

## Message from the Organizing Committee

Welcome to the 3th MACROMEX (2014) and to the XXVII Mexican Polymer Society Conference, held in the city of Nuevo Vallarta, Nayarit; one of the most charismatic places in Mexico. The city is located on the pacific coast of Mexico in one of the biggest bays in the world, the Banderas Bay.

This 3th meeting between the Mexican Polymer Society and the Polymer Chemistry Division of the American Chemical Society (ACS) aimed at increasing the cooperation and scientific interaction among researchers mostly of US, Canada and Mexico. This year the organizing committee has put together a technical program with over 300 papers, with the participation from more than 8 countries. Their work has been of great importance for the finalization of this program.

As in previous conferences, the largest number of contributions come from Mexican researches and students, making this event a good opportunity for them to discuss their most recent results with the visiting scientist from many countries. The organization of this MACROMEX 2014 will be considerable relevance for all the people interesting in research in the fields of alternative sources of energy, biomedical applications, water treatments, oil extraction, gas separation, smart polymers, nanocomposites and blends, nanomaterials, simulation and polymers reaction engineering, etc. to name a few.

The present booklet as the bidimensional code on the back cover is intended to serve as a rapid guide to help find the different events programmed during the conference week. It is organized on a day by day basis and includes only the titles and names of the authors of the papers. The full abstracts of each paper can be found in the interactive Full Program and/or in Mobile Program (<http://www.sociedadpolimerica.mx/openconf2014/mobile/>).

The organizing committee wishes to express its thanks to all the institutions and members of our Mexican Polymer Society and to the ACS for their support, and we most sincerely hope that everybody has an enjoyable stay in Nuevo Vallarta.

# MACROMEX 2014

XXVII Congreso de la Sociedad  
Polimérica de México

## GENERAL PROGRAM MACROMEX 2014

WEDNESDAY DECEMBER 3

Time	
11:00-14:00	REGISTRATION

### “SYMPOSIUM POLYOLEFINS AND RHEOLOGY”

ROOM 3

Time	ORAL
14:00-14:30	SPRI-01 ID-187
14:30- 15:00	SPRI-02 ID-49
15:00-15:30	SPRI-03 ID-19
15:30-16:00	SPRI-04 ID-27
16:00–16:30	COFFEE BREAK

Time	ORAL
16:30-17:00	SPRI-05 ID-233
17:00-17:30	SPRI-06 ID-298
17:30-18:00	SPRI-07 ID-230
18:00-18:20	SPRO-08 ID-247
18:20–18:40	SPRI-09 ID-43

Time	
19:00-20:00	OPENING CEREMONY
20:00-21:00	COCKTEL

## THURSDAY DECEMBER 4<sup>TH</sup>

9:00-14:00

“SYMPOSIUM ON BIOMATERIALS” ROOM 1		“SYMPOSIUM ON PRECISION POLYMER SYNTHESIS” ROOM 3		“SYMPOSIUM NANOCOMPOSITES AND BLENDS” ROOM 4	
9:00-9:30	SBI-01 ID-66	9:00-9:30	SPS-01 ID-184	9:00-9:30	SNB-01 ID-96
9:30-10:00	SBI-02 ID-302	9:30-10:00	SPS-02 ID-21	9:30-10:00	SNB-02 ID-71
10:00- 10:30	SBI-03 ID-53	10:00- 10:30	SPS-03 ID-168	10:00- 10:30	SNB-03 ID-64
10:30-11:00	SBI-04 ID-209	10:30-11:00	SPS-04 ID-20	10:30-11:00	SNB-04 ID-99
11:00–11:30		COFFEE	BREAK		
11:30-12:00	SBI-05 ID-297	11:30-12:00	SPS-05 ID-271	11:30-12:00	SNB-05ID-113
12:00-12:30	SBI-06 ID-173	12:00-12:30	SPS-06 ID-287	12:00-12:30	SNB-13 ID-04
12:30-13:00	SBI-07 ID-178	12:30-13:00	SPS-06 ID-109	12:30-13:00	SNB-07ID-130
13:00-13:30	SBI-08 ID-86	13:00-13:30	SPS-07 ID-5	13:00-13:30	SNB-08ID-284
13:30–14:00	SBI-09 ID-275	13:30–14:00	SPS-08 ID-7	13:30–14:00	SNB-09ID-162

**THURSDAY DECEMBER 4<sup>TH</sup>**  
**16:00-17:30**

"SYMPOSIUM ON SMART POLYMERS" ROOM 1		"GENERAL TOPICS" ROOM 3		"SYMPOSIUM NANOCOMPOSITES AND BLENDS" ROOM 4	
16:00-16:20	SSP-10 ID-68	16:00-16:30	SGT-01 ID-190	16:00-16:20	SNB-10ID-276
16:20-16:40	SSP-11ID-204	16:30-17:00	SGT-02 ID-14	16:20-16:40	SNB-14 ID-31
16:40-17:00	SSP-12ID-167	17:00-17:30	SGT-03 ID-256	16:40-17:00	SNB-11ID-223
				17:00-17:20	SNB-12 ID-85
				17:20-17:50	SNB-06ID-124

**THURSDAY DECEMBER 4<sup>th</sup>**

**"POSTER SESSION I"**

**ROOM 2 (18:00-20:00)**

**Polyolefins, Smart Polymers, Polymer Synthesis, Nanocomposites and blends, Advanced Polymer.**

**REUNIÓN DE MIEMBROS DE LA SPM (20:00-21:00 ROOM 3)**

**FRIDAY DECEMBER 5<sup>TH</sup>**

**9:00-14:00**

SYMPOSIUM ON SMART POLYMERS" ROOM 1		SYMPOSIUM ON ADVANCED POLYMER MATERIALS: OPTOELECTRONICS AND NANOMATERIALS" ROOM 3		"SYMPOSIUM ON BIOMATERIALS" ROOM 4	
9:00-9:30	SSP-01ID-280	9:00-9:30	SAPM-1ID-105	9:00-9:30	SBI-11 ID-9
9:30-10:00	SSP-02ID-269	9:30-10:00	SAPM-2ID-234	9:30-10:00	SBI-12 ID-188
10:00- 10:30	SSP-03ID-224	10:00- 10:30	SAPM-3 ID-75	10:00- 10:30	SBI-13 ID-299
10:30-11:00	SSP-04 ID-22	10:30-11:00	SAPM-4 ID-12	10:30-11:00	SBO-15 ID-46
11:00-11:30		COFFEE	BREAK		
11:30-12:00	SSP-05 ID-26	11:30-12:00	SAPM-5ID-270	11:30-11:50	SBO-16ID-250
12:00-12:30	SSP-06ID-257	12:00-12:30	SAPM-6ID-306	11:50-12:10	SBO-17ID-84
12:30-13:00	SSP-07ID-142	12:30-13:00	SAPM-7ID-132	12:10-12:30	SBO-18ID-139
13:00-13:30	SSP-08 ID-69	13:00-13:30	SAPM-8ID-273	12:30-12:50	SBO-19ID-121
		13:30-14:00	SAPM-9ID-268		

# MACROMEX 2014

XXVII Congreso de la Sociedad  
Polimérica de México

## FRIDAY DECEMBER 5<sup>TH</sup> 15:30-17:30

"SYMPOSIUM ON SMART POLYMERS" ROOM 1		"SYMPOSIUM ON SIMULATION AND POLYMER REACTION ENGINEERING" ROOM 3		"SYMPOSIUM POLYMER MATERIALS ENGINEERING" ROOM 4	
16:00-16:30	SSP-10 ID-68	15:30-16:00	SSO-01 ID-283	16:00-16:30	SPME1ID-231
16:30-17:00	SSP-11ID-204	16:00-16:30	SSO-02 ID-169	16:30-17:00	SPME2 ID-225
17:00-17:30	SSP-12ID-167	16:30-17:00	SSO-03 ID-10	17:00-17:30	SPME3 ID-62
		17:00-17:30	SSO-04 ID-186	17:30-18:00	SPM-4 ID-313
		17:30-18:00	SSO-05 ID-312		

## FRIDAY DECEMBER 5<sup>th</sup> "POSTER SESSION II" ROOM 2 (18:00-20:00)

Biomaterials, Polymer Engineering and General Topics

## DINNER- ON THE BEACH 20:30 – 24:00

## SATURDAY DECEMBER 6<sup>TH</sup> 9:00-14:00

"SYMPOSIUM NANOCOMPOSITES AND BLENDS" ROOM 1		"SYMPOSIUM ON ADVANCED POLYMER MATERIALS: MEMBRANES" ROOM 3		"SYMPOSIUM ON GENERAL TOPICS" ROOM 4	
9:30-10:00	SNB-14ID-305	9:30-10:00	SAPM-09 ID-38	9:30-10:00	SGT-01 ID-40
10:00- 10:30	SNB-15 ID-182	10:00- 10:30	SAPM-10 ID-281	10:00- 10:30	SGT-02ID-153
10:30-11:00	SNB-16 ID-295	10:30-11:00	SAPM-11 ID-39	10:30-11:00	SGT-03ID-214
11:00–11:30	SNB-17 ID-166	11:00–11:30	SAPM-12 ID-179	11:00–11:30	SGT-04ID-307
11:30-12:00	SNB-18 ID-221	11:30-12:00	SAPM-13 ID-226		
		12:00-12:30	SAPM-14 ID-176		

# MACROMEX 2014

XXVII Congreso de la Sociedad Polimérica de México



Plano Centro de Convenciones

## GENERAL PROGRAM MACROMEX 2014

WEDNESDAY DECEMBER 3  
"SYMPOSIUM POLYOLEFINS AND RHEOLOGY"  
ROOM 1 (14:00-18:40)

**SPRI-01 ID-187**

**14:00-14:30 Rheology of polymer nanocomposites: Theory and applications, INVITED**  
Octavio Manero

**SPRI-02 ID-49**

**14:30- 15:00 Zirconocene aluminohydride/methylaluminoxane clathrates for ethylene polymerization in slurry, INVITED**  
Odilia Perez-Camacho

**SPRI-03 ID-19**

**15:00-15:30 Activation of metallocene aluminohydride complexes using methylaluminoxane as studied by electrospray ionization mass spectrometry, INVITED**  
Scott Collins

**SPRI-04 ID-27**

**15:30-16:00 The synthesis of precision polyolefins containing a variety of pendant acid groups, INVITED**  
Ken Wagener

**16:00–16:30 COFFEE BREAK**

**SPRI-05 ID-233**

**16:30-17:00 The solidification rheology of amorphous polymers - vitrification as compared to gelation, INVITED**  
H. Henning Winter

**SPRI-06 ID-298**

**17:00-17:30 Coordination polymerization of a renewable resource monomer using neodymium based catalysts, INVITED**  
R. E. Díaz de León Gómez

**SPRI-07 ID-230**

**17:30-18:00 Converting homogeneous olefin/acetylenic polymerization catalysts into reusable heterogeneous polymer-supported cross-coupling catalysts via self-encapsulation polymerization, INVITED**

Zhibin Ye

**SPRO-08 ID-247**

**18:00-18:20 Kinetic study of the thermal and thermo-oxidative degradation of ethylene-norbornene copolymers,**  
Helia Bibiana León Molina

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**SPRI-09 ID-43**

**18:20–18:40 Ethylene polymerization via metallocenes. An experimental study,**  
Ramiro Infante-Martínez

**THURSDAY DECEMBER 4**  
**“SYMPOSIUM ON BIOMATERIALS”**  
**ROOM 1 (9:00-14:00)**

**SBI-01 ID-66**

**9:00-9:30 Resilin-based hybrid hydrogels for regenerative medicine applications, INVITED**

Kristi L. Kiick

**SBI-02 ID-302**

**9:30-10:00 Polymer scaffold design for tissue engineering, INVITED**

Roberto Olayo.

**SBI-03 ID-53**

**10:00- 10:30 Electrospun scaffolds for the vascular system, INVITED**

R. Vera-Graziano, Alfredo Maciel-Cerda, Raul Montiel-Campos, Atlantida Raya-Rivera, Lizeth Ávila-Gutiérrez, Andromeda AL Monroy-Brera

**SBI-04 ID-209**

**10:30-11:00, Cellulose acetate-poly(vinyl pyrrolidone) coaxial electrospun fibrous membranes containing drugs: preparation and characterization, INVITED**

Mónica Castillo, Ana Gabriela Montaña-Figueroa, Alma Leticia Nájera-Luna, Itzel Yanira López-Peña, Dora Evelia Rodríguez-Felix

**11:00 – 11:30 COFFEE BREAK**

**SBI-05 ID-297**

**11:30-12:00 Deep eutectic solvents: A green chemistry approach for smart drug delivery systems, INVITED**

Gabriel Luna-Bárceñas

**SBI-06 ID-173**

**12:00-12:30 PEGylated poly(amino acid)s – a versatile biopolymer platform, INVITED**

Carmen Scholz, David Ulkoski, Michihiro Iijima, Stephen Bell, Karthik Sola

**SBI-07 ID-178**

**12:30-13:00 Estimation of surface free energy of poly (lactic acid) during UV-grafting with n-vinylpyrrolidone, INVITED**

Mario H. Gutiérrez-Villareal, Francisco Rodríguez-Gonzalez, Yibrán Perera-Mercado,

**SBI-08 ID-86**

**13:00-13:30 Crosslinking in plasma polymers, INVITED**

Guillermo G. Cruz,

**SBI-09 ID-275**

**13:30 – 14:00 Synthesis of thermo- and PH-sensitive polymers for biomedical applications, INVITED**

E. Bucio, H. Iván Meléndez-Ortiz, Carmen Alvarez-Lorenzo, Angel Concheiro



**14:00 – 16:00 LUNCH**

**SBI-10 ID-218**

**16:00-16:30 Biodegradable polyurethanes obtained by a chemoenzymatic route: Synthesis, characterization and degradable behavior, INVITED**

Antonio Martínez-Richa, Karla A. Barrera-Rivera, Victor H. Antolin-Ceron and Angel Marcos Fernández

**SBI-11 ID-266**

**16:30 – 17:00 Isosorbide-based epoxies as bisphenol a replacement and biomaterial, INVITED**

Michael Jaffe, Gabrielle Busto, Anthony J. East, Willis Hammond

**THURSDAY DECEMBER 4**

**“SYMPOSIUM ON PRECISION POLYMER SYNTHESIS”**

**ROOM 3 (9:00-14:00)**

**SPS-01 ID-184**

**9:00-9:30 Macromolecular engineering by atom transfer radical polymerization, INVITED**

Krzysztof Matyjaszewski

**SPS-02 ID-21**

**9:30-10:00 Controlled radical polymerization of main chain fluoroalkenes, INVITED**

Alex Asandei

**SPS-03 ID-168**

**10:00-10:30 Surface-initiated controlled radical polymerization as enabling tool for multifunctional nanocomposite materials with engineered properties, INVITED**

Michael Bockstaller

**SPS-04 ID-20**

**10:30-11:00 Well-defined polymers containing reactive functional groups: synthesis by controlled/living radical polymerization, postpolymerization modifications, and applications, INVITED**

Nicolay Tsarevsky

**11:00 – 11:30 COFFEE BREAK**

**SPS-05 ID-271**

**11:30-12:00 Production of low MW reactive polymers by conventional and controlled radical (co) polymerization, INVITED**

Robin Hutchinson



**SPS-06 ID-287**

**12:00-12:30 Robust semibatch process for nitroxide mediated radical emulsion polymerization using first and second generation nitroxides, INVITED**

Enrique Saldívar-Guerra

**SPS-06 ID-109**

**12:30-13:00 Synthesis of isoprene copolymers via controlled radical polymerization,**

David Contreras López, Enrique Saldívar Guerra, Martha E. Albores Velasco

**SPS-07 ID-5**

**13:00 – 13:30 New amphiphilic molecules using RAFT polymerization,**

Héctor Manuel Tello Mañón, Isabel Sáenz de Buruaga Yurramendi, Rafael García González, Ramiro Guerrero Santos, Miguel Ángel Macías Contreras

**SPS-08 ID-7**

**13:30 – 14:00 Chitosan modification via nitroxide-mediated polymerization and “grafting to” approach in homogeneous media,**

Omar García Valdez, Sean George, Rachel Champagne-Hartley, Enrique Saldívar-Guerra, Pascale Champagne, Michael F. Cunningham

**THURSDAY DECEMBER 4**

**“GENERAL TOPICS”**

**ROOM 3 (16:00-17:30)**

**SGT-01 ID-190**

**16:00-16:30 Cure-on-demand polymerizations using the urease-catalyzed hydrolysis of urea to trigger thiol-acrylate polymerization, INVITED**

John Pojman

**SGT-02 ID-14**

**16:30-17:00 Synthesis and thermal properties of methacrylic polymers with a pendant zwitterionic moiety, INVITED**

Judith Cardoso

**SGT-03 ID-256**

**17:00-17:30 Thermodynamic parameters of fluoride ion adsorption by a biopolymer, INVITED**

Beatriz García-Gaitán

THURSDAY DECEMBER 4  
"SYMPOSIUM NANOCOMPOSITES AND BLENDS"  
ROOM 4 (9:00-14:00)

**SNB-01 ID-96**

**9:00-9:30 A study of the stress transfer mechanisms in hierarchical composite materials, INVITED**

Pedro Herrera-Franco

**SNB-02 ID-71**

**9:30-10:00 Taking advantages of the unique properties at nanoscale of the zinc oxide for the development of functional polymer materials: From particle synthesis to final applications, INVITED**

Graciela Morales

**SNB-03 ID-64**

**10:00-10:30 Microwave assisted synthesis of polymer nanohybrids, INVITED**

Carlos A. Avila-Orta

**SNB-04 ID-99**

**10:30-11:00 Hybrid conducting hydrogels and nanofibers of poly (vinyl alcohol) and polyaniline-coated halloysite nanotubes synthesized by biomimetic polymerization, INVITED**

Jorge Romero

**11:00-11:30 COFFEE BREAK**

**SNB-05 ID-113**

**11:30-12:00 Optimization of absorption of copper nanoparticles in chitosan-PVA hydrogels and their antimicrobial activity,**

Hortensia Ortega-Ortiz

**SNB-13 ID-04**

**12:00-12:30 Syntheses of tio<sub>2</sub>/polypyrrole nanocomposites photoactive under visible light using anionic and cationic surfactants,**

Victor M. Ovando-Medina, Blanca E. Castillo-Reyes, Pedro A. Alonso-Dávila, Elias Perez, Hugo Martinez

**SNB-07 ID-130**

**12:30-13:00 Nylon 6 nanofibers reinforced with nitroxide-functionalized graphene oxide,**

José Bonilla-Cruz

**SNBO-08 ID-284**

**13:00-13:30 Designing of thermally-activated shape memory bio-nanocomposites,**

Laura Peponi

**SNB-09 ID-162**

**13:30-14:00 Comparison on the properties of high-density polyethylene / expanded graphite composites obtained by extrusion and mixing chamber compounding,**

Mónica Mendoza



**THURSDAY DECEMBER 4**

**“SYMPOSIUM NANOCOMPOSITES AND BLENDS”**

**ROOM 4 (16:00-17:50)**

**SNB-10 ID-276**

**16:00-16:20 Effect of different nature nanoparticles surface modification on polymer nanocomposites thermal conductivity,**

Yeraldin Olivares-Maldonado, Eduardo Ramirez-Vargas, Luis Francisco Ramos-de Valle, María Guadalupe Neira-Velázquez

**SNB-14 ID-31**

**16:20-16:40 A comparative study of the thermal and mechanical properties of nanocomposites, prepared from polyurethanes based on  $\alpha$ - $\omega$ -telechelic poly( $\epsilon$ -caprolactone) Diol and Functionalized Carbon Nanotubes,**

Victor Antolin, Hamed Jalife, Karla Barrera, Sergio Nuño, Antonio Martinez

**SNB-11 ID-223**

**16:40-17:00 thermo-mechanical properties of polymer nanocomposites with functionalized carbon materials of 1 and 2 dimensions,**

Carlos Velasco-Santos, Fabiola Navarro-Pardo, Lourdes Ramos-Galicia, Ana Laura Martínez-Hernández, Rosalba Fuentes-Ramirez, Jose Luis Rivera-Armenta

**SNB-12 ID-85**

**17:00-17:20 Nanocomposites as coatings based in polymer resins and silicon dioxide nanoparticles,**

Belinda Murillo-Segovia, Esaú Aguillon-Rojas, Ana Martínez-Hernández, Walter López-Gonzalez, Claudia Rodríguez-Gonzalez, Carlos Velasco-Santos.

**SNB-06 ID-124**

**17:20-17:50 Different strategies to improve carbon nanotubes dispersion on a polymer used as a matrix of carbon nanotubes-based nanocomposites, INVITED**

Sergio Manuel Nuño Donlucas

**THURSDAY DECEMBER 4**

**“POSTER SESSION I”**

**ROOM 2 (18:00-20:00)**



**FRIDAY DECEMBER 5**  
**“SYMPOSIUM ON SMART POLYMERS”**  
**ROOM 1 (9:00-14:00)**

**SSP-1 ID-280**

**9:00-9:30 Programming polymeric materials with biomolecules, INVITED**

Nathan Gianneschi

**SSP-02 ID-269**

**9:30-10:00 Distributed water leakage polymer sensor, INVITED**

Alfredo Marquez

**SSP-03 ID-224**

**10:00-10:30 Stimuli-responsive and self-repairing polymer networks, INVITED**

Marek Urban

**SSP-04 ID-22**

**10:30-11:00 Responsive assemblies of stimuli-responsive polymers, INVITED**

Brent S. Sumerlin

**11:00–11:30 COFFEE BREAK**

**SSP-05 ID-26**

**11:30-12:00 Poly(N,N-diethylaminoethyl methacrylate) (PDEAEM) and PEG-b-PDEAEM block copolymers for the controlled synthesis of gold nanoparticles, INVITED**

Angel Licea-Claverie

**SSP-06 ID-257**

**12:00-12:30 Stimuli responsive polymer colloids using carbon dioxide as a trigger, INVITED**

Michael Cunningham

**SSP-07 ID-142**

**12:30-13:00 Soft multi-faced colloids by constrained volume self-assembly, INVITED**

Rodney Priestley

**SSP-08 ID-69**

**13:00–13:30 Hierarchical porous polymers from polymerization of non-aqueous pickering high internal phase emulsions,**

Josue D Mota-Morales



**FRIDAY DECEMBER 5**  
**“SYMPOSIUM ON SMART POLYMERS”**  
**ROOM 1 (16:00-17:00)**

**SSP-10 ID-68**

**16:00–16:20 Surface Initiated NMP through stable latex of block copolymers PAA-b-PS-b-PAA**

Claude St Thomas

**SSP-11 ID-204**

**16:20-16:40 Synthesis, characterization and application of reversible ultra-hydrophobic polymer surfaces**

Derek Lohmann

**SSP-12 ID-167**

**16:40-17:00 Polyelectrolyte brushes: water content, zeta potential, molecular transport and mechanical properties**

Sergio Moya

**FRIDAY DECEMBER 5**  
**“SYMPOSIUM ON ADVANCED POLYMER MATERIALS: OPTOELECTRONICS AND NANOMATERIALS”**  
**ROOM 3 (9:00-14:00)**

**SAPM-01 ID-105**

**9:00-9:30 Morphology and charge separation in all-conjugated block copolymers, INVITED**

Rafael Verduzco

**SAPM-02 ID-234**

**9:30-10:00 Templated and patterned electropolymerization of conducting polymers: From nanopatterns to sensors, INVITED**

Rigoberto Advincula

**SAPM-03 ID-75**

**10:00-10:30 Design and synthesis of liquid-crystalline polymers for optical applications, INVITED**

Dámaso Navarro

**SAPM-04 ID-12**

**10:30-11:00 Organic/Inorganic hybrids for optoelectronic applications,**

Rudolf Zentel



**11:00-11:30 COFFEE BREAK**

**SAPM-05 ID-270**

**11:30-12:00 Percolation, tie-lines, and the microstructural determinants of charge transport in semicrystalline conjugated polymers, INVITED**

Andrew Spakowitz

**SAPM-06 ID-306**

**12:00-12:30 Pyrene-dendronized porphyrins exhibiting fluorescence resonance energy transfer (FRET), INVITED**

Ernesto Rivera-García

**SAPM-07 ID-132**

**12:30-13:00 Induced birefringence of photosensitive Ag nanoparticle/LC azopolyester nanocomposites,**

Leticia Larios-López

**SAPM-08 ID-273**

**13:00-13:30 A Facile method to make nanoparticles: Semicontinuous heterophase polymerization, INVITED**

Jorge Puig

**SAPM-09 ID-268**

**13:30-14:00 Studies on the self-assembly of PS-PNIPAM, INVITED**

Roberto Alexander-Katz

**FRIDAY DECEMBER 5**

**“SYMPOSIUM ON SIMULATION AND POLYMER REACTION ENGINEERING”**

**ROOM 3 (15:30-18:00)**

**SSO-01 ID-283**

**15:30-16:00 modeling the kinetics of monolith formation by RAFT copolymerization of styrene and divinylbenzene using a multifunctional polymer molecule approach, INVITED**

Eduardo Vivaldo-Lima

**SSO-02 ID-169**

**16:00-16:30 Dynamic void distribution in myoglobin and five mutants, INVITED**

Isaac Sanchez

**SSO-03 ID-10**

**16:30-17:00 Polystyrene pickering polymerization: Mechanistic events, INVITED**

Francisco López-Serrano

**SSO-04 ID-186**

**17:00-17:30 Kinetics and mechanism of emulsion polymerization: Advances and challenges, INVITED**

Jorge Herrera-Ordóñez

**SSO-05 ID-312**

**17:30-18:00 Model-based design of chain microstructures and precision production of polymer materials: an emerging trend in polymer reaction engineering, INVITED**

Shiping Zhu

**FRIDAY DECEMBER 5**

**“SYMPOSIUM ON BIOMATERIALS”**

**ROOM 4 (9:00-12:00)**

**SBI-11 ID-9**

**9:00-9:30 New high frequency relaxation in chitosan and PVA, INVITED**

Evgen Prokhorov, SivaKumar-Krishnan, Gabriel Luna-Barcenas, Araceli Mauricio-Sanchez, Olimpia Areas de Fuentes

**SBI-12 ID-188**

**9:30-10:00 “Living” enzymatic polycondensation polymerizations: towards new DNA nanostructures, INVITED**

Stefan Zauscher

**SBI-13 ID-299**

**10:00-10:30 Acrylic bone cements: Past, present and future as biomaterials to secure prostheses, INVITED**

Eduardo Mendizábal

**SBO-15 ID-46**

**10:30 – 10:50 Synthesis and characterization of polymers derived from renewable resources,**

Luis Cabrales

**11:00 – 11:30 COFFEE BREAK**

**SBO-16 ID-250**

**11:30-11:50 Isosorbide-based epoxies as biomaterials and bisphenol a diglycidyl ether replacement,**

Gabrielle Busto, Anthony J. East, Willis Hammond, Michael Jaffe

**SBO-17 ID-84**

**11:50-12:10 Thermo-mechanical and degradation properties of green polymer composites based -starch-chitosan and keratin from feathers as reinforcement,**  
Cynthia Flores-Hernandez, Arturo Colín-Cruz, Ana Martínez-Hernández, Carlos Velasco-Santos, Victor Castaño-Meneses

**SBO-18 ID-139**

**12:10-12:30 Synthesis and characterization of polymeric microenvironments for tissue regeneration,**  
Miriam V. Flores-Merino

**SBO-19 ID-121**

**12:30-12:50 Synthesis of poly(urea-amide)urethanes prepared with amino acids,**  
Lerma Hanaiy Chan-Chan

**FRIDAY DECEMBER 5**

**“SYMPOSIUM POLYMER MATERIALS ENGINEERING”**

**ROOM 4 (16:00-18:00)**

**SPME-01 ID-231**

**16:00-16:30 Processing optimization of a polymer blend based on recycled polystyrene and styrene-butadiene rubber, INVITED**  
Denis Rodrigue

**SPME-02 ID-225**

**16:30-17:00 Self – Assembly and heterophase polymerization, INVITED**  
René Peralta

**SPME-04 ID-62**

**17:00-17:30 Development of low shrinkage polymers by using expanding monomers, INVITED**  
Ricardo Acosta

**SPME-03 ID-313**

**17:30-18:00 Pickering emulsions, INVITED**  
Esther Treviño-Martínez

**FRIDAY DECEMBER 5**

**“POSTER SESSION II”**

**ROOM 2 (18:00-20:00)**



**SATURDAY DECEMBER 6**

**“SYMPOSIUM NANOCOMPOSITES AND BLENDS”**

**ROOM 1 (9:30-12:30)**

**SNB-14 ID-305**

**9:30-10:00 Magnetic and dielectric polymer nanocomposites: Synthesis, characterization and applications, INVITED**

L.A. García-Cerda

**SNB-15 ID-182**

**10:00-10:30 182, Novel nano-reinforced polymeric systems for biocompatible and biodegradable applications, INVITED**

Francisco J Medellin

**SNB-16 ID-295**

**10:30-11:00 Conspectus of current polymer-related graphene research at CIQA, INVITED**

Ronald F. Ziolo

**SNB-17 ID-166**

**11:00-11:30 Graphite nanoplatelets composites: Processing method effect, Iván Alziri Estrada-Moreno, Mónica Elvira Mendoza-Duarte, César Cutberto Leyva-Porras, Sergio Gabriel Flores-Gallardo, José Luis Rivera-Armen**

**SNB-18 ID-221**

**11:30-12:00 Thermo-mechanical properties of polyester resin nanocomposites reinforced with carbon nanotubes modified by oxidation and gamma radiation.**

Ana Laura Martínez-Hernández, Maria de los Angeles Gualito-Soto, Carlos Velasco-Santos, Jose Luis Rivera-Armenta, Gonzalo Martínez-Barrera.

**SATURDAY DECEMBER 6**

**“SYMPOSIUM ON ADVANCED POLYMER MATERIALS: MEMBRANES”**

**ROOM 3 (9:30-12:30)**

**SAPM-09 ID-38**

**9:30-10:00 Cationic polymers for anion exchange membranes, INVITED**

Michael Hickner

**SAPM-10 ID-281**

**10:00-10:30 Tuning gas permeability and selectivity properties by thermal modification of the side groups of poly(oxindolebiphenylene)s membranes, INVITED**

Alberto Ruiz-Treviño

**SAPM-11 ID-39**

**10:30-11:00 Structure/property relationships in polymer membranes for water and energy, INVITED**

Geoffrey Geise

**SAPM-12 ID-179**

**11:00-11:30 Novel polymeric membranes for forward and pressure retarded osmosis, INVITED**

Jeffrey McCutcheon

**SAPM-13 ID-226**

**11:30-12:00 Gas permeability and selectivity of MCHDI polyurethane-urea block copolymers: Effect of increasing rigid urea block size, INVITED**

Manuel Aguilar-Vega

**SAPM-14 ID-176**

**12:00-12:30 Search for alternative styrenic membranes for PEM fuel cells, INVITED**

Roberto Benavides

**SATURDAY DECEMBER 6**

**“SYMPOSIUM ON GENERAL TOPICS”**

**ROOM 4 (9:30-11:30)**

**SGT-01 ID-40**

**9:30:00-10:00 Effect of dose and temperature on the physical properties of an aliphatic thermoplastic polyurethane irradiated with an electron beam, INVITED**

Angel Marcos-Fernandez

**SGT-02 ID-153**

**10:00-10:30 Polymerization fronts of acrylic monomers in deep eutectic solvents using microfluidics,**

Irais Quintero-Ortega

**SGT-03 ID-214**

**10:30-11:00 Rotomolded LMDPE-Agave fiber composites: Effect of fiber chemical modification on the mechanical properties,**

Jorge R. Robledo Ortiz, Rubén González Núñez, Denis Rodrigue

**SGT-04 ID-307**

**11:00-11:30 Degradation of rubber and industrial waste rubber via metathesis using new generation catalysts. (Premio major tesis en polímeros 2011-2013)**

Selena Gutiérrez-Flores, Mikahail A. Tlenkopatchev

**PROGRAM POSTERS**  
**(DIMENSIONS, 90 CM WIDE AND 120 CM HIGH)**

THURSDAY DECEMBER 4

SESSION POLYOLEFINS

CODE	ID	TITLE	AUTHORS
POP-01	ID-18	Crystallinity and melting temperature of polyethylene in the double yield region.	Angel Manzur
POP-02	ID-25	In situ polymerization of ethylene with CNT and/or Cu nanoparticles using zirconocene aluminohydride complexes on heterogeneous phase.	Cristal Cabrera Miranda, Odilia Pérez Camacho, J. Guillermo Martínez Colunga, Maricela García Zamora, Carlos A. Ávila Orta.
POP-03	ID-42	Prediction of molecular weight distribution in chain growth polymerizations.	Ramiro Infante-Martínez, Enrique Saldívar-Guerra, Odilia Pérez-Camacho, Maricela García-Zamora, Víctor Comparán-Padilla.
POP-04	ID-44	SAXS characterization of asphaltenes.	Raúl Montiel, Lina Morantes, Roberto Olayo-Valles.
POP-05	ID-120	Rheological characterization of polyethylene resins used in extrusion blow-molded films.	Javier Gudiño, Rubén Saldívar, Norberto Aguilar.
POP-06	ID-148	Studies on rheological behavior of commercial blends involving lldpe, ldpe and hdpe, using a torque rheometer.	Rosalba Leal, Laura Martínez, Javier Gudiño, Rubén Saldívar.
POP-07	ID-244	Metathesis depolymerization of chicozapote (manilkara zapota).	Sonia Reyes, Mikhail Tlenkopatchev.
POP-08	ID-245	Polymerization of N-vinylcarbazole with (indenyl)titanium trichloride catalyst activated methylaluminumoxane.	Noemi Jardon Maximino
POP-09	ID-277	Preparation and characterization of PE-clay-silver nanocomposites with different compatibilizers.	María Cristina Ibarra Alonso, Saúl Sánchez Valdés, Eduardo Ramírez Vargas, María Guadalupe Méndez Padilla, Myriam Lozano Estrada.

THURSDAY DECEMBER 4  
SESSION SMART POLYMERS

CODE	ID	TITLE	AUTHORS
SPP-01	ID-37	Core-shell NVCL-comonomer:PEGMA nano/microgels by soap less emulsion polymerization: nanogels with tailored transition temperature.	Mirian Angelene González Ayón, Angel Licea Claverie, Josefa Adriana Sañudo Barajas.
SPP-02	ID-54	Au nanoparticles supported on aminopropyl functionalized silica particles as catalyst for the selective oxidation of styrene	Dalia Carolina Martinez Leija, Ivana Moggio, José Romám Torres Lubián, Carlos Alberto Gallardo Vega, Jorge Romero García, Eduardo Manual Arias Marin
SPP-03	ID-100	Nanoparticles of polymers synthesized by plasma polymerization.	Miguelina Vásquez-Ortega, Mauricio Ortega-López, Juan Morales-Corona, Roberto Olayo.
SPP-04	ID-111	Physicochemical study of copolymers containing sodium aminophenylarsonate and aminophenylarsonic acid moieties.	Guillermo Soriano, Judith Percino, Margarita Cerón, María Eugenia Castro, Víctor M. Chápela
SPP-05	ID-141	Synthesis of poly (butyl acrylate) nanoparticles from nanoemulsion polymerization by pit method.	Abraham Gabriel Alvarado, Arturo Dueñas, Eduardo Mendizabal, Martin Rabelero, Jorge E Puig, Francisco Javier Moscoso.
SPP-06	ID-147	Iron oxide magnetic nanoparticles coated by plasma polymerization for biomedical applications.	Roberto Olayo-Valles, Luis E. González-Calderón, Juan Morales-Corona.
SPP-07	ID-195	Morphology of silver nanoparticles based on polyelectrolyte thermosensitive hydrogels: effect of the carboxylate counterion.	Tania E. Lara-Ceniceros, Diana E. García-Terán, Irazihuatl Luna-Rodríguez, José Bonilla-Cruz.
SPP-08	ID-215	Polyethyleneglycol as reductor and stabilizer in the synthesis of gold nanoparticles of smart polymers.	Tania E. Lara-Ceniceros, Xochitl Y. Luna-Rodríguez, Luis A. Ramírez-Leal.
SPP-09	ID-222	Cellulose as an infrared sensing material.	Alejandro Jose Gimenez Gomez, J. Martin Yanez Limon, J. Gabriel Luna Barcenas.
SPP-10	ID-239	Synchrotron scattering of the evolution of microstructure in shape memory liquid crystalline elastomers.	Angel Romo-Urbe, Patrick Mather.
SPP-11	ID-254	Amberlite XAD-1180 Impregnated with an Ionic Liquid for Au(III) Recovery.	Ricardo Navarro Mendoza, Miguel Angel Lira Casillas, T. Imelda Saucedo Medina, Alejandro Alatorre Ordaz, Mario Avila Rodríguez, Eric Guibal.
SPP-12	ID-296	A smart drug in a smart polymer: piracetam/poly( $\epsilon$ -caprolactone) blends.	Bonifacio Alvarado-Tenorio, Alejandro Martínez-Martínez, Raquel González-Fernández, Ángel Díaz-Sánchez, José Valero-Galván, Ángel Romo-Urbe.

THURSDAY DECEMBER 4

SESSION ADVANCED POLYMER MATERIALS: OPTOELECTRONICS, MEMBRANES AND NANOMATERIALS

CODE	ID	TITLE	AUTHORS
APMP-01	ID-13	Synthesis and characterization of macroporous resins from poly(4-vinylpyridine) and divinylbenzene functionalized by ampholytes groups	Jose Antonio Arcos, Judith Cardoso
APMP-02	ID-15	Morphological and electrochemistry properties of polymer electrolytes	Dora Nava, Gregorio Guzmán, Judith Cardoso, Ignacio González
APMP-03	ID-45	Tubular scaffold of PGS-PCL production via electrospinning for regeneration of veins and aorta	Andrómeda Monroy-Brera, Ricardo Vera-Graziano, Raúl Montiel.
APMP-04	ID-47	Mesomorphic and optical properties of ionic liquid-crystalline copolymers	ROSA JULIA RODRIGUEZ-GONZÁLEZ, LETICIA LARIOS-LOPEZ, GEMINIANO MARTINEZ-PONCE, DAMASO NAVARRO-RODRIGUEZ
APMP-05	ID-55	Morphology and conductivity tuning of polyaniline using short-chain alcohols by heterophase polymerization	Miguel Angel Corona Rivera, Víctor Manuel Ovando-Medina, Francisca Erendira Silva-Agular, Elias Pérez.
APMP-06	ID-67	Synthesis and characterization of novel liquid-crystalline polymers bearing cyano-biphenylazobenzene or cyano-azotolane groups	Olga Lidia Torres-Rocha, Leticia Larios-López, Coleen Pugh, Xiang Yan, Dámaso Navarro-Rodríguez.
APMP-07	ID-80	Electromagnetic Absorption Of Organometallic Polypyrrole-Ti Plasma Compounds	FRANCISCO GONZÁLEZ-SALGADO, GUILLERMO J. CRUZ, GENOVEVA GARCÍA-ROSALES, LIDIA M. GÓMEZ, MARIBEL GONZÁLEZ-TORRES.
APMP-08	ID-122	Sulfonation of commercial polysulfones UDEL and RADEL for membranes of reverse osmosis	Marcial Yam-Cervantes, María Loría-Bastarrachea, José Santiago-García, Manuel Aguilar-Vega.
APMP-09	ID-137	Gas transport properties of novel aromatic polyamides containing dibenzobarrelene pendant groups	José Luis Santiago García, José Manuel Pérez Francisco, María Isabel Loría Bastarrachea, Manuel de Jesús Aguilar Vega.
APMP-10	ID-158	Synthesized and characterization of novel oligothiophenes bearing pyrene and fullerene units	Lorena García Uriostegui, Ernesto Rivera.
APMP-11	ID-183	Pure gas permeation of membranes obtained from a novel polyimide (PI BTD-MIMA) /polibenzimidazole blends,	José Manuel Pérez-Francisco, Manuel de Jesús Aguilar-Vega, José Luis Santiago-García, María Isabel Loría-Bastarrachea.
APMP-12	ID-202	Optimal conditions for grow a thin film with a SOL-GEL method	Orlando Ortiz-Jiménez, Daniel A. Razo-Medina, Mónica Trejo-Duran, Edgar Alvarado-Méndez, Ruth I. Mata-Chávez.

THURSDAY DECEMBER 4

SESSION ADVANCED POLYMER MATERIALS: OPTOELECTRONICS, MEMBRANES AND NANOMATERIALS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
APMP-13	ID-203	Crosslinked PVA and PAA membranes containing sulfonic acid groups: effect of cross-linking on the swelling degree and ion exchange capacity	María Gloria Aca-Aca, Manuel de Jesús Aguilar-Vega, María Isabel Loría-Bastarrachea, José Luis Santiago-García.
APMP-14	ID-210	Ultrasonic dispersion of silver nanoparticles in ethylene vinyl acetate copolymer.	Anayansi Estrada, David Alfonso Camarena Pozos, María Inés García Morales.
APMP-15	ID-240	Graphene oxides modification with poly(phenyleneethynylene)s by microwave-assist for solar cell applications	Gleb Turlakov, Eduardo Manuel Arias Marín, Ronald Ziolo, Ivana Moggio, Rosa Martha Jiménez Barrera, Pablo González Morones.
APMP-16	ID-246	Control Of Preparation Process To Form A Sol-Gel Membrane Deposited In Plastic Fiber Optic For pH Detection	DANIEL ALBERTO RAZO MEDINA, ORLANDO ORTIZ JIMÉNEZ, EDGAR ALVARADO MÉNDEZ, MÓNICA TREJO DURAN.
APMP-17	ID-261	Develop of polymeric membranes by electrospinning for water desalination	Yareni Aguilar Costumbre, Vladimir Alonso Escobar Barrios, Juliette Alexandra Lambert.
APMP-18	ID-272	Copolymers Environmentally Friendly. Use In Synthesis of Metal Nanoparticles	Ángel Leiva, Marcela Urzúa, Sebastián Bonardd, Maximiliano Pino, Maximiliano Méndez.
APMP-19	ID-289	Celullose acetate-conducting polymer composite membrane preparation and its application in adsorption of gold-iodide complex	Irela Santos Saucedo, M. Mónica Castillo Ortega, J. Carmelo Encinas, D. Evelia Rodríguez Félix, Teresa Del Castillo Castro, Francisco Rodríguez Félix, J. Leobardo Valenzuela García, L. Sergio Quiroz Castillo, P. Jesús Herrera-Franco.
APMP- 20	ID-301	Design of new polymeric materials with chemical applications	Rosa María Gómez Espinoza

THURSDAY DECEMBER 4

SESSION PRECISION POLYMER SYNTHESIS

CODE	ID	TITLE	AUTHORS
PSP-01	ID-3	Development of New Polymeric Materials From $\epsilon$ -Caprolactam and Starch	MARÍA GUADALUPE RODRÍGUEZ DELGADO, FRANCISCO JAVIER RODRÍGUEZ GONZÁLEZ, ODILIA PÉREZ CAMACHO.
PSP-02	ID-50	Oligomeric dispersants based on maleamic acid copolymers	MARICELA GARCÍA-ZAMORA, MILDRED FLORES-GUERRERO, ODILIA PÉREZ-CAMACHO.
PSP-03	ID-51	Synthesis and characterization of the exclusion bio-copolymer (l-Lactic-glicólic) Acid	Mariana Gutiérrez Sánchez, Francisco Javier Medellín Rodríguez.
PSP-04	ID-61	Solution Polymerization of MMA in an Ionic Liquid Employing Cyclic Multifunctional Initiators	Karla Delgado Rodríguez, Graciela Morales, Pablo Acuña, Javier Enríquez, Gastón P. Barreto.
PSP-05	ID-87	Evaluation of an acrylonitrile-based polymer in a wet extrusion system to obtain carbon fibers	Juan Carlos Tapia Picazo, Daniel Alcalá Sánchez, Cesar Arturo Muñoz Gallegos.
PSP-06	ID-110	Synthesis of Au Nanoparticles coated with poly(N-isopropilacrylamide) folic acid functionalized	Gema Danira García Olaiz, Norma Aidé Cortez Lemus, Ángel Licea Claverie.
PSP-07	ID-143	Polimerization of styrene by reverse ATRP in $scCO_2$	Claudia Patricia Rosales Velázquez, Enrique Díaz Barriga, José Román Torres Lubian, Enrique Saldivar Guerra.
PSP-08	ID-161	Synthesis of Polypyrrole with Peroxidase Enzyme and Redox Mediators of Natural Origin.	Génesis Adilene Grijalva Bustamante, Teresa Del Castillo Castro, Mónica Castillo Ortega, Francisco Rodríguez Félix.
PSP-9	ID-177	Model compounds from the functionalization of silanols with TEMPO as a direct measure for the Si-O-Si or Si-O-N bond	Judith Percino, José Pacheco, Guillermo Soriano-Moro, et al.
PSP-10	ID-180	Tailoring multi-purpose catechol-functional polyethers by copolymerization of catechol-acetonide glycidyl ether with ethylene oxide or glycidol	Kerstin Niederer, Holger Frey, Christoph Schuell.
PSP-11	ID-189	Variations on RAFT polymerization of vinyl acetate in miniemulsion	Tania Segura, René Peralta, Ramiro Guerrero, Judith Cabello.
PSP-12	ID-199	Synthesis of Crosslinked and Functionalized Polystyrene by Miniemulsion Polymerization: Particle Size Control.	Nidia Estrada, René Peralta, Odilia Pérez, Gladis Cortez.
PSP-13	ID-200	Tacticity in the ADMET Reaction	Ken Wagener, Chip Few.
PSP-14	ID-238	Antimicrobial latexes	Jaime González Villa, Ramiro Guerrero Santos.



THURSDAY DECEMBER 4

POSTER SESSION POLYMER SYNTHESIS(CONTINUATION)

CODE	ID	TITLE	AUTHORS
PSP-15	ID-258	Syntheses of High Impact Polystyrenes from Heterogeneous Solutions by an in situ Bulk Polymerization Process	Gabriela Bosques, Florentino Soriano, Francisco Javier Enríquez, Ramón Enrique Díaz de León, José Francisco Hernández Gámez.
PSP-16	ID-259	Synthesis of Poly(acrylonitrile-butadiene-styrene) (ABS) by an in situ Bulk Polymerization Process	Patricia De León Martínez, Ramón Enrique Díaz de León Gómez, Francisco Javier Enríquez Medrano, Florentino Soriano Corral, José Francisco Hernández.
PSP-17	ID-314	Porous polymer synthesized via polymerization of nonaqueous deep-eutectic solvent-based HIPes	M. Guadalupe Perez-García, Josue Mota-Morales, Arturo Carranza, Jorge E. Puig, John A. Pojma, Gabriel Luna-Barcenas



THURSDAY DECEMBER 4

SESSION NANOCOMPOSITES AND BLENDS

CODE	ID	TITLE	AUTHORS
NBP-01	ID-6	Flame retardant systems optimized by extrusion/ultrasound online on polyolefin nanocomposites	Guadalupe Sánchez-Olivares, Antonio Sanchez-Solis, Fausto Calderas, Luis Medina-Torres, Juana Isabel Castro-Aranda, Octavio Manero.
NBP-02	ID-23	Preparation and characterization of PVA/TiO <sub>2</sub> Nanocomposites	Laura Ivone Silva de la Cruz, Francisco Javier Medellín Rodríguez, Carlos Velasco Santos.
NBP-03	ID-34	Synthesis and characterization of acid nanogels containing poly(ethylene glycol) (PEG) as potential candidates for controlled drug delivery.	MELISSA DÍAZ DUARTE-RODRÍGUEZ, ÁNGEL LICEA-CLAVERÍE, NORMA AIDÉ CORTES-LEMUS, ARTURO ZIZUMBO-LÓPEZ.
NBP-04	ID-35	Elastomeric Nanocomposites based on Multiwall-carbon Nanotubes	Donald Paul, Sateesh Peddini, Christopher Ellison, Nancy Henderson, Clive Bosnyak.
NBP-05	ID-48	Nanocomposite of acicular rod-like ZnO nanoparticles and semiconducting polypyrrole photoactive under visible light irradiation for dye photodegradation	Víctor M Ovando-Medina, Raúl G López, Blanca E Castillo-Reyes, Jaime E.A. Orozco, Hugo Martínez-Gutiérrez, Pedro A. Alonso-Dávila.
NBP-06	ID-63	Performance of Zinc Oxide as Catalyst for the Polymerization and Grafting Reactions in the Microwave-Assisted Synthesis of Poly(D,L-Lactide)/Zinc Oxide Nanocomposites	Heriberto Rodríguez, Graciela Morales, Javier Enríquez, Daniel Grande.
NBP-07	ID-83	Preparation and characterization of a thermoplastic matrix of poly-ε- caprolactone with chitosan for removing heavy metals in the wastewater treatment	Oscar Velasco, Miquel Gimeno, Ricardo Beristain, Keiko Shirai.
NBP-08	ID-90	Influence of Morphological Characteristics on the Thermal Properties of Magnesium Hydroxide Particles obtained by Microwaves-Assisted Synthesis	Heberto Ortiz-Vázquez, Graciela Morales, Oliverio Rodríguez-Fernández, Carlos Espinoza-González, Daniel Grande, Luis Valdés-García.
NBP-09	ID-93	Graphene Nanoribbon PEDOT/PSS Nanocomposites: Optical Properties and Organic Memory Application	Daniel Hernández-Arriaga, Israel A. Rosales-Gallegos, Marisol Reyes-Reyes, Román López-Sandoval, J. Manuel Flores-Camacho, Luis Felipe Lastras-Martínez, Judith Percino, Guillermo Soriano-Moro, Víctor M. Chápela.
NBP-10	ID-114	Effect of the addition of chitosan and polyethylene-graft-maleic on the degradability of extruded polyethylene blends	Jesús Manuel Quiroz-Castillo, Dora Evelia Rodriguez-Felix, Heriberto Grijalva-Monteverde, Pedro Jesús Herrera-Franco.
NBP-11	ID-115	Synthesis of macroporous chitosan spheres in an acrylamide polymer matrix and its use	Agustin Martinez-Ruvalcaba, Juan Carlos Sanchez-Diaz, Luis Emilio Cruz-Barba, Hector Ortiz-ibarra.

THURSDAY DECEMBER 4

SESSION NANOCOMPOSITES AND BLENDS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
NBP-12	ID-125	Thin films of chitosan/pyrrolil quinone for adsorption of fluoride and nitrites.	Melissa Tapia Juárez, J. Betzabe González Campos, Luis Chacón.
NBP-13	ID-131	DGEBA/1,2-DCH resin modified by preheating with polydimethylsiloxane-DGE ended.	Humberto Vázquez-Torres, José A. Arcos-Casarrubias, José Manuel Cervantes-Uc.
NBP14	ID-133	Comparative study of plastic films bonded to cellulose as bilayer materials	Magdalena Trujillo, Alejandro Vargas, Alfredo Maciel, Marissa Morales.
NBP-15	ID-140	Improving of adhesive properties by halloysite in pressure sensitive adhesives	Rubén Enrique Álvarez-Maldonado, Georgina Montes-de-Oca-Ramírez, Sergio Barrientos-Ramírez.
NBP-16	ID-144	Organic memory devices produced with an easy-constructed complex-matrix of CNx nanotubes/Ag nanoparticles/PEDOT: PSS.	Gonzalo Delgado-Rivera, Erick O. Martínez-Armendáriz, Marisol Reyes Reyes, Román López-Sandoval.
NBP-17	ID-145	Preparation of hydrogel nanocomposites of poly(2-hydroxyethyl methacrylate) filled with cellulose nanofibers	Arturo Zizumbo López, Ángel Licea Claverie, José Antonio Piña Acosta.
NBP-18	ID-150	Chemical functionalization of titanium dioxide nanoparticles to improve rheology parameters and its dispersion in white pigmented paints and films.	Victoria González, Lizbeth Guzmán, Diana L. Zapata, Elías Pérez, Amir González.
NBP-19	ID-154	Effect of carbon nanostructure geometry in the mechanical behavior of polymer nanocomposites	Mariamne Dehonor, Luis Lugo-Urbe, Mario Loza-Quintanar, José Manuel Rojas-García, Felipe Cervantes-Sodi.
NBP-20	ID-155	Biologically extracted chitin nanowhiskers and its use as fillers with enzymatically synthesized poly-(caprolactone) for preparation of nanocomposites	Andrés Espadín-Dávila, Miquel Gimeno, Alberto Tecante, Humberto Vázquez-Torres, Cristina Velasquillo, Keiko Shirai.
NBP-21	ID-159	Development and characterization of a special polyacrylonitrile fiber and nanotechnology products.	Juan Carlos Tapia-Picazo, Karen Anly Campos-Santana
NBP-22	ID-163	Studies of the chemical foams in compounded materials made of recycled HDPE with mineral fillers evaluating the physical-mechanical performance	J. Sergio Hernández V., Edith Chávez Lindos, José López Rivera, José Javier Borjas R.
NBP-23	ID-164	Effect on the thermal and rheological properties of PLA nanocomposites formulated with two different graphite fillers	Monica Mendoza, Ivan Estrada, Erika Lopez, Daniel Lardizabal, Sergio Flores
NBP-24	ID-165	Electrical Relaxation of Expanded Graphite and Graphite Nanoplatelets Composites	Iván Alziri Estrada-Moreno, Mónica Elvira Mendoza-Duarte, Erika Ivonne López-Martínez, Sergio Gabriel Flores-Gallardo, José Luis Rivera-Armenta.

THURSDAY DECEMBER 4

SESSION NANOCOMPOSITES AND BLENDS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
NBP-25	ID-175	Nanocomposites based on Polypropylene and Copper Nanoparticles: Preparation, Surface Activation by Plasma and Antibacterial Mechanism	Beatriz Liliana España Sánchez, José Alberto Rodríguez González, Pablo González Morones, María Guadalupe Neira Velázquez, Bernardo Franco Bárcenas, Fernando Anaya, Claudia Leticia Mendoza, Carlos Alberto Ávila Orta, Felipe Padilla Vaca.
NBP-26	ID-181	The role of polymer's nature used as reducing agent in the synthesis of metal nanoparticles	Alejandra Perez-Nava, Jessica Steffany Perez-Campos, J. Betzabe Gonzalez-Campos, Ylina Lopez-Castro, Judit Aviña-Verduzco.
NBP-27	ID-197	Synthesis of a bionanocomposite with pharmacological potential	Fernando Bedolla-Cázares, Perla Edith Hernández-Marcelo, Mario Armando Gómez-Hurtado, J. Betzabe González-Campos.
NBP-28	ID-206	Conducting nanocomposite hydrogels as precursors of bioelectronics	Priyanka Dutta, Neelotpal Sen Sarma.
NBP-29	ID-219	Electrospun nanofibers of nylon 6 reinforced with acrylic nanoparticles. A small-angle light scattering (SAXS) and wide-angle X-ray scattering (WAXS) study	Uriel Piedra-Ramírez, Araceli Flores, Ángel Romo-Urbe.
NBP-30	ID-228	Morphological and electrical properties of PE/Carbon Nanoparticles nanocomposites for thermal applications	Janett A. Valdez-Garza, Víctor J. Cruz-Delgado, Juan G. Martínez-Colunga, Carlos A. Ávila-Orta.
NBP-31	ID-229	Morphological, mechanical and dielectric properties of PP/Copper Nanoparticles nanocomposites for thermal applications	José A. Velázquez-de Jesús, Janett A. Valdez-Garza, Víctor J. Cruz-Delgado, Juan G. Martínez-Colunga, Carlos A. Ávila-Orta, Gilberto F. Hurtado-López, Jesús G. Rodríguez-Velazquez, María G. Méndez-Padilla.
NBP-32	ID-236	Viscoelasticity of POSS-styrene/PS nanocomposite blends. Influence of POSS nanocage concentration	María Eugenia Romero-Guzmán, Ángel Romo-Urbe, Leonardo Rejón.
NBP-33	ID-241	Properties evaluation for nanocomposites (PE/Carbon Nanoparticles) for high temperature applications	Mariela Fernanda Rea Escobedo, Janett Anaid Valdez Garza, Víctor Javier Cruz Delgado, Juan Guillermo Martínez Colunia, Carlos Alberto Ávila Orta, Fabián Chávez Espinoza, María Gpe Méndez Padilla.
NBP-34	ID-242	Particle size effect of nano-CaCO <sub>3</sub> on thermal and mechanical properties on a nano-CaCO <sub>3</sub> -PP composite	Diana Samantha Villarreal Lucio, José Luis Rivera-Armenta, Ana Laura Martínez-Hernández, Carlos Velasco-Santos, Ulises Páramo García, Ana María Mendoza-Martínez, Iván Alziri Estrada Moreno.

# MACROMEX 2014

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NBP-35	ID-243	Evaluation of modified asphalt blends using SEBS/nanoclay	Samuel Zapien Castillo, María Yolanda Chávez Cinco, José Luis Rivera-Armenta, Ana María Mendoza Martínez, Beatriz Adriana Salazar-Cruz.
NBP-36	ID-255	Synthesis and Characterization of Materials Adsorbents Based Chitosan-clay nanocomposites-NIPA	Ma. Elena Calixto Oalde, Jesús Salvador Zavala Morales, Jesus Abraham Campos, Raquel Vargas Bernal.
NBP-37	ID-264	Dependence of the surface modification of zno nanoparticles polypropylene nanocomposites on their mechanical properties	Adriana García-Hernández, Graciela Morales, Oliverio Rodríguez-Fernández, Carlos Espinoza-González.
NBP-38	ID-265	Evaluation bismuth oxychloride (BiOCl) as a photocatalyst fixed fixed in a polymer matrix	Dalia Verónica Sánchez Rodríguez, Vladimir Alonso Escobar Barrios, Alma Berenice Jasso Saucedo.
NBP-39	ID-278	Effect of nano Mg(OH) <sub>2</sub> surface modification and compatibilizer on mechanical and flame retardance properties of HDPE nanocomposites.	Edgar Nazareo Cabrera Álvarez, Saúl Sánchez Valdés, Luis Francisco Ramos de Valle.
NBP-40	ID-279	Silver nanoparticles by in-situ synthesis on a low density polyethylene film and their characterization.	Libertad Muñoz, Saúl Sánchez, Luis Francisco Ramos.
NBP-41	ID-294	Effect of graphite on the Thermal Conductivity and Heat Transfer HDPE compounds	Esperanza Elizabeth Martínez Segovia, Luis Francisco Ramos de Valle, Saúl Sánchez Valdés
NBP-42	ID-304	Synthesis and characterization of Chitosan-gold nanocomposite to detect heavy metals	Edna Melissa Valenzuela Acosta, Gabriel Luna Barcenás Yevgen Prokhorov
NBP-43	ID-308	Chitosan/bentonite nanocomposites for nitrate ions detection in water by potentiometry	Moises Oliedo Mendoza , Erika Padilla Ortega, Evgen Prokhorov, Olimpoa Arias de Fuentes J. Gabriel Luna Barcenás
NBP-44	ID-310	Polymeric nanoparticles as carriers	Eurydice Arroyo, Vania Aguilar, Jose Lopez Jose Cornejo, Amelia Olivas

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SESSION BIOMATERIALS

CODE	ID	TITLE	AUTHORS
BMP-01	ID-8	'Grafting from' of Chitosan with synthetic polymers via nitroxide-mediated polymerization in homogeneous media	Omar Garcia-Valdez, Rachel Champagne-Hartley, Enrique Saldivar –Garcia, Pascale Champagne, Michael F. Cunningham.
BMP-02	ID-30	Temperature sensitive polymeric micelles by the self-assembly of poly(N-vinylcaprolactam)-b-poly(hexylacrylate) block copolymers prepared by RAFT.	Oscar Ruiz-Galindo, Sandra Ponce-Vargas, Norma Cortez-Lemus, Angel Licea-Claverie.
BMP-03	ID-32	Nanogels with polyhexylacrylate core and polyethylene glycol (peg) shell with potential as nano-biomaterials	Yadira Denisse Cerda-Sumbarda, Ángel Licea-Claverie, Arturo Zizumbo-Lopez.
BMP-04	ID-33	Cationic Nanogels by "Soap Less" Emulsion Polymerization for Biomedical Applications	LIZBETH ALEXIS MANZANARES GUEVARA, NORMA AIDE CORTEZ LEMUS, ANGEL LICEA CLAVERIE.
BMP-05	ID-36	Antibacterial Mechanism of Silver and Copper Nanoparticles against Gram-negative bacteria by Transmission Electron Microscopy.	Beatriz Liliana España Sánchez, Enrique Díaz Barriga Castro, Forentino Soriano Corral, Janett Anaíd Valdez Garza, Bernardo Franco Bárcenas, Felipe Padilla Vaca, Carlos Alberto Ávila Orta.
BMP-06	ID-72	Study of the yield stress in fat substituted hydrocolloid chocolate	Fausto Calderas, Ulises Naranjo, Maricela Hernández, Luis Medina-Torres, Guadalupe Sánchez-Olivares, Octavio Manero
BMP-07	ID-77	Structure and morphology of polyfuran particles synthesized by plasma.	M. Guadalupe Olayo, Raquel Zúñiga, Guillermo J. Cruz, Lidia M. Gómez, Maribel González-Torres, Francisco González-Salgado, Víctor Sánchez-Mendieta.
BMP-08	ID-78	Dapsone absorption-desorption in Polyallylamine	Maribel González-Torres, M. Guadalupe Olayo, Guillermo J. Cruz, Víctor Sanchez-Mendieta, Lidia M. Gomez, Francisco González-Salgado.
BMP-09	ID-79	Coating by plasmas of pyrrole on metallic substrates to increase the biocompatibility.	Lidia M. Gomez, Guillermo J. Cruz, M. Guadalupe Olayo, Víctor Sanchez-Mendieta, Maribel González-Torres, Francisco González-Salgado.
BMP-10	ID-81	Chitosan based bioactive packaging for fresh cheese preservation.	Laura Nayeli Sandoval Hernández, Alberto Tecante, Keiko Shirai.

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SESSION BIOMATERIALS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
BMP-11	ID-82	Human fibroblast viability on chitosan grafted lactic acid.	Laura Nayeli Sandoval Hernández, Nadia Vázquez, Lenin Tamay de Dios, Cristina Velasquillo, Keiko Shirai.
BMP-12	ID-88	Celulose production by submerged culture of gluconacetobacter xylinus	Mariana Quintana Quirino, Zaizy Rocha Pino, Humberto Vazquez Torres, Concepcion Keiko Shirai Matsumoto.
BMP-13	ID-89	Diseño de un sustituto de piel para el tratamiento de úlcera diabética	Mario Flores Reyes, Dra. María del Socorro Camarillo Romero, Dr. Jaime Flores Estrada, Ph.D. Miriam Veronica Flores Merino.
BMP-14	ID-91	Synthesis and biological characterization of a fibroblast scaffold based on chitosan and collagen type i.	Alex Eduardo Barrera Chong, Nadia Vázquez, Lenin Tamay de Dios, Cristina Velasquillo, Keiko Shirai.
BMP-15	ID-94	Biocompatibility of a Chitosan (CTS) – Polylactic Acid (PLA) Based Scaffold for the Development of a Biological Dermal Substitute	Nadia Adriana Vázquez, Andres Espadín, Keiko Shirai, Lenin Tamay.
BMP-16	ID-95	Polymeric scaffolds for skin	Graciela Ruiz-Velasco, Francisco Martínez-Flores, Juan Morales-Corona, Roberto Olayo.
BMP-17	ID-97	Implantation of composed scaffold of PLA-HA coated with polypyrrole for generating neotissue-bone in rabbit: biological and mechanical evaluation.	Maria Guadalupe Flores-Sanchez,Atlantida Raya Rivera, Ricardo Esquiliano- Rendon Raquel Gonzalez Perez, Juan Morales Corona, Roberto Olayo.
BMP-18	ID-98	PLA-hydroxyapatite/ carbon nanotubes composite as scaffold for tissue engineering.	Ramón Roman-Doval, Mauricio Ortega-Lopez, Juan Morales-Corona, Roberto Olayo.
BMP-19	ID-101	Characterization of suspensions of iodine-doped polypyrrole synthesized by plasma in albumin solutions	Omar Fabela-Sánchez, Axayacatl Morales-Guadarrama, Camilo Rios-Castañeda, Hermelinda Salgado-Ceballos, Araceli Díaz-Ruiz, Guillermo Cruz-Cruz, Guadalupe Olayo-Gonzalez, Laura Álvarez-Rodriguez, Rodrigo Mondragón-Lozano, Juan Morales-Corona, Roberto Olayo.
BMP-20	ID-102	Mechanical Characterization of electro spun scaffolds of PLA and PCL blends	Heron Gutiérrez García, Juan Morales-Corona, Roberto Olayo.
BMP-21	ID-103	Scaffolds produced by electrospinning, modified by plasma and mechanically evaluated to the regeneration of articular cartilage tissue	Nancy Islas-Arteaga, Heron Gutiérrez-García, Atlantida Raya-Rivera, Ricardo Esquiliano-Rendón, Raquel González-Pérez, Juan Morales-Corona, Roberto Olayo.

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POSTER SESSION BIOMATERIALS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
BMP-22	ID-104	Preparation and characterization of polyelectrolyte complex hydrogel of Aloe Vera gel, chitosan and alginate and its potential for wound healing	Raquel Gallardo Rivera, César Pérez Alonso, Humberto Vásquez Torres, Angélica Roman Guerrero, Phaedra Silva, Lenin Tamay de Dios, Cristina Velasquillo, Julieta García, Keiko Shirai Matsumoto.
BMP-23	ID-112	Effect of the height of the bed in a packed column with chitosan cryogels for sorption of Cu <sup>2+</sup> ion	Agustín Ostría Hernández, Rosa Elvira Zavala Arce, Pedro Ávila Pérez, Beatriz García Gaitan, José Luis García Rivas, Anete Jessica Arcos Arévalo, Eric Guibal
BMP-24	ID-116	Develop of materials based in starch and ixtle fiber used injection molding	Alma Judith Villarreal Rodriguez, Fernando Martinez Bustos, Magsalena Trujillo Barragan, Omar Aconetzin Jimenez Arevalo.
BMP-25	ID-119	Electrospray preparation and characterization of microcapsules of cellulose acetate / PVP-epicatechin.	Itzel López Peña, Mónica Castillo.
BMP-26	ID-127	Carbon nanoparticles embedded into electrospinning fibers of polylactic acid to improved their biocompatibility.	Erika Fragoso-Pérez, José García-Hernández, Juan Morales-Corona, Roberto Olayo.
BMP-27	ID-138	PEGylated protein separation using Butyl Sepharose and C4 monoliths.	Karla Mayolo-Deloisa, José González-Valdez, Marco Rito-Palomares.
BMP-28	ID-149	Telechelic polydienes from ROMP of cyclooctadiene using difunctional fatty acids derivatives as chain transfer agents	Luis Edmundo Lugo-Uribe, Sandra Rodríguez-Hernández, Mariamne Dehonor-Gomez, Manuel Gutierrez-Nava, Jose Manuel Rojas-García.
BMP-29	ID-151	Continuous system for the treatment of liquids, plasma process - biodegradable hydrogels.	David Guevara Ruiz, Ernesto Almaraz Vega, Juan Carlos Sánchez Díaz, Marco Antonio Sánchez Castillo, Luis Emilio Cruz Barba, Agustín Martínez Ruvalcaba.
BMP-30	ID-157	Synthesis of pH and temperature sensitive nanogels of chitosan grafted with N-vinylcaprolactam	Lorena García Uriostegui, Burillo Guillermina, Alejandra Ortega.



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SESSION BIOMATERIALS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
BMP-31	ID-160	Composite fiberglass-epoxy: interesting for aerospace industry	Paulo Cesar López Hernández, Oscar Gómez Guzmán, Ana Laura Martínez Hernández, Esperanza Rodríguez Morales.
BMP-32	ID-194	Synthesis and characterization of biodegradable polyesters grafted starches by ring-opening polymerization	Zujey Berenice Cuevas-Carballo, Santiago Duarte-Aranda, Gonzálo Canché-Escamilla.
BMP-33	ID-196	Synthesis of novel semiconducting polyurethane/polypyrrole/polyaniline composites for microorganism immobilization and wastewater treatment.	Iveth Dalila Antonio Carmona, Silvia Y. Martinez-Amador, Victor M. Ovando-Medina.
BMP-34	ID-198	Ultrafine Nanoparticles of Poly(methyl methacrylate-methacrylic acid) Loaded with Drugs and Nutraceuticals	Hened Saade, Yolanda Garza, Raul Guillermo Lopez.
BMP-35	ID-208	Layer-by-Layer surface immobilization of PAA-grafted TiO <sub>2</sub> particles and influence on cell-substrate interactions.	Araceli Solis-Gomez, Beatrice Labat, Guy Ladam, Elias Perez.
GTP-36	ID-220	Cell-phone recycling for recovery of metals by solvolysis	Lorena Eugenia Sánchez Cadena, Mario Alberto González Lara, Zeferino Gamíño Arroyo, Demetrio Quiroz Quiñonez
BMP-37	ID-211	Preparation of ZnO nanostructures and hybrid graphene/ZnO nanomaterials by a polysaccharide aqueous-based method.	Maira B. Moreno-Trejo, Yolanda Agapito-Navarro, Margarita Sánchez- Domínguez, Uriel Márquez-Lamas, Tania E. Lara-Ceniceros, José Bonilla-Cruz.
BMP-38	ID-216	Chitosan coated HDPE-agave fiber composites for Pb(II) adsorption.	Mayra Elizabeth García-Sánchez, Aida Alejandra Pérez Fonseca, Ricardo Manríquez-González, Milton Oswaldo Vázquez-Lepe, Cesar Gómez, Orfil González-Raynoso, Rubén González-Núñez, Jorge Ramón Robledo-Ortiz.
BMP-39	ID-217	Red 2 dye adsorption by chitosan-based bioadsorbent: a kinetic study	Rosario Suárez-Reyes, Alejandra Valdez-Zarco, Celso Hernández-Tenorio, Rosa Elvira Zavala-Arce, José Luis García-Rivas, Beatriz García-Gaitán.
BMP-40	ID-232	Sorption of Fluorides using chitosan's cryogels	Anete Jessica Arcos Arévalo, Rosa Elvira Zavala Arce, Pedro Ávila Pérez, Beatriz García Gaitán, Jose Luis García Rivas, María de la Luz Jiménez Nuñez.
BMP-41	ID-235	Precursor microemulsions to prepare core-shell polymeric nanoparticles for pharmaceutical applications. Formation, stability and cytotoxicity	Sergio Enrique Flores Villaseñor, René Dario Peralta Rodríguez, Jorge Carlos Ramirez Contreras, Daniele Ribeiro De Araujo, Tiago Rodrigues.



BMP-42	ID-237	Evaluation of the adsorption of red 2 dye in aqueous solution using chitosan-cellulose hydrogel beads.	Jonathan-Ivan Moreno-Puebla, Celso Hernández Tenorio, Beatriz García Gaitán, Jose Luis García Rivas, Rosa Elvira Zavala Arce.
BMP-43	ID-247	Synthesis of PECA-PEG nanoparticles by semicontinuous heterogeneous polymerization,	María de Jesús Palacios Sánchez, Eduardo Mendizabal Mijares, Maite Renteria Urquiza.
BMP-44	ID-249	Effect of the synthesis of chitosan-cellulose cryogels in the adsorption of Cu+2 in aqueous solutions	Rafael García-González, Rosa María Gómez-Espinosa, Rosa Elvira Zavala-Arce, Pedro Ávila-Pérez, Beatriz García-Gaitán, José Luis García-Rivas.
BMP-45	ID-252	Antimicrobial evaluation of zinc oxide nanoparticles to their incorporation into hydrogel to wound treatment	Sonia Noemí Ramírez Barrón, Rebeca Betancourt Galindo, Saúl Sánchez Valdés.
BMP-46	ID-253	Encapsulation of extractants with biopolymers for palladium recovery	T. Imelda Saucedo Medina, Ricardo Navarro Mendoza, Mercy Dzul Eroza, Esperanza García Vieyra, María del Pilar González Muñoz, Enrique Elorza Rodríguez, Eric Guibal.

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#### SESSION BIOMATERIALS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
BMP-47	ID-262	Study based biopolymer Chitosan between-crossed for use in the biomedical field	Miriam Cecilia Cerrillos Romero, Vladimir Alonso Escobar Barrios, Luis Antonio Salazar Olivo.
BMP-48	ID-263	Characterization of composites of "Agave lecheguilla" and recycled polypropylene and their potential application in industries such as construction and automotive.	Claudia Margarita Martínez Rodríguez, Vladimir Alonso Escobar Barrios.
BMP-49	ID-282	Swelling of a carboxymethylcellulose gel	Rocio Antonio-Cruz, Gabriela Barbosa-Morena, Rocio Zumaya-Quifones, Noe Sosa-Domingez.
BMP-50	ID-285	Green functionalization for cellulose nanocrystals by bio-catalysis.	Laura Peponi, Karla Karla A Barrera-Rivera, Ivan Navarro-Baena, Angel Marcos-Fernández, José M. Kenny, Antonio Martinez-Richa.
BMP-51	ID-286	Electrically controlled release of amoxicillin from polyacrylamide/polyaniline hydrogels.	Cynthia Jhovanna Perez Martinez, Teresa Del Castillo Castro, Tania Ernestina Lara Cenicerros.
BMP-52	ID-290	Fibrous Membrane by Coaxial Electrospun of Glutenin: Preparation and Characterization.	Daniela Castro-Enríquez, Francisco Rodríguez-Félix, María Mónica Castillo-Ortega, Benjamín Ramírez-Wong, Teresa Del Castillo-Castro.

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BMP-53	ID-291	Fibers porous of wheat gliadins by electrospinning: Preparation, characterization and study release of urea	Ramón Dórame-Miranda, Francisco Rodríguez-Félix, Dora Rodríguez-Félix, Patricia Torres- Chávez, Carmelo Encinas- Encinas Antonio Ledezma-Pérez, Benjamín Ramírez-Wong, Lorena Armenta-Villegas.
BMP-54	ID-292	Preparation and characterization of polypropylene / chitosan blends obtained by extrusion.	Fernando Javier Carrasco Guigón, Dora Evelia Rodríguez Félix, Pedro Jesús Herrera Franco, María Mónica Castillo Ortega.
BMP-55	ID-293	Recent advances in the synthesis and characterization of biodegradable polymers obtained by chemo- enzymatic methods.	Antonio Martínez-Richa, Karla Barrera-Rivera, Ana Alpizar- Negrete.

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SESSION POLYMER ENGINEERING, SIMULATION AND GENERAL TOPICS

CODE	ID	TITLE	AUTHORS
GTP-01	ID-1	Pinewood residues/recycled HDPE composites to substitute medium density fiberboards: mechanical properties evaluation	Obed Edon Rivero-Be, Ricardo Herbé Cruz-Estrada, Carlos Vidal Cupul-Manzano, José Gonzalo Carrillo-Baeza, Emilio Pérez-Pacheco.
GTP-02	ID-2	Effect of UV stabilizers on the mechanical properties of a pinewood residues/recycled HDPE composite	Jhonny Martín Peraza-Góngora, Ricardo Herbé Cruz-Estrada, Carlos Vidal Cupul-Manzano, Javier Guillén-Mallete, Miguel Ángel Rivero-Ayala, Javier Reyes-Trujeque.
GTP-03	ID-11	Preparation and study of epoxy memory shape polymers	Maria Lydia Berlanga Duarte, Ricardo Acosta, Aida Garcia
GTP-04	ID-17	A mathematical programming approach for the optimization of the electrospinning process for polymeric nanofibers production	Julia Hernández-Vargas, J. Betzabe González-Campos, José María Ponce-Ortega, Javier Lara-Romero, Yliana López-Castro.
GTP-05	ID-24	Synthesis of polymeric microcapsules for coatings applications	María Eugenia Velázquez Sánchez, Isabel Sáenz de Buruaga Yurramendi, Amparo Ortega Carrizo, A.P. López Oliva, Juan Pablo Acosta Ramírez,
GTP-06	ID-28	Non-Newtonian effects in a continuous squeeze flow film of a structured fluid	Edtson Emilio Herrera Valencia, Mayra Luz Sanchez Villavicencio, Roberto Mendoza Serna, Eduardo Vazquez Zamora, Raul Ramon Mora Hernandez, Dominga Ortiz-Bautista, Mariano Pérez Camacho
GTP-07	ID-29	Non-Newtonian effects of a structured fluid between parallel plates under electro-osmotic forces	Edtson Emilio Herrera Valencia, Mayra Luz Sanchez Villavicencio, Roberto Mendoza Serna, Eduardo Vazquez Zamora, Raul Ramon Mora Hernandez, Dominga Ortiz-Bautista, Mariano Pérez Camacho.
GTP-08	ID-52	Thermal stability and degradation mechanisms of thermoplastic polymers	José Manuel Sustaita Rodríguez, Francisco Javier Medellín Rodríguez.
GTP-09	ID-56	Determination of structural properties of anti-fungal drugs using molecular modeling for formulation of hydrogels based on chitosan	Nadia-Carmina Mendoza-Ortiz, Norma Aurea Rangel Vázquez, Norma Aurea Rangel Vázquez.
GTP-10	ID-57	Analysis of structural properties of drugs delivery systems using chitosan/glinbencamida/merformin	Nancy-Liliana Delgadillo-Armendiz, Norma Aurea Rangel Vázquez
GTP-11	ID-58	Analysis of the absorption process of benzophenone in rice husk/polyethylene composites due amber and mm+ models	Norma Aurea Rangel Vázquez, Alejandra Ibeth García Castañón.
GTP-12	ID-59	Computational chemistry applied in the study of the structural properties in PEHD/wheat husk/ benzophenone composites	Norma Aurea Rangel Vázquez, Alejandra Ibeth García Castañón.

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SESSION POLYMER ENGINEERING, SIMULATION AND GENERAL TOPICS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
GTP-13	ID-60	Thermal decomposition of pinacolone diperoxide (PDP) and diethyl ketone triperoxide (DEKTP) in methyl methacrylate and its further polymerization kinetic study	Karla Delgado Rodríguez, Graciela Morales, Javier Enriquez, Gastón P. Barreto.
GTP-14	ID-65	Degradation and characterization of polyethylene terephthalate (PET) for the elimination of lead (II) in water	Jesús Daniel Estrada Flores, Nancy Adriana Pérez Rodríguez, María Guadalupe Sánchez Anguiano, Perla Elizondo Martínez, Javier Rivera De La Rosa.
GTP-15	ID-73	Rheological characterization and modeling of a water based perforation fluid	Alondra Rentería, Fausto Calderas, Antonio Sánchez-Solís, Luis Medina-Torres, Carlos Lira, Leonardo Moreno, Octavio Manero.
GTP-16	ID-74	Structural, thermal and rheological characterization of copolymers PAM-co-DAM	Valeria Jordana González Coronel, Eduardo Aparicio Lara, Nancy Tepale Ochoa, Enrique Javier Jiménez Regalado, Judith Cabello Romero, Efraín Rubio Rosas
GTP-17	ID-76	Morphological and mechanical characterization of composites prepared by three layers rotational molding	Roberto Carlos Vázquez Fletes, Pedro Ortega Gudiño, Eduardo Mendizabal, Francisco Javier Moscoso Sánchez, Denis Rodrigue, Rubén González Núñez
GTP-18	ID-106	Mechanical and thermal properties of polylactic acid (PLA)/grafted acrylate cellulose composites	Gonzalo Canché-Escamilla, Santiago Duarte-Aranda, Otilio Zetina-Hernández.
GTP-19	ID-108	On the potential of mean force of a sterically stabilized dispersion	Rafael Catarino Centeno, José Elías Pérez López, Armando Gama Goicochea.
GTP-20	ID-117	A new methodology for modeling diffusive effects in free-radical polymerization	David Victoria Valenzuela, Jorge Herrera Ordoñez.
GTP-21	ID-123	Rheological and structural characterization of hydrophobically modified polyacrylamide solution obtained by emulsion polymerization	Valeria Jordana González Coronel, Shirley Carro Sanchez, Nancy Tepale Ochoa, Judith Cabello Romero, Jose Victor Amador Noya, Emmanuel Hench Cabrera.
GTP-22	ID-126	Analysis of permeability in stone quarry modified by atmospheric plasma hexamethyldisiloxane	Jose Antonio Lopez, Ofelia Pimentel, Roberto Olayo-Valles, Roberto Olayo, Juan Morales.
GTP-23	ID-128	Synthesis of acrylamide-modified hydrophobically polyacrylamide block copolymers by RAFT emulsion polymerization	Shirley Carro Sánchez, Valeria González Coronel, Rubén Saucedo Lara, Judith Cabello Romero, José Victor Amador Noya.

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SESION POLYMER ENGINEERING, SIMULATION AND GENERAL TOPICS (CONTINUATION)

CODE	ID	TITLE	AUTHORS
GTP-24	ID-129	Self-Initiated Thermal Polymerization of Styrene in the Presence of Silica Nanoparticles: Kinetic Study by Dilatometry at High Temperatures	José Bonilla-Cruz, Elías Servín-Hernández, Judith Percino, Víctor Chapela, Guillermo Soriano-Moro, Enrique Saldivar-Guerra.
GTP-25	ID-146	Characterization of resins epoxy for the underwater coating application	Karla Martinez, Jose Luis Palos, Carlos Rabago.
GTP-26	ID-156	Graft Copolymerization of styrene (St) and acrylonitrile (AN) by emulsion polymerization using polymerizable surfactants	Marisol González Pluma, Luis Ernesto Elizalde Herrera, Enrique Saldivar Guerra
GTP-27	ID-174	Application of new thionocarbamoyl-functionalized polymeric material.	Irais Gomez, Elena Otazo, Francisco Prieto, Roberto Villagomez, Alfredo Guevara
GTP-28	ID-185	Degradation of plastics by plasma in a radio frequency reactor.	Erick de Jesus Silva Valenciano, Maria Guadalupe Neira Velazquez
GTP-29	ID-191	Study of kinetic behavior and reproducibility of ethylene polymerizations	Víctor Eduardo Comparán, Odilia Pérez, José Ramiro Infante, Maricela García, Gregorio Cadenas.
GTP-30	ID-192	Synthesis and Characterization of Poly(Lactic Acid) Monoliths Prepared by Templating in Highly Concentrated Emulsions	Lourdes Adriana Pérez Carrillo, María Guadalupe Pérez García, Eduardo Mendizabal, Jordi Esquena Moret, Jorge Emilio Puig Arevalo
GTP-31	ID-193	Water absorption and mechanodynamic properties of composites based on thermoplastic starch/poly(lactic acid)/agave fiber	Francisco José Aranda García, Rubén González Nuñez, Carlos Federico Jasso Gastinel, Eduardo Mendizábal.
GTP-32	ID-201	Latexes of poly (ethyl cyanoacrylate) nanoparticles with high-solids content	Cynthia Lizeth Barrera Martinez, Suleidy Anahi Torres, Hened Saade Caballero, Raul Guillermo Lopez Campos.
GTP-33	ID-205	Synthesis and characterization for obtaining $\gamma$ -Al <sub>2</sub> O <sub>3</sub> support for hydrotreating catalysts and adsorbent.	Rafael Romero Toledo, J. Merced Martínez R., Rosalba Fuentes R.
GTP-34	ID-207	Hybrid materials for sensing of arsenic in aqueous solution	Araceli Hernández Agilar, J. Merced Martinez Rosales, Mónica Trejo Duran
GTP-35	ID-213	Effect of hybridization over the mechanical properties of high density polyethylene-agave/coir composites	Aida Alejandra Pérez-Fonseca, Jorge Ramón Robledo-Ortiz, Rubén González-Núñez, Denis Rodrigue
GTP-36	ID-220	Cell-phone recycling for recovery of metals by solvolysis	Lorena Eugenia Sánchez Cadena, Mario Alberto González Lara, Zeferino Gamiño Arroyo, Demetrio Quiroz Quiñonez
GTP-37	ID-227	Synthesis of a styrene-acrylic latex self-crosslinkable at room temperature	Raquel Ledezma Rodríguez, Juan José Mendoza Villafaña, Luis Ernesto Elizalde Herrera.
GTP-38	ID-248	Syntheses of core-shell resins for heavy-metal removal by seeded suspension copolymerization.	Adriana Tilayatzí Muñoz, Shirley Carro, Judith Cardoso.

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GTP-39	ID-251	Viscoelastic behavior of asphalt modified by grafted tri-block copolymers: predictions of fractional rheological models	Maria Angeles Vargas, Gisela Guthausen, Octavio Manero
GTP-40	ID-267	Structural Sisal fiber-Polyester composite laminate characterization	Uriel Ramirez-Barragan, Maricela Talavera-Ortega, J. Pedro Dominguez-Cruz, Francisco Estrada-De los Santos, Omar Jimenez-Arévalo
GTP-41	ID-303	Thermodynamic parameters for the adsorption of Zn(II) from aqueous solution by Ch/PVA/EGDE	Nicolás Flores Alamo
GTP-42	ID-309	Mechanical properties and the effect of the maleic anhydride on postconsumer HDPE/Agave Fiber composites	Jorge Inga Lefebre, Ruben Gonzalez Nuñez, Rosa Jimenez Amezcua Denis Rodrigue, Milton Vazquez Lepe
GTP-43	ID-310	Pb remotion from aqueous solution through hydrotalcite-Ananas Comosus binary system	S. Martínez-Gallegos, G. García Rosales, P. Ibarra, G. Macedo, J.C González-Juárez
GTP-44	ID-311	Cr(VI) sorption from aqueous solution in semi-continuous condition through <i>Ananas Comosus</i> like packing material	G. García Rosales, S. Martínez-Gallegos, P. Ibarra, G. Macedo, J.C González-Juárez
GTP-45	ID-312	a DFT study among interactions sites: $NH_3^+$ of polymeric chitosan and $SO_3^-$ of azoic colorant red 2	Juan Horacio Pacheco Sánchez, <sup>1</sup> Beatriz García Gaitán, <sup>1</sup> Rosa Elvira Zavala Arce <sup>1</sup>