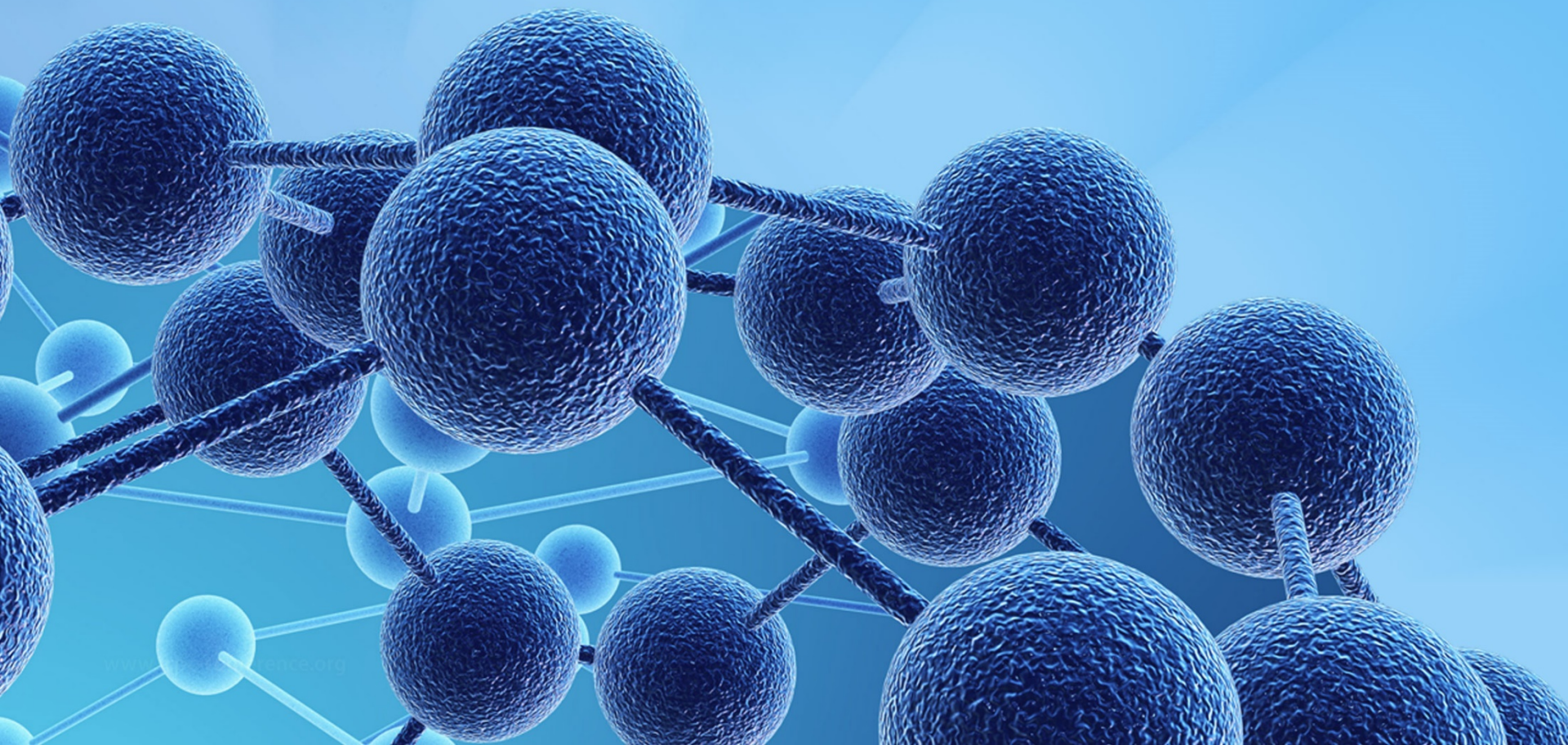


# 8th International Conference on Polyolefin Characterization

**& Short Course on Separation Techniques for Polyolefins**

Valencia, Spain. May 21-24, 2023.



## **Important Announcement**

In light of the ongoing developments related to the COVID-19 Pandemic, and following the recommendations from global health authorities, the ICPC Committed has decided to postpone the 8<sup>th</sup> Edition of the Conference until it deems it safer for all attendees and participants to travel internationally and gather.

The new date will be announced in the coming months.

For more information, contact [raquel.ubeda@icpc-conference.com](mailto:raquel.ubeda@icpc-conference.com) or [aleyda.monzon@icpc-conference.com](mailto:aleyda.monzon@icpc-conference.com)

# Welcome to the ICPC Conference



## The International Conference on Polyolefin Characterization par excellence.

The following ICPC will take place in Valencia, Spain, a particularly special edition because it is home to Polymer Char's offices, the organizer of the conference. This will be the third ICPC edition to take place in this city. Once more, Scientists from all around the world are expected to attend.

The 8<sup>th</sup> ICPC Conference will cover different aspects on polyolefin molecular architecture characterization, including molar mass distribution, comonomer incorporation and distribution, long-chain branching, crystallinity and rheological properties.

### Intended for:

Researchers (Manager, Users and Post-doctorate Students) from the following industries:

- Polyolefin Producers
- Polyolefin Processors
- Contract Research Organizations
- Government Laboratories
- Academic Research Labs
- Analytical / Testing Labs
- Instruments Manufacturers

Organized by

**Polymer Char**

# Scientific Committee



**Dr. Benjamin Monrabal**

*Polymer Char*

Valencia, Spain

Cofounder



**Dr. Colin Li Pi Shan**

*The Dow Chemical Company*

Houston, U.S.A.

Cofounder



**Prof. João Soares**

*University of Alberta*

Alberta, Canada

Cofounder



**Prof. Minoru Terano**

*Japan Advanced Institute of Science  
and Technology (JAIST)*

Ishikawa, Japan

Joined in 2008



**Prof. Dujin Wang**

*Institute of Chemistry*

*Chinese Academy of Sciences*

Beijing, China

Joined in 2010



**Ms. Raquel Úbeda**

*ICPC Conference Coordinator*

Valencia, Spain

From 1st edition



# 8<sup>th</sup> ICPC Technical Program

GPC Basics and Applications

TREF / CRYSTAF / CEF

Cross Fractionation

High Temperature HPLC

Preparative Fractionation

Short Course on  
Polyolefin  
Characterization  
Techniques



May 21, 2023

[www.icpc-conference.org/Short\\_Course](http://www.icpc-conference.org/Short_Course)

Separation and Fractionation

Molecular Structure and Properties

Morphology and Thermal Analysis

Rheology

Spectroscopy (NMR / FTIR)

8<sup>th</sup> International  
Conference on  
Polyolefin  
Characterization



May 22-24, 2023

[www.icpc-conference.org/Technical\\_Program](http://www.icpc-conference.org/Technical_Program)

# A Networking Meeting

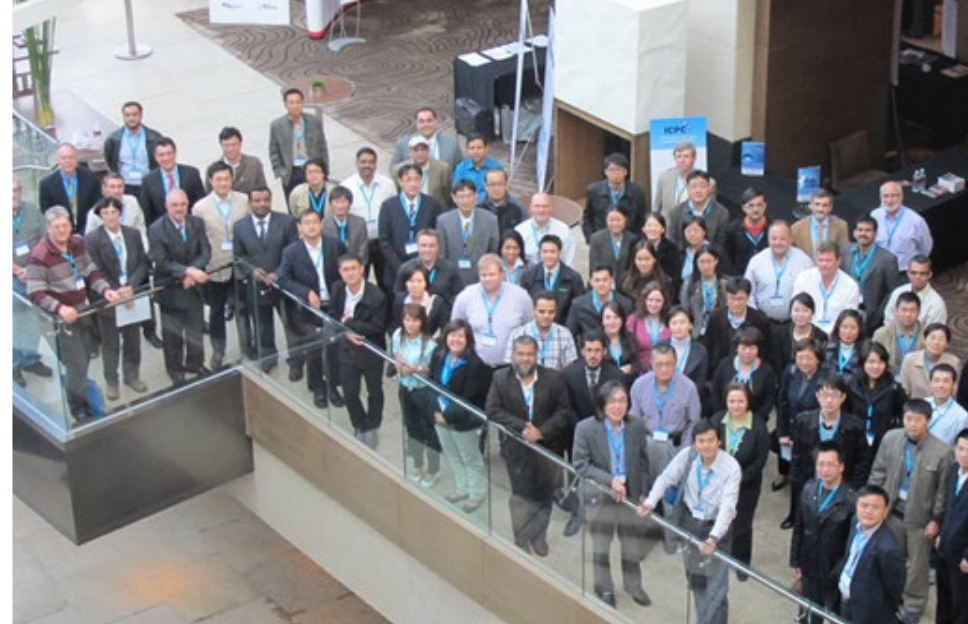
The top players in polyolefin research, from Petrochemical, Research, Academic or Instrumentation industries have been represented in ICPC Conference.

- 3 M
- Agilent Technologies
- Albemarle
- Amirkabir University of Technology
- Anhui University of Science and Technology
- Anton Paar
- Arkema Group
- Asahi Glass
- Asahi Kasei
- BASF
- Braskem
- Beijing National Laboratory for Molecular Sciences, CAS
- Beijing Research Institute of Chemical Industry, Sinopec
- Beijing Yansan Petrochemical Branch of Sinopec
- Beijing Yiluda Electromechanical Equipment Company
- Borealis
- Borskov Institute of Catalysis. Siberian Branch of the Russian Academy of Sciences.
- Borouge
- Braskem
- Brno University of Science and Technology
- Bruker Biospin
- Carmel Olefins Ltd.
- Celgard
- Changchun Institute of Applied Chemistry
- Chevron Philips
- Chinese Academy of Sciences, ICCAS
- Chonbuk National University
- Ciba Chemicals
- Clariant
- Consiglio Nazionale delle Ricerche of Genova, CNR
- Culgi
- Daelim Industrial
- Daqing Chemical Engineering Research Center
- Daqing Oil Field Company
- Department of Science Service of Thailand
- Dutch Polymer Institute, DPI
- DuPont
- Durham University
- DSM Elastomers
- DSM Resolve
- East China University of Science and Technology
- Erlangen University
- ExxonMobil Chemical
- ExxonMobil Research and Engineering
- Federico II University of Naples
- Florida Agricultural and Mechanical University, FAMU
- Florida State University, FSU
- Formosa Plastics Corporation
- Fraunhofer Institute for Structural Durability and System Reliability LBF
- Freeslate
- Freiburg Materials Research Center
- French National Center for Scientific Research (LCPP - CNRS)
- Friedrich-Alexander University of Erlangen-Nürnberg
- GE Global Research
- Graduate University of Chinese Academy of Sciences, CAS
- GS Caltex
- Hanwha Chemical
- HI Corporation
- Honam Petrochemicals
- Huntsman
- ICT Prague
- Indesca
- Indian Institute of Technology, IIT
- Industrial Chemistry Research Institute of Warsaw
- Ineos
- Institute for Macromolecular Studies, CNR-ISMAL
- Institute of Chemistry, Chinese Academy of Sciences
- Institute of Chemistry and Engineering Sciences of Singapore, ICES
- Instituto de Estructura de la Materia, CSIC
- Intex Industries
- IRPC Company
- Japan Advanced Institute of Science and Technology, JAIST
- Japan Polychem Corporation
- Jordi Labs
- Kanazawa University

# A Networking Meeting

- Kasetsart University
- Kasra Co.
- Kimberly-Clark
- King Fahd University of Petroleum & Minerals
- Kitami Institute of Technology
- Labchrom
- Lanxess Elastomers BV
- LCGC Group, Advanstar Media Group
- Leiden University
- LG Chem
- Lion Copolymer
- Loughborough University
- Lyondellbasell
- Malvern Instruments
- Max Plant Institute for Polymer Research
- McGill University
- Mitsubishi Chemicals
- Mitsui Chemicals
- Nanjing Hydraulic Research Institute
- Nanjing University of Science and Technology
- National Institute of Standards and Technology (NIST)
- Netafim
- Nexans
- Ningbo Dacheng Advanced Material
- Ningbo Professional and Technical College
- NIPRAS, Tasnee Petrochemicals
- Northeast Petroleum University
- Nova Chemicals
- Novolen Technology
- Peakexpert
- Petro Rabigh Co.
- Petrobras
- PetroChina Company
- PetroChina Petrochemical Research Institute
- Poland Industrial Chemistry Research Institute
- Polymer Char
- Polymer Technology Services Centre (PTSC)
- Postnova Analytics
- Polymer Standards Service (PSS)
- Progression Inc.
- PTT Chem
- Reliance Industries Limited
- Repsol
- Rey Juan Carlos University
- SAS Corporation
- Samsung Total Petrochemicals
- Sasol Polymers
- Saudi Basic Industries Corporation (SABIC)
- SCG Chemicals
- Sealed Air
- Sekisui Chemical
- Senoplast Klepsch & Co.
- SHELL
- Shenhua Group
- Shenhua Ningxia Coal Industry Group
- Siemens
- SIG Combibloc Systems GmbH
- Sinopec
- SK Energy
- SYNPO
- Sumitomo Chemical
- Symyx Technologies
- Tallinn University of Technology (TUT)
- Tasnee Petrochemicals
- Technical University of Eindhoven
- Teijin Aramid
- Thai Polyethylene
- The Dow Chemical Company
- Ticona
- Tisza Chemical Group PLC.
- Toho Titanium
- Tomcoat OY
- Tosoh Bioscience
- Total Petrochemicals
- Universidad Carlos III de Madrid
- Universidad Central de Venezuela
- Universidad Politécnica de Valencia (UPV)
- Universidad Simón Bolívar
- Universidade Federal do Rio Grande Do Sul (UFRGS)
- Universite Paris Sud
- University of the Basque Country -Polymat Institute
- University of Akron
- University of Alberta
- University of Joensuu
- University of Leeds
- University of Lyon
- University of Navarra
- University of Pardubice
- University of Rio de Janeiro
- University of Shiga Prefecture of Japan
- University of Stellenbosch
- University of Texas
- University of Thailand
- University of the Free State
- University of Waterloo
- Utrecht University
- Virginia Tech University
- Versalis, ENI Group
- Warsaw University of Technology
- Waters
- Westlake Chemical
- W. R. Grace & Co.
- Wyatt Technology
- Zhejiang University





## Previous ICPC Editions at-a-glance





# Previous ICPC Editions at-a-glance



|                           |  |   |   |
|---------------------------|--|---|---|
| <b>Venue</b>              | Houston, TX, U.S.A.  | Valencia, Spain   | Shanghai, China   |
| <b>Date</b>               | October 16 – 18, 2006  | September 7 – 10, 2008  | November 7 – 10, 2010   |
| <b>Attendees</b>          | 112  | 120   | 116   |
| <b>Lectures / Posters</b> | 31 / 29  | 35 / 38   | 35 / 45   |
| <b>Major Sponsors</b>     | The Dow Chemical Company   | The Dow Chemical Company<br>Borealis<br>Lyondellbasell  | The Dow Chemical Company  |
| <b>Sponsors</b>           | ExxonMobil Chemical  | DPI, Dutch Polymer Institute<br>ExxonMobil Chemical   | ExxonMobil<br>Ningbo Dacheng Adv. Material<br>SCG Chemicals   |
| <b>Vendors</b>            | Polymer Char<br>Polymer Laboratories<br>Postnova Analytics<br>PSS, Polymer Standards Service<br>Viscotek<br>Waters | Agilent Technologies<br>Anton Paar<br>Polymer Char<br>Polymer Laboratories, Varian<br>Progression | Agilent Technologies<br>Malvern Instruments<br>Polymer Char<br>Postnova Analytics<br>Wyatt Technology |
| <b>Research Partner</b>   | -  | -   | -   |
| <b>Media Partner</b>      | -  | -   | -   |
| <b>Countries</b>          | 18   | 24  | 17  |

# Previous ICPC Editions at-a-glance



|                           |  |   |  |
|---------------------------|--|---|--|
| <b>Venue</b>              | The Woodlands, TX, U.S.A.  | Valencia, Spain   | Shanghai, China  |
| <b>Date</b>               | October 21-24, 2012  | September 21-24, 2014   | November 6-9, 2016   |
| <b>Attendees</b>          | 155  | 145   | 155  |
| <b>Lectures / Posters</b> | 39 / 30  | 31 / 50   | 39 / 30  |
| <b>Major Sponsors</b>     | Shenhua Ningxia Coal Industry Group<br>ExxonMobil Chemical   | -   | The Dow Chemical Company<br>SCG Chemicals                              |
| <b>Sponsors</b>           | The Dow Chemical Company<br>Chevron Phillips Chemical  | The Dow Chemical Company<br>ExxonMobil<br>SABIC   | ExxonMobil   |
| <b>Vendors</b>            | Polymer Char<br>Wyatt Technology<br>PSS, Polymer Standards Service<br>Malvern Instruments<br>Freeslate<br>Agilent Technologies<br>Jordi Labs<br>Progression Inc. | Polymer Char<br>Wyatt Technology<br>PSS, Polymer Standards Service<br>Tosoh Bioscience<br>Agilent Technologies<br>Malvern Instruments | Polymer Char<br>PSS, Polymer Standards Service<br>Agilent Technologies |
| <b>Research Partner</b>   | DPI, Dutch Polymer Institute   | DPI, Dutch Polymer Institute<br>Fraunhofer Institute  | DPI, Dutch Polymer Institute   |
| <b>Media Partner</b>      | LCGC Group   | LCGC Group<br>PetroIndustry News  | PetroIndustry News<br>LCGC Group                                       |
| <b>Countries</b>          | 22   | 24  | 22   |

# Previous ICPC Editions at-a-glance



|                           |  |
|---------------------------|--|
| <b>Venue</b>              | Houston (TX), USA  |
| <b>Date</b>               | October 21-24, 2018  |
| <b>Attendees</b>          | 145  |
| <b>Lectures / Posters</b> | 35 / 35  |
| <b>Major Sponsors</b>     | The Dow Chemical Company<br>Braskem  |
| <b>Sponsors</b>           | Chevron Phillips<br>ExxonMobil<br>Borealis                                   |
| <b>Vendors</b>            | Polymer Char<br>Tosoh Bioscience<br>Wyatt Technology<br>Agilent Technologies |
| <b>Research Partner</b>   | Fraunhofer Institute   |
| <b>Media Partners</b>     | Polymers Journal<br>PetroIndustry News<br>LCGC NA                            |
| <b>Countries</b>          | 18   |



# Sponsoring the ICPC Conference

**Make your brand noticeable where it matters.**

Being involved in the Polyolefin Characterization meeting point par excellence, means excellent networking opportunities with the industry's leaders.

In addition, your company will also receive prominent exposure at all the pre-event, on-site, and post-event communication and marketing activities:


## Sponsorship Levels

Major Sponsor / Sponsor \_\_\_\_\_ for Chemical and Polymer Manufacturers

Vendor \_\_\_\_\_ for Instrument Manufacturers

Research Partner \_\_\_\_\_ for R&D Institutes / Universities

Media Partner \_\_\_\_\_ for Media



Bringing together  
Worldwide Research in Polyolefins.

5<sup>th</sup> International Conference on Polyolefin Characterization  
& Short Course in Polyolefin Characterization techniques. September 21 - 24, 2014, Valencia, Spain.

Valencia welcomes you to the meeting point for worldwide experts in Polyolefin Characterization. With four editions held previously among Houston, Valencia and China, this time the Conference comes back to Valencia, a city increasingly known for its culture of technology and science. This edition's Technical Program is composed by 32 oral and 51 poster presentations which, once again, will cover the major topics of interest in the field.

[www.icpc-conference.org](http://www.icpc-conference.org)

**ICPC**

**SPONSORS:** Dow, سابك, PSS, Agilent Technologies, Fraunhofer, LC/GC GROUP, ExxonMobil, WYATT, Malvern, TOSOH BIOSCIENCE, DPI, PETROBRAS

**VENDORS:** Polymer Char, PSS, Agilent Technologies, Fraunhofer, LC/GC GROUP

**RESEARCH PARTNERS:** Fraunhofer, LC/GC GROUP

**MEDIA PARTNERS:** LC/GC GROUP

# Previous Editions Sponsors and Vendors



Analyze with integrity.™



# Sponsorship Packages

| Major Sponsor:   | Sponsor:   |
|--|--|
| <ul style="list-style-type: none"><li>• Complimentary registration for 4 attendees.</li><li>• Company logo placement throughout conference materials: Brochure, Abstract Book and Website *.</li><li>• Company Description in Brochure and Website *.</li><li>• Dedicated Display with Major Sponsor's logo, located in the Conference Lounge zone.</li><li>• Company's logo display on-site with banners and on opening, breaks and closing conference slides *.</li><li>• Full-Page Color Ad in Brochure - Best position.</li><li>• Possibility of 8 x 6,5 ft or 2,5 x 2m prominent stand **.</li><li>• Logo placement in 6<sup>th</sup> ICPC Promotion materials *.</li></ul> | <ul style="list-style-type: none"><li>• Complimentary registration for 2 attendees.</li><li>• Company logo placement throughout conference materials: Brochure, Abstract Book and Website *.</li><li>• Company Description in Brochure and Website *.</li><li>• Company's logo display on-site with banners and on opening, breaks and closing conference slides *.</li><li>• Full-Page Color Ad, to be placed in Brochure *.</li><li>• Possibility of 8 x 6,5 ft or 2,5 x 2m prominent stand **.</li><li>• Logo placement in 6<sup>th</sup> ICPC Promotion materials *.</li></ul> |
| <b>Price: 7.500 €</b>  | <b>Price: 5.000 €</b>  |

\* Within each Sponsorship category, the positioning of the logo follow the order the sponsorship forms are received.

\*\* The selection of the booth will be made according to the order in which the sponsorship and the confirmation forms are received.



# Sponsorship Packages

| Vendor:   | Research Partner:  |
|---|--|
| <ul style="list-style-type: none"><li>• Company logo placement throughout conference materials: Brochure, Abstract Book and Website *.</li><li>• Company Description in Brochure and Website *.</li><li>• Company's logo display on-site with banners and on opening, breaks and closing conference slides *.</li><li>• Complimentary registration for 2 attendees.</li><li>• 8 x 6,5 ft or 2,5 x 2m prominent stand **.</li><li>• Corporate or Products Presentation (10-15 min.) **.</li><li>• Logo placement in 6<sup>th</sup> ICPC Promotion materials *.</li></ul> | <ul style="list-style-type: none"><li>• Company logo placement throughout conference materials: Brochure, Abstract Book and Website.</li><li>• University or Institute Description in Brochure and Website.</li><li>• University or Institute logo display on-site with banners and on conference slides.</li><li>• Complimentary registration for 2 attendees.</li><li>• Possibility of displaying brochures or banner/roll-up.</li><li>• Logo placement in 6<sup>th</sup> ICPC Conference Promotion materials.</li></ul> |
| <b>Price: 5.000 €</b><br><i>Optional for 950€: Full-Page Color Advert in Brochure.</i>  | <b>Price: 2.500 €</b>  |

\* Inside each Sponsorship category, the positioning of the logo will depend on the order the sponsorship order forms are received.

\*\* The selection of the booth will be made according the order in which sponsorship the confirmation forms are received.



# 8<sup>th</sup> ICPC

Valencia, Spain  
May 21-24, 2023

## Attend

Both Professionals and Students can benefit from our Early Registration fees.

## Call for Papers

Submit your Oral or Poster presentation abstract, before Call for Papers deadline.

## Sponsor and Exhibit

Promotional Packages available for Chemical, Instrumentation, Media, and Research organizations.

## Join us on LinkedIn

Join the ICPC Conference Group on LinkedIn to get updates and know other ICPC delegates.



# About Valencia



3<sup>rd</sup> largest city in Spain

Located in Spain's Southeastern Coast

Known for its City of Arts and Sciences

It has the largest urban park in Spain

The birthplace of the Paella

It has the largest Aquarium in Europe

Valencia's port is the biggest on the  
Mediterranean western coast



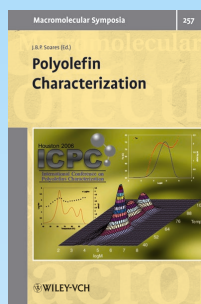
# Macromolecular Symposia - ICPC Editions

Many oral and poster presentations full papers collected in a special edition of **Macromolecular Symposia** dedicated to each edition:

## Macromolecular Symposia Volumes:

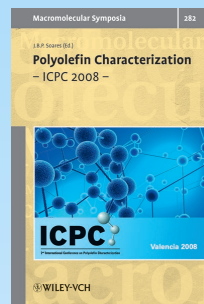
**Editor:** Prof. João Soares.

**Publisher:** Wiley-VCH.



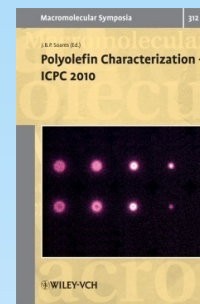
### MS Vol. 257

Polyolefin Characterization, ICPC 2006.



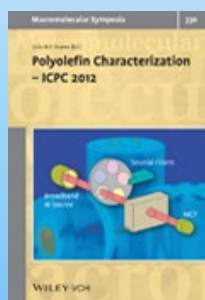
### MS Vol. 282

Polyolefin Characterization, ICPC 2008.



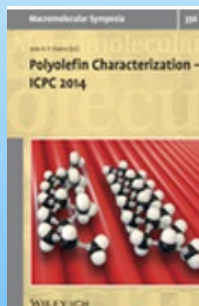
### MS Vol. 312

Polyolefin Characterization, ICPC 2010.



### MS Vol. 330

Polyolefin Characterization, ICPC 2012.



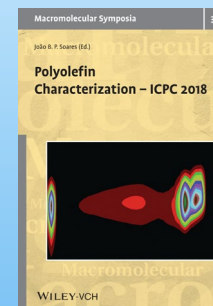
### MS Vol. 356

Polyolefin Characterization, ICPC 2014.



### MS Vol. 377

Polyolefin Characterization, ICPC 2016.



### MS Vol. 390

Polyolefin Characterization, ICPC 2018.