

**PBP**  
**WORLD MEETING**

In combination with **ResearchPharm®**  
International Exhibition for R&D

9<sup>th</sup> World Meeting on Pharmaceuticals, Biopharmaceutics and Pharmaceutical Technology

**Lisbon** Portugal

31 March to 3 April 2014

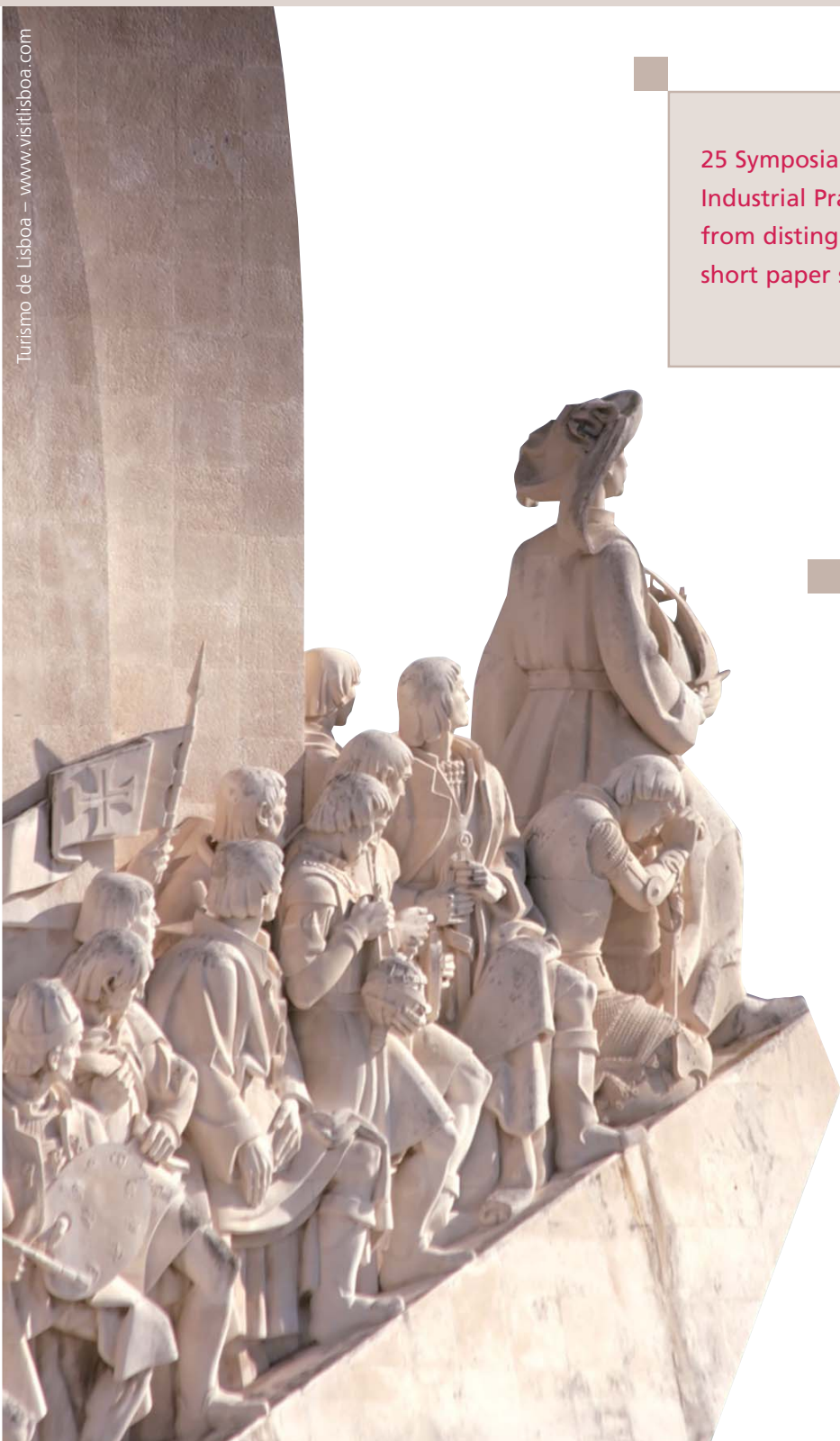
25 Symposia on hot topics in Basic Research, R&D, Industrial Practise and Analytics with invited talks from distinguished scientists and short lectures from short paper submissions

"...the scientific event that is gaining recognition as one of the unmissable events in the pharmaceutical technology universe"

Gattefossé, France



*Presidência da República*





Dear Colleagues,

New medicinal products and innovative medical devices are urgently needed in our rapidly changing world. The dramatic raise of world's population, ageing of some societies, economy globalization and continuous progress towards a better understanding of diseases, targets and new drug substances are extremely demanding. Small molecules, biologicals and non-biological complex drugs require new technologies to be administered to the patient. New and generic products need to be developed considering patients' needs, industrial processes, economics, safety, drug quality and regulatory requirements.

APGI (French "International Society of Drug Delivery Sciences and Technology"), APV (German "International Association for Pharmaceutical Technology") and A.D.R.I.T.E.L.F. (Italian "Italian Association for Pharmaceutical Technology and Legislation") invite you to discuss the risks, opportunities and challenges of the development and production of new medicinal products and medical devices. In continuation of the successful past scientific meetings in Budapest, Paris, Berlin, Florence, Geneva, Barcelona, Malta and Istanbul, the 9<sup>th</sup> World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology will be held in Lisbon, Portugal, in 2014. The World Meeting and the accompanying exhibition ResearchPharm® are intended to provide a cross-disciplinary platform for pharmaceutical scientists working in all fields of drug development in industry, academia and regulatory bodies.

In addition to two parallel sessions on industry-related topics presented by distinguished invited speakers, the 9<sup>th</sup> World Meeting, like its recent predecessors, will have two more parallel tracks which provide ample room for a number of oral presentations given by young or established scientists from all over the world. In these contributions selected from many hundreds submitted abstracts by the Programme Committee, most recent scientific findings and experiences will be presented on a broad range of topics related to Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology. Along with the poster presentations of the submitted papers the exhibition ResearchPharm® will take place presenting the newest trends and novel products in the area of pharmaceutical ingredients, developing and processing equipment, analytical technologies, medicinal products, medical devices, contract manufacturing and recent publications.

The meeting is intended to bring together people working in fundamental and applied academic research, chemical and pharmaceutical industry and the regulatory field offering the opportunity to initiate fruitful discussions and collaborations.

We cordially invite you to join the 9<sup>th</sup> World Meeting in Lisbon 2014!

On behalf of the organizing committee

Prof. João F. Pinto  
Chair of the Conference

Prof. Jürgen Siepmann  
President APGI

Prof. Jörg Breitzkreutz  
President APV

Prof. Franco Alhaique  
President A.D.R.I.T.E.L.F.

In combination with

**ResearchPharm**<sup>®</sup>  
International Exhibition for R&D

## Chairs and Committees

### Conference Chair

João F. Pinto, Lisbon, Portugal

### Co-Chairs of the Conference

Franco Alhaique, Rome, Italy  
Jörg Breitzkreutz, Düsseldorf, Germany  
Jürgen Siepmann, Lille, France

### Programme Committee Chair

Jörg Breitzkreutz, Düsseldorf, Germany

### Programme Committee

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### Local Organiser

João F. Pinto, Lisbon, Portugal

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## Venue

Lisbon – enjoy the flair of Europe's second oldest city

### CCL Lisboa Congress Centre

Located by Tagus River, near one of the best known monuments of the city of Lisbon – the Belém Tower – and many more historic buildings of Belém quarter, Lisboa Congress Centre is an inviting space for our 9<sup>th</sup> PBP World Meeting and ResearchPharm<sup>®</sup>.



Lisboa Congress Centre

Address: Praça das Indústrias  
1300-307 Lisbon  
Portugal

Phone: +351 213 601 400

## The international exhibition for R&D

### Join the industrial exhibition for state-of-the-art

- Laboratory Equipment
- Small Scale Equipment
- Analytical Instruments
- API – Active Pharmaceutical Ingredients
- Excipients
- Services for the Pharmaceutical Industry
- CRO – Contract Research Organisations
- Recruiting

**ResearchPharm®** is the opportunity to showcase your company to a truly international audience. Take advantage of the conference which provides perfect networking opportunities for delegates. Plenty of young researchers in the field of pharmaceuticals will be on site, take the chance to scout for young professionals. The organisers will provide rooms for interviews with potential candidates.



“Event was well managed and a good attendance of quality delegates”

Stable Micro Systems, UK

The poster panels will be put up in the exhibition area so that you can be sure of attracting many visitors. To discuss the exhibition further or if there is a promotion your organisation is interested in doing, please contact:

APV International Association for  
Pharmaceutical Technology  
Sandra Pörtner  
Phone: +49 6131 9769-90  
Fax: +49 6131 9769-69  
E-mail: [sp@apv-mainz.de](mailto:sp@apv-mainz.de)

For floor plan and more detailed information please see [www.researchpharm.org](http://www.researchpharm.org)



# Monday, 31 March 2014

- 13:00 Opening ceremony and welcome address
- 14:30 Horizon 2020: The new European Research Funding Programme  
Maria da Graça Carvalho, European Commission, Belgium
- Pharmaceutical Industry in Portugal  
Guy Villax, Hovione, Portugal
- 15:30 Coffee break
- 16:00 Hot Topic Session
- Drug counterfeiting  
Frédéric Bourgeois, Sanofi, France
- Opportunities and challenges in strategical outsourcing  
Hans Lindner, Bayer Pharma, Germany  
and Jean Cuine, NextPharma, United Kingdom
- 18:00 Welcome Reception

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## Social Programme



The Welcome Reception will be held on Monday, 31 March 2014. Enjoy a glass of wine while networking with old and new friends or strolling around the exhibition area at the Lisboa Congress Center.



Foto by Mário Cerdeira

Join us for our Dinner Event taking place on Wednesday, 2 April 2014 in an ancient convent built in the 16<sup>th</sup> century, which is today a Heritage Site of Public Interest. At first, the "Convento do Beato" functioned as a monastery, then as the Royal Military Hospital and after that it was used for industrial purposes. Today it serves as a nationally and internationally well-known event location.

## Scientific Programme

From Tuesday, 1 April through to Thursday, 3 April, two parallel sessions will be dedicated to industry related topics with invited speakers from all over the world. In addition, two parallel sessions will address all the other topics with short lectures selected from submitted abstracts.

# Tuesday, 1 April 2014

## 09:00 Symposium: Solid Dosage Forms

### Oral controlled drug delivery

Christian Seiler, Merck Sharp & Dome, Hoddesdon, United Kingdom

### Advances in controlled drug delivery from an academic perspective

Ruggero Bettini, University of Parma, Parma, Italy

### Biopharmaceutical performance assessment of solid dosage forms

Xavier Pepin, Sanofi, Vitry-sur-Seine, France

## 09:00 Symposium: Advanced Analytics

### Advanced synchrotron-based imaging techniques to support the formulation, manufacturing processes and evaluation of drug effects

Jean Doucet, CNRS - Centre national de la recherche scientifique, Paris, France

### In vivo imaging techniques

Clive Wilson, University Strathclyde, Glasgow, United Kingdom

### Scanning white light interferometry (SWLI)

Niklas Sandler, Åbo Akademi University, Turku, Finland

## 09:00 Short lectures

11:00 Coffee break

Poster sessions and exhibition ResearchPharm®

11:30 Plenary lecture

### Nanomedicines

Alexander "Sasha" Kabanov, University of North Carolina, Chapel Hill, USA

12:30 Lunch break

Poster sessions and exhibition ResearchPharm®

## 15:00 Symposium: Coated Dosage Forms

### QbD and PAT tools for film coating

Adrian Funke, Bayer Pharma, Berlin, Germany

### GIT Delivery

Abdul Basit, University of London, London, United Kingdom

### Coating of solid dosage forms

Christoph Riedel, Bosch Hüttlin, Schopfheim, Germany

## 15:00 Symposium: Protein Formulation & Aggregation

### Freeze-drying of proteins: Quality by Design (QbD) in formulation and process design

Michael Pikal, University of Connecticut, Storrs, USA

### Formulation development of new anti-body scaffolds

Sylvain Huille, Sanofi, Vitry-sur-Seine, France

### Vaccine Design: Lyophilization and delivery

Jean-Pierre Amorij, Institute for Translational Vaccinology, Bilthoven, The Netherlands

## 15:00 Short lectures

17:00 End of session

# Wednesday, 2 April 2014

## 09:00 Symposium: Patient-centred Medicines

**New guideline "Quality of paediatric medicines": Scientific evidence, key aspects and lessons learned**

Diana van Riet-Nahles, National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands

**Patient-centric drug formulation principles**

Robert Becker, Aptalis Pharma, Pessano, Italy

**Formulation and packaging considerations in geriatric medicines**

Trevor Shreeves, Glaxosmithkline Research & Devel, Harlow, United Kingdom

## 09:00 Symposium: Drug Nanoparticles & Vesicles

**Liposomal drug delivery systems: From concept to clinical applications**

Yvonne Perrie, Aston University, Birmingham, United Kingdom

**Nanosuspension technology: A versatile drug delivery platform**

Roberta Cavalli, University of Turin, Turin, Italy

**Nanoparticle design and drug delivery**

Paula Hammond, MIT Massachusetts Institute of Technology, Cambridge, USA

## 09:00 Symposium: Continuous Manufacturing

**Continuous wet granulation process including QbD & PAT**

Martin Wunderlich, F.Hoffmann-La Roche, Basle, Switzerland

**Melt Extrusion Technology: Case studies**

Michael A. Repka, University of Mississippi, Jackson, USA

**Comminutive Granulation – Continuous Manufacturing of Hot-Melt-Extruded Pellets**

Reinhardt K. Mürb, Automatik Plastics Machinery, Grobostheim, Germany

## 09:00 Short lectures

11:00 Coffee break  
Poster sessions and exhibition ResearchPharm®

11:30 Plenary lecture  
**Personalized Medicine – Facts and Fiction**  
Susanne Arbogast, Roche, Penzberg, Germany

12:30 Lunch break  
Poster sessions and exhibition ResearchPharm®

## 15:00 Symposium: Green & Sustainable Pharma

**Developing bio- and chemo-catalytic technology for API synthesis**

John Whittall, University of Manchester, Manchester, United Kingdom

**Industry case study: Energy and resource saving pharmaceutical manufacturing**

Herbert Krasowski, Valecon Management Consulting, Neu-Ulm, Germany

**Green nanotechnology – A sustainable source towards the generation of new biopharmaceuticals**

Kattesh V. Katti, University of Missouri, Columbia, USA

## 15:00 Symposium: Tissue Engineering & ATMP

**Development and manufacturing of Advanced Therapy Medicinal Products (ATMP)**

Maria Luisa Nolli, Areta International, Gerenzano, Italy

**Recent advances in tissue engineering**

Rui L. Reis, University of Minho, Braga, Portugal

**Biomaterials as Therapeutic Cancer Vaccines**

David J. Mooney, Harvard School of Engineering and Applied Sciences, Cambridge, USA

## 15:00 Short lectures

17:00 End of session

# Thursday, 3 April 2014

## 09:00 Symposium: Pharmaceutical Engineering

**The role of pharmaceutical engineering in product development**  
Jean-René Authelin, Sanofi, Vitry-sur-Seine, France

**Planning and construction of a new plant for parenterals**  
Andreas Graser, F.Hoffmann-La Roche, Basle, Switzerland

**From sciences to biopharmaceutical manufacturing**  
David Estape, M+W Germany, Stuttgart, Germany

## 09:00 Symposium: Generics & Biosimilars

**Branded generics in emerging markets**  
Joaquim Figueiredo, Abbott Products Operations, Allschwil, Switzerland

**Biosimilars, an opportunity and a challenge for the generic's industry**  
Julio Maset, Laboratories Cinfa, Olloki, Spain

**Biosimilars or Biobetters? Lessons learned from the filgrastim portfolio**  
Herrmann Allgaier, Merckle Biotec, Ulm, Germany

## 09:00 Short lectures

11:00 Coffee break  
Poster sessions and exhibition ResearchPharm®

11:30 Maurice Marie Janot Award lecture  
**Overcoming drug biological barriers: from the cell membrane to the mucosa**  
Maria José Alonso, University of Santiago de Compostela, Santiago de Compostela, Spain

12:30 Lunch break  
Poster sessions and exhibition ResearchPharm®

## 15:00 Symposium: Poorly Soluble Drugs

**Intestinal absorption studies (in vitro - ex vivo - in situ)**  
Patrick Augustijns, University of Leuven, Leuven, Belgium

**Cyclodextrins**  
Thorsteinn Loftsson, University of Reykjavik, Reykjavik, Iceland

**Nanocrystals**  
Jan Möschwitzer, AbbVie Deutschland, Ludwigshafen, Germany

## 15:00 Symposium: Skin, Nose & Lung Delivery

**Drug delivery into and through the skin**  
Richard Guy, University of Bath, Bath, United Kingdom

**Advances in pulmonary drug delivery**  
Karim Amighi, University of Brussels, Brussels, Belgium

**Advances in intranasal drug delivery**  
Speaker to be confirmed

## 15:00 Short lectures

17:00 End of meeting



## Topics for short lectures and posters

- Advanced Drug Delivery Systems
- Controlled Drug Delivery
- Technical Innovations
- Starting Materials
- Physical Pharmacy
- Preformulation
- Pharmaceutical Manufacturing & Engineering
- Packaging
- Quality Control & PAT
- Quality Assurance
- Stability Testing
- Regulatory Affairs
- Oral Delivery
- Buccal and Nasal Delivery
- Parenteral Delivery
- Pulmonary Delivery
- Transdermal Delivery
- Dermal Preparations
- Nanoparticles & Vesicles
- Protein Formulation & Aggregation
- Gene Delivery
- Advanced Therapy Medicinal Products
- Pediatric & Geriatric Drug Delivery
- Bioavailability and Absorption Enhancement
- In-Vitro/In-Vivo Correlations
- Cellular Drug Transport
- Green & Sustainable Pharma
- Veterinary Medicine



For the latest programme updates please visit  
[www.worldmeeting.org](http://www.worldmeeting.org)

### Call for short papers/Instructions for authors

#### Online submission

Short papers can only be submitted online. Please use the following URL:

[www.worldmeeting.org/short-paper-submission/](http://www.worldmeeting.org/short-paper-submission/)

Deadline for short paper submission: 15 November 2013

#### Short-papers

Submitted short papers will be presented from 1 to 3 April 2014, either orally or in poster form.

#### Acceptance of short-papers

Authors will be notified of acceptance of their short paper and the type of presentation (oral or poster) by 15 January 2014.

#### Oral presentations

The time limit for oral contributions will be exactly 20 minutes including 5 minutes discussion.

Presentations will be made with a LCD projector.

#### Posters

Posters will be presented during special sessions. The panels for the poster presentation are of the following size: height 150 cm, width 90 cm, portrait format.

## Sponsoring

*Thank you to all sponsors of the last PBP World Meeting in 2012, your generous support made this meeting a success!*

Your financial support helps us in our efforts to provide a highly professional platform for young as well as experienced researchers and to further develop the pharmaceutical sciences and the related world-wide network.

The low registration fee for students which is significantly less than the cost price opens up the opportunity for young academics to attend the meeting. With your sponsoring you enable young researchers to take an active part in the scientific exchange between industry, authorities and academia. Beyond that you will increase your degree of brand awareness and you will communicate your brand values among the pharmaceutical target group.

We have put together a range of sponsorship opportunities for this event. Our support structure offers you an array of packages beginning from 2,000.00 Euro. Here are some ideas how to link your company with sponsorships to an excellent meeting of pharmaceutical scientists:

- Meeting Bags
- Lanyards
- Pens and Notepads
- Sticky Notes
- Wifi/Internet Café
- Insert in meeting bags
- Advertising in final programme
- Coffee Breaks
- Lunch Snack
- Welcome Reception bar
- Gala Dinner Event

*„It has been a great meeting  
[in Istanbul]. Thank you!“*

*Biogrand, Germany*

Depending on the level of your investment, your company will enjoy benefits like:

- Complimentary conference tickets
- Signage and branding at break locations
- Logo on screen during breaks
- Logo on the congress web site
- Acknowledgement with your logo in the Final Programme & Abstract CD
- Company advertisement in the Final Programme & Abstract CD
- etc.

APV International Association for Pharmaceutical Technology

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For detailed information please see the sponsoring form at [www.worldmeeting.org](http://www.worldmeeting.org)

## Hotel Accommodation

The APV has reserved a number of rooms at special rates in the following hotels:

### Sana Lisboa Hotel \*\*\*\* (Headquarters' Hotel)

Avenida Fontes Pereira de Melo 8  
1069-310 Lisbon, Portugal  
Phone: +351 210 064-300  
Fax: +351 210 064-345  
Email: [grp.lisboa@sanahotels.com](mailto:grp.lisboa@sanahotels.com)  
Web: [www.lisboa.sanahotels.com/en/](http://www.lisboa.sanahotels.com/en/)

Single rooms per night: 95.00 Euro, including breakfast

Double rooms per night: 105.00 Euro, including breakfast

This offer expires after 27 February 2014. After this date, confirmation of booking will be subject to availability and rate.

### Sana Lisboa Capitol \*\*\*

Rua Eça de Queiroz, 24  
1050-096 Lisbon, Portugal  
Phone: +351 210 064-300  
Fax: +351 210 064-345  
Email: [grp.lisboa@sanahotels.com](mailto:grp.lisboa@sanahotels.com)  
Web: [www.capitol.sanahotels.com/en/](http://www.capitol.sanahotels.com/en/)

Single rooms per night: 90.00 Euro, including breakfast

Double rooms per night: 100.00 Euro, including breakfast

This offer expires after 27 February 2014. After this date, confirmation of booking will be subject to availability and rate.

At [www.worldmeeting.org](http://www.worldmeeting.org) you will find a variety of different hotel categories to suit every taste and budget.

Please visit our website [www.worldmeeting.org](http://www.worldmeeting.org) for detailed information.

## Registration

Please register online at: [www.worldmeeting.org/registration/](http://www.worldmeeting.org/registration/)

### Registration fees

Full participation		until 1 February 2014		from 2 February 2014	
		presenter	participant	presenter	participant
Student <sup>1</sup>	member <sup>2</sup>	210.00 €	240.00 €	260.00 €	290.00 €
	non-member	240.00 €	270.00 €	290.00 €	320.00 €
Academic	member <sup>2</sup>	480.00 €	510.00 €	530.00 €	560.00 €
	non-member	510.00 €	540.00 €	560.00 €	590.00 €
Industry	member <sup>2</sup>	990.00 €	1,020.00 €	1,090.00 €	1,120.00 €
	non-member	1,020.00 €	1,050.00 €	1,120.00 €	1,150.00 €

Full participation includes admission to the scientific congress/exhibition, gala dinner, welcome reception and congress documentation consisting of a detailed printed programme and a menu-guided CD-ROM containing all abstracts.

Day ticket (not available for student registration):

Day ticket: 50% of the corresponding full-participation fee.

Day tickets include admission to the scientific congress/exhibition for the corresponding day. It does not include admission to social events.

### Accompanying persons

Tickets for welcome reception and the gala dinner event for accompanying persons are available at a price of 90.00 € for both events and can be ordered online.

<sup>1</sup> Students need to upload a copy of their valid student card/pass

<sup>2</sup> Members of all participating societies (please see left)

For meeting updates please visit [www.worldmeeting.org](http://www.worldmeeting.org)

