

10th International Conference on Pharmacy and Applied Physical Chemistry

PhandTA 10

Centro Stefano Franscini
Monte Verità

Ascona, Switzerland

Sunday 21st to
Wednesday 24th of October, 2007

Scientific Frame of the Conference

PhandTA 10, the 10th International Conference on Pharmacy and Applied Physical Chemistry, will be our first Jubilee Meeting. The aim of the Conference is to assemble Scientists and Experts from Academia and from the Pharmaceutical Industry. Important aspects such as the Discovery and Screening of New Chemical Entities and the physicochemical, galenical and preclinical Characterization of Drug Substances, Drug Products and Excipients will be presented and discussed. In addition, investigations and research concerning the transport and the bioavailability of Drug Substances are outlined as well as the different forms of Delivery Systems. The increasing pressure for the fast development of extremely efficient Drug Substances and Drug Products of a high quality affords outstanding research activities and in addition development procedures focused on analytical, chemical, physicochemical and galenical characterizations.

In addition to the basic chemical structure of a drug substance as free base or free acid, also entities such as hydrates, solvates, salt forms, complexes, molecular compounds are existing. The characterization of these detected entities enables a selection of candidates for a further development. Many of the above mentioned entities with an identical basic chemical structure may also appear in different polymorphic forms which also should be taken into consideration for a comprehensive selection study.

Workshops

On Wednesday afternoon Workshops with two selected topics will take place. The Workshops will be organized with Contributions presented by Participants of the PhandTA 10 as well as by invited Lecturers. The Workshops are planned for the following topics:

Workshop I

Physical and Chemical Stability of crystalline, partially crystalline and amorphous Drug Substances under Consideration of Selection Processes.

Workshop II

Selected Patent Cases of Drug Substances in respect to Forms such as Hydrates, Solvates, Salts, Complexes, Mixtures will be discussed. Additionally, Properties of Solid Materials with different Habitus, Corn Size and Agglomeration behavior are also of interest.

Participants of the PhandTA 10 may submit Titles for Short Contributions presented in one or in both of the Workshops. The length of Contributions shall not exceed 10 overhead or power point sheets. A Contribution can be announced with the attached Registration Form as well as by an e-mail to the Organizer with the deadline at the Opening of the Conference (see Contact).

Exposition

Manufacturers of Instruments will exhibit their newest developments and will present the possibilities of the available equipments during the instrumental Sections. In addition, Experts from Service Organizations will present the possibilities of their Companies.

Invitation

Scientists and Experts from Universities and from the Pharmaceutical Industry interested in the subjects anticipated are cordially invited to participate in the PhandTA 10. The Conference language will be English.

The Program consists of the following sections:

- Drug Substances: Polymorphs, hydrates, solvates, salts, enantiomers, molecular compounds, complexes; Screening methods for the selection of the most favorable drug substances; the physicochemical Characterization; Chemical stabilities and kinetics in respect to temperature, oxygen, water, solvents and chemical reactants; Physical stabilities, transformation scheme and kinetics in respect to temperature, pressure, mechanical forces, light; Solubility and the dissolution rate in respect to pH; Chemical impurities in respect to chemical and enantiomeric impurities, Physical impurities in respect to the solid state impurities and to the degree of amorphicity
- Excipients and Polymers: Characterization and compatibility
- Drug Products: Manufacturing, aging, and release; solid dosage forms, solid dispersions, semi-solid forms, liquid forms, microemulsions, encapsulations, controlled release systems, freeze dried forms

- Site-specific Drug Delivery: Interactions drug-receptor, transport and diffusion mechanisms

- Methods of Physical Chemistry and Instrumentation: Thermodynamics, thermal analysis in classical and modulated versions, calorimetry, spectroscopical methods such as IR and Raman spectroscopy, X-ray diffraction methods (temperature and humidity resolved), NMR methods specially solid-state NMR, microscopy, moisture sorption analysis, rheology, new techniques; Instrumental procedures and properties such as calibration and calibration standards, sensitivity, thermal resolution; validation procedures.

Contributions

The Scientific Program offers Plenary Lectures, Key and Short Communications as well as Poster sessions.

The **Poster Presentations** will start with the Conference and end at Wednesday. The Poster walls can be used for the format A0 (width 90 cm, height 125 cm).

The **Contributions** will be printed in form of a Workbook consisting of one- or two-page abstracts. Subsequent publication of **full Manuscripts** of presented Lectures and Posters is planned in the Journal of Thermal Analysis and Calorimetry.

Timetable

Sunday,	Oct. 21, 2007	14:00 - 16:00 14:00	Registration Meeting of the Board Members
		16:00	Opening of the PhandTA 9
		16:10 - 19:00 19:30	Lectures Aperitif and Dinner
Monday,	Oct. 22, 2007	08:30 - 18:00	Award Lecture, Plenary Lectures,
Tuesday,	Oct. 23, 2007	08:30 - 18:00	Key and Short Communications,
Wednesday,	Oct. 24, 2007	08:30 - 12:00	Poster Session, Exhibition of Instruments
Wednesday,	Oct. 24, 2007	13:00 - 16:00	Workshops on Selected Topics
Tuesday,	Oct. 23, 2007	20:00	Conference Dinner

Registration Fees in SFr.

	members of eurostar-science	non-members
Full participation *	1050	1250
Students *	500	
Accompanying persons **	500	

* Includes Conference, Workshops, all Lunches (Monday to Wednesday) and Dinners (Sunday to Tuesday)

** Includes Lunches and Dinners, and the Ladies Program

Accommodation

The participants may lodge at the Monte Verità, which is rather convenient (43 rooms and 73 beds). The rate for a single room including breakfast is SFr. 120.00 and for a double room SFr. 180.00. The lodging is organized with the Registration Form on a first-come-first-served procedure. Additional lodging is possible in Ascona. The reservation in Ascona must be made by each participant himself. A hotel list will be available on the website.

Present List of announced Communications:

- *Purification by Crystallization of new organo-phosphorylated compounds: the Phosphoantigens*
E. Aubin, Innate Pharma, Marseille, France
- *Black, white and gray or – Polymorphs-Amorphs-Solvates-Cocrystals-Salts-, which are the differences, amongst and between*
Roland Boese, Chemistry Department, University Duisburg-Essen, Essen, Germany
- *Metastable Forms of Pharmaceuticals*
Elena V. Boldyreva, Institut of Solid State Chemistry, Siberian Branch of the Russian Academy of Science, Novosibirsk, Russia
- *The Discontinuous Isothermic Thermal Analysis, a new Tool for Description of Phase Diagrams with molecular Components*
Y. Cartigny, University of Rouen, France
- *Characterization and specific Behavior of non-stoichiometric Hydrates*
Gerard Coquerel, University of Rouen, France
- *Thermoanalytical Methods – Applications in Medicine*
Beverly Glass¹ and M.E. Brown²
¹School of Pharmacy and Molecular Sciences, James Cook University, Townsville, Australia;
²Chemistry Department, Rhodes University, Grahamstown, South Africa
- *Thermodynamic Considerations of Cellular Metabolism: Developments in High-Resolution Respirometry*
Erich Gnaiger, Department of Transplant Surgery, D. Swarowski

Research Laboratory, Innsbruck Medical University, Innsbruck

- *Impact of heterochiral Interactions during the Growth of enantio-pure Materials. How can we evaluate them?*
Arnaud Grandeury, H. Lorenz, and A. Seidel-Morgenstern, Cephalon Inc., France
- *Crystal Forms of amiloride hydrochloride*
Ulrich Griesser, M.Tischler, and B. Binna, Institute for Pharmacy, University of Innsbruck, Innsbruck,
- *Accuracy, Sensitivity, and Resolution of Differential Scanning Calorimetry*
Erwin Marti, APCh Marti, Consulting, Basel Switzerland
- *Can we elucidate chiral Discrimination from physical and structural Characterizations? A case Study with Host-Guest Complexes*
Samuel Petit, University of Rouen, France
- *Transitiometry of Substances with a pharmaceutical Importance*
Stanislaw Randzio, Polish Academy of Sciences, Warsaw, Poland
- *Promiscuity and Specificity in ABC Transporters*
Anna Seelig, Biozentrum, University of Basel, Basel
- *Detergents, Peptides, and Microdomains in Membranes*
Joachim Seelig, Biozentrum, University of Basel, Basel
- *IGC as a Tool for the Study of solid State Properties*
Frank Thielmann, Surface Measurement Systemy Ltd., London, UK
- *Hydrophobic Effects in Biochemical Chemistry*
Emmerich Wilhelm, Institute of Physical Chemistry, University of Vienna, Wien, Austria

The updated List of Communications will be available on our Website in April 2007.

Further information

You will find further information on the Conference Website <http://www.eurostar-science.org>

Apart from this Circular, no further details will be sent out by mail. Please, refer to the website.

Contact

Dr. Erwin Marti
Im Langen Loh 181
CH – 4054 Basel
Switzerland

Tel.: 0041 61 301 66 61
Fax: 0041 61 303 86 62
e-mail: erwin.marti@apch.ch

For registration see the attached form