Continuation of the Diffusion Fundamentals Conference Series

We are happy to announce that Diffusion Fundamentals III will be organised by Doros Theodorou and held in Athens in spring/early summer 2009. The scientific committee of the conference series (editorial board of Diffusion-Fundamentals.org) is soliciting bids for Diffusion Fundamentals IV, to be held in 2011. If you are interested to contribute to the continuation of this conference series by organising Diffusion Fundamentals IV, please contact a member of the editorial board. Then, during the L’Aquila Conference, the editorial board will decide about the conference location for 2011.

Accommodation

Enclosed you can find some hotels, which are close to the city centre and conference facilities. All of the hotels in the city centre are within walking distance to the Castle (5-10 minutes). Please, use the codeword “Diffusion” and make your reservation before April 30th, to benefit from special conditions for conference participants.

Please note that due to the Peronanza for bookings after April 30th the availability of rooms cannot be guaranteed.

List of Invited Speakers and their Plenary Talks:

- **John Barker** (Southampton): Diffusion in Hydrogeology
- **Clemens Bechinger** (Stuttgart): Diffusion in Reduced Dimensionality
- **Kurt Binder** (Mainz): Interdiffusion in Critical Binary Mixtures by Molecular Dynamics Simulation
- **Stefano Brandani** (Edinburgh): Challenges in Macroscopic Measurement of Diffusion in Zeolites
- **Armin Bunse** (Gießen): Percolation and Anomalous Diffusion in Disordered Materials
- **Luca Cavalli-Stoppani** (Stanford): Genetic and Cultural Diffusion
- **Ed Cussler** (Minneapolis): Diffusion in Self-Assembled Composites
- **Herbert Jolic** (Villeurbanne): QENS and the Benefit of Diffusion Measurement over Different Length Scales
- **Yossi Klatzer** (Tel Aviv): How anomalous is anomalous diffusion?
- **Philipp Kuckel** (Sydney): Diffusion in Cells: NMR studies
- **Manfred Martin** (Aachen): Diffusion in Oxides
- **Nikolaus Nestle** (Ludwigsafen): Diffusion Challenges in (Chemical) Industries
- **Dieter Richter** (Jülich): Polymer Dynamics: From Synthetic Polymers to Proteins
- **Caflro Sarti** (Bologna): Fickian and non-Fickian Diffusion in Solid Polymers
- **Gero Vogl** (Viena): The Invasion of Newcomers: Isotopes, Neobiotics, Foreigners
- **Albrecht Beultelspacher** (Gießen): Woman on the Street (entertaining talk, part of social programme)

Each group of plenary talks shall be accompanied by poster sessions. Ideally, the contributions to the poster sessions should be related to the various aspects covered in the plenary talks. Correspondingly, the plenary speakers and the chairpersons of the sessions shall be asked to serve as first reviewers of the poster submissions and shall be encouraged to refer to individual posters during their presentations, whenever appropriate.

**Second Circular**

**Diffusion Fundamentals II**

**Basic Principles of Theory, Experiment and Application**

August 26th – 29th, 2007, L’Aquila, Italy

Two years after the Diffusion Fundamentals I Conference in Leipzig, the world-wide community of researchers in the field of diffusion is invited to L’Aquila to highlight the current developments in the field. Following the tradition of Diffusion Fundamentals I (see book announcement) a Conference Volume with paintings of L’Aquila by the Japanese physicist and artist Taro Ito will appear as a souvenir for all participants. Diffusion Fundamentals II is co-organized by University College London, University of Leipzig and University of L’Aquila.

The scientific programme includes invited plenary talks, covering those topics of diffusion theory, experiment and application, which are in the focus of current research. The talks will address a broad, interdisciplinary audience rather than only the specialists in the different fields and include the following topics:

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  - **Armin Bunse** (Gießen): Percolation and Anomalous Diffusion in Disordered Materials
  - **Luca Cavalli-Storzan** (Stanford): Genetic and Cultural Diffusion
  - **Ed Cussler** (Minneapolis): Diffusion in Self-Assembled Composites
  - **Herbert Jolic** (Villeurbanne): QENS and the Benefit of Diffusion Measurement over Different Length Scales
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  - **Caflro Sarti** (Bologna): Fickian and non-Fickian Diffusion in Solid Polymers
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  - **Albrecht Beultelspacher** (Gießen): Woman on the Street (entertaining talk, part of social programme)

**Session Chairmen:**

- **Farida Grinberg** (Leipzig): Paul Heitjans (Hannover)
- **Alexander V. Neimark** (Potsdam): Charles Nicholson (New York)
- **William S. Price** (Sydney): Douglas M. Ruthven (Orono)
- **Subramanian Yashonath** (Bangalore): Doros N. Theodorou (Athens)

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Preliminary Schedule

Sunday, 26th August 3 p.m. – 8 p.m. Registration, welcome buffet, talk by Albrecht Beutelspacher
Monday, 27th August 9 a.m. – 7 p.m. Scientific programme; afternoon: excursion to Castelvecchio Calviso and Santo Stefano; evening: Gala dinner
Tuesday, 28th August 9 a.m. – 4 p.m. Scientific programme; 4 p.m.: start of the Perdonanza ceremony
Wednesday, 29th August 9 a.m. – 4 p.m. Scientific programme; end of the conference

Location

The conference takes place in the Castle of L’Aquila. The massive 16th-century Spanish castle crowns the city’s highest point and is surrounded by the large Parco del Castello. The city of L’Aquila is one hour away from Rome. L’Aquila, laid out within medieval walls, is surrounded by mountains on all sides. A booklet by Albrecht Beutelspacher, University of Giessen, in both German and Italian (ISBN 3423330694), entitled "Pasta all’infinito - my Italian Journey into Maths", provides a nice introduction to the conference location, its people and some mathematics. As part of the social programme, with an entertaining talk on the "women on the street" he is as well going to present some mathematical surprises during the conference. Following his first visit to L’Aquila described in this book, the international community of researchers in the field of diffusion is invited to take profit of a marvellous place, not yet heavily affected by tourism, and its picturesque ambience.

Fees and Payment

Again, the conference will be performed as a low-cost conference benefiting from a comprehensive use of the Internet and an electronic mail system for information exchange and operational purposes.

The participation fee for early registration (till June 15th, 2007) is 250,- Euro, for late registration and cash payers it is 300,- Euro. The reduced fee for students is 200,- Euro (early registration) and 250,- Euro, respectively. For registration, please fill out the registration form. The conference fee comprises the Conference Book, beverages and meals during the conference and the social programme, including the welcome buffet on Sunday, August 26th, the Gala dinner and the excursion to Castelvecchio Calviso and Santo Stefano (two villages in the National Park of Gran Sasso). In the afternoon and evening of August 28th, the participants will have the chance to follow the ceremony of the Perdonanza in L’Aquila. The Perdonanza is a special plenary indulgence conceded by Celestine V at the end of the 13th century which gives all sinners the opportunity to free their souls from guilt and damnation. It is celebrated each year on 28th and 29th of August and has meanwhile developed to a unique choreographic spectacle.

The price for accompanying persons is 60,- Euro, including participation on welcome party, gala dinner, guided tour through the city of L’Aquila and the excursion to Castelvecchio Calviso and Santo Stefano.

Accommodation

On the conference webpage and at the end of the conference you can find some hotels, which are close to the city centre and the conference facilities. For booking, please use the codeword "Diffusion" to benefit from special conditions for conference participants.

On individual request some mini apartments as shared low-cost accommodation are available for a limited number of persons, mainly for students. The rooms are located in the Hotel Dura degli Abruzzi complex (30,- Euro per person and night) and in the Hotel Azzurro (25,- Euro per person and night). Due to the limited number of reserved rooms, please contact the organizing committee as soon as possible, if you want to stay there.

Conference Volume

The conference book will include full paper contributions of plenary speakers and sessions' chairmen and the two-page poster abstracts and is complemented by paintings of L’Aquila by the Japanese physicist and artist Taro Ito.

A total of the conference contributions will be published only electronically, as a special volume of the Online-Journal "Diffusion Fundamentals". This online publication will accompany the Conference Volume as well as the full paper contributions by poster presenters (see below for details).

Posters

Authors who would like to have their abstracts included into the Conference Book are requested to send their two-pages contributions via the Internet before May 31st, 2007. Later submissions can only be presented in the special volume of the Online-Journal. Please note, that the deadline for last-minutes’ poster contributions is August 17th.

Please, follow the format as given under http://www.uni-leipzig.de/diffusion/pdf/layout-poster-abstracts.doc since only in this case the contribution may be included in the Conference Volume and for the Online-Journal and send your abstract to tomas@uni-leipzig.de.

Full Paper Contributions

Plenary speakers and sessions’ chairmen are requested to submit their contributions to the conference book as full papers of up to about 20 pages before April 30th 2007, following the instructions given under http://www.uni-leipzig.de/diffusion/pdf/layout-book-contribution.doc.

Authors of contributions which were accepted as posters of the conference are invited to send their contributions for inclusion in the Conference Volume as well as the full paper contributions by poster presenters (see below for details). The publication in the special issue of the Online-Journal "Diffusion Fundamentals" depends on the positive response of the referees.

Registration

Please fill out the registration form available under http://www.uni-leipzig.de/diffusion/pages/conf2007-registration.php. We will send you a confirmation of your registration via Email after receiving your fee on our bank account.

Important Dates 2007

April 30th Deadline for submission of full papers for plenary speakers and chairmen
May 31st Deadline for submission of poster abstracts to the conference volume
June 15th Registration deadline (early registration fee)
June 29th Information about acceptance of poster contributions
July 15th Final deadline
August 17th Deadline for full paper contributions of poster presenters; deadline for last-minutes’ poster contributions
August 26th – 29th Diffusion Fundamentals II

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