



Diffusion Phenomena Moving People

Diffusion Fundamentals

Basic Principles of Theory, Experiment and Application
September 1st to 5th, 2019 in Erlangen, Germany



The international conference **Diffusion Fundamentals VIII** will take place


1st to 5th September 2019 in Erlangen, Germany.

As a motto of the conference, the subtitle “Diffusion Phenomena Moving People” should point out that ...

- ... dedicated scientists from many different fields pursue their diffusion-related research with unlimited passion,
- ... not only the random movement of molecules, but also of, e.g., particles, words, information, and people can be described by diffusive transport, and
- ... experts from many diffusion-related research areas are hopefully motivated to travel to Erlangen for the next issue of the fruitful Diffusion Fundamentals conference series.

The **conference program** includes ...

- ... **13 plenary talks** representing the variety of diffusion phenomena
- ... up to 6 **poster sessions including oral short presentations** limited to about 20 posters each to allow for intense discussion
- ... **5 workshops** with practical elements
- ... **lab tours** in diffusion-related institutes of the Friedrich-Alexander-University Erlangen-Nürnberg (FAU) and other research facilities
- ... a **conference dinner** on September 4, 2019, in connection with a concert of the String Quartet of the Bamberg Symphonic Orchestra
- ... **sightseeing events** such as a trip to Bamberg and a city tour of Erlangen guided by a night watchman

Diffusion Fundamentals VIII is organized by  and supported by

 Sächsische Akademie
der Wissenschaften
zu Leipzig

 **FAU** FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

 **SAOT**
erlangen
graduate school in
advanced optical technologies



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Plenary talks:

The 190th Birthday of Adolf Fick: Still the Same Procedure for **Diffusion in Fluids** as Every Year? (André Bardow, Aachen)

The Dynamics and **Propagation of Riots** (Henri Berestycki, Paris)

Human Rights in the Interplay of Universal Validity Claims and Local Contextualities (Heiner Bielefeldt, Erlangen)

Global Challenges of **Carbon Capturing** (Stefano Brandani, Edinburgh)

Experimental Epidemiology – Contagion Dynamics on Contact Networks (Dirk Brockmann, Berlin)

Exploring **Guest Dynamics in Nanoporous** Host Materials (Christian Chmelik, Leipzig)

Molecular Simulation Methods for the Accurate Prediction of Mass Diffusivities for the Design of **Processes in Oil and Gas Industry** (Ioannis Economou, Doha)

Palaeogenetic Information on the **Neolithic Migrations** in Europe (Wolfgang Haak, Jena)

Diffusion in Solids Studied by Atomic-scale X-ray Photon Correlation Spectroscopy (aXPCS) (Michael Leitner, Munich)

Diffusion Wave Imaging Fundamentals and Applications (Andreas Mandelis, Toronto)

Why Do People Change Their **Language**? (Katharina Prochazka, Gero Vogl, Vienna)

Modeling Direct **Injection of Drugs into the Brain** (Malisa Sarntinoranont, Gainesville, FL)

Mass Transfer in **Oil Enhanced Recovery** (Martin Trusler, London)

Important Dates:

Begin of abstract submission: January 7, 2019

Abstract submission deadline: March 15, 2019

Acceptance decision: May 3, 2019

Early registration/payment deadline: June 17, 2019

Late registration/payment deadline: July 26, 2019

Later registration/payment (also during conference) with additional fee possible

For more details and updates, please visit

www.aot-tp.tf.fau.de/diffusion-fundamentals-8

