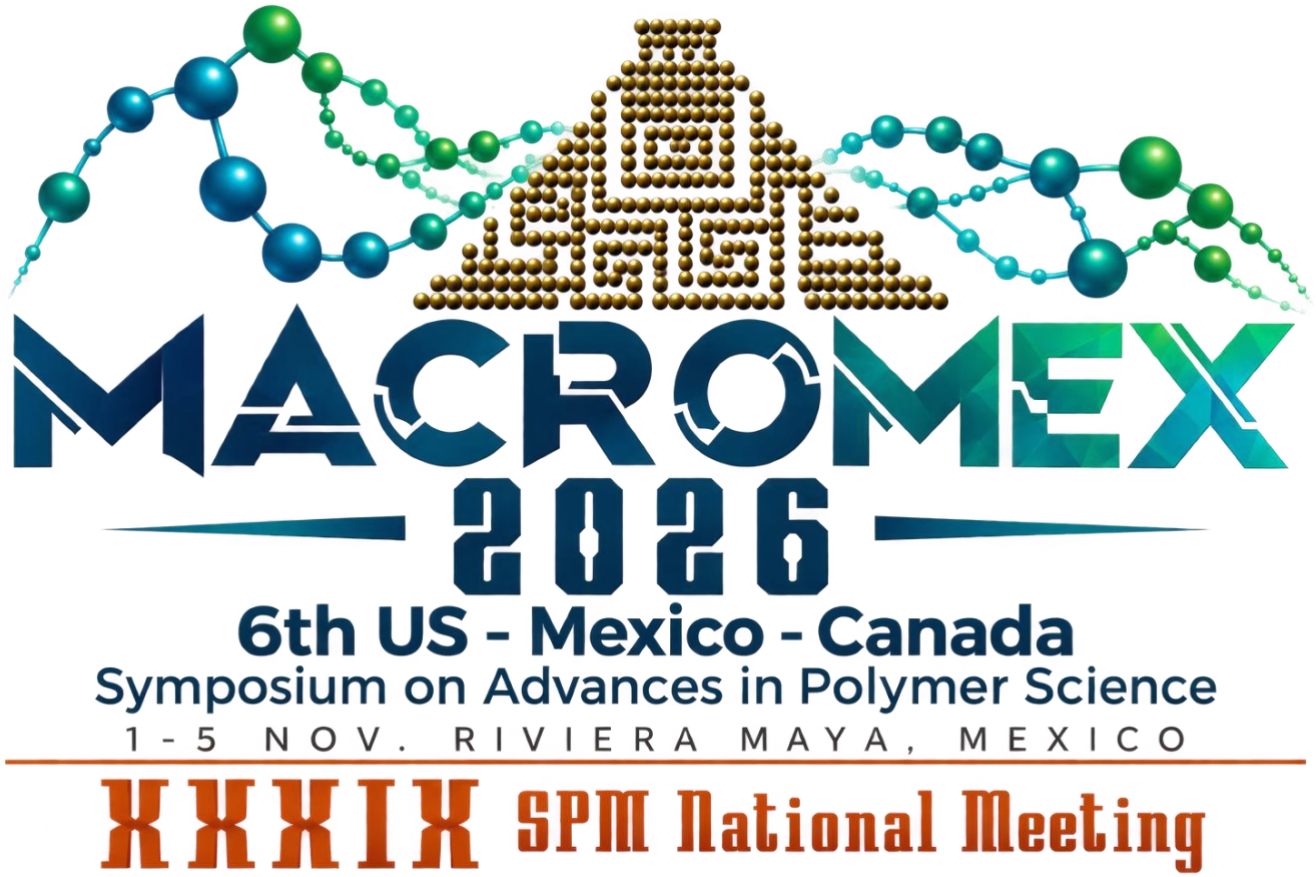
PROGRAM BOOK



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MACROMEX HISTORY

MACROMEX is one of the leading international conference and symposium series dedicated to advances in polymer science. Historically known as the **U.S.–Mexico** since 2008, and later **U.S.–Mexico–Canada** Symposium on Polymer Science, the meeting is jointly organized by the **Mexican Polymer Society (SPM)** and the **Polymer Chemistry Division (POLY) of the American Chemical Society (ACS).** The conference attracts a broad international audience of distinguished professors, scientists, researchers, and industry professionals from Mexico, the United States, Canada, and beyond, working in polymers and advanced materials.

MACROMEX Congress History

Edition	Year	Location
1st	2008	Los Cabos, Baja California Sur, México. US – Mexico
2nd	2011	Cancún, Quintana Roo, México. US – Mexico
3rd	2014	Nuevo Vallarta, Nayarit, México. US – Mexico – Canada
4th	2017	Los Cabos, Baja California Sur, México. US – Mexico – Canada
5th	2021	Cancún, Quintana Roo. (Virtual Congress)
6th	2026	Riviera Maya, Quintana Roo. US – Mexico – Canada

WELCOME LETTER

Dear Colleagues, Friends, and Participants

¡Hola! A big welcome to you at MACROMEX 2026 here in beautiful Riviera Maya, México. Mexican Polymer Society (SPM) and the Polymer Chemistry Division (POLY) of the American Chemical Society (ACS) have again partnered to bring exciting advances in macromolecular science and engineering in a resort setting. The meeting's sessions include polymer synthesis, polymer characterization, polymers for energy, biomaterials, polymer physics, additive manufacturing, and AI/ML for polymers. This promises as an intellectual *fiesta* in the days ahead. An all-inclusive resort is a refreshing way to enjoy this conference. We welcome you to this meeting and hope it brings members of both societies closer. Our participants will build bonds beyond doing good science and advancing technology. Quintana Roo region has much to offer you and your family, as a major resort destination and port with exciting nightlife and beach activities. We would like to thank our major sponsors and exhibitors. We also take this time to thank all of the organizing committee, the leadership and staff of SPM and POLY, the hotel staff, our co-organizers and session chairs, and mostly you - the SPM and ACS members, students, speakers, sponsors and others who made it to this conference. We hope this helps transcend international borders through science, which is much needed these days.

As Chairmans of Macromex 2026, we welcome you to the conference.

Odilia Pérez and Rigoberto Advincula

Chair and Co-chairman

ORGANIZING COMMITTEE



Odilia Pérez Camacho
CIQA
Chairman



Rigoberto Advincula
University of Tennessee/ORNL
Co-chairman



Tania E. Lara-Ceniceros
CIMAV – Monterrey
Secretary



Krystof Matyjaszewski
Carnegie-Mellon University
Scientific Program



Tim Lodge
University of Minnesota
Scientific Program



Michael Cunningham
Queens' University
Scientific Program



José Bonilla-Cruz
CIMAV – Monterrey
Treasury



Gabriel Luna
Tecnológico de Monterrey
Deputy-Secretary

MACROMEX CO-CHAIRS

S1. Polymer Synthesis (PS)	
Ángel Licea-Claveríe	Tech. Inst. Tijuana – México
Brent Summerlin	University of Florida – USA
S2. Polymer Physics and Characterization (PPC)	
Ralm Ricarte	FAMU-FSU – USA
Josué Mota-Morales	CFATA – UNAM – México
S3. Biopolymers for Biomedical and Health Applications (BP)	
Juan V. Cauich-Rodríguez	CICY – México
Carmen Scholtz	The University of Alabama – USA
Showan N. Nazhat	McGill Univ. – Canada
S4. Polymer Materials for Advanced Technologies (PMAT)	
María Ortencia González-Díaz	CICY – México
Natalie Stingelin	Georgia Tech – USA
S5. Polymers for Environmental Applications (PEA)	
Tania Lara-Ceniceros	CIMAV-Monterrey – México
Michael Cunningham	Queen's Univ. – Canada
S6. 3D/4D Printing of Polymers & Composite Materials (3DP)	
José Bonilla Cruz	CIMAV Monterrey – México
Saeed Beigi-Boroujeni	ITESM – México

S7. Polymer Rheology and Processing (PRP)	
Esteban López Aguilar	UNAM – México
Milana Trifkovic	University of Calgary – Canada
Carlos López-Barrón	Exxon Mobil-USA
S8. Polymer Nanocomposites and Hybrid Materials (PNH)	
Teresa del Castillo Castro	University of Sonora – México
Marek Urban	Clemson University – USA
Jaime Grunlan	Texas A&M University – USA
Michael R. Bockstaller	Carnegie Mellon University – USA
S9. Food Polymers Functionality and Applications (FP)	
Miriam Rutiaga Quiñones	Inst. Tec. de Durango – México
Raúl Rodriguez Herrera	UAdeC – México
S10. Polymerization and Polymer Systems Modeling (PM)	
Enríque Saldívar-Guerra	CIQA – México
Robin Hutchinson	Queen's University – Canada
S11. AI/Machine Learning for Polymers (IAP)	
Rodolfo Cruz Silva	CIQA – México
Rigoberto Advincula	UTK/ORNL – USA
S12. Posters Session	
Odilia Pérez Camacho	CIQA – México
Judith Cardoso Martínez	UAMI – México

GENERAL INFORMATION

On-site Registration

All participants must register at the Convention Center of the Iberostar Waves Paraiso. (See floor plan, page 13). The registration module will be available on the following schedule:

Nov 1st (Sunday)	9:00 - 16:30
Nov 2nd (Monday)	8:30 - 13:00
Nov 3rd (Tuesday)	8:30 - 13:00
Nov 4th (Wednesday)	8:30 - 13:00

Recommendations

Once the registration has been completed participants must wear their ID badge throughout the event.

Participants are encouraged to bring a US power adapter if they plan to use personal electronic devices.

PAYMENT INFORMATION

Registration payment should be completed in due time (USD).

On site payment will not be allowed, we invite participants to complete their payments via Bank transfer or Paypal.

Registration fees

	Regular		SPM members **	
	Before Aug. 31st	***After Sep. 1st***	***Before Aug. 31st***	***After Sep. 1st***
Professional Participant	**$600**	**$800**	**$350**	**$450**
Young Researcher (age < 40 years old)	**$450**	**$550**	**$220**	**$320**
Student	**$200**	**$300**	**$160**	**$200**
Guest-ticket *	**$200**	**$200**	**$200**	**$200**

All Registration fees are in USD.

Full Registration for Hosted Guests INCLUDES: Welcome Reception, Poster Session, Gala Dinner, and Coffee Breaks throughout all sessions.
Full Registration for Non-Hosted Guests INCLUDES: Coffee Breaks throughout all sessions, including oral and poster sessions. Costs for additional events: Welcome Reception $450 MXP or $27 USD, Gala Dinner $3,400 MXP or $200 USD.
* Additional Gala Dinner Ticket.
**Mexican Researchers: Professional and Young, $70 USD fee for getting SPM Membership.

Official event

All registered participants hosted at the hotel venue can attend free of charge to the following activities.

Activity	Day	Schedule	Place
Welcome Cocktail	Nov 1st	19:30 – 20:15	Convention Center Garden
Coffee Break (morning)	Nov 2nd /Nov 3rd /Nov 4th	10:00 – 10:30	Foyer 3 (Gimnasio)
Coffee Break (afternoon)	Nov 2nd /Nov 4th	15:30 – 15:45	Foyer 3 (Gimnasio)
Poster session	Nov 3rd	17:30 – 20:00	Foyer 2 (Banderas)
Macromex Photo	Nov 3rd	17:00 – 17:30	Announced at event
SPM National Meeting	Nov 3rd	17:30 – 18:30	Cancun Room
Gala Dinner	Nov 4th	20:00 – 23:00	Convention Center

Registered participants but **Non-Hosted** at the Venue Hotel can purchase passes to attend the **Welcome Cocktail** and **Gala Dinner**. Participants can purchase the tickets directly during your Registration (Cashier booth) for $27 USD or $450 MXN (Welcome Cocktail); and $200 USD or $3,400 MXN (Gala Dinner).

Non-Hosted Guests must present DAILY at the Registration booth to get a BRACELET to access **Macromex Academic Activities** (Oral and poster sessions).

GUIDELINES FOR SPEAKERS

Oral Presentation

For organization purposes we encourage all speakers to prepare their presentation in advance and provide it in due time.

Presentation files will be accepted on-site by the designated staff member of each Room/Symposium. We kindly invite all participants to provide their files ahead of time for their presentation. Monitors or Co-chairmans will receive presentation files at the designated Room (Quintana Roo, Tulúm, Cancún, Isla Mujeres) from Nov 1st to Nov 4th.

A computer will be provided in each room to display the presentations. No other PC or laptops will be allowed to be used for presentations.

Presentation	Time (including Q & A)
Plenary Lecture	60 min
Invited Talks	30 min
Regular Talks	15 min

Please consider an approximate of 2 – 3 minutes for Q&A sessions at the end of Invited and Regular Talks, and 7 - 10 minutes for Plenary Lectures.

POSTER SESSION

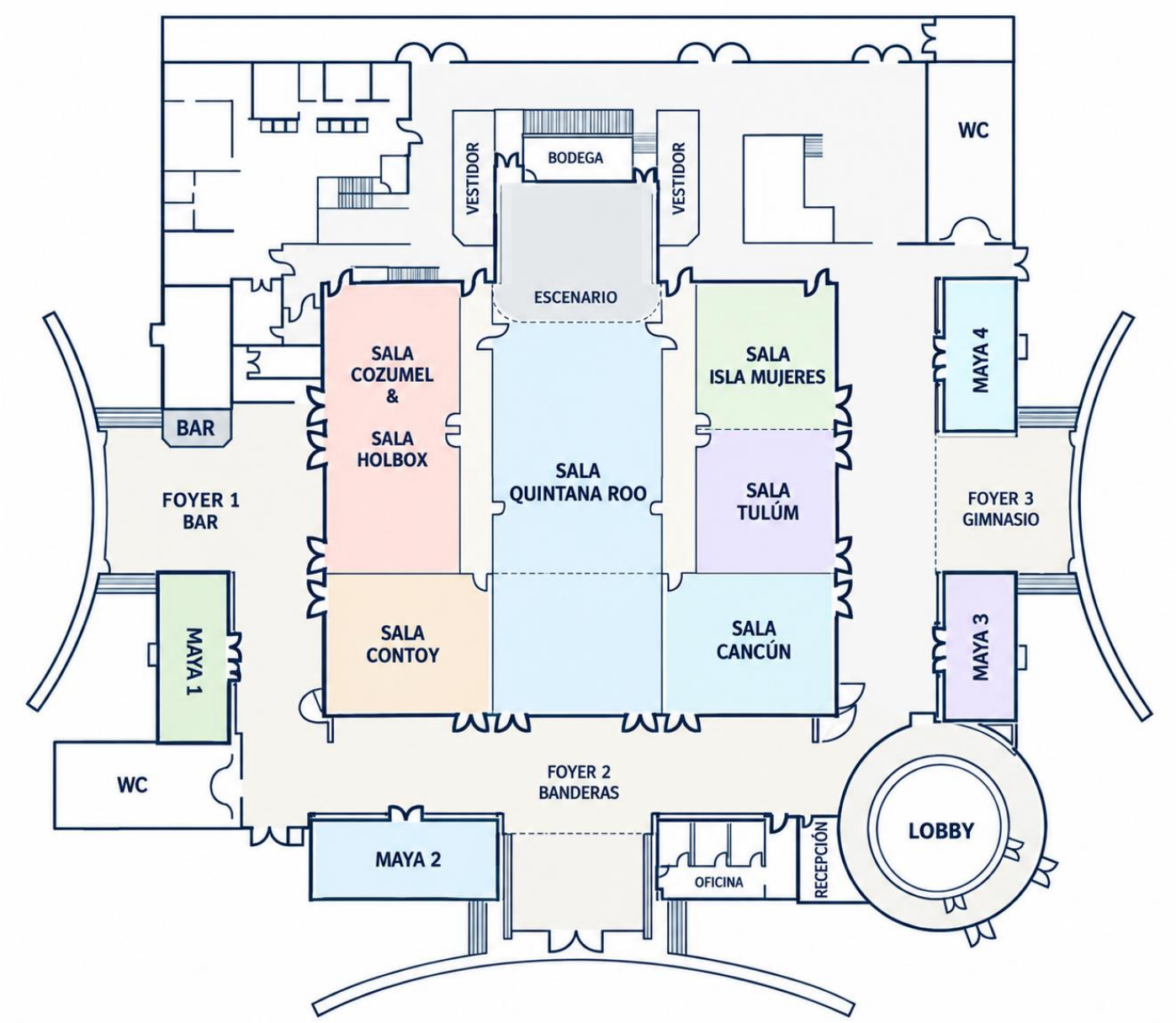
Posters can be placed in advance from Sunday Nov 1st until Tuesday 3rd prior to the scheduled Poster session at 17:30 at the Foyer 2 Banderas (See floor plan, page 13).

Poster Guidelines

The following instructions must be considered for all Poster presentations:

- Each poster must be placed according to the Abstract ID indicated at the location.
- Poster should be A0 size, 120 cm (height) x 90 cm (width) in portrait format.
- Adhesive tools will be provided to attach each poster on the board.

FLOOR PLAN


WC
VESTIDOR
BODEGA
VESTIDOR
ESCENARIO
SALA COZUMEL & SALA HOLBOX
SALA ISLA MUJERES
MAYA 4
BAR
SALA QUINTANA ROO
SALA TULÚM
FOYER 1 BAR
FOYER 3 GIMNASIO
MAYA 1
SALA CONTOY
SALA CANCÚN
MAYA 3
WC
FOYER 2 BANDERAS
LOBBY
MAYA 2
OFICINA
RECEPCIÓN

GENERAL PROGRAM

	Sunday, 1 Nov		Monday, 2 Nov			
		room	Quintana Roo	Isla Mujeres	Cancún	Tulum
		Symp.	PS / FP	PPC	PMAT	BP
9:00	REGISTRATION	9:00	Kryztof Matyjaszewsky Plenary			
9:15		9:15				
9:30		9:30				
9:45		9:45				
10:00		10:00	Coffee Break			
10:15		10:15				
10:30		10:30	B. Sumerlin *Invited Talk*	R. Feedasi *Invited Talk*	M. Hooney *Invited Talk*	C. Scholz *Invited Talk*
10:45		10:45				
11:00		11:00	M. Stefan *Invited Talk*	M. Calabrese *Invited Talk*	E. Zaragoza Contreras	H. Ulloeig *Invited Talk*
11:15		11:15			H. Yousefian	
11:30		11:30	C. Tang *Invited Talk*	J. Herrera Ordóñez *Invited Talk*	B. Lessard *Invited Talk*	K. Silva *Invited Talk*
11:45		11:45				
12:00		12:00	A. Figg *Invited Talk*	M. Wang *Invited Talk*	H. Ade *Invited Talk*	A. Abid
12:15		12:15				G. Ludwano Colmenero
12:30		12:30	Lunch			
12:45		12:45				
13:00		13:00				
13:15		13:15				
13:30		13:30				
13:45		13:45				
14:00		14:00	J. Lessard *Invited Talk*	R. Ricarte *Invited Talk*	K. Lazano *Invited Talk*	S. Zauscher *Invited Talk*
14:15		14:15				
14:30		14:30	E. Prince *Invited Talk*	K. Bey *Invited Talk*	M. González Díaz *Invited Talk*	P. Garcia *Invited Talk*
14:45		14:45				
15:00		15:00	A. Licea-Claverie *Invited Talk*	V. Cabazos Ramírez	C. Aguilar-Lugo *Invited Talk*	L. Miranda Fregoso
15:15		15:15		M. Vázquez Lepe		K. García Verduga
15:30		15:30	Coffee Break			
15:45		15:45	R. Rodriguez-Herrera *Invited Talk*	A. Sokolov *Invited Talk*	L. Alexandrova	B. Mendoza Novelo *Invited Talk*
16:00		16:00			E. Cetina Manzilla *Invited Talk*	
16:15		16:15	B. Lessard *Invited Talk*	M. Panzer *Invited Talk*		D. González Pulafox
16:30		16:30			L. Olvera Garza	J. Ruiz Gutierrez
16:45		16:45	I. Cordero Soto *Invited Talk*	J. Meta-Morales *Invited Talk*	C. Bae *Invited Talk*	J. Cauich Rodriguez *Invited Talk*
17:00	OPENING CEREMONY Quintana Roo (room)	17:00				
17:15		17:15		I. Estrada Moreno		A. Martínez Richa
17:30	Tim Lodge Plenary	17:30		V. Shabafrooz Invited Talk		J. Tranisto Medina
17:45		17:45				R. Olayo González
18:00		18:00		B. Katzenmeyer Invited Talk		K. Ulrich
18:15		18:15				
18:30	Denise Petri Plenary					
18:45						
19:00						
19:15						
19:30	Welcome Cocktail					
19:45						
20:00						
20:15						

GENERAL PROGRAM

	Tuesday, 3 Nov					Wednesday, 4 Nov			
room	Quintana Roo	Isla Mujeres	Cancún	Tulum	room	Quintana Roo	Isla Mujeres	Cancún	Tulum
Symp.	PS / PEA	PPC / PRP	PMAT / 3D	BP / PNH	Symp.	PEA	PRP	3D / PM	PNH
9:00	Marc Hillmyer Plenary				9:00	Eduado Vivaldo-Lima Plenary			
9:15					9:15				
9:30					9:30				
9:45					9:45				
10:00	Coffee Break				10:00	Natalie Stingelin Plenary			
10:15					10:15				
10:30	S. Miller *Invited Talk*	R. Olayo-Valles *Invited Talk*	N. Stingelin *Invited Talk*	M. Grunlan *Invited Talk*	10:30				
10:45					10:45				
11:00	M. Zelotukhin *Invited Talk*	S. Carrasco-Saavedra	G. Ramos-Ortiz *Invited Talk*	M. Conda Sheridan *Invited Talk*	11:00	Coffee Break			
11:15		J. Quezada Urbina			11:15				
11:30	J. Bonilla-Cruz	N. Tenguy *Invited Talk*	E. Hermosillo-Ochoa	M. Kinsella *Invited Talk*	11:30	B. Lessard *Invited Talk*	R. Thompson *Invited Talk*	A. Aguirre-Soto *Invited Talk*	J. Grunlan *Invited Talk*
11:45	R. López-González		S. Karamikamkar *Invited Talk*		11:45				
12:00	J. Báez *Invited Talk*	B. Olson *Invited Talk*		S. Nazhat *Invited Talk*	12:00	D. Petri *Invited Talk*	H. Rahmani *Invited Talk*	K. Song *Invited Talk*	S. Seo *Invited Talk*
12:15			A. Ampuero		12:15				
12:30	Lunch				12:30	A. Ampuero	P. Lee *Invited Talk*	J. Ku-Herrera *Invited Talk*	P. Alcoza *Invited Talk*
12:45					12:45	T. Lara-Ceniceros *Invited Talk*			
13:00					13:00		A. González Montiel *Invited Talk*	F. Robles-González	J. Singh
13:15					13:15	J. Flores Oyervides		M. Velasco-Gómez	R. Cruz Silva
13:30					13:30			F. Soriano-Corral	
13:45					13:45	Lunch			
14:00	A. Tellez González	R. Eliseo *Invited Talk*	R. Advincula *Invited Talk*	M. Bockstaller *Invited Talk*	14:00				
14:15	Y. Dominguez				14:15				
14:30	K. de France *Invited Talk*	L.Santelli *Invited Talk*	J. Qi *Invited Talk*	M. Arjmand *Invited Talk*	14:30				
14:45					14:45				
15:00	H. Abid	S. Jamali *Invited Talk*	J. Bonilla-Cruz *Invited Talk*	S. Kumar *Invited Talk*	15:00	E. Cisneros López	N. Virgilio *Invited Talk*	L. Broadbelt *Invited Talk*	M. Shofner *Invited Talk*
15:15	G. Luna-Bárcenas *Invited Talk*				15:15	G. Luenga *Invited Talk*			
15:30		O. Manero *Invited Talk*	M. Trejo	T. del Castillo Castro *Invited Talk*	15:30		N. Demarquette *Invited Talk*	M. Grady *Invited Talk*	O. Pérez-Camacho *Invited Talk*
15:45	M. Cunningham *Invited Talk*		E. Caldana *Invited Talk*		15:45	J. Cardoso *Invited Talk*			
16:00		M. Romero-Ureña		C. Pilan-Balderrama	16:00		E. Macías Balleza *Invited Talk*	I. Zapata-González *Invited Talk*	A. Hernández de la Rosa
16:15	V. García *Invited Talk*	M. Figueroa Landeta	S. Beigi-Boroujeni *Invited Talk*	C. Mendoza Sotenos	16:15	A. López-Martínez			D. Rodrigue
16:30		A. Rosales-Romero		F. Robles González	16:30	Coffee Break			
16:45	M. Shofner		A. Iturri	A. López Martínez	16:45		R. González Muñoz *Invited Talk*	R. Hutchinson *Invited Talk*	T. Llarena Bravo
17:00	MACROMEX PHOTO				17:00				E. Ramírez Soria
17:15					17:15		E. Behzadfar	F. Salarhosseini	J. Bonilla-Cruz
17:30	POSTER SESSION				17:30		L. Moreno del Río	E. Saldívar-Guerra *Invited Talk*	E. Vejar Quihuis
17:45					17:45		N. Vidal Resipe		A. Rivera Cortés
18:00					18:00		G. Landázuri Gómez *Invited Talk*	V. Comparán Padilla	M. Robertson *Invited Talk*
18:15					18:15				
18:30					18:30				
18:45					18:45				
19:00					19:00				
19:15					19:15				
19:30					19:30				
19:45					19:45				
20:00					20:00	GALA DINNER			
20:15					20:15				
20:30					20:30				
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22:45					22:45				
23:00					23:00				

GENERAL PROGRAM

	Thursday, 5 Nov			
room		Isla Mujeres	Cancún	Tulum
Symp.		PRP	PM	IA
9:00		M. Trifkovic *Invited Talk*	J. Soares *Invited Talk*	R. Advincula *Invited Talk*
9:15				
9:30		C. López-Barrón *Invited Talk*	S. Mohebbi	J. Xu *Invited Talk*
9:45				
10:00		J. López-Aguilar *Invited Talk*	J. Olivares *Invited Talk*	A Flores *Invited Talk*
10:15				
10:30		H. Petri *Invited Talk*		R. Cruz Silva *Invited Talk*
10:45				
11:00	CLOSING CEREMONY. CANCUN ROOM			

PS	S1. Polymer Synthesis
PPC	S2. Polymer Physics and Characterization
BP	S3. Biopolymers for Biomedical & Health Applications
PMAT	S4. Polymer Materials for Advanced Technologies
PEA	S5. Polymers for Environmental Applications
3D	S6. 3D/4D Printing of Polymers & Composite Materials
PRP	S7. Polymer Rheology and Processing
PNH	S8. Polymer Nanocomposites & Hybrid Materials
FP	S9. Food Polymers Functionality and Applications
PM	S10. Polymerization and Polymer Systems Modeling
IA	S11. AI/Machine Learning for Polymers

PLENARY LECTURES

Room Quintana Roo

TIME	PLENARY	PRESENTING AUTHOR	TITLE	TOPIC
SUNDAY, NOVEMBER 1, 2026				
17:30	I	**Tim Lodge**	(HOW) DO BLOCK COPOLYMER MICELLES EQUILIBRATE?	S2
18:30	II	**Denise Petri**	ENGINEERING POROUS POLYMER STRUCTURES: FROM MICROSTRUCTURE TO PROPERTIES	S5
MONDAY, NOVEMBER 2 2026				
9:00	III	**Kryztof Matyjaszewsky**	ATOM TRANSFER RADICAL POLYMERIZATION: FROM SYNTHESIS TO APPLICATIONS	S1
TUESDAY, NOVEMBER 3, 2026				
9:00	IV	**Marc Hillmyer**	TELECHELIC POLYMERS FOR SUSTAINABLE POLYOLEFINS	S1
WEDNESDAY, NOVEMBER 4, 2026				
9:00	V	**Eduardo Vivaldo-Lima**	SYNTHESIS AND KINETIC MODELING OF STRUCTURAL CHARACTERISTICS OF ABSORBENT MATERIALS USING REVERSIBLE DEACTIVATION RADICAL POLYMERIZATION (RDRP) CHEMICAL ROUTES WITH A SUSTAINABLE PERSPECTIVE	S10
10:00	VI	**Natalie Stingelin**	PHASE DIAGRAMS OF COMPLEX MATERIALS: FROM THE KATANA, SWISS CHOCOLATES TO SEMICONDUCTING POLYMERS	S4

S1. POLYMER SYNTHESIS (PS)

ORAL SESSION – Room Quintana Roo

MONDAY, NOVEMBER 2, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Brent Summerlin**	Depolymerization as a design tool for next-generation polymer materials
11:00	INVITED TALK	**Michaela Stefan**	Amphiphilic polycaprolactone diblock copolymers for delivery of anticancer drugs
11:30	INVITED TALK	**Chuanbing Tang**	Precision polymer design: from stereochemistry to sequence for antimicrobial function
12:00	INVITED TALK	**Adrian Figg**	Pushing the limits of PET to access defined copolymers
12:30	**Lunch**		
14:00	INVITED TALK	**Jacob Lessard**	Polymer materials with embedded reactivity and degradability
14:30	INVITED TALK	**Elisabeth Prince**	Photopolymerized networks derived from functional derivatives of alpha lipoic acid
15:00	INVITED TALK	**Angel Licea-Claveríe**	Synthetic strategies for the preparation of thermoresponsive and fluorescent polymers: block copolymers and nanogels

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Stephen Miller**	Amide to ester polymerization (ATEP)
11:00	INVITED TALK	**Mikhail Zolotukhin**	Superacid Catalyzed Polycondensation: State of the art and future challenges
11:30	REGULAR TALK	**José Bonilla-Cruz**	Molar-mass-dependent clusterization-triggered emission in non-isocyanate poly(hydroxyurethane-thioether)s
11:45	REGULAR TALK	**Ricardo López-González**	New phospholane monomer and its homopolymerization and copolymerization to obtain biodegradable materials
12:00	INVITED TALK	**Jose Eduardo Báez**	Exploring oligomers derived from polyesters
12:30	**Lunch**		

S2. POLYMER PHYSICS AND CHARACTERIZATION (PPC)

ORAL SESSION – Room Isla Mujeres

MONDAY, NOVEMBER 2, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Reza Foudazi**	From solvent-mediated micellization to packing in a face-centered cubic structure of poloxamers
11:00	INVITED TALK	**Michelle Calabrese**	Magnetic fields modulate solvent and coronal dynamics in non-magnetic block copolymer micelles
11:30	INVITED TALK	**Jorge Herrera Ordoñez**	Challenging the classical understanding of emulsion polymerization
12:00	INVITED TALK	**Muzhou Wang**	Single-molecule optical microscopy reveals diffusion that is surprisingly heterogeneous in many polymer systems
12:30	**Lunch**		
14:00	INVITED TALK	**Ralm Ricarte**	Enhanced miscibility and elasticity in polystyrene and poly(ethylene glycol) vitrimer blends
14:30	INVITED TALK	**Konane Bay**	Influence of liquid-polymer interfaces on deformation and fracture of polymer thin films
15:00	REGULAR TALK	**Víctor Alan Cabazos Ramírez**	Viscoelastic behavior of PEEK: a fractional calculus approach
15:15	REGULAR TALK	**Milton Oswaldo Vázquez Lepe**	Evaluation of mechanical properties and XPS chemical analysis of modified lignin composites derived from natural fibers in a poly(lactic acid) matrix.
15:30	**Coffee Break**		

MONDAY, NOVEMBER 2, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
15:45	INVITED TALK	**Alexei Sokolov**	Designing superionic polymer electrolytes: recent achievements and current challenges
16:15	INVITED TALK	**Matthew Panzer**	Cation-mediated cross-links enable polyzwitterionic networks within an ionic liquid environment
16:45	INVITED TALK	**Josué Mota-Morales**	Piezoionic eutectogels: emerging soft materials for iontronic sensing
17:15	REGULAR TALK	**Ivan Alziri Estrada Moreno**	Crystallization behavior of PVDF/$BaTiO_3$ composites
17:30	INVITED TALK	**Vahid Shabafrooz**	From composition to performance: thermal and thermomechanical characterization of polymers
18:00	INVITED TALK	**Bryan Katzenmeyer**	Elucidating Molecular Structure-Property Relationships via Advanced Polymer Mass Spectrometry

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Roberto Olayo-Valles**	Poly(ε-caprolactone)/iron oxide composite particles for magnetically triggered drug release and magnetic resonance imaging
11:00	REGULAR TALK	**Saúl Carrasco-Saavedra**	From green solvents to solid matrices: menthol:thymol hydrophobic eutectogels for perovskite nanocrystals immobilization

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
11:15	REGULAR TALK	**Jesús Quezada Urbina**	Plasma-liquid interactions and their influence on the fabrication of PVA core-shell nanofibers for sustained amphotericin b release
11:30	INVITED TALK	**Nicolas Tanguy**	From biomass to electronics: sustainable materials to produce transient devices
12:00	INVITED TALK	**Bradley Olsen**	High-throughput synthesis and characterization of bioedgradable polymers
12:30	**Lunch**		

S3. BIOPOLYMERS FOR BIOMEDICAL AND HEALTH APPLICATIONS (BP)

ORAL SESSION – Room Tulúm

MONDAY, NOVEMBER 2, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Carmen Scholtz**	Together-yet-separate-Poly(amino acid)s for the corralling of nanoparticles for magnetic particle imaging
11:00	INVITED TALK	**Hasan Uludag**	Engineered Lipopolymers to Realize the Full Promise of Nucleic Acid Therapies
11:30	INVITED TALK	**Kenneth Shea**	Synthetic antibodies-Abiotic alternatives to their biological counterparts
12:00	REGULAR TALK	**Hina Abid**	Development of natural polymer-based hydrogel materials for ophthalmic contact lens applications
12:15	REGULAR TALK	**Guadalupe Hortensia Luévano Colmenero**	Conjugation of human amniotic membrane ECM and oligourethanes to form hydrogels as a platform for trichomoniasis studies
12:30	**Lunch**		
14:00	INVITED TALK	**Stefan Zauscher**	DNA nanomaterials via TdT-catalyzed enzymatic polymerization: From drug-loaded micelles to programmable origami assemblies
14:30	INVITED TALK	**Perla García**	From nanofiber architecture to therapeutic function: electrospun polymer systems for controlled drug delivery
15:00	REGULAR TALK	**Luis Carlos Miranda Fregoso**	Jellyfish collagen: decellularization of stomolophus meleagris umbrella for biomedical applications
15:15	REGULAR TALK	**Karla Fabiola García Verdugo**	Development of catechol-based photothermal hydrogel systems for biomedical applications

TIME	PRESENTATION	PRESENTING AUTHOR	TITLE
15:30	**Coffee Break**		
15:45	INVITED TALK	**Birzabith Mendoza Novelo**	Reversibly protected macroisocyanates and silicon particles that enhance properties of biomedical collagen
16:15	REGULAR TALK	**Daniel Alejandro Gonzáles Palafox**	EDC/NHS-mediated synthesis and characterization of tunable thermoresponsive CS-g-PNVCL copolymers and self-crosslinked networks
16:30	REGULAR TALK	**Javier David Ruíz Gutierrez**	CHITOSAN-co-PMETAC cationic copolymer and its role in the formation of protein-polysaccharide aggregates
16:45	INVITED TALK	**Juan Valerio Cauich Rodríguez**	Polyurethane grafts for cardiovascular and peripheral nerve repair
17:15	REGULAR TALK	**Antonio Martínez Richa**	Development of tissue adhesive based on polyurethane nanocomposites reinforced with functionalized carbon nanotubes and quantum dots
17:30	REGULAR TALK	**Josselyne Guadalupe Tránsito Medina**	Design and characterization of electrospun biopolymeric nanofibers as controlled drug delivery systems
17:45	REGULAR TALK	**Roberto Olayo-González**	Histological and Mechanical Evaluation of implanted cartilage with Plasma-Functionalized Electrospun PLA–PCL Scaffolds
18:00	REGULAR TALK	**Kathryn Uhrich**	Polymeric bioactives: biobased polymers from bioactives and as bioactives

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Melissa Grunlan**	Amphiphilic surface modifying additives to produce antifouling silicones for medical devices
11:00	INVITED TALK	**Martin Conda Sheridan**	Peptide amphiphiles nanostructures; from property to function
11:30	INVITED TALK	**Matt Kinsella**	Developing mechanically tunable decellularized extracellular matrix hydrogels as scaffolds for patient derived organoids
12:00	INVITED TALK	**Showan Nazhat**	Automated biofabrication of tailored dense collagen tissue templates
12:30	**Lunch**		

S4. POLYMER MATERIALS FOR ADVANCED TECHNOLOGIES (PMAT)

ORAL SESSION – Room Cancún

MONDAY, NOVEMBER 2, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Martin Heeney**	Functionalisation of conjugated polymers post-polymerisation
11:00	REGULAR TALK	**Erasto Armando Zaragoza Contreras**	Anilinium Dodecyl Sulfate-Derived Polyaniline as a pH-Responsive Material for Theranostic Applications
11:15	REGULAR TALK	**Hatef Yousefian**	Engineering PEDOT:PSS Conformation for Transferable Electromagnetic Interference (EMI) Shielding Films
11:45	INVITED TALK	**Benoit Lessard**	Engineering polymer interactions for advanced electronics
12:00	INVITED TALK	**Harald Ade**	Utility of phase diagrams of conjugated polymeric systems: from organic photovoltaic blends to molecular doping
12:30	**Lunch**		
14:00	INVITED TALK	**Karen Lozano**	Forcespinning of polymeric nanofibers: process-structure-property relationships and scalable platforms for advanced technologies
14:30	INVITED TALK	**Maria Ortencia González Díaz**	From plastic waste to functional membranes for separation applications

TIME	PRESENTATION	PRESENTING AUTHOR	TITLE
15:00	INVITED TALK	**Carla Aguilar-Lugo**	Synthetic approaches in monomer design of thermally rearranged polybenzoxazoles for gas separation
15:30	**Coffee Break**		
15:45	REGULAR TALK	**Larissa Alexandrova**	Novel synthetic methodologies and monomer design for polybenzimidazoles: overcoming processability for high-performance gas separation membranes
16:00	INVITED TALK	**Enoc Cetina Mancilla**	From superacid-catalyzed polyhydroxyalkylation to carbon molecular sieve membranes: designing high-performance polymer precursors
16:30	REGULAR TALK	**Lilian Iraís Olvera Garza**	Engineering well-defined ether-free aromatic polymers for advanced energy conversion, storage, and catalytic technologies
16:45	INVITED TALK	**Chulsung Bae**	Molecular engineering of ion-conducting polymers: synthesis, properties, and electrochemical energy applications

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
10:30	INVITED TALK	**Natalie Stingelin**	Cool plastics for a greener world
11:00	INVITED TALK	**Gabriel Ramos-Ortíz**	From molecular nonlinearities to functional materials: an example of the evolution of nonlinear optical polymers
11:30	REGULAR TALK	**Eduardo Hermosillo-Ochoa**	Tuning ionic conductivity in poly(ionic liquids) through polymer architecture, topology and non-ionic comonomers driven by dipolar interactions
11:45	INVITED TALK	**Solmaz Karamikamkar**	From material selection to package engineering: a translational materials design strategy for primary pharmaceutical packaging
12:15	REGULAR TALK	**Ana Cristina Amparán**	DLP 3D-printed elastomeric PVA/PAA hydrogels for quasi-solid-state electrolytes for energy storage applications
12:30	**Lunch**		

S5. POLYMERS FOR ENVIRONMENTAL APPLICATIONS (PEA)

ORAL SESSION – Room Quintana Roo

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
12:30	**Lunch**		
14:00	REGULAR TALK	**Annabel Lee Tellez González**	Cross-linked chitosan and zeolite composite for iron removal from wastewater
14:15	REGULAR TALK	**Yamil Dominguez Garduño**	Physicochemical characterization of SCOBY/PPy-Based composite materials
14:30	INVITED TALK	**Kevin de France**	From canola meal to materials: designing sustainable materials with cellulose & protein
15:00	REGULAR TALK	**Hina Abid**	Visible-light-responsive CDO and CO_2O_3-based nanocomposites as multifunctional photocatalysts for organic pollutant abatement in wastewater treatment
15:15	INVITED TALK	**Gabriel Luna-Bárcenas**	Multi-scale optimization of PET recycling, nanocomposite PAN rheology, and molecular docking for high-performance synthetic fiber manufacturing
15:45	INVITED TALK	**Michael Cunningham**	Carbon dioxide responsive polymers for use in environmentally friendly protective coatings

TIME	PRESENTATION	PRESENTING AUTHOR	TITLE
16:15	INVITED TALK	**Vladimir García**	Natural polymers for the future of energy storage
16:45	REGULAR TALK	**Meisha Shofner**	Cellulose nanomaterial-based auxetic metamaterials: influence of network structure
17:00	**MACROMEX PHOTO**		
17:30	**POSTER SESSION**		

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
10:00	**Coffee Break**		
11:30	INVITED TALK	**Benoit Lessard**	Polymers for sustainable electronics
12:00	INVITED TALK	**Denise Petri**	Lignocellulosic and cellulose-derived adsorbents for sustainable wastewater treatment
12:30	REGULAR TALK	**Ana Cristina Amparán**	From 3D printing to water remediation with tailored PVA/PAA hydrogels for copper ion removal
12:45	INVITED TALK	**Tania Ernestina Lara-Ceniceros**	Eco-friendly 3D printed hydrocolloids based on nanocellulose for water and air purification
13:15	REGULAR TALK	**Jesús David Flores Oyervides**	Recycled polystyrene-derived sulfonated polystyrene films for methylene blue removal: adsorption performance and kinetic study
13:30	**Lunch**		

TIME	PRESENTATION	PRESENTING AUTHOR	TITLE
15:00	REGULAR TALK	**Erick Omar Cisneros López**	Dual effects of thermal annealing on rotomolded PLA biocomposites reinforced with agave, coir, and pine fibers
15:15	INVITED TALK	**Gustavo Luengo**	Materials challenges for eco-sustainable cosmetics. Tuning material properties for adsorption, adhesion, lubrication and sensorial performance
15:45	INVITED TALK	**Judith Cardoso**	Hybrid MIP-PEROXONE system for selective capture and mineralization of pharmaceutical contaminants in wastewater
16:15	REGULAR TALK	**Arely Monserrat López Martínez**	Multifunctional polyacrylate/maleimide nanocomposites reinforced with gallic acid-functionalized GO-Ag nanohybrids: electrical, remediation, and antimicrobial evaluation
16:30	**Coffee Break**		

S5. POLYMERS FOR ENVIRONMENTAL APPLICATIONS (PEA)

ORAL SESSION – Room Tulum

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
12:30	**Lunch**		
17:30	REGULAR TALK	**Esmeralda Sarahí Vejar Quihuis**	Tetracycline photodegradation by sodium alginate composite beads modified with TiO_2, activated carbon, and carbon nanotubes
17:45	REGULAR TALK	**Alfredo Daniel Rivera Cortés**	Degradation and functionalization of waste polymers with L-proline and their application in asymmetric aldol reaction
15:45	INVITED TALK	**Megan Robertson**	Enabling Polyolefin Circularity through Melt Functionalization and Upcycling

S6. 3D/4D PRINTING OF POLYMERS & COMPOSITE MATERIALS (3DP)

ORAL SESSION – Room Cancún

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
12:30	**Lunch**		
14:00	INVITED TALK	**Rigoberto Advincula**	Lignocellulosic and polysaccharide valorizing: high-performance 3D/4D printable materials and coatings
14:30	INVITED TALK	**Jerry Qi**	Grayscale digital light process 3D printing as a platform for manufacturing multifunctional and shape-morphing structures
15:00	INVITED TALK	**José Bonilla-Cruz**	Functional polymer materials by VAT photopolymerization: from molecular design to 3D architectures
15:30	REGULAR TALK	**Melisa Trejo**	Facile Elastomeric 3D Printed Materials: Polybutadiene-Acrylate Resins and Latent Cross-Linking via Digital Light Processing
15:45	INVITED TALK	**Eugene Caldona**	Design, optimization, and fabrication of sustainable functional 3D-printed polymeric materials
16:15	INVITED TALK	**Saeed Beigi-Boroujeni**	Design of sustainable photocurable hydrogels for 3D printing
16:45	REGULAR TALK	**Aliakbar Isari**	3D liquid-in-liquid printing of structured emulsions into hierarchically porous multifunctional aerogels
17:00	**MACROMEX PHOTO**		
17:30	**POSTER SESSION**		

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
11:00	**Coffee Break**		
11:30	INVITED TALK	**Alan Aguirre-Soto**	How far along are we with vat photopolymerization in soft polymers?
12:00	INVITED TALK	**Kenan Song**	Programmable hierarchical polymer and composite materials via advanced additive manufacturing
12:30	INVITED TALK	**José de Jesús Ku Herrera**	Rational design of hierarchical polymeric composites: engineering complexity with purpose
13:00	REGULAR TALK	**Felipe Robles González**	Impact of material extrusion on the mechanical reinforcement and electrical conductivity of FFF 3D-printed acrylic-maleimide nanocomposites reinforced with 1D+2D nanofillers
13:15	REGULAR TALK	**M Velasco Gómez**	A comparative study of polymer biocomposites incorporating biomass from different sources (seaweed and barley bagasse) for additive manufacturing
13:30	REGULAR TALK	**Florentino Soriano Corral**	Estudio de la estabilidad térmica, procesabilidad y cinética de degradación del compuesto PEI/MWCNT tras múltiples ciclos de procesamiento por extrusión e impresión 3D
13:45	**Lunch**		

S7. POLYMER RHEOLOGY AND PROCESSING (PRP)

ORAL SESSION – Room Isla Mujeres

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
12:30	**Lunch**		
14:00	INVITED TALK	**Marco Ellero**	A generic-informed neural network for thermodynamic structure-preserving constitutive modeling of viscoelastic fluids
14:30	INVITED TALK	**Luca Santelli**	SPH-based analysis of integral fractional K-BKZ viscoelastic models
15:00	INVITED TALK	**Safa Jamali**	Physics-informed data-driven frameworks for rheological applications
15:30	INVITED TALK	**Octavio Manero**	Rheological modelling of complex fluids
16:00	REGULAR TALK	**Moisés Romero-Ureña**	On the effects of salt ionic strength and concentration on the rheological response of CTAT-based living-polymer solutions studied with rheo-optical SALS techniques
16:15	REGULAR TALK	**Michelle Figueroa Landeta**	Rheological fingerprints for a bmp model-variant with elasto-visco-plastic features under a true yield-stress approach
16:30	REGULAR TALK	**Alan Rosales-Romero**	Semi-analytical modelling of viscoelastic lubrication forces between approaching spheres: from Boger fluids to shear-thinning polymeric matrices.
17:00	**MACROMEX PHOTO**		
17:30	**POSTER SESSION**		

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
11:00	**Coffee Break**		
11:30	INVITED TALK	**Roney Leon Thompson**	Droplets impacting on viscoelastic polymeric solutions
12:00	INVITED TALK	**Hossein Rahmani**	Linear stability of Saramito-Bingham channel flow
12:30	INVITED TALK	**Patrick Lee**	Engineering hierarchical filler networks in multifunctional polypropylene composites
13:00	INVITED TALK	**Alfonso González Montiel**	Architectural effects of epoxy-functional copolymers on melt strength and extensional rheology of biopolyesters
13:30	**Lunch**		
15:00	INVITED TALK	**Nick Virgilio**	Controlling the morphology of high performance PEEK based polymer systems from the nanometer to the micron scale
15:30	INVITED TALK	**Nicole Demarquette**	From compatiilization to circularity: rheology-guided design of polymer blends and nanocomposites
16:00	INVITED TALK	**Emma Rebeca Macias Balleza**	Waste-derived nanocellulose for sustainable polymer materials: from hydrogels and bioplastics to asphalt applications
16:30	**Coffee Break**		
16:45	INVITED TALK	**Ruben González Nuñez**	Rheological and mechanical properties of poly(lactic acid)/poly(ε-caprolactone) blends: influence of processing techniques
17:15	REGULAR TALK	**Ehsan Behzadfar**	Evolutionary rheology and structural dynamics of sustainable polymer systems throughout the material life cycle

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
17:30	REGULAR TALK	**Luz Gabriela Moreno del Río**	Impacto de la adición de una fase elastomérica (caucho) a un sistema de PLA/PCL en películas plásticas
17:45	REGULAR TALK	**Nataly Vidal Realpe**	Experimentally validated modeling Framework for the Viscosity of Polymeric Rheology Modifiers
18:00	INVITED TALK	**Gabriel Landázuri Gómez**	Determinación de parámetros cinéticos de reacciones fotoiniciadas en solventes eutécticos profundos mediante mediciones reológicas

THURSDAY, NOVEMBER 5, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
9:00	INVITED TALK	**Milana Trifkovic**	pH-Driven precipitation tunes the rheology of biopolymer-stabilized emulsions
9:30	INVITED TALK	**Carlos López-Barrón**	Extensional strain-hardening induced by π-π Interactions and ionic bonds in poly(4-vinylbiphenyl) ionomers
10:00	INVITED TALK	**J. Esteban López-Aguilar**	Recent advances in computation modelling of complex flows of thixo-viscoelastoplastic fluids: theoretical predictions and experiments
10:30	INVITED TALK	**Hans Michael Petri**	linking molecular structure and mechanical response during PLA cold crystallization using a rheo-raman approach

S8. POLYMER NANOCOMPOSITES & HYBRID MATERIALS (PNH)

ORAL SESSION – Room Tulúm

TUESDAY, NOVEMBER 3, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
12:30	**Lunch**		
14:00	INVITED TALK	**Michael Bockstaller**	Disordered hyperuniform hybrid materials for isotropic phoxonics (X = t, n)
14:30	INVITED TALK	**Mohammad Arjmand**	Multilayer electrospun mats for absorption-dominant EMI shielding
15:00	INVITED TALK	**Sanat Kumar**	Field-assisted nanoparticle ordering in semicrystalline polymers
15:30	INVITED TALK	**Teresa del Castillo Castro**	Electroactive nanocomposite hydrogels: from network structure to electrically triggered drug release
16:00	REGULAR TALK	**Claudia Piñón-Balderrama**	Tailoring Polyaniline for Creatinine Recognition: The Role of Long-Chain Dopants, Molecular Imprinting, and Nickel Nanoparticles
16:15	REGULAR TALK	**Cristina Salomé Mendoza Sostenes**	Synthesis of sodium alginate, polyvinyl alcohol, and ZIF-8 fibers as precursors of crumpled materials applied to alternative agriculture methods as controlled-release systems
16:30	REGULAR TALK	**Felipe Robles González**	Synergistic 1D+2D conductive network in acrylic-maleimide terpolymer nanocomposites reinforced with annealed rGO-AgNPs nanohybrid and MWCNTs

TIME	PRESENTATION	PRESENTING AUTHOR	TITLE
16:45	REGULAR TALK	**Arely Monserrat López Martínez**	In situ polymerization of ethylene/1-octene nanocomposites with GO-Ag nanohybrids: effect of functionalization on catalytic and electrical properties
17:00	**MACROMEX PHOTO**		
17:30	**POSTER SESSION**		

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
11:00	**Coffee Break**		
11:30	INVITED TALK	**Jaime Grunlan**	Super gas barrier and flame retardancy with aqueous polyelectrolyte complex coatings
12:00	INVITED TALK	**S. Eileen Seo**	Tailorable nanoparticle-based bonds in self-healing polymer networks
12:30	INVITED TALK	**Pinar Akcora**	Effect of chain architecture on mixing, structure and mechanical performance in polymer-grafted nanoparticle composites
13:00	REGULAR TALK	**Jagat Singh**	Templated self-assembly of polymer-grafted nanoparticles within block copolymer domains
13:15	REGULAR TALK	**Rodolfo Cruz Silva**	Transparent nanofiber-reinforced epoxy composites
13:30	**Lunch**		
15:00	INVITED TALK	**Meisha Shofner**	Surface-localized nanocomposites as flexible, electrically conductive materials for space applications
15:30	INVITED TALK	**Odilia Pérez-Camacho**	Acrylate terpolymers nanocomposites and MWCNT with electrical semi-conductive properties

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
16:00	REGULAR TALK	**Aldair Hernández de la Rosa**	Enhancing a commercial epoxy resin to achieve a high-performance, multifunctional coating by precisely controlling the concentration of phosphate-functionalized graphene nanoplatelets
16:15	REGULAR TALK	**Denis Rodrigue**	Electrospun fibers with carbon dots based on recycled polystyrene
16:30	**Coffee Break**		
16:45	REGULAR TALK	**Topacio Llanera Bravo**	Effect of the incorporation method of rGO-CuO-Ag nanohybrids on the electrical and thermomechanical properties of polyacrylate nanocomposites
17:00	REGULAR TALK	**Edgar Ramírez Soria**	Enhancing photoelectrode development by combining functionalized graphene nanoplatelets, Atomic Layer Deposition, and 3D polymer printing technology
17:15	REGULAR TALK	**José Bonilla Cruz**	Engineering polymer-nanomaterial interfaces: how surface functionalization and grafting density govern nanocomposite performance

S9. FOOD POLYMERS FUNCTIONALITY AND APPLICATIONS (FP)

ORAL SESSION – Room Quintana Roo

MONDAY, NOVEMBER 2, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
15:30	**Coffee Break**		
15:45	INVITED TALK	**Raul Rodríguez Herrera**	Aguamiel a fresh beverage from maguey (Agave SPP) with functional properties
16:15	INVITED TALK	**Benoit Lessard**	From food polymers to functional electronics
16:45	INVITED TALK	**Itza Nallely Cordero Soto**	Microbial biopolymers: from biotechnological production to food applications

S10. POLYMERIZATION AND POLYMER SYSTEMS MODELING (PM)

ORAL SESSION – Room Cancún

WEDNESDAY, NOVEMBER 4, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
13:30		**Lunch**	
15:00	INVITED TALK	**Linda Broadbelt**	Kinetic modeling across scales to understand complex chemical reaction networks
15:30	INVITED TALK	**Michael Grady**	High temperature acrylic polymerization process modeling
16:00	INVITED TALK	**Ivan Zapata-González**	Unraveling the Kinetic Framework of Tertiary Amine and PEGylated (Meth)acrylates: transesterification, propagation-depropagation and copolymerization
16:30		**Coffee Break**	
16:45	INVITED TALK	**Robin Hutchinson**	Acrylic resins via high-temperature solution radical copolymerization: modeling insights and process innovations
17:15	REGULAR TALK	**Fatemeh Salarhosseini**	Measurement of radical copolymerization kinetics of sparingly water-soluble monomers in organic and aqueous solvents
17:30	INVITED TALK	**Enrique Saldívar-Guerra**	Application of kinetic modeling for the synthesis and pyrolysis of polystyrene and its copolymers with alpha-methyl styrene prepared by conventional radical and nitroxide mediated polymerizations. Increasing the monomer recovery for a circular economy
18:00	REGULAR TALK	**Víctor E. Comparán Padilla**	Study of interactions on polyethylene/silver-reduced graphene oxide nanohybrid nanostructured polymer by quantum chemical calculations

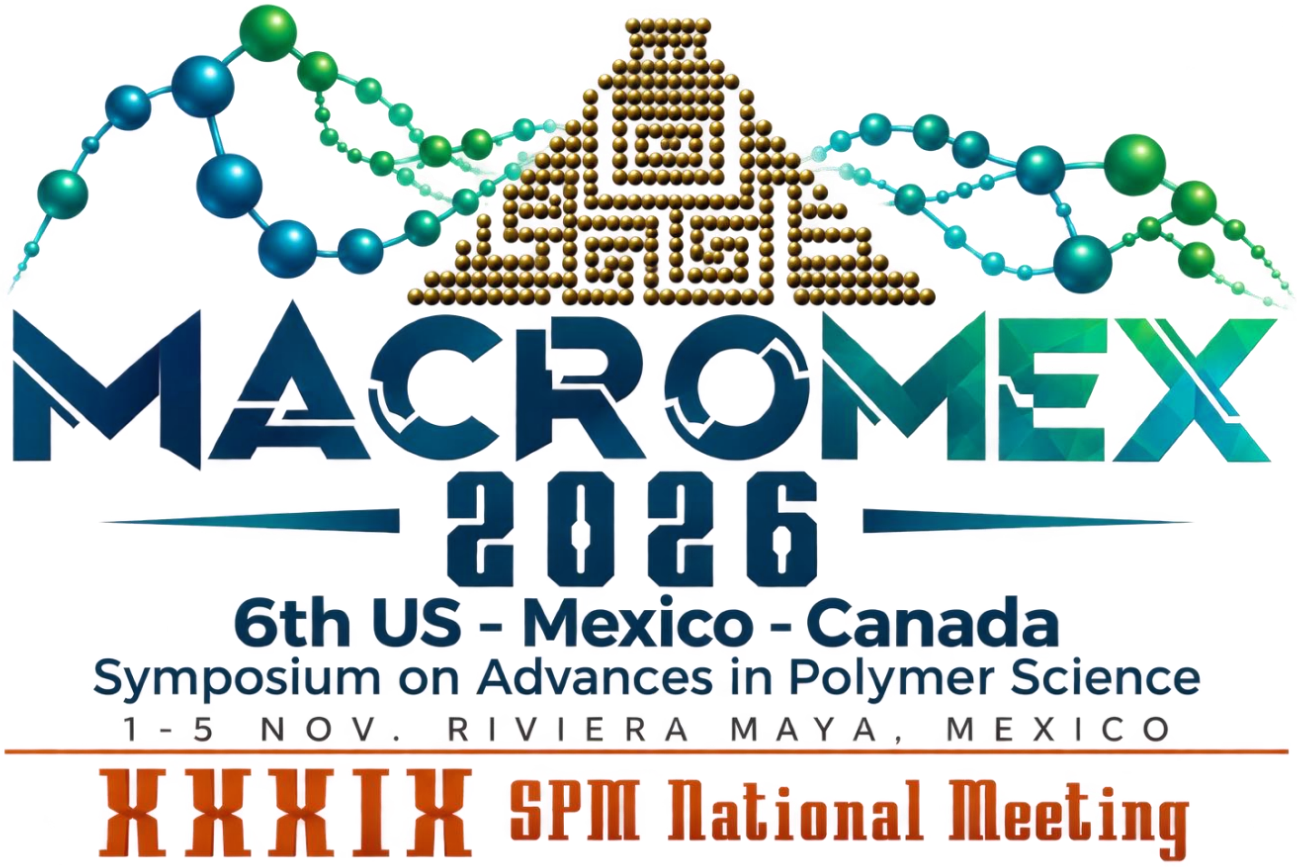
THURSDAY, NOVEMBER 5, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
9:00	INVITED TALK	**João Soares**	Monte Carlo methods in polymer reaction engineering: from molecular mechanisms to accelerated simulation
9:30	REGULAR TALK	**Sara Mohebbi**	Towards sustainable acrylic resins: free-radical copolymerization of bio-based itaconates with butyl acrylate
10:00	INVITED TALK	**J. Alberto Olivares**	Fano type resonances during the drying of emulsion base films

S11. AI/MACHINE LEARNING FOR POLYMERS (IAP)

ORAL SESSION – Room Tulúm

THURSDAY, NOVEMBER 5, 2026			
TIME	**PRESENTATION**	**PRESENTING AUTHOR**	**TITLE**
9:00	INVITED TALK	**Rigoberto Advincula**	AI/ML for fabrication and synthesis of high-performance polymers
9:30	INVITED TALK	**Jie Xu**	Polymer Innovation through AI-driven Robotic Labs
10:00	INVITED TALK	**Antonio Flores**	From first-principles to liquid neural networks: data-driven and hybrid digital twins of polymerization reactors
10:30	INVITED TALK	**Rodolfo Cruz Silva**	Permeation of micropollutants through aromatic polyamide membranes: a lasso-based molecular descriptor analysis

POSTER SESSION



POSTER SESSION

TUESDAY, NOVEMBER 3, 2026

BANDERAS (FOYER 2). 17:30-20:00

S1. POLYMER SYNTHESIS (PS)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S1-abs006	**Esmeralda Carranza Carmona**	Structure of soluble and insoluble polyallylamine obtained by magnetic plasma synthesis
S1-abs007	**Nadia González Téllez**	Synthesis by plasma of super hydrophilic polyethylene glycol
S1-abs008	**Ana Elizabeth Uría Arteaga**	Plasma synthesis of polyketones from acetone vapors and analysis of their properties
S1-abs012	**Maribel González Torres**	Glow plasma toluene polymerization: structural and morphological study
S1-abs016	**Daniel Alcalá Sánchez**	Effect of solvent concentration on molecular weight, conversion, and thermal stabilization of PAN terpolymer precursors
S1-abs023	**Kathleen Abigail Montoya Villegas**	Dual-responsive salicylic acid-releasing block copolymers synthesized via RAFT: composition-dependent self-assembly
S1-abs024	**María Esther Treviño Martínez**	Synthesis of pH-responsive polymeric nanoparticles via miniemulsion polymerization for controlled drug release

S2. Polymer Physics and Characterization (PPC)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S2-abs003	**Jimena Guadalupe Baeza Pantí**	Effect of distilled water washing time on the structural, optical, and morphological properties of kombucha-derived bacterial cellulose films
S2-abs004	**Guillermo Jesús Cruz Cruz**	Methodology to calculate crosslinking in polymers
S2-abs017	**Gerardo A. Fonseca-Hernández**	Mechanical testing: a multifaceted approach to eutectogel characterization
S2-abs027	**Maricela García Zamora**	Tailoring the mechanical and thermal properties of poly(MMA-co-BA-co-MA) terpolymers: effects of composition and kinetic insight
S2-abs032	**Mariana L. Luján-Aguilar**	Multiscale characterization of PVDF/$BaTiO_3$ composites: from microstructure to thermomechanical and mechanical response

S3. Biopolymers for Biomedical & Health Applications (BP)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S3-abs003	**Brisa Lizbeth Moreno Alcibar**	Chitosan/HEMA/alginate double-network hydrogels obtained via riboflavin-induced photopolymerization for the encapsulation of linaloe essential oil (bursera linanoe)
S3-abs008	**Miguel Angel Quintero Romero**	Síntesis y caracterización de hidrogeles semi-IPN de quitosano/gelatina con potencial aplicación en la regeneración de heridas crónicas
S3-abs009	**Ma. Guadalupe Olayo González**	Aminated plasma biopolymers synthesized with pyrrole and allylamine
S3-abs010	**Adan Cuevas Sánchez**	Síntesis y caracterización de macrodioles HOP(CL-co-GA)OH y poli(éster-uretano)s: influencia de la incorporación de glicólida sobre la estructura y las propiedades del copolímero
S3-abs011	**Sebastián de Jesús Hernández Vázquez**	Formación de co-poliésteres alifáticos a partir de la ε-caprolactona con L-lactida utilizando aminoácidos como organocatalizadores
S3-abs018	**Lady Mar Gastélum Rodríguez**	Development of PEGDGE-crosslinked gelatin membranes for potential wound dressing application
S3-abs025	**Erasto Armando Zaragoza Contreras**	Valorization of pineapple bagasse into antibacterial cellulose hydrogels for potential dental therapies
S3-abs027	**Juan Valerio Cauich Rodriguez**	Synthesis and characterization of PVA/HA and PVA/CS nanofibrillar scaffolds via electrospinning for tissue engineering applications

ABSTRACT ID	PRESENTING AUTHOR	TITLE
S3-abs036	**Damian Francisco Plascencia Martinez**	Electrospun thermoplastic polyurethane nanocomposites containing silver and zinc oxide nanoparticles for heart valve leaflet applications
S3-abs038	**Cleny Villalva Cañavi**	Functionalised textile fabric with antimicrobial properties and uv protection using CuO/ZnO NPs
S3-abs043	**Ana María Bautista Hernández**	Mechanical characterization of transparent resins for the manufacture of optical lenses used in the diagnosis of eye diseases
S3-abs052	**Pamela Pérez**	Desarrollo de una película polimérica PVA–CMC acoplada a microagujas y funcionalizada con Parkinsonia aculeata para el tratamiento tópico del Melasma
S3-abs053	**Emily Aislinn Núñez García**	Relación estructura–transporte en redes PVA–CMC–alginato biofuncionalizadas con Calendula officinalis: efecto de la reticulación iónica sobre la liberación de compuestos bioactivos
S3-abs054	**Adrian Resendiz Alvarez**	Bilayer PVA–CMC–alginate hydrogels with Calendula Officinalis extract for potential application as dressings for exudative wounds: absorption and mechanical integrity
S3-abs058	**Kevin Plata Lemus**	Desarrollo y caracterización de un aerogel lignocelulósico de hemicelulosa–lignina derivado de Beta vulgaris para la liberación controlada de melatonina con potencial aplicación en neuropatía periférica diabética

S4. Polymer Materials for Advanced Technologies (PMAT)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S4-abs005	**Fernando José Zapata Catzin**	Hollow-fiber membranes derived from polycarbonate waste: characterization, dye rejection, and environmental impact
S4-abs009	**Hatef Yousefian Yousefian**	Asymmetric Engineering of PEDOT:PSS Janus Films for Low-Voltage and Durable Electrothermal Actuation
S4-abs032	**Marcial Alfredo Yam Cervantes**	Hydrophobic Asymmetric Membranes From Recycled Polystyrene for Oil-in-Water Emulsion Separation
S4-abs035	**Ricardo López-González**	Flexible semiconductors based on partially bio-based elastomers for applications such as electromagnetic interference shield

S5. Polymers for Environmental Applications (PEA)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S5-abs002	**Israel Marquez Quiñones**	Synthesis and characterization of chitin-based molecularly imprinted biopolymers for the removal of pharmaceutical emerging contaminants
S5-abs003	**Citlali Orea Reyes**	Chitin-cellulose porous foams as a green strategy to mitigate microplastic contamination
S5-abs004	**Erwin Antonio Coraza Limon**	Nanofibrillas de quitina obtenidas mediante un proceso biomecánico para su uso en emulsiones de tipo pickering como fluidos de corte
S5-abs005	**Alan Cristopher Delgado Ugalde**	Development of a compostable composite of chitosan functionalized with citric acid in polycaprolactone for efficient hg adsorption
S5-abs013	**Esmeralda Carranza Carmona**	Electromagnetic absorption and desorption of plant biopolymers: flower petals
S5-abs016	**Luz Eugenia Libertad Rubio**	Development and characterization of polysulfone/carboxylated PIM-1 polymer blends with potential for CO2/CH4 Gas separation membrane applications
S5-abs017	**Jahaziel Méndez García**	Bio-reinforced asphalt mixtures: preliminary evaluation of the impact and mechanical performance of mercerized agave fibers
S5-abs021	**Osmara Guadalupe Herrera Moreno**	Development of catalytic materials based on an SBA-15 mesoporous silica matrix as a support for iron species for the heterogeneous photo-fenton degradation of 4-nitrophenol
S5-abs022	**Osmara Guadalupe Herrera Moreno**	Influence of the synthesis route on SBA-15 mesoporous silica-based catalytic materials containing cobalt species for the heterogeneous photo-fenton degradation of 4-nitrophenol

ABSTRACT ID	PRESENTING AUTHOR	TITLE
S5-abs029	**Gabriel Cisneros Gómez**	Effect of tabebuia rosea derived biochar and hydrochar incorporation on the thermomechanical properties of poly(lactic acid)
S5-abs031	**Julieta Alejandra Rodríguez Romero**	Synthesis and evaluation of acrylonitrile-based terpolymers incorporating vinyl monomers and natural polymers for agricultural materials
S5-abs032	**Adilene Zarahi López Arredondo**	Synthesis of coordination polymers through aggregation driven by supramolecular coordination for the selective removal of Pb^{2+};vfrom multimetallic solutions
S5-abs034	**Cleny Villalva Cañavi**	Effect of High-Energy Milling Time on the Properties of Borax-Crosslinked Post-Consumer Denim Hydrogels
S5-abs037	**Daniel Fernández-Quiroz**	Chitosan-β-cyclodextrin composite hydrogels for targeted sorption
S5-abs039	**Estela Margarita Llano Avilleira**	Design and characterization of macroporous chitosan/PVA cryogels obtained through crosslinking with dicarboxylic acids for environmental applications
S5-abs051	**José Luis Pompa Ramos**	Development of thiosemicarbazone-based polymer inclusion membranes for mercury(ii) detection and removal from aqueous media
S5-abs057	**Maria Guadalupe Sanchez Anguiano**	Synthesis of polyester resins from degraded pet for application in diesel removal
S5-abs058	**Julio César Mendoza Núñez**	Tuning the properties of carbon quantum dots derived from lignocellulosic spent coffee grounds via microwave-assisted synthesis
S5-abs060	**Israel Marquez Quiñones**	Acrylic Molecularly Imprinted Polymers (MIP) for the Removal of Emerging Contaminants in Water and the Analysis of Their Molecular Interactions

S6. 3D/4D Printing of Polymers & Composite Materials (3DP)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S6-abs004	**Carlos Ocampo**	Development of a compostable 3D-printed filter prototype using a chitosan adsorbent material for heavy metal removal from water.
S6-abs006	**Aliakbar Isari**	Bioinspired core-shell polyimide/MXene aerogel fibers with exceptional mechanical strength, thermal insulation, and EMI shielding
S6-abs026	**Jael Arlen Briones Magallanes**	Design of 3D-printed nanocellulose aerogels for sustainable removal of emerging water contaminants
S6-abs028	**Kenya Giannina Esquivel**	Evaluación de extruibilidad y fidelidad geométrica de una tinta biomaterial PVA–CMC–alginato con Calendula officinalis mediante deposición manual para potencial aplicación en andamios cutáneos

S7. Polymer Rheology and Processing (PRP)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S7-abs007	**Maria de Los Angeles Vargas Hernandez**	Comparative analysis of the viscoelastic performance of SIS and 2-SIS-g-MA copolymers with graphene oxide in asphalt blends
S7-abs022	**Bryan de la Cruz de Jesús**	Traceability markers for advancing the new plastics economy and achieving the 2030 agenda
S7-abs024	**Mónica Elvira Mendoza Duarte**	Biobased pla cups: structural design of monolayer and PLA-PLA/itaconic acid bilayer architecture
S7-abs042	**Mireya Marlen Casillas de la Cruz**	Processing-microstructure-property relationships in recycled HDPE/PP composites reinforced with natural fibers produced by extrusion

S8. Polymer Nanocomposites & Hybrid Materials (PNH)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S8-abs011	**Juan Guillermo Martinez Colunga**	Effect of HDPE particle size and compatibilizer on the properties of a composite containing hydroxyl-functionalized graphene
S8-abs015	**Cristina Salome Mendoza Sostenes**	Alginate/polyvinyl alcohol/montmorillonite wet spinning fibers for controlled release of bioactive molecules in alternative agriculture
S8-abs017	**José de Jesús Serralta Macías**	Obtention and characterization of sustainable ion exchange membranes based on recycled PAN grafted with starch for hydrogen generation applications
S8-abs018	**Diego Alejandro Ruvalcaba**	Post-oxidation functionalization of polyacrylonitrile fibers with zinc oxide nanostructures for use as an additive in composite materials
S8-abs019	**Liliana Trinidad Corona Ruiz**	Nd^{3+}-doped mesoporous silica hybrid nanosystem functionalized with p(DEAEMA-co-Arg) via ATRP for drug release
S8-abs024	**Jesus Armando Zuñiga Estrella**	Development of hybrid polymeric membranes based on sulfonated recycled HIPS Reinforced with Pecan Nutshell Powder
S8-abs030	**Karla Fabiola García Verdugo**	Synthesis and characterization of silver nanoparticles for the development of antibacterial PVA/GG nanocomposite films
S8-abs031	**Samari López García**	In situ polymerization of ethylene and GO-AgNP: impact of gallic acid functionalization and polymer architecture on electrical conductivity
S8-abs041	**Luis Fernando González Sánchez**	Chemical exfoliation of carbon nanostructures with MMAO for the in situ synthesis of LLDPE nanocomposites

ABSTRACT ID	PRESENTING AUTHOR	TITLE
S8-abs046	**Irela Santos Sauceda**	Polypyrrole-coated cellulose acetate membranes for uv-assisted dye degradation
S8-abs043	**Katherine Jane Litwin**	pH and redox sensitive amphiphilic nanogels complexed with a methacrylic acid matrix for drug release to treat colon cancer
S8-abs053	**Dora Evelia Rodríguez Félix**	Chemical biohydrogels composed of gellan gum, chitosan, and poly(lactic acid) with potential for biomedical applications

S9. Food Polymers Functionality and Applications (FP)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S9-abs001	**Alan Cristopher Delgado Ugalde**	Production of chitosan grafted citric acid as a copper adsorbent for environmental and food packaging applications
S9-abs004	**Cynthia Carolina Vázquez-Vargas**	Evaluation of non-conventional carbon sources for the production of exopolysaccharides by lactiplantibacillus plantarum
S9-abs008	**Oscar Didier Rivas Llamas**	Performance of a food ink based on apple powder, agavins, and hydrocolloids for 3D printing by direct ink writing
S9-abs009	**Magaly Netzaye Flores Fernandez**	Buscando el equilibrio: efecto de la incorporación de partículas de quitosana sobre películas de proteína de soya

S10. Polymerization and Polymer Systems Modeling (PM)		
ABSTRACT ID	**PRESENTING AUTHOR**	**TITLE**
S10-abs018	**Porfirio López-Domínguez**	Controlling copolymer composition in the concurrent tandem radical polymerization of DEAEMA-(MMA) with methanol using semibatch processes
S10-abs019	**Iván Zapata González**	A Standardized Maximum Entropy Framework for MWD Reconstruction: Benchmarking Moment Solutions Against Population Balance Models in Free Radical (de)polymerization and RDRP Systems

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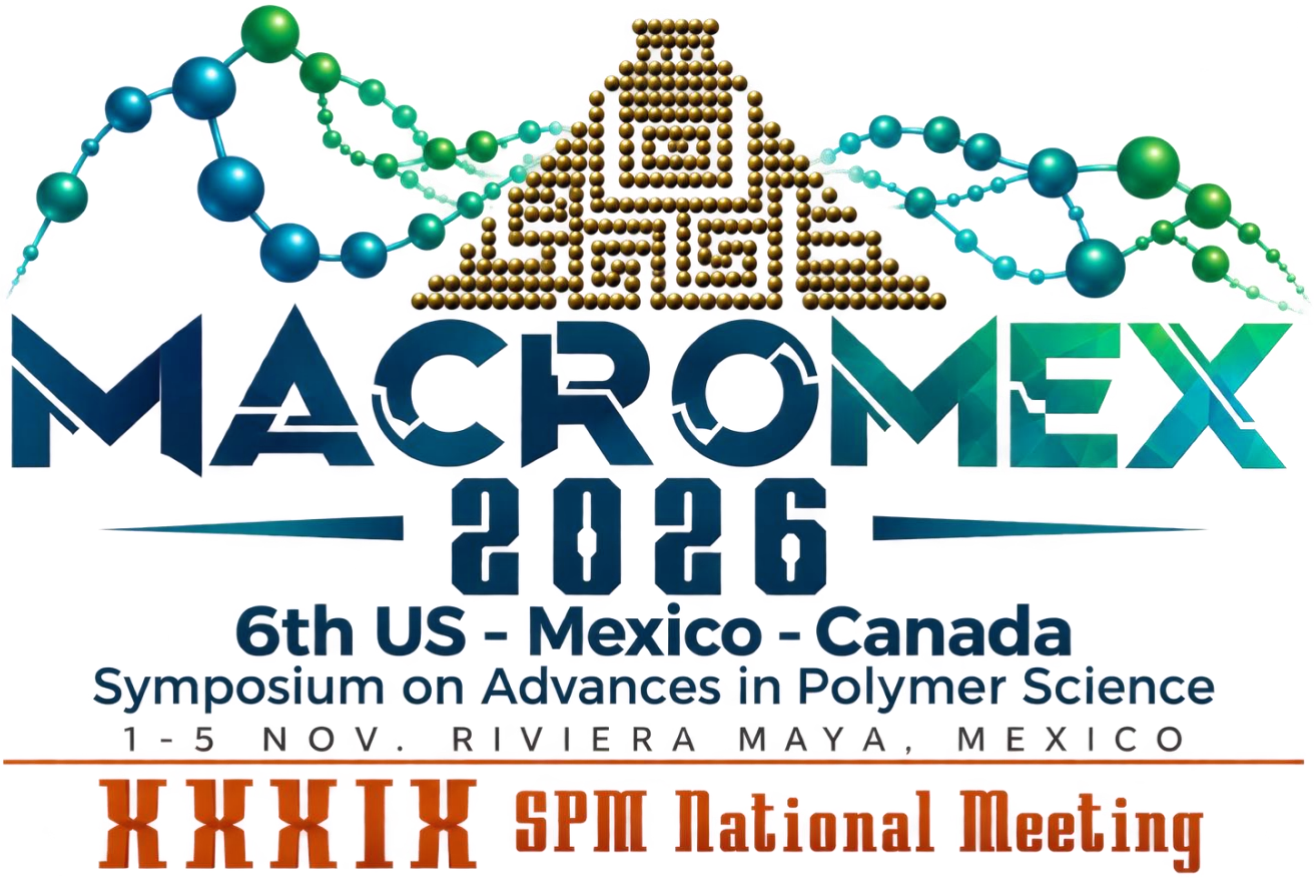
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