Diffusion Fundamentals IX — Programme

September 21st - 24th, 2022 in Kraków, Poland

Updated: September 13, 2022

> ℹ️ Registration "on-site" will be possible throughout whole period of conference at Reception Desk - from 21st to 24th September 2022 at designated hours:
>
> 21/09 (Auditorium Maximum) – 08:00-16:00
>
> 22/09 (Auditorium Maximum) – 11:30-14:30
>
> 23/09 (Auditorium Maximum) – 08:00-15:00
>
> 24/09 (Auditorium Maximum) – 08:30-13:30

Tuesday, 20/09

17:00 – 19:00	Registration + Welcome Buffet [1]

Wednesday, 21/09

9:00	Opening	
Session 1	*Chair: Jörg Kärger*	
9:30 – 10:00	**Peter Hänggi**	Marian von Smoluchowski's Oeuvre on Diffusion and its Impact from Natural Sciences to Social Sciences
10:00 – 11:00	**Shlomo Weber**	Spreading of Information – the Case of Implementing a Circular Economy
11:00 – 11:30	Coffee Break	
Session 2	*Chair: Michael Maes*	
11:30 – 12:30	**Gero Vogl**	The Endangered Future of Minority Languages in Europe as Viewed by Physicists

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[1] Registration and Welcome Buffet will take place at the Didactic Centre of the Faculty of Law and Administration JU, which is located next to the conference venue (Auditorium Maximum) on Krupnicza 33A Street. On the last page of this PDF, you will find the map of the facility and relevant instructions on where to find the Registration Desk and where will be served the Welcome Buffet.

12:30 – 13:30	**Véronique Pierron-Bohnes**	Spreading of Women in Science and of Actions to Overcome Connected Stereotypes
13:30 – 15:00	**Lunch**	
Session 3	*Chair: Christine Selhuber-Unkel*	
15:00 – 16:00	**Maciej A. Nowak**	Diffusion of Large Matrices
16:00 – 17:00	**Bogdan Sepiol**	Diffusion in Atomic Scale Studied Experimentally
17:00 – 18:00	**Jürgen Caro**	IUPAC Lecture: Diffusion in Nanoporous Materials and its Technological Relevance Exemplified by Gas Separation via Membrane Permeation
18:00 – 20:00	**Poster Session I with Buffet**	

Thursday, 22/09

8:30 – 12:30	**Parallel Workshops with Coffee Break**	
Workshop	**Benedykt R. Jany**	Machine Learning in Image Processing
Workshop	**Bogdan Sepiol Katharina Holzweber Cristoph Tietz**	Atomic Jumps by Atomistic-Scale Photon Correlation Spectroscopy
Workshop	**Shlomo Weber Hans Wiesmeth**	Spreading Phenomena in Economics and Society
Workshop	**Stefano Brandani Jürgen Caro Dieter Freude Jörg Kärger Bill Price Germán Sastre Randy Snurr**	Diffusion in Nanoporous Materials – an IUPAC (International Union of Pure and Applied Chemistry) Initiative
13:00 – 14:00	**Lunch**	
14:30 – 16:00	**Visit in the University Museum: Collegium Maius**	
Session 4	*Chair: Rodolfo Cuerno*	
17:00 – 18:00	**Michael Maes**	Diffusion of Fake News in Social Network
18:00 – 19:00	**Janusz Hołyst**	Discontinuous Transitions in Stochastic Models of Collective Opinion Dynamics
19:00 – 19:30	**Bus transfer to Folwark Zalesie (*Conference Banquet Prologue*)**	

19:30 – …	**Piotr Zieliński**	Spreading of Music and Spreading in Music
…	**Conference Banquet**	

Friday, 23/09

Session 5		*Chair: Shlomo Weber*
9:00 – 10:00	**Johannes Schmidt**	Stochastic Models for Interdisciplinary Problems
10:00 – 11:00	**Bert M. Weckhuysen**	Single-Molecule Observation of Diffusion and Catalysis in Nanoporous Solids
11:00 – 11:30	**Coffee Break**	
Session 6		*Chair: Gero Vogl*
11:30 – 12:30	**Christine Selhuber-Unkel**	Intracellular Diffusion: From Crowding to Migration
12:30 – 13:30	**Rodolfo Cuerno**	Interplay Between Morphology and Transport in Nanoscale Pattern Formation
13:30 – 15:00	**Lunch**	
Session 7		*Chair: Ehrenfried Zschech*
15:00 – 16:00	**Andreas Mandelis**	Photothermal Coherence Tomography: Three-Dimensional Images Based on Diffusion Localization
16:00 – 17:00	**Manfred Martin**	How Well Do We Understand Ion Transport in Oxides?
17:00 – 19:00	**Poster Session II with Buffet**	

Saturday, 24/09

Session 8		*Chair: Jürgen Caro*
9:00 – 10:00	**Marek Danielewski**	An Ontological Basis for the Diffusion Theory
10:00 – 11:00	**Ehrenfried Zschech**	Tortuosity and Transport in Electrochemical Systems
11:00 – 11:30	**Coffee Break**	

Session 9		Chair: Rafał Abdank-Kozubski
11:30 – 12:30	**Eli Barkai**	Gaussian and Laplace Diffusion Processes
12:30 – 13:30	**Jakub Barbasz**	The Climbing, Diffusion Models and Experiments
13:30		**Lunch**

Didactic Centre of the Faculty of Law and Administration, Jagiellonian University in Kraków

GROUND FLOOR

SEMINAR ROOM 12

11

9

COURT 6

WC

WC

5

AUDITORIUM HALL "A"

LECTURE HALL BLUE

14

13

LECTURE HALL GREEN

WELCOME BUFFET

MAIN ENTRANCE

AUDITORIUM HALL "B"

REGISTRATION (20/09)
17:00 - 19:00

LEGEND

	WC	- TOILETS
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	🛗	- ELEVATOR
	🍴	- CAFETERI...
	🧥	- CLOAKRO...
	▲	- MAIN ENT...
	🪜	- STAIRCAS...
		- SEMINAR...
		- AUDITORIU...
		- AUDITORIU...
		- LECTURE...
		- LECTURE...
		- COURT
		- TECHNICA... ROOMS

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