Seminar Program

Sunday and Monday
15-16 December 2019

Short Courses

9:00-16:00
Tuesday, 17 December 2019

8:00-8:45

Registration and Reception
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 microrheological probe to study the rheology of cytoskeleton

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<th>Code</th>
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<tbody>
<tr>
<td></td>
<td>11:00-11:20</td>
<td>Polyelectrolyte Complex Coacervates as Soft Underwater Adhesives</td>
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<td><strong>Mehdi Vahdat</strong>, Francisco Cedano, Costantino Creton, Dominique Hourdet</td>
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<tr>
<td>A-10-86-1</td>
<td>11:20-11:40</td>
<td>Rheological behavior of double network hydrogel based on thermo-responsive carrageenan and polyacrylamide</td>
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<td><strong>Sara Tarashi</strong>, Hossein Nazockdast, Gholamhossein Sodeifian, Zeinab Javidi</td>
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<td>A-10-131-2</td>
<td>11:40-12:00</td>
<td>Shear thickening behavior of cornstarch suspensions</td>
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<td><strong>Akram Bigdeli</strong>, Hurieh Parnak, Nahid Maleki Jirsaraee, Shahin Rouhani</td>
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<tr>
<td>A-10-112-1</td>
<td>12:00-12:20</td>
<td>Stitching MWCNTs on graphene edges leads to hybrid nanostructures with high fractal dimension, desirable for extraordinary conductive nanocomposites</td>
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<td><strong>Mohammad Heydarnejad Moghadam</strong>, Fatemeh Goharpey, Hossein Nazockdast</td>
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12:20-14:00 Lunch Break, Exhibition & Poster Viewing
Tuesday, 17 December, Hall A

14:00-14:45  Exhibition & 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

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| A-10-58-1 | 15:15-15:35 | Conceptual rheology in pharmaceutics and biomaterials  
Ismaeil Haririan |
| A-10-58-1 | 15:35-15:55 | Effects of cooling rate and silica nanoparticles on the rheologically-determined phase diagram of poly(ε-caprolactone)/poly(styrene-co-acrylonitrile) blends  
Zahra Mohtaramzadeh, Farkhondeh Hemmati, Hossein Ali Khonakdar |
| A-10-69-1 | 15:55-16:15 | Effect of block copolymer microstructure on viscoelastic properties and electrical conductivity of SEBS/CNT/graphene nanocomposites  
Kosar Alavi, Mehdiz Raﬁzadeh, Hossein Nazockdast |

16:15-16:45  Break
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

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

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<tr>
<td>A-10-153-1</td>
<td>15:15-15:35</td>
<td>Correlation between the microstructure and viscoelastic properties of PP/EPDM/SiO₂ ternary blend-nanocomposites Sina Hajibabazadeh, Mir Karim Razavi Aghjeh</td>
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<tr>
<td>A-10-120-1</td>
<td>15:35-15:55</td>
<td>Viscoelastic contact analysis of nanoindentation modeling on polymeric solid films using augmented Lagrangian finite element formulation Hossein Ashrafi, Sadegh Madadi</td>
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<td>A-10-41-1</td>
<td>15:55-16:15</td>
<td>Study the effect of rubbery phase morphology on the development of PP/PA6/(EPDM:EPDM-g-MA) ternary blends Maryam Hasanpour, Bahare Afsari, Mir Karim Razavi Aghjeh</td>
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16:15-16:45 Break
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 Persons: Prof. I. Haririan, 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

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| A-10-101-1 | 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  
Mohammad Zia Alavi |
| A-10-141-1 | 11:05-11:25 | Graphene induced microstructure and improved electrical conductivity of polyamide 6/polyolefin elastomer blend  
Milad Hadaeghnia, Paula Wood-Adams, Shervin Ahmadi, Ismael Ghasemi |
| A-10-141-1 | 11:25-11:45 | Effect of Escherichia coli on rheological behavior of polyvinyl pyrrolidone  
Behtab Montaser Kouhsari, Nadereh Golshan Ebrahimi |
| A-10-94-1 | 11:45-12:05 | Chemorheology of nano acrylonitrile butadiene rubber (n-NBR)/epoxy nanocomposites  
Mohammad Hossein Karami, Mohammad Reza Kalaee, Saeedeh Mazinani |
| A-10-158-1 | 12:05-12:25 | Rheopetic fluid behavior around the gas bubble on the natural frequency in acoustic field  
Alireza Abdollahi, Ali Rafiei, Kayvan Sadeghy |

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
Wednesday, 18 December, Hall B

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

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| A-10-107-1 | 10:45-11:05 | Rheological behavior of water soluble thickener polymers containing highly hydrophobic monomers  
Ahmad Ramezani Saadat-abadi |
| A-10-107-1 | 11:05-11:25 | Developing modified hysteresis loop test to evaluate time-dependency  
Fatemeh Behrouzain, Seyed Mohammad Ali Razavi |
| A-10-155-1 | 11:25-11:45 | Preparation and rheological study of rough PS/silica nanocomposite suspension  
Sheyda Khazaee, Fatemeh Goharpey, Majid Haghgoo |
| A-10-27-2  | 11:45-12:05 | The temperature dependence of viscoelastic properties of acrylonitrile butadiene rubber/graphene nanocomposite  
Mohammad Barghamadi, Mohammad Karrabi, Mir Hamid Reza Ghoreishy, Somayyeh Mohammadian |
| A-10-81-1  | 12:05-12:25 | Investigation of rheological behavior of PPy and PPy/TiO$_2$ conductive inks imparted for screen printing  
Sepideh Akbaripoor tafreshi-nejad, Atashe Soleimani-Gorgani, Malihe Pishvai |

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