoplastic polyurethane/azobenzene with reversible halochromic behavior for anti-counterfeiting applications** **Mehdi Hajipour -** Mohammadreza Miralvar - Hossein Roghani-Mamaqani - Mostafa Rezaei
10:25-10:45	1359	**Photothermal properties of polyurethane/graphene derivatives nanocomposites** **Sanaz Zare-Kochemeshki -** Ahmadreza Tabbakhi- Mamaqani - Mostafa Rezaei - Hossein Roghani-Mamaqani

Oral Presentation Schedule

Venue: Hall C **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Zahra Ranjbar & Prof. Mohammadreza Mohammadzadeh Attar
TOPIC: Resins, Adhesives and Coatings

9:15-9:45		**Keynote**: Prof. Zahra Ranjabar, Institute for Color Science and Technology The Invisible Revolution: How Advanced Coatings Are Redefining Material Intelligence
9:45-10:05	1099	**Quantitative Investigation of Interfacial Adhesion in Polymer Nanocomposites Based on Pukanszky and Lewis-Nielsen Mechanical Models** **MohammadHossein Karami** - Omid Moini Jazani
10:05-10:25	1278	**Iron Phosphide as a Co-Pigment in Zinc-Rich Epoxy Coatings: Corrosion Studies** **Sheyda Moradi -** Mohsen Mohseni - Esmaeil Akbarinejad
10:25-10:45	1656	**Synthesis and investigation of water-based Acrylic peelable resins using core-shell procedure** **Shahrzad Najafi -** Ahmad Rezvani boroujeni - Arezoo Masaeli

Venue: Hall D **Time:** 9:15-10:45
SESSION CHAIRS: Prof. Mostafa Rezaei & Dr. Shervin Ahmadi
TOPIC: Circular Economy in Polymers

9:15-9:45		**Keynote**: Prof. Mostafa Rezaei, Sahand University of Technology From Chemorheological Fundamentals to Industrial Scale-Up: Engineering Reaction Kinetics for TPU Production
9:45-10:05	1229	**Polymeric Membranes in the Circular Economy From Water Reuse to Resource Recovery** **Mohammad Alizadehfard**
10:05-10:25	1604	**Effect of Lifting the Ban on Polymer Compound Exports on Virgin Polymer Demand at the Iran Mercantile Exchange: A Reconciliation with Customs Statistics** **Mohammadreza Moavenian** - Seyed Emadodin Shakeri
10:25-10:45	1221	**Thermoplastic Polyesters Recycling: Hydrolases Process Parameters** **Tayebeh Sangchi** - Zahed Ahmadi

Oral Presentation Schedule

Venue: Hall E **Time:** 9:15-10:45

SESSION CHAIRS: Prof. Mohammad Jalal Zohurian Mehr & Dr. Zahed Ahmadi

TOPIC: Polymers, Environment and Sustainable Development

9:15-9:45		**Keynote**: Prof. Sanaa A hafad, University of Technology, Iraq. Evaluating the life cycle and biodegradability performance of biodegradable polymer/polyethylene blend membranes: Towards a sustainable environment
9:45-10:05	1445	**Spent Coffee Grounds Lignin as an Sustainable Bio-Based Reinforcing Filler for Carboxylated Acrylonitrile-butadiene Rubber** **Atena Shiri -** Seyed Mostaffa Hosseini
10:05-10:25	1698	**Synergistic effects in graphene oxide and copper oxide hybrid for industrial dye treatment** **Parsa Teimoori -** Porya Ansa - Amir Babaei
10:25-10:45	1553	**A Hierarchical CMC/ MOF on MOF Photocatalyst for Visible Light Doxycycline Degradation** **Bahareh Rabeie -** Niyaz Mohammad Mahmoodi

Venue: Hall F **Time:** 9:15-10:45

SESSION CHAIRS: Dr. Omid Moini Jazani & Prof. Mohsen Mohseni

TOPIC: Polymer Physics and Physical Chemistry / Advanced Polymers with high added value

9:15-9:45		**Keynote**: Dr. Omid Moini Jazani, University of Isfahan A new platform for designing high-performance epoxy film adhesive with UiO-66 and amine-functionalized UiO-66 in aluminum- aluminum bonded joints
9:45-10:05	1566	**Effect of β-Nucleating Agent Type on Crystallization Kinetics and Impact Strength of Polypropylene Random Copolymer (PP-R)** **Amin Kamkar**
10:05-10:25	1293	**Thermal annealing of poly(vinylidene fluoride) before crystallization helps growing the polar phases** **Maryam Mahboubi -** Mina Alizadehaghdam - Zahra Khoubi-Arani
10:25-10:45	1207	**Evaluation of Domestic Polyurethane Binder Systems for Cold-Box Foundry Cores** **Reza Anvari Zarch -** Mehraveh Dolatabadi - Gholam Ali Farzi - Bahman Koroji - Zeinab Jarrahi

Oral Presentation Schedule

Day 3: Thursday, 19 November 2026
Time: 11:15 – 12:15

Venue: Hall A **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Ali Akbar Yousefi & Dr. Foroud Abbasi-Sourki
TOPIC: Polymer Blends, Composites and Nanocomposites

11:15-11:35	1461	**Interfacial Hybrid Networks in Segregated HDPE/$Bi_{0.5}Sb_{1.5}Te_3$ Composites for Enhanced Electrical Conductivity** **Mohammad Hosseinzadeh** - Seyed Abdolkarim Sajjadi - Samaneh Sahebian - Hossein Vafaeenezhad
11:35-11:55	1555	**Mechanical Properties of Epoxy Resin Modified with Pistacia atlantica Gum and Silica-Clay Particles: Optimization Using the Taguchi Method** **Kasra Yari -** Bafrin Hamze - Afsaneh Mohammadpour - Sohrab Rahmani - Hoda Nassira - Mir Saeed Seyed Dorraji
11:55-12:15	1717	**Chemical Foaming of PLA/PBAT/Carbonaceous Nanoparticles by 3Dprinting: Effects of Geometric Shape of on Physical and Mechanical Properties** Alireza Ramezani - Amirhossein Akbari - Saeid Sabzekar - **Mohammad Reza Nofar** - Farkhondeh Hemmati

Venue: Hall B **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Majid Abdouss & Prof. Payam Molla Abbasi
TOPIC: Smart and Functional Polymers

11:15-11:35	1574	**Fabrication of Metal-Organic Framework/Polymer Composites as Acidochromic Labels** **Matin Abouei -** Sana Nikseresht-Barenjinazhad - Fatemeh Heidary-kehi - Moein Mohammadi-Jorjafki - Milad Babazadeh-Mamaqani - Hossein Roghani-Mamaqani
11:35-11:55	1073	**Self-Powered Flexible Piezoelectric Sensor Based on PVDF/BaTiO3 Nanocomposite for Mechanical sensing and Energy Harvesting** **Zeynab Tavakoli -** M.M Abolhasani
11:55-12:15	1481	**Bio-Based Fluorescent Nanocomposites for Sustainable Anticounterfeiting Applications** **Mehrshad Bazdar -** Neda Dastpak - Moein Mohammadi-Jorjafki - Milad Babazadeh-Mamaqani - Hossein Roghani-Mamaqani

Oral Presentation Schedule

Venue: Hall C **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Mohsen Mohseni & Dr. Hossein Yari
TOPIC: Resins, Adhesives and Coatings

11:15-11:35	1104	**Correlating Non-Isothermal DSC Curing Parameters with Adhesion Performance of Epoxy Nanocomposites: A Predictive Approach** **MohammadHossein Karami** - Omid Moini Jazani
11:35-11:55	1605	**Synthesis of Monodisperse Silica Nanoparticles and Water-Based Acrylic Binders for Crack-Free Photonic Crystal Films** **Seyed Roham Taheri -** Sahar Foroughirad - Amir Rezvanimoghadam
11:55-12:15	1609	**The effect of polyols composition on the mechanical properties and colloidal stability of waterborne polyurethanes** **Ahmadreza Tabbakhi-Mamaqani -** Mostafa Rezaei - Hossein Roghani-Mamaqani

Venue: Hall D **Time:** 11:15-12:15
SESSION CHAIRS: Prof. Zahra Shariatinia & Dr. Majid Ghias
TOPIC: Modeling and Simulation

11:15-11:35	1482	**Spatially Resolved 2D Transport Model for Multi-Component Drying of Cast Nafion Films Under Infrared-Convection Heating** **Fereidoon Mohammadi -** Barman Abdali - Mir Hamid Reza Ghoreishy
11:35-11:55	1511	**Investigating the Binding Ability of Polyurethane Binder with Copper Current Collector using Molecular Dynamics Simulation** **Fatemeh Yazdanpanah -** Maral Ghahramani
11:55-12:15	1287	**Parametric Investigation of Interphase and Geometric Effects on the Tensile Modulus of Polymer-Hydroxyapatite Nanocomposites Using the Modified Hui-Shia Model** **Sara Parvardeh -** Jafar Khademzadeh Yeganeh - Yasser Zare

Oral Presentation Schedule

Venue: Hall E **Time:** 11:15-12:15

SESSION CHAIRS: Prof. GholamAli Farzi & Prof. Saeed Bazgir

TOPIC: Polymers, Environment and Sustainable Development / Polymer Blends, Composites and Nanocomposites

11:15-11:35	1369	**Reusable ZIF-8/Ag Nanoparticle-Coated Cotton Fabric for the Degradation of Dye Pollutants** **Kia Attari** - Shahla Shekarriz - Majid Montazer - Zahra Shariatinia - Javad Mokhtari
11:35-11:55	1381	**Morphological, Mechanical, and Thermal Properties of HDPE Reinforced with Microcrystalline Cellulose through Rotational Molding** Barmak Ghanbarpour - Amin Moslemi - **Naghmeh Jamshididolatabadi**
11:55-12:15	1744	**Preparation of Chitosan/Sulfonated Polybutylene Fumarate Nanocomposite Membranes with Imidazole-Functionalized Multi-Walled Carbon Nanotubes for Direct Methanol Fuel Cells** **Mehdi Ghasempour -** Ana Sharifipour - Mahdi Tohidian - Shayan Navabi - Mohammad Mahdi Malakouti - Mehdi Zolfi Zinab - Abolfazl Zakeri

Venue: Hall F **Time:** 11:15-12:15

SESSION CHAIRS: Prof. Hossein Ali Khonakdar & Dr. Abbas Mohammadi

TOPIC: Advanced Polymers with high added value

11:15-11:35	1548	**Effect of 3D Printing Parameters on the Mechanical Properties of Urethane Acrylate-Based Photosensitive Resin** **Kaveh Sharifiyan -** Morteza Nasiri
11:35-11:55	1763	**Unveiling the Mechanistic Transition in Bulk Polyesterification: A Synergistic Study of Acid-Dimer Catalysis and Diffusion-Limited Growth** **Sajad Sheikhi -** Mehdi Rafizadeh
11:55-12:15	1661	**Effect of Fennel Essential Oil on the Mechanical Properties of Carboxymethyl Cellulose-Based Edible Films and the Shelf Life of Apple** **Hakime Tavassoli -** Hossein Yahyaei

Poster Presentation Schedule

Tuesday, 17 November 2026

HALL 01 TOPIC:Polymer Blends, Composites, Elastomers and Nanocomposites	
TIME	**PAPER ID**
10:15–10:30	**1039**
10:30–10:45	**1212**
10:45–11:00	**1565**
11:00–11:15	**1710**
11:15–11:30	**1748**
11:30–11:45	**1020**
11:45–12:00	**1123**
12:00–12:15	**1154**
14:00–14:15	**1438**
14:15–14:30	**1095**
14:30–14:45	**1290**
14:45–15:00	**1040**
15:00–15:15	**1295**
15:15–15:30	**1355**
15:30–15:45	**1594**
15:45–16:00	**1692**
16:00–16:15	**1693**

HALL 02 TOPIC: Polymer Blends, Composites, Elastomers and Nanocomposites	
TIME	**PAPER ID**
10:15–10:30	**1680**
10:30–10:45	**1110**
10:45–11:00	**1272**
11:00–11:15	**1324**
11:15–11:30	**1004**
11:30–11:45	**1121**
11:45–12:00	**1644**
12:00–12:15	**1174**
14:00–14:15	**1087**
14:15–14:30	**1135**
14:30–14:45	**1265**
14:45–15:00	**1302**
15:00–15:15	**1303**
15:15–15:30	**1404**
15:30–15:45	**1444**
15:45–16:00	**1480**
16:00–16:15	**1498**
16:15–16:30	**1505**
16:30–16:45	**1752**
16:45–17:00	**1764**

Poster Presentation Schedule

HALL 03 TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering	
TIME	**PAPER ID**
10:15–10:30	**1545**
10:30–10:45	**1689**
10:45–11:00	**1070**
11:00–11:15	**1116**
11:15–11:30	**1189**
11:30–11:45	**1544**
11:45–12:00	**1549**
12:00–12:15	**1069**
14:00–14:15	**1179**
14:15–14:30	**1236**
14:30–14:45	**1053**
14:45–15:00	**1074**
15:00–15:15	**1113**
15:15–15:30	**1245**
15:30–15:45	**1257**
15:45–16:00	**1330**
16:00–16:15	**1570**
16:15–16:30	**1590**
16:30–16:45	**1711**

HALL 04 TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering	
TIME	**PAPER ID**
10:15–10:30	**1061**
10:30–10:45	**1137**
10:45–11:00	**1146**
11:00–11:15	**1153**
11:15–11:30	**1213**
11:30–11:45	**1233**
11:45–12:00	**1567**
12:00–12:15	**1291**
14:00–14:15	**1307**
14:15–14:30	**1316**
14:30–14:45	**1321**
14:45–15:00	**1322**
15:00–15:15	**1384**
15:15–15:30	**1390**
15:30–15:45	**1525**
15:45–16:00	**1468**
16:00–16:15	**1475**
16:15–16:30	**1512**

Poster Presentation Schedule

HALL 05 TOPIC: Resins, Adhesives and Coatings	
TIME	**PAPER ID**
10:15–10:30	**1456**
10:30–10:45	**1159**
10:45–11:00	**1457**
11:00–11:15	**1128**
11:15–11:30	**1589**
11:30–11:45	**1608**
11:45–12:00	**1014**
12:00–12:15	**1036**
14:00–14:15	**1098**
14:15–14:30	**1149**
14:30–14:45	**1162**
14:45–15:00	**1225**
15:00–15:15	**1226**
15:15–15:30	**1243**
15:30–15:45	**1246**
15:45–16:00	**1249**
16:00–16:15	**1256**
16:15–16:30	**1428**
16:30–16:45	**1446**
16:45–17:00	**1612**

HALL 06 TOPIC: Resins, Adhesives and Coatings	
TIME	**PAPER ID**
10:15–10:30	**1492**
10:30–10:45	**1514**
10:45–11:00	**1066**
11:00–11:15	**1286**
11:15–11:30	**1452**
11:30–11:45	**1724**
11:45–12:00	**1742**
12:00–12:15	**1003**
14:00–14:15	**1088**
14:15–14:30	**1440**
14:30–14:45	**1450**
14:45–15:00	**1547**
15:00–15:15	**1657**
15:15–15:30	**1459**
15:30–15:45	**1037**
15:45–16:00	**1268**
16:00–16:15	**1333**
16:15–16:30	**1434**
16:30–16:45	**1393**

Poster Presentation Schedule

HALL 07 TOPIC: Polymer Synthesis and Characterization	
TIME	**PAPER ID**
10:15–10:30	**1541**
10:30–10:45	**1510**
10:45–11:00	**1443**
11:00–11:15	**1314**
11:15–11:30	**1387**
11:30–11:45	**1403**
11:45–12:00	**1439**
12:00–12:15	**1681**
14:00–14:15	**1345**
14:15–14:30	**1507**
14:30–14:45	**1529**
14:45–15:00	**1564**
15:00–15:15	**1651**
15:15–15:30	**1077**
15:30–15:45	**1215**
15:45–16:00	**1318**
16:00–16:15	**1336**

HALL 08 TOPIC: Polymer Synthesis and Characterization	
TIME	**PAPER ID**
10:15–10:30	**1509**
10:30–10:45	**1628**
10:45–11:00	**1690**
11:00–11:15	**1021**
11:15–11:30	**1201**
11:30–11:45	**1620**
11:45–12:00	**1639**
12:00–12:15	**1738**
14:00–14:15	**1015**
14:15–14:30	**1408**
14:30–14:45	**1478**
14:45–15:00	**1623**

HALL 08 TOPIC: Fibers, Films and Polymeric Membranes	
TIME	**PAPER ID**
15:00–15:15	**1182**
15:15–15:30	**1076**
15:30–15:45	**1231**
15:45–16:00	**1340**
16:00–16:15	**1168**
16:15–16:30	**1169**
16:30–16:45	**1170**

Poster Presentation Schedule

HALL 09 TOPIC: Polymers, Environment and Sustainable Development	
TIME	**PAPER ID**
10:15–10:30	**1252**
10:30–10:45	**1354**
10:45–11:00	**1142**
11:00–11:15	**1310**
11:15–11:30	**1420**
11:30–11:45	**1527**
11:45–12:00	**1675**
12:00–12:15	**1712**
14:00–14:15	**1432**
14:15–14:30	**1642**
14:30–14:45	**1185**
14:45–15:00	**1055**
15:00–15:15	**1151**
15:15–15:30	**1172**
15:30–15:45	**1254**
15:45–16:00	**1380**
16:00–16:15	**1414**
16:15–16:30	**1483**
16:30–16:45	**1592**
16:45–17:00	**1054**

HALL 10 TOPIC: Smart and Functional Polymers	
TIME	**PAPER ID**
10:15–10:30	**1718**
10:30–10:45	**1585**
10:45–11:00	**1177**
11:00–11:15	**1358**
11:15–11:30	**1410**
11:30–11:45	**1542**
11:45–12:00	**1117**
12:00–12:15	**1350**
14:00–14:15	**1499**
14:15–14:30	**1586**
14:30–14:45	**1141**
14:45–15:00	**1237**
15:00–15:15	**1335**
15:15–15:30	**1607**
15:30–15:45	**1719**
15:45–16:00	**1737**
16:00–16:15	**1298**
16:15–16:30	**1339**
16:30–16:45	**1476**
16:45–17:00	**1550**

Poster Presentation Schedule

Wednesday, 18 November 2026

HALL 01 TOPIC: Polymer Blends, Composites, Elastomers and Nanocomposites	
TIME	**PAPER ID**
09:15–09:30	**1109**
09:30–09:45	**1188**
09:45–10:00	**1281**
10:00–10:15	**1429**
10:15–10:30	**1519**
10:30–10:45	**1530**
10:45–11:00	**1538**
11:00–11:15	**1577**
11:15–11:30	**1588**
11:30–11:45	**1660**
11:45–12:00	**1688**
12:00–12:15	**1700**
14:00–14:15	**1337**
14:15–14:30	**1346**
14:30–14:45	**1103**
14:45–15:00	**1009**
15:00–15:15	**1080**
15:15–15:30	**1178**
15:30–15:45	**1180**
15:45–16:00	**1308**
16:00–16:15	**1344**
16:15–16:30	**1377**
16:30–16:45	**1427**
16:45–17:00	**1477**

HALL 02 TOPIC: Polymer Blends, Composites, Elastomers and Nanocomposites	
TIME	**PAPER ID**
09:15–09:30	**1048**
09:30–09:45	**1208**
09:45–10:00	**1652**
10:00–10:15	**1417**
10:15–10:30	**1663**
10:30–10:45	**1082**
10:45–11:00	**1300**
11:00–11:15	**1419**
11:15–11:30	**1042**
11:30–11:45	**1347**
11:45–12:00	**1262**
12:00–12:15	**1563**
14:00–14:15	**1569**
14:15–14:30	**1275**
14:30–14:45	**1107**
14:45–15:00	**1064**
15:00–15:15	**1085**
15:15–15:30	**1502**
15:30–15:45	**1389**
15:45–16:00	**1484**

Poster Presentation Schedule

HALL 03 TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering	
TIME	**PAPER ID**
09:15–09:30	**1197**
09:30–09:45	**1067**
09:45–10:00	**1283**
10:00–10:15	**1313**
10:15–10:30	**1332**
10:30–10:45	**1572**
10:45–11:00	**1111**
11:00–11:15	**1611**
11:15–11:30	**1751**
11:30–11:45	**1684**
11:45–12:00	**1030**
12:00–12:15	**1079**
14:00–14:15	**1106**
14:15–14:30	**1342**
14:30–14:45	**1241**
14:45–15:00	**1058**
15:00–15:15	**1060**

HALL 03 TOPIC: Novel Applications in Polymers	
TIME	**PAPER ID**
15:15–15:30	**1632**
15:30–15:45	**1120**
15:45–16:00	**1147**
16:00–16:15	**1385**

HALL 04 TOPIC: Biopolymers, Biocompatible Polymers and Tissue Engineering	
TIME	**PAPER ID**
09:15–09:30	**1635**
09:30–09:45	**1654**
09:45–10:00	**1655**
10:00–10:15	**1727**
10:15–10:30	**1735**
10:30–10:45	**1754**

HALL 04 TOPIC: Modeling and Simulation	
TIME	**PAPER ID**
10:45–11:00	**1436**
11:00–11:15	**1741**
11:15–11:30	**1112**
11:30–11:45	**1285**
11:45–12:00	**1356**
12:00–12:15	**1373**
14:00–14:15	**1406**
14:15–14:30	**1630**
14:30–14:45	**1155**
14:45–15:00	**1374**
15:00–15:15	**1010**
15:15–15:30	**1043**
15:30–15:45	**1253**
15:45–16:00	**1413**
16:00–16:15	**1250**
16:15–16:30	**1224**
16:30–16:45	**1235**

Poster Presentation Schedule

HALL 05 TOPIC: Resins, Adhesives and Coatings	
TIME	**PAPER ID**
09:15–09:30	**1451**
09:30–09:45	**1653**
09:45–10:00	**1736**
10:00–10:15	**1749**
10:15–10:30	**1101**
10:30–10:45	**1204**
10:45–11:00	**1518**
11:00–11:15	**1633**
11:15–11:30	**1075**
11:30–11:45	**1196**
11:45–12:00	**1238**
12:00–12:15	**1242**
14:00–14:15	**1366**
14:15–14:30	**1433**
14:30–14:45	**1449**

HALL 05 TOPIC: Advanced Polymers with High Added Value	
TIME	**PAPER ID**
14:45–15:00	**1731**
15:00–15:15	**1561**
15:15–15:30	**1319**
15:30–15:45	**1244**
15:45–16:00	**1412**
16:00–16:15	**1130**
16:15–16:30	**1183**
16:30–16:45	**1540**

HALL 06 TOPIC: Resins, Adhesives and Coatings	
TIME	**PAPER ID**
09:15–09:30	**1740**
09:30–09:45	**1755**
09:45–10:00	**1595**
10:00–10:15	**1426**
10:15–10:30	**1454**
10:30–10:45	**1743**

HALL 06 TOPIC: Rheology and Polymer Processing	
TIME	**PAPER ID**
10:45–11:00	**1305**
11:00–11:15	**1395**
11:15–11:30	**1167**
11:30–11:45	**1089**
11:45–12:00	**1068**
12:00–12:15	**1368**
14:00–14:15	**1018**
14:15–14:30	**1524**
14:30–14:45	**1485**
14:45–15:00	**1363**
15:00–15:15	**1409**
15:15–15:30	**1618**
15:30–15:45	**1707**
15:45–16:00	**1746**
16:00–16:15	**1034**
16:15–16:30	**1320**
16:30–16:45	**1431**

Poster Presentation Schedule

HALL 07 TOPIC: Polymer Synthesis and Characterization	
TIME	**PAPER ID**
09:15–09:30	**1582**
09:30–09:45	**1613**
09:45–10:00	**1686**
10:00–10:15	**1289**
10:15–10:30	**1022**
10:30–10:45	**1115**
10:45–11:00	**1163**
11:00–11:15	**1220**
11:15–11:30	**1277**
11:30–11:45	**1325**
11:45–12:00	**1343**
12:00–12:15	**1383**
14:00–14:15	**1610**
14:15–14:30	**1629**
14:30–14:45	**1672**
14:45–15:00	**1694**
15:00–15:15	**1539**
15:15–15:30	**1108**
15:30–15:45	**1160**
15:45–16:00	**1164**
16:00–16:15	**1191**
16:15–16:30	**1214**

HALL 08 TOPIC: Fibers, Films and Polymeric Membranes	
TIME	**PAPER ID**
09:15–09:30	**1447**
09:30–09:45	**1193**
09:45–10:00	**1360**
10:00–10:15	**1415**
10:15–10:30	**1701**
10:30–10:45	**1192**
10:45–11:00	**1194**
11:00–11:15	**1422**
11:15–11:30	**1418**
11:30–11:45	**1425**
11:45–12:00	**1537**
12:00–12:15	**1423**
14:00–14:15	**1687**
14:15–14:30	**1399**
14:30–14:45	**1071**
14:45–15:00	**1270**
15:00–15:15	**1276**
15:15–15:30	**1311**
15:30–15:45	**1397**
15:45–16:00	**1500**
16:00–16:15	**1554**
16:15–16:30	**1658**
16:30–16:45	**1134**

Poster Presentation Schedule

HALL 09 TOPIC: Polymers, Environment and Sustainable Development	
TIME	PAPER ID
09:15–09:30	**1081**
09:30–09:45	**1119**
09:45–10:00	**1056**
10:00–10:15	**1059**
10:15–10:30	**1156**
10:30–10:45	**1157**
10:45–11:00	**1508**
11:00–11:15	**1673**
11:15–11:30	**1747**
11:30–11:45	**1486**
11:45–12:00	**1063**
12:00–12:15	**1206**
14:00–14:15	**1371**
14:15–14:30	**1515**
14:30–14:45	**1599**
14:45–15:00	**1011**
15:00–15:15	**1012**
15:15–15:30	**1027**
15:30–15:45	**1050**
15:45–16:00	**1102**
16:00–16:15	**1161**
16:15–16:30	**1376**
16:30–16:45	**1488**
16:45–17:00	**1490**

HALL 10 TOPIC: Smart and Functional Polymers	
TIME	PAPER ID
09:15–09:30	**1728**
09:30–09:45	**1730**
09:45–10:00	**1097**
10:00–10:15	**1723**
10:15–10:30	**1232**
10:30–10:45	**1247**
10:45–11:00	**1304**
11:00–11:15	**1474**
11:15–11:30	**1580**
11:30–11:45	**1602**
11:45–12:00	**1714**
12:00–12:15	**1351**
14:00–14:15	**1560**
14:15–14:30	**1664**

HALL 10 TOPIC: Artificial Intelligence Applications in Polymers	
TIME	PAPER ID
14:30–14:45	**1556**
14:45–15:00	**1766**
15:00–15:15	**1435**
15:15–15:30	**1041**
15:30–15:45	**1094**
15:45–16:00	**1239**
16:00–16:15	**1402**
16:15–16:30	**1471**
16:30–16:45	**1467**

Poster Presentation Schedule

Thursday, 19 November 2026

HALL 01 TOPIC: Polymer Blends, Composites, Elastomers and Nanocomposites	
TIME	**PAPER ID**
09:15–09:30	**1506**
09:30–09:45	**1603**
09:45–10:00	**1046**

HALL 01 TOPIC: Polymer Physics and Physical Chemistry	
TIME	**PAPER ID**
10:00–10:15	**1552**
10:15–10:30	**1353**
10:30–10:45	**1631**
10:45–11:00	**1685**
11:00–11:15	**1218**
11:15–11:30	**1682**

HALL 02 TOPIC: Polymer Blends, Composites, Elastomers and Nanocomposites	
TIME	**PAPER ID**
09:15–09:30	**1683**
09:30–09:45	**1705**

HALL 02 TOPIC: Polymer Reaction Engineering	
TIME	**PAPER ID**
09:45–10:00	**1667**
10:00–10:15	**1442**

HALL 02 TOPIC: Circular Economy in Polymers	
TIME	**PAPER ID**
10:15–10:30	**1666**
10:30–10:45	**1559**
10:45–11:00	**1136**
11:00–11:15	**1139**
11:15–11:30	

Poster Presentation Schedule

HALL 03 TOPIC: Novel Applications in Polymers	
TIME	**PAPER ID**
09:15–09:30	**1364**
09:30–09:45	**1532**
09:45–10:00	**1357**
10:00–10:15	**1720**
10:15–10:30	**1019**
10:30–10:45	**1348**
10:45–11:00	**1361**
11:00–11:15	**1523**
11:15–11:30	**1558**
11:30–11:45	**1591**
11:45–12:00	**1765**

HALL 04 TOPIC: Modeling and Simulation	
TIME	**PAPER ID**
09:15–09:30	**1260**
09:30–09:45	**1288**
09:45–10:00	**1375**
10:00–10:15	
10:15–10:30	**1732**
10:30–10:45	**1649**
10:45–11:00	**1662**
11:00–11:15	**1699**

HALL 05 TOPIC: Advanced Polymers with High Added Value	
TIME	**PAPER ID**
09:15–09:30	**1234**
09:30–09:45	**1411**
09:45–10:00	**1127**
10:00–10:15	**1258**
10:15–10:30	**1760**
10:30–10:45	**1761**
10:45–11:00	**1762**

HALL 06 TOPIC: Rheology and Polymer Processing	
TIME	**PAPER ID**
09:15–09:30	**1668**
09:30–09:45	**1636**
09:45–10:00	**1006**
10:00–10:15	**1033**
10:15–10:30	**1092**
10:30–10:45	**1396**
10:45–11:00	**1517**

Poster Presentation Schedule

HALL 07 TOPIC: Polymer Synthesis and Characterization	
TIME	**PAPER ID**
09:15–09:30	**1315**
09:30–09:45	**1349**
09:45–10:00	**1465**

HALL 08 TOPIC: Fibers, Films and Polymeric Membranes	
TIME	**PAPER ID**
09:15–09:30	**1416**
09:30–09:45	**1637**

HALL 08 TOPIC: Polymers, Environment and Sustainable Development	
TIME	**PAPER ID**
09:45–10:00	**1209**

HALL 09 TOPIC: Polymers, Environment and Sustainable Development	
TIME	**PAPER ID**
09:15–09:30	**1495**
09:30–09:45	**1571**
09:45–10:00	**1579**
10:00–10:15	**1606**
10:15–10:30	**1184**
10:30–10:45	**1645**
10:45–11:00	**1665**
11:00–11:15	**1674**
11:15–11:30	**1695**
11:30–11:45	**1713**
11:45–12:00	**1757**
12:00–12:15	**1758**

HALL 10 TOPIC: Artificial Intelligence Applications in Polymers	
TIME	**PAPER ID**
09:15–09:30	**1626**
09:30–09:45	**1534**
09:45–10:00	**1638**
10:00–10:15	**1697**
10:15–10:30	**1227**
10:30–10:45	**1716**
10:45–11:00	**1005**
11:00–11:15	**1202**
11:15–11:30	**1317**
11:30–11:45	**1312**
11:45–12:00	**1460**
12:00–12:15	**1334**

Plenary speakers



Presenter: Prof. Hamid Mirzadeh

Professor of Polymer and Color Engineering Department

Amirkabir University of Technology, Tehran, Iran

Special Topic: Advanced Polymers with High Added Value

About Professor Mirzadeh: Hamid Mirzadeh is an Iranian academic and researcher specializing in polymer science, biomedical engineering, and biomaterials. He earned a B.Sc. in Chemistry from Ferdowsi University of Mashhad, an M.Sc. in Polymer Science and Technology from Amirkabir University of Technology, and a Ph.D. in Chemical Engineering from the University of New South Wales, Australia. Since 1994, he has been a professor at Amirkabir University of Technology (Tehran Polytechnic), where he conducts research in biomaterials, tissue engineering, regenerative medicine, and drug delivery systems. He has also served as president of the Iran Polymer and Petrochemical Institute and as editor-in-chief of scientific journals, including Progress in Biomaterials and the Iranian Polymer Journal, contributing to research and academic development in polymer science and biomedical materials.

Title: Iran's Scientific Standing in Global Rankings: The Current Status of Higher Education, Challenges, and Strategies: Emphasizing Polymer Science and Technology

Abstract: This report examines Iran's scientific standing in global rankings, with particular emphasis on the current status of higher education and the challenges and strategic opportunities facing the country's scientific and technological development. Special attention is given to polymer science and technology, a field of strategic importance for industrial growth, innovation, and economic diversification. By assessing Iran's research performance, international scientific competitiveness, and the gap between academic achievements and industrial applications, the report seeks to identify key challenges and propose practical strategies to strengthen research excellence, promote university–industry collaboration, and advance the development of high-value-added specialty polymers and advanced polymeric materials.

Plenary speakers



Presenter: Prof. Farhad Sharif

Professor of Polymer and Color Engineering Department

Amirkabir University of Technology, Tehran, Iran

Special Topic: Artificial Intelligence Applications in Polymers

About Professor Sharif: Farhad Sharif is an Associate Professor in the Department of Polymer and Color Engineering at Amirkabir University of Technology, Iran. He received his B.Sc. in Petrochemical Engineering from Amirkabir University of Technology, his M.Sc. in Chemical Engineering from the University of Toronto, Canada, and his Ph.D. in Chemical Engineering from McMaster University, Canada. His research focuses on polymer nanocomposites, polymer rheology and viscoelasticity, graphene-based materials, conducting polymers, and advanced functional coatings. His work explores the relationships between polymer structure, processing conditions, and material properties, with an emphasis on developing advanced polymeric materials for applications in flexible electronics, energy storage, and functional coatings. Through his research and academic activities, Dr. Sharif contributes to advancing polymer science and engineering and developing innovative materials for emerging technological applications.

Title: The Discipline of Discovery: AI and the Next Generation of Polymer Research

Abstract: This seminar explores how polymer research can become both more effective—by addressing the highest-impact scientific and industrial challenges—and more efficient—by reducing the time, cost, and uncertainty of discovery through AI, structured knowledge, and human expertise. The session will discuss:

- Choosing research that matters—identifying opportunities where scientific gaps intersect with real technological and societal needs.

- Thinking beyond the laboratory—evaluating technical, economic, environmental, and manufacturing feasibility from the outset.

- Why polymers matter—their central role in energy, healthcare, electronics, infrastructure, sustainability, and other technologies shaping the future.

- Organizing knowledge for discovery—from literature and experimental data to FAIR data principles, provenance, and calibrated uncertainty.

Plenary speakers



Presenter: Prof. Farhad Sharif

Professor of Polymer and Color Engineering Department

Amirkabir University of Technology, Tehran, Iran

- AI tools available today—literature mining, property prediction, inverse design, active learning, and experiment planning that can strengthen proposals while reducing experimental effort.

- Planning research intelligently—using AI alongside scientific judgment to estimate project scope, cost, timelines, and risk.

- The emerging ecosystem of AI for polymer science—what today's initiatives are achieving and where the field is heading.

- The irreplaceable role of scientists—asking meaningful questions, exercising critical judgment, and developing the skills that will define the next generation of polymer researchers.



Presenter: Dr. Mohammad Mahdi Hasani-Sadrabadi

Assistant Professor of Mechanical and Aerospace Engineering Department

Cornell University, Ithaca, New York, United States

Special Topic: Circular Economy in Polymers

About Doctor Hasani: Dr. Mahdi Hasani is an Assistant Research Professor in the Sibley School of Mechanical and Aerospace Engineering at Cornell University, where he joined the faculty in July 2024. He previously served as a Project Scientist and Faculty Innovation Fellow at UCLA, developing polymeric biomaterials for immunoengineering and regenerative medicine, with over 12 resulting U.S. patents. He holds two Ph.D. degrees in Polymer Engineering from Amirkabir University of Technology and Mechanical Engineering–Bioengineering from Georgia Tech. His research focuses on immunomodulatory biomaterials and advanced drug delivery systems for cancer therapy, infectious diseases, autoimmune conditions, and tissue regeneration.

Title: Polymers to Train Immunity

Abstract: My research focuses on the design and development of biologically inspired immunomodulatory biomaterials. My work concentrates on engineering advanced drug delivery systems for cancer therapy, infectious diseases, autoimmune conditions, and tissue regeneration. Additionally, my group explores innovative engineering platforms aimed at rejuvenating the immune system.

The immune system is one of the most powerful tools for treating disease, yet it remains difficult to control. Most immune therapies act broadly throughout the body, which limits their benefit and causes side effects. This talk will show how natural and synthetic polymers can be designed to “train” immune cells by mimicking the signals they naturally receive in the body, delivered at the right place and time.

The first part of the talk will focus on artificial immune cells with tunable size, stiffness, surface chemistry, and controlled release. These particles act as artificial antigen-presenting cells that activate and expand T cells for cell-based cancer therapies and vaccines. The second part will focus on lymph node-mimicking biomaterials. Inspired by the structure and mechanics of the lymph node, where T cells are naturally trained, porous polymer scaffolds are implanted next



Presenter: Dr. Mohammad Mahdi Hasani-Sadrabadi

Assistant Professor of Mechanical and Aerospace Engineering Department

Cornell University, Ithaca, New York, United States

to tumors to recruit and activate immune cells locally, leading to tumor regression and long-lasting protection in preclinical models.

Finally, the talk will discuss how these same design principles can be extended to infectious diseases, tissue regeneration, autoimmune conditions, and restoring immune function in aging. Together, these examples show how polymer chemistry, mechanics, and architecture can be used as tools to direct the immune system toward healing.

Keynote Speakers



Presenter: Prof. Najem Abdulkadhim Al-Rubaiey

Professor of Oil and Gaz Engineering College

University of Tecnology, Baghdad, Iraq

Seminar Topic: Artificial Intelligence Applications in Polymers

Title: Artificial Intelligence and Advanced Polymeric Nanocomposites: Emerging Opportunities for Corrosion Protection and Environmental Sustainability

Abstract: Advanced polymeric nanocomposites are gaining increasing attention as promising materials for corrosion protection and environmental sustainability. Incorporating nanoscale additives into polymer matrices can improve barrier properties, mechanical performance, and resistance to aggressive industrial environments. However, selecting suitable polymers, nanomaterials, and formulation conditions remains challenging because material performance depends on several interacting factors. This keynote will discuss emerging opportunities for integrating artificial intelligence (AI) with the development and evaluation of advanced polymeric nanocomposites. Particular attention will be given to the potential of machine-learning approaches to identify relationships between material composition, processing conditions, exposure environments, and protective performance. These approaches may support more efficient material screening, performance prediction, and formulation optimization while reducing reliance on extensive trial-and-error experimentation. The presentation will also explore the application of nanocomposite coatings in corrosion mitigation and the wider environmental implications of improved material durability, lower maintenance requirements, and more efficient resource use. Selected examples from the published literature will illustrate current progress, practical limitations, and research needs, including data quality, model interpretability, experimental validation, and long-term performance. Finally, the keynote will outline a practical research direction for combining experimental materials science with data-driven methods to accelerate the design of reliable and sustainable protective coatings. The emphasis will be on opportunities and challenges rather than claims of demonstrated performance for any specific AI-designed coating.

Keynote Speakers



Presenter: Prof. Mostafa Rezaei

Professor of Polymer Engineering Faculty

Sahand University of Technology, Tabriz, Iran

Seminar Topic: Circular Economy in Polymers

Title: From Chemorheological Fundamentals to Industrial Scale-Up: Engineering Reaction Kinetics for TPU Production

Abstract: Bridging the gap between fundamental laboratory synthesis and continuous industrial manufacturing remains a critical challenge in thermoplastic polyurethane (TPU) technology. This presentation outlines a comprehensive approach to thermoplastic polyurethane (TPU) reactions, transitioning from chemorheological fundamentals to a commercial 1 t/day production plant. By utilizing isothermal oscillatory rheometry and the Kamal-Sourour kinetic model, we analyze the autocatalytic behavior, activation energy, and viscosity evolution during the polymerization of polyester-based TPUs. The effects of chemical microstructure specifically the choice of different isomers of diisocyanates, hard segment content (HSC) and hydrogen-bonding index (HBI) on the reaction rates and phase separation are systematically evaluated. Finally, we demonstrate how translating these kinetic insights into pilot and industrial-scale operations eliminates thermal runaways, optimizes production technology, and ensures precise mechanical customization for high-performance engineering applications.



Presenter: Prof. Mehdi Razzaghi-Kashani
Professor of Polymer Engineering Department
Tarbiat Modares University, Tehran, Iran

Seminar Topic: Polymer Blends, Composites, Elastomers and Nanocomposites

Title: Environmental Concerns of Tire Wear Particles and the Controlling Parameters

Abstract: There is a serious concern about environmental pollution (water, soil, and air) of tire wear particles (TWP) and their entry into the human food chain. At the micrometer scale, these particles are considered as microplastics, and strict regulations have been established internationally to control them. The tire wear rate and the characteristics of these particles are functions of the abrasive surface roughness (road), the frictional energy intensity, and the rubber compound formulation of the tire tread. To control the wear rate and reduce the dispersion of worn particles in the environment, attention to road surface quality and the rubber compound design of the tire tread is important. The tire wear mechanism is mainly of the fatigue type at low intensities and the abrasive type at high intensities. It is shown that the type of elastomer, elastomer blending, the type and characteristics of the filler, and the use of secondary nanofillers are effective in controlling the wear rate. On the other hand, there is an optimal roughness for the abrasive surface at low frictional energy intensity, which shows a minimum wear rate and should be taken into account in the design of road surfaces in the real tire application and abrasive surfaces in the laboratory.



Presenter: Prof. Ahamadreza Bahramian
Professor of Polymer Engineering Department
Tarbiat Modares University, Tehran, Iran

Seminar Topic: Polymer Blends, Composites, Elastomers and Nanocomposites

Title: Polymeric Aerogels and Phase Change Materials for Advanced Thermal Energy Management: Insulation, Storage, and Thermal Protection

Abstract: Thermal energy management, particularly through heat transfer reduction, energy storage, and intelligent temperature regulation, represents a major research area in the development of advanced materials for industrial, building, and thermal protection applications. In this context, polymeric aerogels and phase change materials (PCMs), owing to their unique properties, offer considerable potential for the design of advanced thermal management systems. Research in this field has focused on the development of phenolic and novolac aerogels, carbon-based aerogels, and graded porous structures to precisely control heat transfer and improve the performance of thermal insulation materials. Investigating the effects of structural parameters, pore size and distribution, porosity, and morphology on thermal conductivity is among the key approaches in the engineering of these materials. On the other hand, the development of PCM-based composites, particularly those incorporating paraffin and polyethylene glycol (PEG), using polymeric matrices, expanded graphite, and novolac aerogels, provides opportunities for controlled thermal energy storage and release. In these systems, dimensional stabilization of the PCMs, prevention of leakage during melting, enhancement of cycling stability, and improvement of heat transfer are among the major design challenges. Furthermore, the application of PCM micro- and nanocapsules with polymeric shells represents an effective strategy for enhancing material stability and expanding their applications in heat transfer fluids and temperature management systems.The integration of thermally insulating aerogels with PCMs provides opportunities for developing multifunctional materials capable of simultaneously reducing heat loss and storing thermal energy. These technologies offer promising prospects for optimizing energy consumption, developing smart thermal insulation materials, protecting equipment against thermal loads, and improving energy efficiency in industrial and building applications.

Keynote Speakers



Presenter: Dr. Shahriar Hojjati Emami

Associate professor of Biomedical Engineering

Amirkabir University of Technology, Tehran, Iran

Seminar Topic: Polymer Blends, Composites, Elastomers and Nanocomposites

Title: Chemical mechanism prediction unravels multiple macromolecular outcomes from free-radical reactions

Abstract: Molecular-level reactions predominantly dictate all macro-level properties in the materials world. Understanding nano-level molecular reactions opens up the door to grasping how bottom-up building blocks lead to novel molecules and thus materials. Here, free radicals from the thermal decomposition of peroxide molecules were pursued to explore different plausible reactions with polyethylene oxide as a macromolecular polymer model. Many chemical compounds with different functional groups, such as acetals or hemiacetals, alkoxy ethers, geminal diols, aldehydes, ketenes and orthoesters, were detected. An important observation was chain scission due to tertiary radical formation that created oligomers with carboxylic end groups, a plausible sign of the deterioration of the final product's mechanical properties. Additionally, theoretical prediction enhanced our understanding of intermediate outcomes and revealed hydrogels with the potential to degrade in dilute acids due to vulnerable acetal, hemiacetal or orthoester functional groups, with profound effects on the macroscopic-level properties.



Presenter: Dr. Mohammadreza Nofar

Associate Professor of Metallurgical & Materials Engineering Department

Istanbul Technical University, Istanbul, Turkey

Seminar Topic: Polymer Blends, Composites, Elastomers and Nanocomposites

Title: Enhancing Compatibilization Efficiency and Recyclability in Droplet–Matrix Polymer Blends

Abstract: Plastics are versatile materials widely used in industries such as packaging, automotive, electronics, and healthcare due to their lightweight nature, durability, and ease of processing. However, their widespread use and predominantly petroleum-based origins pose significant environmental challenges, making recycling a critical strategy for mitigating their environmental impact. The growing consumption of plastics, particularly in commodity applications, has further highlighted the need for effective and sustainable recycling approaches. In this study, the reactivity of Joncryl, a chain extender commonly used in polymer recycling, with polylactide (PLA) and polybutylene adipate terephthalate (PBAT) was investigated under varying melt-processing times and temperatures. Small-amplitude oscillatory shear (SAOS) rheology was employed to assess the extent of reaction between Joncryl and each polymer. The results revealed that Joncryl exhibited substantially higher reactivity with PLA across a range of processing times, whereas its reaction with PBAT was slower and strongly time-dependent. Processing temperature also significantly influenced the reactivity of Joncryl with both polymers. These differences in reaction kinetics suggest a potential strategy for the multi-recycling of PLA/PBAT blends. To investigate this approach, PBAT was first modified with Joncryl and subsequently blended with PLA during repeated melt-processing cycles using different mixing strategies. Rheological analyses, including frequency and time sweeps, were conducted to evaluate the evolution of the blends' viscoelastic properties during reprocessing. The results indicated that Joncryl initially incorporated into the PBAT phase could become available to react with PLA during subsequent processing, enhancing the blends' viscoelastic properties. This approach offers a potential route to improving the recyclability of PLA/PBAT blends over multiple recycling cycles while reducing the need for additional additives during reporocessing.



Presenter: Prof. Hamid Garmabi

Professor of Polymer and Color Engineering Department

Amirkabir University of Technology, Tehran, Iran

Seminar Topic: Polymer Blends, Composites, Elastomers and Nanocomposites

Title: Morphology Engineering of PLA-Based Blends for Enhanced Oxygen Barrier Performance

Abstract: Growing environmental concerns regarding the accumulation of non-biodegradable plastic waste and the depletion of fossil resources have increased interest in biodegradable polymers derived from renewable resources, particularly polylactic acid (PLA). PLA has attracted considerable attention in various industries, especially food packaging. However, its relatively poor oxygen barrier properties and certain mechanical limitations restrict its wider application. Blending PLA with barrier polymers, such as polyamide 6 (PA6) and ethylene–vinyl alcohol copolymer (EVOH), is a promising approach to overcoming these limitations.

In this study, the oxygen barrier performance of PLA was investigated by controlling the morphology of PLA-based blends containing different concentrations of PA6 or EVOH as dispersed phases. Various types and concentrations of compatibilizers were employed to improve interfacial interactions and promote the development of desired morphologies. Particular attention was given to the formation of a laminar morphology, which can enhance barrier performance by increasing the tortuosity of gas diffusion pathways. The effects of blend composition and compatibilization on morphology, mechanical properties, particularly toughness, and oxygen permeability were examined. Electron microscopy observations revealed the formation of well-developed laminar structures, while oxygen and solvent permeability measurements confirmed the effectiveness of these structures in improving barrier performance. Furthermore, the rheological behavior and crystallinity of the blend components were investigated to better understand their influence on morphology development and barrier properties.



Presenter: Dr. Mohammad Mahdi Abolhasani

Associate Professor of Chemical Engineering Department

Kashan University, Kashan, Iran

Seminar Topic: Biopolymers, Biocompatible Polymers and Tissue Engineering

Title: Biopolymers and Biocompatible Polymers in Nanogenerators: From Energy Harvesting to Biomedical Sensing and Electrical Stimulation

Abstract: The development of biocompatible, flexible, and sustainable polymeric materials has opened new avenues for converting mechanical energy into electrical signals and utilizing them in biomedical technologies. Piezoelectric and triboelectric nanogenerators, which convert mechanical stimuli such as body movements and physiological activities into electrical energy, offer opportunities not only for powering sensors and implantable devices but also for developing sensing platforms and localized electrical stimulation systems. This keynote will review major developments and landmark advances in the field, highlighting materials design, polymer-based nanogenerators, and their emerging biomedical applications.

The presentation will first examine the evolution of electroactive polymeric materials and key strategies for improving nanogenerator performance, including crystalline-structure engineering, morphology control, porosity development, and nanostructure design. Representative studies from our group on piezoelectric nylon-11 nanofibers and hierarchically structured porous polymer fibers will then be discussed. The transition from materials engineering to biomedical applications will be illustrated through an implantable piezoelectric polymer nanogenerator. In this study, the device was evaluated following implantation on the ventricular surface in a large-animal model to investigate the feasibility of harvesting mechanical energy from cardiac activity and utilizing it to power cardiac pacemakers, with potential relevance to patients with cardiac arrhythmias.

Another research direction concerns the development of biodegradable triboelectric nanogenerators based on biopolymers such as poly(vinyl alcohol) (PVA), chitosan, and poly(lactic acid) (PLA). In parallel, the engineering of functional polymer nanocomposites,



Presenter: Dr. Mohammad Mahdi Abolhasani
Associate Professor of Chemical Engineering Department
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including the incorporation of cellulose nanocrystals into electroactive PVDF matrices, provides an approach to integrating bio-derived nanomaterials with electroactive polymers.

Beyond energy harvesting, the conversion of mechanical deformation into electrical cues offers opportunities for developing piezoelectric polymer scaffolds. Given the role of electric fields in cellular behavior and tissue repair, the potential of such electroactive scaffolds for tissue engineering and wound-healing applications will be discussed, with particular attention to polymer nanocomposites and their biocompatibility. Finally, emerging opportunities at the interface of nanogenerators and artificial intelligence will be explored, including the analysis of movement-related electrical signals and the identification of distinct motion patterns, such as Parkinsonian-like movements.

Keynote Speakers



Presenter: Prof. Asra Ali Hussein

Professor of Polymer and Petrochemical Engineering Department

Babylon University, Babylon, Iraq

Seminar Topic: Biopolymers, Biocompatible Polymers and Tissue Engineering

Title: Biopolymers: From Sustainable Materials to Advanced Biomedical Applications

Abstract: Biopolymers have attracted increasing scientific and industrial interest as promising materials for sustainable development and advanced biomedical applications. Their diverse chemical structures, functional groups, and tunable physicochemical properties provide opportunities to develop materials with improved functionality, environmental compatibility, and biological performance. This seminar presents an overview of the classification, properties, processing, and applications of biopolymers, focusing on natural polymers such as cellulose, chitosan, starch, and collagen, as well as biodegradable synthetic polymers, including polylactic acid (PLA) and polycaprolactone (PCL), and biologically produced polyhydroxyalkanoates (PHAs). Particular attention is given to biomedical applications, including controlled drug delivery, tissue engineering, wound dressings, surgical sutures, and three-dimensional (3D) printing. The potential of polymer blending, crosslinking, and nanocomposite technologies to enhance mechanical strength, thermal stability, degradation behavior, and biological functionality is also discussed. Furthermore, the seminar highlights major challenges associated with biopolymer development, including the balance between mechanical performance and biodegradability, processing limitations, variability in material properties, and the need for comprehensive biological safety evaluation. Emerging research directions, such as smart biomaterials, multifunctional composites, sustainable feedstocks, and advanced manufacturing techniques, are considered in the context of future material development. Overall, this seminar emphasizes the importance of understanding structure–property–function relationships to design biopolymers that meet specific environmental, engineering, and biomedical requirements. The integration of materials science, biological evaluation, and sustainable processing is essential for advancing biopolymers from laboratory research toward practical and clinically relevant applications.



Presenter: Dr. Mohammad Bayat

Senior Research Scientist of Price Institute of Surgical Research

University of Louisville and Noveratech LLC, Louisville, United States

Seminar Topic: Biopolymers, Biocompatible Polymers and Tissue Engineering

Title: Advanced Biomaterial Scaffolds and Cell-Free Nanotherapeutics for Complex Bone Defects: Current Paradigms and Future Directions

Abstract: This review comprises three sections: (1) updated scaffold strategies for large and ischemic bone defects, (2) previous investigations by Dr. Bayat's group, and (3) novel designs for upcoming projects utilizing adipose-derived stem cell (ADSC) exosomes, quercetin nanoparticles, and hydrogels.

Section 1: Scaffolds for Large and Ischemic Bone Defects

Critical-size and ischemic bone defects demand scaffolds matching native mechanics—possessing compressive strengths of 2–200 MPa and a Young's modulus of 0.1–20 GPa—alongside high interconnected macroporosity (200–500 μm) for cellular infiltration. Treating ischemic defects requires active revascularization strategies, including co-culture systems, regulated pro-angiogenic factor delivery (e.g., VEGF), and bioactive ion modifications to prevent core necrosis.

Section 2: Previous Investigations by Dr. Bayat

Preclinical studies by Dr. Bayat and colleagues evaluated blood clots(2008), photobiomodulation (PBM at 890 nm in vivo / 810 nm in vitro), ADSCs, preconditioned ADSCs, human decellularized and mineralized placental matrix scaffolds (hDMPMS), and human demineralized bone matrix (hDBM) in healthy and ovariectomized (OVX) osteoporotic rat critical-sized femoral defect (CSFD) models. These combinatory protocols significantly enhanced biomechanical strength, trabecular bone volume, and Hounsfield density across normal, osteoporotic, and diabetic models by upregulating osteogenic markers and signaling axes (miR-21, miR-26a, RUNX2, BMPs, and SDF-1).



Presenter: Dr. Mohammad Bayat

Senior Research Scientist of Price Institute of Surgical Research

University of Louisville and Noveratech LLC, Louisville, United States

Section 3: Novel Scaffolding Strategies for Upcoming Projects

To overcome rapid therapeutic clearance and oxidative stress, upcoming research proposes a dual-delivery core-shell architecture. This integrates a rigid 3D-printed porous framework (such as polycaprolactone/nano-hydroxyapatite) for mechanical stability with an optically translucent injectable hydrogel matrix like gelatin methacryloyl. This hydrogel serves as an optimal substrate for the sustained release of ADSC-exosomes and quercetin nanoparticles. Quercetin scavenges reactive oxygen species to mitigate ischemic oxidative stress, while exosomal cargo promotes localized angiogenesis and osteogenesis to accelerate fracture healing.



Presenter: Prof. Hamid Yeganeh

Professor of Polymer Science Faculty

Iran Polymer and Petrochemical Institute, Tehran, Iran

Seminar Topic: Biopolymers, Biocompatible Polymers and Tissue Engineering

Title: From Polyurethane Nanocarriers to Sustainable Non-Isocyanate Polyurethanes: Targeted and Stimuli-Responsive Platforms for Cancer Therapy

Abstract: Developing polymeric nanocarriers that selectively deliver anticancer therapeutics to tumor tissues is an important strategy for improving chemotherapy efficacy while reducing systemic toxicity. Polyurethanes are attractive because their molecular architecture can be tailored to control amphiphilicity, self-assembly, drug loading, surface functionality, and responsiveness to biological stimuli. Our research has explored polyurethane-based nanocarriers as multifunctional platforms for targeted cancer therapy, progressively incorporating active targeting, stimuli responsiveness, and, most recently, non-isocyanate polyurethane (NIPU) chemistry.

Our earlier studies established soybean oil-derived NIPU ionene nanocarriers as versatile cancer therapy systems. These cationic carriers efficiently incorporated 5-fluorouracil and showed intrinsic anticancer activity, while folic acid functionalization enhanced tumor cell recognition via folate receptor-mediated uptake. We then extended this concept to hyaluronic acid-functionalized NIPU ionene nanoparticles for STAT3 siRNA delivery, demonstrating enhanced cellular internalization and tumor accumulation through CD44-mediated targeting. In parallel, redox-responsive waterborne polyurethane nanomicelles were developed for doxorubicin delivery. Disulfide-containing structures enabled glutathione-triggered destabilization and intracellular drug release, while hyaluronic acid improved cancer cell uptake.

This presentation will focus on our most recent advance: amphiphilic NIPU nanocarriers integrating active targeting and intracellular stimuli responsiveness within one platform. The NIPU is synthesized via cyclic carbonate/amine chemistry, avoiding toxic isocyanates. Folic acid serves as an active targeting ligand, while cystamine-derived disulfide linkages provide



Presenter: Prof. Hamid Yeganeh

Professor of Polymer Science Faculty

Iran Polymer and Petrochemical Institute, Tehran, Iran

glutathione-responsive degradation. The resulting NIPU self-assembles into nanoscale carriers that efficiently encapsulate doxorubicin. These carriers exhibit high drug-loading and encapsulation efficiencies, pronounced redox responsiveness, and enhanced uptake and cytotoxicity in folate receptor-positive cancer cells.

We will discuss how polymer architecture, surface functionality, active targeting, and tumor-associated stimuli can be rationally integrated to construct next-generation nanocarriers. Emphasis will be placed on the relationship between NIPU molecular design, self-assembly, folate-mediated targeting, glutathione-triggered destabilization, intracellular drug release, and anticancer performance. Finally, opportunities and remaining challenges for translating sustainable NIPU-based nanomedicine toward clinically relevant cancer therapy will be discussed.



Presenter: Prof. Ahmad Ramazani Saadatabadi

Professor of Chemical and Petroleum Engineering Department

Sharif University of Technology Tehran, Iran

Seminar Topic: Biopolymers, Biocompatible Polymers and Tissue Engineering

Title: Preparation and Investigation on Anticancer Efficiency of Injectable Hyaluronic Acid Hydrogel Containing Fucoidan-Chitosan and Magnesium Oxide Nanoparticles

Abstract: Injectable hydrogels have recently gained wide usages in health and beauty, with new applications emerging continually. One promising avenue is the application of injectable hydrogel systems to treat patients with various cancers and improve their quality of life. Breast cancer remains among the most common malignancies and a leading cause of cancer-related death among women, driving ongoing interest in novel therapeutic strategies. Actually, nanoparticles loaded into hydrogels offer a promising approach for targeted delivery and sustained drug release. In this study, two type hydrogel formulations were produced, encapsulating fucoidan/chitosan nanoparticles and magnesium oxide nanoparticles within a hyaluronic acid hydrogel. Their injectability and efficacy against cancerous cells were examined using 4T1 breast cancer cells and the MTT assay. Both formulations inhibited cancer cell growth in a dose-dependent manner, particularly in combination with mitomycin C. In in vivo experiments, using Balb/c mouse models, Ki-67 staining revealed marked destruction or reduction of tumor cells in the nanoparticle-hydrogel groups compared with controls, suggesting that both magnesium oxide and fucoidan/chitosan nanoparticles may serve as potential, safe alternative agents for the treatment of human breast can



Presenter: Prof. Mehdi Salami-Kalajahi
Professor of Polymer Engineering Faculty
Sahand University of Technology, Tabriz, Iran

Seminar Topic: Polymers, Environment and Sustainable Development

Title: Engineering Polymer Architectures for Sustainable Energy Technologies

Abstract: Polymers have traditionally been regarded as passive materials whose properties are largely determined by their chemical composition and morphology. Recent advances in polymer chemistry, however, are transforming this paradigm by enabling the design of intelligent polymer architectures capable of responding dynamically to environmental, mechanical, thermal, chemical, and electrochemical stimuli. Such adaptive behavior opens new opportunities for developing functional materials that can actively regulate their properties rather than simply provide structural support. In this keynote, I will discuss our recent research efforts toward molecular and architectural engineering of functional polymers, with particular emphasis on polymer electrolytes, polymer–nanomaterial interfaces, and sustainable polymer systems. The presentation will highlight how molecular interactions, dynamic bonding, network architecture, ion–polymer coordination, and interfacial engineering can be exploited to control transport, mechanical integrity, responsiveness, and long-term stability. A major focus will be placed on the emerging role of polymers in electrochemical energy storage. Examples involving lithium- and potassium-ion batteries will illustrate how polymer architectures can be engineered as solid and gel electrolytes, binders, and interfacial materials to improve ion transport, mechanical stability, safety, and electrochemical durability. Particular attention will be given to bio-based and cellulose-derived polymers as pathways toward more sustainable and multifunctional energy-storage technologies.



Presenter: Prof. Sanaa.a.hafad

Professor of Environmental Research Centre

University of Technology, Baghdad, Iraq

Seminar Topic: Polymers, Environment and Sustainable Development

Title: Evaluating the life cycle and biodegradability performance of biodegradable polymer/polyethylene blend membranes: Towards a sustainable environment

Abstract: Today, our planet faces a critical environmental tipping point, driven largely by the accumulation of traditional plastic waste. Polyethylene (**PE**), while indispensable to modern industry, persists in our ecosystems for centuries. It is this urgent challenge that brings us to the core of our discussion today: **"Evaluating the Life Cycle and Biodegradability Performance of Biodegradable Polymer/Polyethylene Blend Membranes: Towards a Sustainable Environment."**

The essence of this research goes beyond simply introducing a new material; it provides a comprehensive, rigorous framework based on two fundamental pillars:

First, Life Cycle Assessment (LCA): We evaluated the environmental footprint of these blend membranes using a holistic "cradle-to-grave" approach. Our analysis did not merely focus on end-of-life disposal, but strictly measured energy consumption and carbon emissions during the manufacturing phase, benchmarking them directly against conventional plastics.

Second, Biodegradability and Mechanical Performance: We tested these membranes under real-world conditions, including controlled industrial composting and soil environments. Our goal was to monitor how the integrated biopolymers catalyze the breakdown of the remaining polyethylene matrix. Crucially, we ensured that this accelerated degradation does not compromise the mechanical durability, tensile strength, and flexibility required for commercial packaging and industrial applications.



Presenter: Prof. Sanaa.a.hafad

Professor of Environmental Research Centre

University of Technology, Baghdad, Iraq

Our investigations yielded **three key findings**:

Carbon Footprint Reduction: The LCA data demonstrated a significant decrease in greenhouse gas emissions compared to pure, fossil-based polyethylene.

Accelerated Degradation: The biodegradable polymers act as localized triggers. Microorganisms consume these bio-segments first, mechanically weakening the membrane and fracturing the remaining PE structure to accelerate its breakdown.

Optimized Material Parity: The developed blends successfully maintained high-tier mechanical properties, proving they can seamlessly replace standard plastics without a drop in industrial performance.

Distinguished guests, These blend membranes offer a **practical, scalable bridge** toward a circular economy. However, turning this science into a global solution requires a unified effort from researchers, investors, and policymakers. We must continue advancing polymer compatibility research, while simultaneously building the industrial composting infrastructure necessary to process these materials at scale.

Let us collaborate to transform this research into actionable climate solutions, safeguarding our environment for generations to come.



Presenter: Dr. Omid Moini Jazani

Associate Professor of Chemical Engineering Department
University of Isfahan, Tehran, Iran

Seminar Topic: Polymer Physics and Physical Chemistry

Title: A new platform for designing high-performance epoxy film adhesive with UiO-66 and amine-functionalized UiO-66 in aluminum- aluminum bonded joints

Abstract: Epoxy-based structural adhesives are widely utilized in aerospace, automotive, and civil engineering fields owing to their exceptional adhesion to various substrates, high chemical resistance, and superior mechanical strength. However, their widespread industrial application is severely restricted by their inherent brittleness, low fracture toughness, and susceptibility to crack propagation under service loads. To address these limitations, this study presents a novel high-performance epoxy/novolac film adhesive reinforced with pristine UiO-66 and amine-functionalized UiO-66 (NH_2-UiO-66) metal-organic framework (MOF) nanoparticles at various loadings. The structural and morphological properties of the synthesized nanoparticles were comprehensively verified using FTIR, XRD, and TEM analyses. The film adhesives were fabricated using a precise solvent casting method with a carrier fabric to maintain a uniform 0.25 mm bondline thickness, followed by a two-stage curing profile. FESEM and elemental mapping results demonstrated that amine-functionalization significantly improves nanoparticle dispersion and interfacial adhesion within the polymer matrix compared to pristine UiO-66, largely preventing agglomeration. Mechanical testing revealed that incorporating an optimal loading of 0.5 phr NH_2-UiO-66 dramatically enhances the adhesive performance: the ultimate tensile strength, fracture toughness, lap shear strength, and T-peel strength improved by 97%, 317%, 52%, and 87%, respectively, compared to the neat epoxy adhesive. Furthermore, DSC analysis revealed that incorporating NH_2-UiO-66 accelerates the curing kinetics and substantially increasing the reaction enthalpy which confirms enhanced polymerization and a significantly higher degree of cross-linking density. TGA analysis demonstrated that the optimal nanocomposite exhibits superior thermal stability, significantly increasing the initial thermal decomposition temperature compared to the neat epoxy.



Presenter: Dr. Hossein Boohendi

Associate Professor of Petrochemicals Faculty

Iran Polymer and Petrochemical Institute, Tehran, Iran

Seminar Topic: Polymer Synthesis and Characterization

Title: Pore Formation and Wetting Dynamics in Precipitation and Dispersion Polymerization of Crosslinked Poly(acrylic acid)

Abstract: This study investigates the porous structure and wetting behavior of crosslinked poly(acrylic acid) (PAA) microgels prepared by precipitation and dispersion polymerization in toluene. The effects of particle nucleation, growth, and aggregation on pore formation were evaluated using nitrogen adsorption–desorption analysis, BET, and DFT methods. The results revealed hierarchical porous structures with H3-type hysteresis loops in both systems, indicating the presence of pores with different sizes and geometries. The relationship between pore structure and wetting behavior was further examined. The results showed that accessible pores facilitate water penetration into the particles; however, wetting time is also influenced by network swelling and gel blocking.

Keynote Speakers



Presenter: Prof. Mahdi Abdollahi

Professor of Polymer Reaction Engineering Department

Tarbiat Modares University, Tehran, Iran

Seminar Topic: Polymer Synthesis and Characterization

Title: Advances in Non-Functional Low Molecular Weight Liquid Polybutadiene: Synthesis and Molecular Architecture

Abstract: Non-functional liquid polybutadiene (LqBR) represents an important class of low-molecular-weight synthetic rubbers with considerable potential in the development of advanced polymeric materials. Owing to their tunable molecular weight, adjustable microstructure, low viscosity, and high chemical reactivity associated with the unsaturated polymer backbone, these materials offer attractive opportunities for applications in tire industry, polyurethane systems, adhesives, sealants, coatings, and polymer modification.

This keynote presentation focuses on the synthesis and comprehensive characterization of non-functional liquid polybutadiene, with particular emphasis on catalyst-mediated polymerization of 1,3-butadiene. Special attention will be given to nickel-based catalytic systems, particularly nickel acetylacetonate/ ethylaluminum sesquichloride ($Ni(acac)_2$/EASC), as an effective catalytic approach for controlling polymer properties under relatively mild polymerization conditions.

Furthermore, the relationships between polymerization conditions and the resulting cis-1,4, trans-1,4, and 1,2-vinyl microstructures will be examined, together with their effects on molecular characteristics. Advanced characterization techniques, including Fourier-transform infrared spectroscopy (FTIR), nuclear magnetic resonance (NMR), gel permeation chromatography (GPC), and thermal analysis, will be highlighted for establishing reliable structure–property correlations.

Overall, this presentation aims to provide insights into the catalytic design, synthesis strategies, and molecular engineering of non-functional liquid polybutadiene as a versatile platform for advanced polymer applications.

Keynote Speakers



Presenter: Prof. Mehdi Nekoomanesh

Professor of Polymer Science Faculty

Iran Polymer and Petrochemical Institute, Tehran, Iran

Seminar Topic: Polymer Synthesis and Characterization

Title: Ionic Environments in $AlCl_3$ Mediated Polymerization

Abstract: Ionic additives provide a versatile means of modifying the reaction environment in Lewis acid mediated cationic polymerization. This keynote brings together five studies conducted between 2022 and 2026 on $AlCl_3$ based polymerization of isobutylene and Raffinate-1. The investigated architectures include molecular and polymeric ionic liquids, halloysite and boehmite supported ionic systems, supported dendritic structures, and sulfonated polyvinylimidazole. Gel permeation chromatography, nuclear magnetic resonance spectroscopy, viscosity measurements, and density functional theory calculations are considered together to relate ionic architecture to polymer properties.

Selected supported and polymeric formulations reduced $AlCl_3$ loading by approximately 30–50% relative to their respective reference systems while retaining useful polymer yields. Their effects on molar mass, dispersity, and chain-end composition were formulation dependent. Dendritic systems increased kinematic viscosity but lowered viscosity index. A polymeric chloride formulation favored low-exo chain ends at a substantial yield penalty, whereas sulfonated polyvinylimidazole increased molar mass and viscosity together with broader dispersity and greater chain-end reactivity. Computational analyses suggest that association with $AlCl_3$ and accessibility of the reactive environment jointly influence the balance between chain growth, transfer, and termination.

The findings are discussed alongside independent literature on ionic and supported initiating systems. The resulting perspective emphasizes product-specific formulation design rather than a universal optimum. Matched-condition comparisons and application testing remain essential for translating these results into predictive synthesis strategies.



Presenter: Prof. Hossein Roghani-mamaqani
Professor of Polymer Engineering Faculty
Sahand University of Technology, Tabriz, Iran

Seminar Topic: Smart and Functional Polymers

Title: Advanced anticounterfeiting polymer inks

Abstract: Smart polymers have attracted considerable attention in the field of anticounterfeiting. Since conventional anticounterfeiting inks can easily be copied and reproduced over time, there is a growing need for more advanced inks. This presentation focuses on new mechanisms used in advanced anticounterfeiting inks, including Förster resonance energy transfer, charge and electron transfer, aggregation-induced emission, phase separation, white-light emission, double encryption, and unclonable inks. The working mechanisms, chromic and luminescent properties, and preparation methods of these materials are also discussed, highlighting their potential applications in security technologies. Polymers are particularly promising for anticounterfeiting applications because of their versatility and their ability to incorporate different functional properties. They can provide improved reusability, longer service life, high photostability, and easy application on various substrates. This presentation also discusses advanced strategies, such as dynamic encryption, double encryption, and unclonable anticounterfeiting, which can help prevent forgery and protect valuable documents and luxury products through the use of polymer-based high-security inks. Finally, the effective application of these inks to different substrates remains an important challenge. Among the available techniques, printing has received considerable attention because it is simple, highly productive, reproducible, and capable of providing precise patterns and information on different substrates.



Presenter: Prof. Naser Mohammadi

Professor of Polymer and Color Engineering Department

Amirkabir University of Technology, Tehran, Iran

Seminar Topic: Fibers, Films and Polymeric Membranes

Title: The fiber Drawability- precursor morphology correlation of gel spun ultra-high molecular weight polyethylene (UHMWPE)

Abstract: Ultra-high molecular weight polyethylene (UHMWPE) has emerged as one of the most consequential developments in semi crystalline polymer science, represented not merely by its extraordinarily high molecular mass but by the profound manner in which the chain architecture reshapes its entanglement density, crystallization kinetics, and deformation habits. Four stearic acid solutions containing 10 up to 20 vol. % UHMWPE were gel-spun and drawn after room temperature solid solvent extraction using diethyl ether followed by isopropanol. The precursor solutions represented the chain relaxation times of 0.04 and 125.66 seconds depending on the polymer concentration. The tensile strength, modulus and strain of spun porous fibers out of 17 vol. % UHMWPE precursor solution were extracted as 0.25 GPa, 2.4 GPa and 225%, respectively. The corresponding drawn fiber characteristics were enhanced to 0.75 GPa, 10.1 GPa and 90% after a mild drawing (1.5 times) leaving 46% of porosity leading to much higher specific mechanical properties. The Drawability- precursor morphology correlation of gel spun ultra-high molecular weight polyethylene fiber is the prime goal of research pursuing the manufacturing of various fibers with different specific mechanical properties.



Presenter: Dr. Manouchehr Khorasani
Assistant Professor of Polymer and Color Engineering Department
Amirkabir University of Technology, Tehran, Iran

Seminar Topic: Fibers, Films and Polymeric Membranes

Title: Hydrophobic Engineering of Poly(acrylic acid) Xerogels for Salt-Tolerant Thickening Applications

Abstract: Cross-linked poly(acrylic acid) (PAA) xerogels are widely used as rheology modifiers in paints, textile printing, cosmetics, drug delivery and wastewater treatment. Their thickening efficiency derives from electrostatic repulsion between neutralized carboxylate groups; consequently, it is severely compromised in the presence of electrolytes. In our measurements, a salt concentration as low as 0.1 wt% NaCl removed approximately 90% of the viscosity of an optimized PAA homopolymer.

This keynote lecture presents a molecular-design strategy to introduce a second, charge-independent contribution to the network structure. Acrylic acid was copolymerized with small amounts (up to about 3 wt%) of long-chain hydrophobic methacrylates, lauryl methacrylate (C12) and stearyl methacrylate (C18), by precipitation polymerization in the presence of a diallyl ether cross-linker. The hydrophobic units disrupt the uniform distribution of ionizable groups and form reversible hydrophobic associations in addition to the permanent chemical cross-links.

As infrared spectroscopy alone is not conclusive evidence of copolymerization, the structural claim is supported by several independent observations: changes in the carbonyl and hydroxyl bands, an increase in gel content from approximately 89% to 100%, higher monomer conversion, an enhanced elastic response with a nearly closed hysteresis loop, larger and less agglomerated particles, and a wetting time that increases with alkyl chain length. The different optimal contents of the C12 and C18 comonomers are discussed in terms of reactivity, incorporation and distribution of the hydrophobic units.

The optimal stearyl methacrylate copolymer retained the salt-free viscosity of the optimal homopolymer (approximately 16,000 cP at 0.2 wt%), broadened the pH window of high



Presenter: Dr. Manouchehr Khorasani
Assistant Professor of Polymer and Color Engineering Department
Amirkabir University of Technology, Tehran, Iran

viscosity (approximately pH 5-9 versus 6-8), and exhibited higher viscosity at alkaline pH. In the presence of salt, the viscosity loss at fixed concentration decreased only modestly (approximately 80% versus 90%); however, the additional xerogel required to restore the original viscosity was reduced from up to 100% to approximately 50%. The copolymers also showed improved powder flowability, at the expense of longer wetting times.

Finally, the potential applicability of these salt-tolerant thickeners in low-electrolyte systems, such as gels and lotions, and the validation required in complete surfactant-based formulations, are discussed.

Keynote Speakers



Presenter: Dr. Mehdi Ghaffari

Associate Professor of Polymer Engineering Department

Golestan University, Gorgan, Iran

Seminar Topic: Fibers, Films and Polymeric Membranes

Title: Polymer-Based Nanocomposites for Sustainable Energy Storage: Nano-Engineered Phase Change Materials

Abstract: The growing demand for sustainable energy and improved energy efficiency has increased interest in advanced thermal energy storage materials. Phase change materials (PCMs) offer significant potential for thermal energy storage due to their high latent heat capacity and ability to store and release thermal energy at nearly constant temperatures. However, limitations such as low thermal conductivity, leakage, and thermal stability challenges restrict their practical applications.

This keynote explores the development of polymer-based nanocomposites and nano-engineered phase change materials as promising solutions to these challenges. Particular attention will be given to the incorporation and surface modification of nanomaterials, including multi-walled carbon nanotubes (MWCNTs) and graphene oxide (GO), to improve the thermal and rheological properties of paraffin-based PCMs. Selected experimental results, including thermal, rheological, and phase-change characterization, will be presented to demonstrate the influence of nanofiller type, concentration, surface modification, and dispersion on composite performance.

Finally, potential applications of these advanced materials in renewable energy integration, thermal management, and energy efficiency will be discussed, along with future research perspectives for the development of sustainable polymer-based thermal energy storage systems.

Keynote Speakers



Presenter: Prof. Farhang Abbasi

Professor of Polymer Engineering Department

Sahand University of Technology, Tabriz, Iran

Seminar Topic: Novel Applications in Polymers

Title: Crystallization Thermodynamics of Poly(3-hexylthiophene): Challenges and Solutions

Abstract: Poly(3-hexylthiophene) (P3HT) is a key conjugated, semicrystalline polymer for organic electronics, where crystallinity, lamellar thickness, and processing control charge transport and device performance. Two equilibrium parameters govern this behavior: the equilibrium melting temperature ($T_m°$) and the equilibrium heat of fusion ($\Delta H_m°$). Reported values vary widely because of methodological errors in their determination.

This work presents a critical re-evaluation and practical protocol for both parameters. For $T_m°$, three methods are compared: Gibbs–Thomson, Broadhurst, and Hoffman–Weeks. It is shown that conventional Hoffman–Weeks analysis is invalidated by lamellar thickening during isothermal holding and reorganization during heating. Using only the shortest crystallization time at each crystallization temperature, fast heating rates, and the 212–218 °C range where melting temperature rises with crystallization temperature, the thickening factor approaches the ideal ($\beta \rightarrow 1$) and $T_m°$ converges to 272–276 °C. Re-analysis of Nandi et al. corrects 300 °C to 269 °C after removing a long-time reorganized point.

For $\Delta H_m°$, Clausius–Clapeyron, Mandelkern, and Flory approaches are compared. Mandelkern is shown to be unreliable for P3HT (49 vs. 64 J/g within the same error bars) due to multiple experimental parameters and baseline uncertainty. The Flory melting-point-depression method, requiring only T_m, is preferred if work is done with imperfect but identical crystals, verified by dry T_m. Very slow (~1 °C/min) or sufficiently fast (~20–30 °C/min) cooling achieves identical morphology. Four crystal cases are defined with corrections for $T_m°$, wet-T_m Δ-correction (93 to 76.8 J/g), extrapolation to ideal crystals (83 J/g), fitting, and use of the narrow swollen regime (correcting Kim's 47.5 to 80 J/g), converging to $\Delta H_m° \approx 75–80$ J/g.



Presenter: Dr. Ehsan Behzadfar

Associate Professor of Chemical Engineering Department

Toronto Metropolitan University, Toronto, Canada

Seminar Topic: Rheology and Polymer Processing

Title: When Polymers Evolve: Rheology, Structural Memory, and the Physics of Sustainable Materials

Abstract: Polymer materials are often characterized as though their molecular architecture and internal structure remain unchanged during measurement and use. In reality, thermal processing, molecular relaxation, crystallization, environmental exposure, and degradation can continuously alter polymer structure, creating complex relationships between material history and subsequent behaviour. Understanding these transformations is particularly important for sustainable polymers, whose properties may evolve substantially throughout processing, service, and end-of-life conditions.

This presentation examines the fundamental relationships among rheological response, structural evolution, and material history in sustainable polymer systems. Particular attention is given to the potential of rheological characterization to reveal time-dependent changes in molecular mobility and structural organization, while recognizing the challenges of interpreting measurements when degradation or other transformations occur during testing. Representative investigations from the Sustainable Polymers Research Lab will illustrate these concepts through the thermo-rheological behaviour, crystallization, and environmental degradation of biodegradable polyesters, including polyhydroxyalkanoates (PHAs). Complementary thermal, mechanical, and microstructural characterization provides insights into how molecular architecture, crystallization pathways, and exposure history influence evolving material properties. Building on these observations, the presentation will discuss structural memory as a connecting concept between processing history, transformation kinetics, and functional performance. It will also highlight emerging opportunities to integrate time-resolved characterization with mechanistic understanding and predictive modelling. By shifting attention from static material properties to evolving structural states, this perspective offers a foundation for understanding the behaviour of sustainable polymers and identifying new directions in polymer physics, rheology, and materials engineering.

Keynote Speakers



Presenter: Dr. Reza Salehiyan

Lecturer of Advanced Materials Group

Edinburgh Napier University, Scotland, United Kingdom

Seminar Topic: Rheology and Polymer Processing

Title: Rheological detection and monitoring of degradation in thermally sensitive polymers

Abstract: Degradation during melt processing and recycling alters polymer molecular weight and chain architecture, with consequences for processability and material performance. Detecting these changes is particularly important for thermally sensitive polymers, whose structures may evolve within the temperatures and residence times required for processing. Rheological measurements provide a sensitive means of following this evolution through changes in melt viscosity, elasticity and relaxation behaviour. Small-amplitude oscillatory shear (SAOS) measurements, including frequency and time sweeps, enable the effects of thermal exposure and repeated processing to be assessed. Decreases in complex viscosity and storage modulus are commonly associated with chain scission, whereas increasing low-frequency elasticity may indicate branching, crosslinking or network formation. The direction and rate of these changes reflect the balance between molecular breakdown and reactions that increase molecular connectivity. Studies on neat and chain-extended poly(butylene adipate-co-terephthalate) (PBAT) demonstrate that successive processing cycles produce clear rheological changes even when mechanical properties remain comparatively stable. The improved melt stability of chain-extended PBAT illustrates the value of rheology in evaluating reactive modification and the retention of processing characteristics during recycling. For polymer systems undergoing rapid structural evolution, conventional frequency sweeps can combine the effects of molecular relaxation and degradation within a single measurement. Time-resolved rheometry addresses this limitation by constructing isochronal viscoelastic spectra at defined exposure times. Applications to linear low-density polyethylene/polyamide 6 blends and polyamide 6/ethylene vinyl alcohol nanocomposites reveal the development of elasticity associated with thermo-oxidative reactions and degradation-induced gelation. Reliable interpretation requires consideration of temperature, atmosphere and processing history, alongside complementary chemical and thermal characterisation where competing reactions or morphological changes influence the response. By relating molecular changes to melt behaviour, rheological assessment provides a practical basis for evaluating thermal stability, defining suitable processing conditions and assessing the potential for further polymer recycling.



Presenter: Prof. Ali reza Mahdavian

Professor of Polymer Science Department
Iran Polymer and Petrochemical Institute, Tehran, Iran

Seminar Topic: Smart and Functional Polymers

Title: Chromogenic Materials: Thermochromic Polymers for the Advanced Stimuli-responsive Systems

Abstract: Chromogenic materials respond to various external stimuli by evident change in their properties. Their incorporation into polymeric substrates makes these polymers appropriate for various applications. Hence, they would be categorized into different types such as thermochromic, photochromic, electrochromic, piezochromic, mechanochromic, and chemochromic, depending on their sensitivity to the specific triggers like temperature, light, electric current, pressure, stress, biochemical or ions, respectively.

Among these, thermochromic polymers are of particular importance; with a growing development due to their wide spread applications in stimuli-responsive devices. They exhibit obvious temperature-dependent color changes. In general, thermochromic materials include organic, inorganic and polymeric compounds that may be comprised of single or multi-component systems. Their sensitivity to the variation in heat or temperature is quite prominent and has been of specific attention for the design and preparation of advanced materials and devices in recent years.

In this presentation, the chemistry, mechanism and preparation of such responsive compounds are being explained and their perspective for the future technologies will be discussed.



Presenter: Prof. Mohammad Hosain Beheshty
Professor of Polymer Composites Department
Iran Polymer and Petrochemical Institute, Tehran, Iran

Seminar Topic: Resins, Adhesives and Coatings

Title: Development of an Optimal B-Staging Window for Epoxy-Based Composite Prepregs

Abstract: The growing demand for high-performance polymer composites in aerospace, automotive, wind energy, and pressure vessel applications has intensified the need for advanced prepreg materials with improved processing characteristics and long-term stability. Epoxy-based composite prepregs, which consist of reinforcing fibers impregnated with thermosetting resin systems, typically undergo a controlled partial curing process known as B-staging to achieve suitable handling characteristics prior to final composite manufacturing. However, optimizing this intermediate curing stage remains a significant challenge, as the degree of resin advancement simultaneously influences several interdependent and often conflicting properties, including surface tack, fiber bundle cohesion, drapability, storage stability, and final mechanical performance. This lecture presents a comprehensive review and proposes a systematic framework for developing an optimal B-staging window for epoxy-based composite prepregs. Various pre-curing strategies—including conventional thermal treatments, infrared heating, microwave-assisted processing, radiation-based techniques, and formulation-based approaches involving latent curing agents, dual-curing systems, and controlled accelerator concentrations—are critically examined. Particular attention is given to the relationship between processing conditions, curing kinetics, and the evolution of resin properties during partial curing. A multi-parameter optimization methodology is proposed to identify an appropriate range of pre-curing conditions rather than a single optimum curing point. The framework integrates key characterization techniques, including differential scanning calorimetry (DSC) for determining the degree of cure, rheological analysis for monitoring viscosity evolution and gelation behavior, Fourier-transform infrared spectroscopy (FTIR) for evaluating chemical conversion, and standardized tack measurements for assessing surface adhesion. Furthermore, complementary experimental approaches for quantifying fiber bundle cohesion, drapability, and storage stability are discussed. The effects of different B-staging



Presenter: Prof. Mohammad Hosain Beheshty
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conditions on subsequent final curing behavior, glass transition temperature, and mechanical performance of the resulting composites are also incorporated into the proposed optimization strategy. The applicability of the framework to continuous-fiber carbon- and glass-fiber towpregs, particularly those used in filament winding processes, is discussed, and recent results from our research are presented. The proposed methodology provides a practical foundation for developing reproducible and industrially scalable B-staging conditions, thereby contributing to improved prepreg quality, manufacturing efficiency, and performance consistency in advanced polymer composite structures.



Presenter: Prof. Zahra Ranjbar

Professor of Surface Coating and Corrosion Department

Institute for Color Science and Technology, Tehran, Iran

Seminar Topic: Resins, Adhesives and Coatings

Title: The Invisible Revolution: How Advanced Coatings Are Redefining Material Intelligence

Abstract: For decades, polymeric coatings have been designed primarily to separate materials from aggressive environments. Today, a less visible transformation is emerging: coatings are evolving from passive barriers into functional interfaces capable of sensing environmental changes, responding to damage, and contributing to intelligent monitoring systems. But when does a functional coating become an intelligent material?

This keynote examines that question through the progression from protection to sensing, response, and intelligence. Drawing on research into corrosion-resistant nanocomposites, electrodeposited coatings, and fluorescent carbon-dot probes, it explores how surface chemistry, interfacial structure, and signal generation can enable earlier recognition of coating degradation. Selected advances in self-healing and stimulus-responsive systems are critically assessed, distinguishing visible responses from verified recovery of protective performance. Further examples involving electromagnetic-wave management and energy-saving coatings illustrate how polymer surfaces can acquire functions beyond conventional protection.

The lecture then considers a crucial limitation: impressive laboratory demonstrations do not necessarily translate into durable, scalable industrial technologies. Sensor calibration, long-term stability, manufacturing reproducibility, environmental impact, and the quality of data needed for predictive models remain major challenges. Artificial intelligence may support condition-based maintenance, but reliable prediction requires validated mechanisms and service-relevant measurements.

Ultimately, material intelligence is presented not as a fashionable label but as a demanding design objective: integrating protective performance, measurable response, reliable interpretation, and industrial feasibility. The keynote closes with research questions that could shape the next generation of multifunctional polymer coatings.



Presenter: Dr. Abbas Rezaee Shirin-Abadi

Associate Professor of Polymer and Materials Department

Shahid Beheshti University, Evin, Tehran, Iran

Seminar Topic: Polymer Reaction Engineering

Title: PET Circularity: Overcoming Bottlenecks in Mechanical and Chemical Recycling

Abstract: Polyethylene terephthalate (PET) circularity represents a cornerstone in sustainable polymer engineering, bridging the gap between high-performance applications—ranging from rigid sheets and bottles to fibers, films and engineering parts—and closed-loop lifecycle management. However, achieving true circularity for PET encounters severe technical bottlenecks across both mechanical and chemical recycling routes. This lecture explores critical engineering and chemical hurdles governing PET recycling, highlighting innovative solutions developed to overcome these limitations.

In mechanical recycling, primary bottlenecks involve thermal-oxidative degradation, chain scission, and intrinsic viscosity (IV) drop, alongside the accumulation of contaminants such as residual heavy metals, thermal stabilizers, and incompatible polymer impurities. To address complex sorting challenges, we discuss an advanced triboelectric separation approach exploiting the **triboelectric charging effect** (based on contact electrification and electrostatic induction differences between polymers) to precisely separate and minimize **PVC contamination down to less than** 50 ppm in PET streams. Furthermore, to restore and tailor the mechanical properties of recycled PET, we report on the synthesis and development of **various chain extenders featuring diverse functional groups**, including advanced epoxy-functionalized oligomeric systems (such as **Joncryl-based** modifiers), which effectively rebuild molecular weight, melt strength, and structural performance.

To address the inherent limitations of mechanical recycling, the lecture evaluates advanced chemical recycling technologies—including various pathways of hydrolysis, glycolysis, and methanolysis. While reviewing and evaluating these depolymerization routes, we place special emphasis on **methanolysis** and its industrial **scale-up**, process optimization, and monomer purification. Ultimately, this lecture bridges the gap between fundamental polymer chemistry and industrial practice, offering a robust roadmap for sustainable PET upcycling.



Presenter: Prof. Mir Hamidreza Ghoreishy

Professor of Polymer Science Faculty

Iran Polymer and Petrochemical Institute, Tehran, Iran

Seminar Topic: Modeling and Simulation

Title: From Time-Domain Hyper-Viscoelasticity to RPA Dynamic Moduli: Predicting the Nonlinear LAOS Response of Carbon-Black-Reinforced SSBRs

Abstract: Carbon-black-reinforced solution styrene–butadiene rubbers (SSBRs) are central to high-performance tire technology, yet their dynamic behavior remains challenging to predict because molecular-weight architecture, filler networking, stress softening, and nonlinear viscoelasticity interact across multiple length and time scales. This keynote presents a time-domain nonlinear hyper-viscoelastic modeling framework for predicting the dynamic storage and loss moduli measured by a Rubber Processing Analyzer (RPA) under large-amplitude oscillatory shear (LAOS). Two commercial SSBR grades with distinct molecular-weight distributions and Mooney viscosities were compounded with 30, 50, and 70 phr of N330 carbon black. Strain-sweep experiments were performed at 10 Hz and 50 °C to obtain the first-harmonic storage modulus, G', and loss modulus, G''. The proposed constitutive formulation combines an equilibrium Yeoh hyperelastic branch with a non-equilibrium viscoelastic branch governed by a nonlinear viscous flow rule, while the Ogden–Roxburgh stress-softening model is incorporated to represent the evolution and breakdown of the filler network associated with the Payne effect. The simulated time-domain stress histories were transformed through Fourier analysis using the MCalibration code to calculate the corresponding first-harmonic dynamic moduli for direct comparison with RPA measurements. Bound-rubber-content and carbon-black-dispersion measurements further supported the interpretation of filler–polymer interactions. The model accurately reproduced the strain-dependent dynamic response of all filled compounds, achieving coefficients of determination between 0.980 and 0.992. Importantly, the predicted parameters of the hyper-viscoelastic and stress-softening models can accurately describe the relationships between reinforced rubbers and their dynamic properties.



Presenter: Prof. Mir Hamidreza Ghoreishy
Professor of Polymer Science Faculty
Iran Polymer and Petrochemical Institute, Tehran, Iran

Increasing carbon-black content increased initial stiffness and generally intensified the Payne effect; however, molecular-weight distribution altered this relationship. At low and intermediate filler contents, the broader-distribution SSBR showed stronger strain softening, whereas at 70 phr the trend reversed because of the coupled roles of bound rubber, filler percolation, polymer viscosity, chain mobility, and local strain amplification. By bridging time-domain constitutive modeling with frequency-domain RPA measurements, this work provides a practical route for predicting nonlinear dynamic properties of reinforced rubbers. It offers a useful basis for formulation optimization and for the future incorporation of higher-harmonic LAOS data into physically informed tire-compound design.

Workshops


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(Tehran Polytechnic)
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AmirKabir University of Technology (Tehran Polytechnic)
Tehran, Iran
1
Introduction to Artificial Intelligence and its Applications in Polymer Engineering
Presenter: Dr. Mohammad Fakhroleslam
Date: 16 November 2026,8-12
Registration Fee:25,000,000IRR
2
Resin 3D Printing: Basics, Applications, Technologies and Industrial Production
Presenter: Dr. Morteza Ebrahimi, Dr. Mohammad Reza Riahi Dehkordi
Date: 16 November 2026,13-17
Registration Fee:50,000,000IRR
3
Fabrication of polymeric scaffolds for Tissue engineering applications
Presenter: Dr. Masoumeh Haghbin Nazarpak
Date: 16 November 2026,8-12
Registration Fee:25,000,000IRR
4
Industrial Twin-Screw Extrusion and Compounding: Fundamentals & Troubleshooting
Presenter: Dr. Hamid Garmabi, Mr. Amir Arjomandfard
Date: 16 November 2026,8-12
Registration Fee:50,000,000IRR
5
Polymetrics: Chemometrics Application in Polymer Science and Engineering
Presenter: Dr. Mehdi Rafizadeh
Date: 16 November 2026,13-17
Registration Fee:50,000,000IRR
6
Polyurethane chemistry and technology
Presenter: Dr. Mohammad Barmar, Mr. Ali Abbasi
Date: 16 November 2026,8-12
Registration Fee:100,000,000IRR
7
Emulsion Polymerization and Latex Technology
Presenter: Dr. Manouchehr Khorasani
Date: 16 November 2026,13-17
Registration Fee:50,000,000IRR
More Information
Will be Announced Later
For more information
ispst.aut.ac.ir

Workshop Name:

Introduction to Artificial Intelligence and its Applications in Polymer Engineering

Presenter:

Dr. Mohammad Fakhroleslam

Syllabus:

Part 1: Introduction to Artificial Intelligence (2 Hours)

- What is Artificial Intelligence?
- Artificial Intelligence and Automation
- How Do AI Tools Work?
- Classification of AI Tools

Part 2: Applications of Artificial Intelligence in Polymer Engineering (2 Hours)

- Introduction to Commonly Used AI Tools
- Presentation and Analysis of AI Applications in Recent Scientific Publications in the Field of Polymer Engineering

Workshop Name:

Resin 3D Printing: Basics, Applications, Technologies and Industrial Production

Presenter:

Prof. Morteza Ebrahimi, Dr. Mohammad Reza Riahi Dehkordi

Syllabus:

1- Fundamentals of Resin-Based 3D Printing (Focusing on Vat Polymerization and Material Jetting, per the F42 Standard)

- Advantages of Resin 3D Printing

- Raw Materials, Formulation and Reaction Chemistry

- General Applications

2- Advanced Principles in Resin-Based 3D Printing

- Technical Capabilities (from micro- and nano-scale fabrication to the production of large-scale parts) - Ultra-fast Techniques

- Volumetric and Supportless Techniques

- Holographic (Single-Exposure) Techniques

3- Specialized Applications in Medicine and Dentistry, Jewelry, Mold-making, and Fashion

4- Future Trends

Workshop Name:

Fabrication of polymeric scaffolds for Tissue engineering applications

Presenter:

Dr. Masoumeh Haghbin Nazarpak

Syllabus:

Module 1: Fundamentals of Tissue Engineering Scaffolds

- Principles of scaffold design and cellular microenvironment biomimicry
- Structural requirements: porosity, pore interconnectivity, and mechanical compliance
- Biomaterial selection: synthetic polymers, natural polymers and hybrids

Module 2: Electrospinning & Freeze-Drying Technologies

- **Electrospinning:**
  - Fundamental principles: Taylor cone formation, solvent choice, and processing parameters
  - Nanofibrous architectures: random vs. aligned fibers, core-shell, and coaxial structures
- **Freeze-Drying (Lyophilization):**
  - Thermodynamic principles of ice crystallization, primary drying (sublimation), and secondary drying
  - Pore morphology control, directional freezing, and cycle optimization

Module 3: Additive Manufacturing and 3D Bioprinting Techniques

- Fused Deposition Modeling (FDM)
- Direct Ink Writing (DIW)
- Immersion precipitation printing (ip-3D printing)

Module 4: Hands-on Laboratory & Case Studies

- Solution preparation and setup of the electrospinning system
- G-code generation, slicing software parameter optimization, and DIW/FDM printing execution
- Structural assessment of freeze-dried vs. 3D-printed constructs

Workshop Name:

Industrial Twin-Screw Extrusion and Compounding: Fundamentals & Troubleshooting

Presenter:

Prof. Hamid Garmabi, Mr. Amir Arjomandfard

Syllabus:

Understanding the compounding process and twin-screw extruder, selecting screw configurations, controlling key processing parameters, and troubleshooting common practical problems.

Workshop Name:

Polymetrics: Chemometrics Application in Polymer Science and Engineering

Presenter:

Prof. Mehdi Rafizadeh

Syllabus:

- Initial inspection of experimental data
- Curve smoothing and data filtering
- Fourier Series and Transformation
- Curve fitting and regression
- Optimization
- Normalization
- Deconvolution

Workshop Name:

Polyurethane Chemistry and Technology

Presenter:

Dr. Mohammad Barmar, Mr. Ali Abbasi

Syllabus:

1 - Core chemistry essentials in polyurethane coatings, adhesives, and elastomers, formulation & performance, microstructure-property correlations, QC & standards, case callback & troubleshooting, proposed formulation examples

2 - Introduction, Overview of polymeric foams, Classification of polyurethane foams, Formulation recipient, Chemical and Physical foaming processes, Manufacturing processes, Formulation calculations, and Testing methods.

Workshop Name:

Emulsion Polymerization and Latex Technology

Presenter:

Dr. Manouchehr Khorasani

Syllabus:

1- Latex Ingredients

2- Emulsion polymerization mechanism

3- Harkins & Smith Ewart theory

4- Techniques in emulsion polymerization

5- description of conventional, mini and micro emulsion polymerization

6- Particle morphology in latices

Organizers

Amirkabir University of Technology

Persian Gulf Petrochemical Industries Co.

Iran Polymer Science and Technology Society

Iranian Society of Rheology

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