

**1st**

**International Conference on  
Rheology**

17-18 December 2019, IPPI, Tehran, Iran

# **Seminar Program**

**Sunday and Monday  
15-16 December 2019**

9:00-16:00

**Short  
Courses**

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**Teusday, 17 December 2019**

*Registration*  
*and*  
*Reception*

8:00-8:45

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**Tuesday, 17 December, Hall A**

**8:45-9:20**      *Opening Ceremony*

**9:20-10:05**      Plenary Presenter: Prof. Ole Hassager  
Technical University of Denmark, Denmark  
Polymers in fast flow: linking rheology with structure

**10:05-10:30**      Break, Exhibition & Poster Viewing

Chair Persones: Dr. N. Golshan Ebrahimi, Prof. I. Ghasemi, Prof. A. Ramezani

**10:30-11:00**      Keynote Lecturer: Dr. Ehsan Nazokdast  
University of North Carolina, USA  
Cell nucleus as a mcirorheological probe to study the rheology  
of cytoskeleton

Code	Time	Title
	11:00-11:20	Polyelectrolyte Complex Coacervates as Soft Underwater Adhesives <u>Mehdi Vahdati</u> , Francisco Cedano, Costantino Creton, Dominique Hourdet
A-10-86-1	11:20-11:40	Rheological behavior of double network hydrogel based on thermo-responsive carrageenan and polyacrylamide <u>Sara Tarashi</u> , Hossein Nazockdast, Gholamhossein Sodeifian, Zeinab Javidi
A-10-131-2	11:40-12:00	Shear thickening behavior of cornstarch suspensions <u>Akram Bigdeli</u> , <u>Hurieh Parnak</u> , Nahid Maleki Jirsaraee, Shahin Rouhani
A-10-112-1	12:00-12:20	Stitching MWCNTs on graphene edges leads to hybrid nanostructures with high fractal dimension, desirable for extraordinary conductive nanocomposites <u>Mohammad Heydarnejad Moghadam</u> , Fatemeh Goharpey, Hossein Nazockdast

**12:20-14:00**      Lunch Break, Exhibition & Poster Viewing

**Tuesday, 17 December, Hall A**

14:00-14:45 Exhibition &amp; Poster Viewing

Chair Persons: Dr. F. Abbasi, Dr. G. Pircheraghi, Dr. M. Salami Hosseini

14:45-15:15 Keynote Lecturer: Prof. Bo Nyström

University of Oslo, Norway

**An efficient chemical crosslinker agent for the formation of chitosan hydrogels**

Code	Time	Title
	15:15-15:35	Conceptual rheology in pharmaceuticals and biomaterials <a href="#">Ismaeil Haririan</a>
A-10-58-1	15:35-15:55	Effects of cooling rate and silica nanoparticles on the rheologically-determined phase diagram of poly( $\epsilon$ -caprolactone)/poly(styrene-co-acrylonitrile) blends <a href="#">Zahra Mohtaramzadeh</a> , <a href="#">Farkhondeh Hemmati</a> , <a href="#">Hossein Ali Khonakdar</a>
A-10-69-1	15:55-16:15	Effect of block copolymer microstructure on viscoelastic properties and electrical conductivity of SEBS/CNT/graphene nanocomposites <a href="#">Kosar Alavi</a> , <a href="#">Mehdi Rafizadeh</a> , <a href="#">Hossein Nazockdast</a>

16:15-16:45

Break

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## Tuesday, 17 December, Hall B

Chair Persones: Prof. M.K. Razavi Aghjeh, Dr. M.R. Nofar, Dr. S. Ahmadi

10:30-11:00 **Keynote Lecturer: Dr. Ismaeil Moghimi**  
FORTH and University of Crete, Greece  
Rheology of telechelic star polymers

Code	Time	Title
A-10-166-1	11:00-11:20	Study on the affecting parameters on the breakup and coalescence of droplets in shear flow field using extended finite element (XFEM) <u>Mahdi Salami Hosseini</u>
	11:20-11:40	Study on rheological behavior of hollow carbon nanosphere (HCNs) suspension in a Newtonian fluid <u>Parvin Kiany, Fatemeh Goharpey, Reza Foudazi</u>
A-10-75-1	11:40-12:00	Rheological properties of waterborne epoxy-nanocomposites containing edge and basal functionalized graphene oxide <u>Amir Rezvani Moghaddam, Milad Kamkar, Zahra Ranjbar, Uttandaraman Sundararaj, Ali Jannesari, Behnaz Ranjbar</u>
A-10-53-1	12:00-12:20	Effect of ultrahigh molecular weight component on the rheological behaviors of polyethylene-100 pipe resin <u>Zahra Yagoobi, Abdolhanan Sepahi, Reza Rashedi</u>

12:20-14:00 Lunch Break, Exhibition & Poster Viewing

Chair Persones: Dr. E. Moghimi, Dr. M. Meranpour, Dr. M. Salehi Barmi

14:45-15:15 **Keynote Lecturer: Prof. Babak Kaffashi**  
University of Tehran, Iran  
Dynamic-mechanical properties of thin film thermoplastic polyurethane/graphene nanocomposites

Code	Time	Title
A-10-153-1	15:15-15:35	Correlation between the microstructure and viscoelastic properties of PP/EPDM/SiO <sub>2</sub> ternary blend-nanocomposites <u>Sina Hajibabazadeh, Mir Karim Razavi Aghjeh</u>
A-10-120-1	15:35-15:55	Viscoelastic contact analysis of nanoindentation modeling on polymeric solid films using augmented Lagrangian finite element formulation <u>Hossein Ashrafi, Sadegh Madadi</u>
A-10-41-1	15:55-16:15	Study the effect of rubbery phase morphology on the development of PP/PA6/(EPDM:EPDM-g-MA) ternary blends <u>Maryam Hasanpour, Bahare Afsari, Mir Karim Razavi Aghjeh</u>

16:15-16:45 Break

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## Wednesday, 18 December, Hall A

9:00-9:45 Plenary Presenter: Prof. James J. Feng  
University of British Columbia, Canada  
Hydrodynamics and rheology of sheared two-dimensional foam

9:45-10:15 Break, Exhibition & Poster Viewing

Chair Persones: Prof. I. Harririan, Dr. J. Khademzadeh, Dr. K. Shams

10:15-10:45 Keynote Lecturer: Dr. Mohammadreza Nofar  
Istanbul Technical University, Turkey  
Self-reinforced PLA/PLA compounds with enhanced viscoelastic properties

Code	Time	Title
	10:45-11:05	Using rheological measurements for quantifying interaction and blending between new and aged asphalt binders in mixes with high content of recycled pavement materials <a href="#">Mohammad Zia Alavi</a>
A-10-101-1	11:05-11:25	Graphene induced microstructure and improved electrical conductivity of polyamide 6/polyolefin elastomer blend <a href="#">Milad Hadaeghnia</a> , <a href="#">Paula Wood-Adams</a> , <a href="#">Shervin Ahmadi</a> , <a href="#">Ismael Ghasemi</a>
A-10-141-1	11:25-11:45	Effect of Escherichia coli on rheological behavior of polyvinyl pyrrolidone <a href="#">Behtab Montaser Kouhsari</a> , <a href="#">Nadereh Golshan Ebrahimi</a>
A-10-94-1	11:45-12:05	Chemorheology of nano acrylonitrile butadiene rubber (n-NBR)/epoxy nanocomposites <a href="#">Mohammad Hossein Karami</a> , <a href="#">Mohammad Reza Kalaei</a> , <a href="#">Saeedeh Mazinani</a>
A-10-158-1	12:05-12:25	Rheopectic fluid behavior around the gas bubble on the natural frequency in acoustic field <a href="#">Alireza Abdollahi</a> , <a href="#">Ali Rafiei</a> , <a href="#">Kayvan Sadeghy</a>

12:25-14:00 Lunch Break, Exhibition & Poster Viewing

14:00-15:00 Upstream and downstream industries panel discussion

15:00-15:45 *Closing Ceremony*

15:45-16:15 Break

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## Wednesday, 18 December, Hall B

Chair Persones: Prof. B. Kaffashi, Dr. E. Nazokdast, Dr. S.M.Z. Alavi

10:15-10:45

Keynote Lecturer: Dr. Mahdi Davoodi

University of Liverpool & Schlumberger Cambridge Research centre, UK

Control of a purely-elastic symmetry-breaking flow instability in cross-slot geometries

Code	Time	Title
	10:45-11:05	Rheological behavior of water soluble thickener polymers containing highly hydrophobic monomers <u>Ahmad Ramezani Saadat-abadi</u>
A-10-107-1	11:05-11:25	Developing modified hysteresis loop test to evaluate time-dependency <u>Fataneh Behrouzain, Seyed Mohammad Ali Razavi</u>
A-10-155-1	11:25-11:45	Preparation and rheological study of rough PS/silica nanocomposite suspension <u>Sheyda Khazae, Fatemeh Goharpey, Majid Haghgoo</u>
A-10-27-2	11:45-12:05	The temperature dependence of viscoelastic properties of acrylonitrile butadiene rubber/graphene nanocomposite <u>Mohammad Barghamadi, Mohammad Karrabi, Mir Hamid Reza Ghoreishy, Somayyeh Mohammadian</u>
A-10-81-1	12:05-12:25	Investigation of rheological behavior of PPy and PPy/TiO <sub>2</sub> conductive inks imparted for screen printing <u>Sepideh Akbaripoor tafreshi-nejad, Atasheh Soleimani-Gorgani, Malihe Pishvaei</u>

12:25-14:00

Lunch Break, Exhibition & Poster Viewing