Pre-School "Fundamentals of Diffusion and Spreading":

The conference is preceded by a pre-school on Sunday, August 23rd, introducing into basics of diffusion and spreading.

Sunday, August 23rd, 2015

Pre-School "Fundamentals of Diffusion and Spreading"		
12:30 – 14:30	Lectures, part 1: <i>Diffusion Step by Step</i> Armin Bunde (University of Giessen, Germany), Jörg Kärger (University of Leipzig, Germany)	
14:30 - 15:00	Coffee break	
15:00 – 17:00	Lectures, part 2: <i>Diffusion Applications</i> Jürgen Caro (University of Hanover, Germany), Gero Vogl (University of Vienna, Austria)	

Diffusion Fundamentals VI – Conference Program

The conference will take place at Dresden University of Technology, Chemistry Building (Bergstraße 66, 01069 Dresden, Germany). The lectures will be given in the **lecture theatre CHE S89** on the ground floor. Maps of the surrounding are shown in the programme booklet and on the <u>conference website</u>.

Sunday, August 23rd, 2015

Welcome Party and Evening Lecture		
16:00	Opening of Registration	
17:30 - 18:30	Welcome party with refreshments and finger food, part 1	
18:30 – 19:15	Hans Joachim Meyer (Minister for Higher Education, Research and Culture of Saxony (ret.), Germany) Evening lecture: A global Language or a World of Languages – introduced by Hans Wiesmeth (TU Dresden, Vice-President of SAW, Germany) –	
19:15 - 20:30	Continuation of welcome party	





Monday, August 24th, 2015

Monday, August 24 , 2013		
Morning Session Chairs: Grit Kalies (Dresden), Douglas M. Ruthven (Orono)		
09:00 - 09:15	Hans Müller-Steinhagen (Rector of TU Dresden, Germany) Opening of Diffusion Fundamentals VI	
	– introduced by Jörg Kärger (University of Leipzig, Germany) –	
09:15 - 09:55	Rajamani Krishna (University of Amsterdam, The Netherlands) Uphill Diffusion	
09:55 - 10:35	Philipp Maass (University of Osnabrück, Germany) Diffusive Transport in Non-Equilibrium Steady States	
10:35 - 11:05	Coffee break	
Chairs: Handa	n Tezel (Ottawa), Petrik Galvosas (Wellington)	
11:05 – 11:45	William S. Price (University of Western Sydney, Australia) NMR Versatility	
	Tandem Lecture	
11:45 – 12:55	Klaus Kroy (University of Leipzig, Germany): <i>Hot Brownian Motion: Theory</i> Frank Cichos (University of Leipzig, Germany): <i>Hot Brownian Motion: Experiment</i>	
12:55 - 14:30	Lunch break (during lunch break: meeting book contributors, room 201)	
Afternoon Session Chairs: Gero Vogl (Vienna), Fabian Jacobs (Bautzen)		
14:30 – 15:10	Anne Kandler (City University London, UK) Analysing Language Shift: The Example of Scottish Gaelic	
15:10 – 15:50	Russel Gray (Max Planck Institute for the Science of Human History, Jena, Germany) <i>Expansion of Language Families</i>	
15:50 - 16:20	Coffee break	
Chairs: Murra	y A. Moinester (Tel Aviv), Dieter Freude (Leipzig)	
16:20 – 17:00	Joaquim Fort (University of Girona, Spain) The Neolithic Transition: Diffusion of People or Diffusion of Culture?	
17:00 – 18:10	Tandem Lecture Detlef Gronenborn (University of Mainz, Germany) and Carsten Lemmen (Helmholtz Centre Geesthacht, Germany) The Expansion of Farming as Seen from Archaeology and Related Disciplines	
18:10 - 21:00	Poster session I with beer and finger food (optional: continuation meeting book contributors, room 201)	





Tuesday, August 25th, 2015

Morning Session Chairs: Alfred Leipertz (Erlangen), Armin Bunde (Giessen)		
09:00 - 09:40	Dirk Brockmann (Humboldt University Berlin, Germany) <i>Epidemics Spreading</i>	
09:40 - 10:20	Shlomo Havlin (Bar-Ilan University, Israel) Spreading of Failures in the Internet and in Power Grids	
10:20 - 10:50	Coffee break	
Chairs: Sabina	Hrabetova (New York), Michael J. Saxton (Davis)	
10:50 - 11:30	Hernán Makse (City College of New York, USA) A New Class of Superspreader: From Twitter, Cities and the Brain	
11:30 - 12:10	Charles Nicholson (NYU Langone Medical Center, USA) <i>Brain Structure Revealed by Diffusive Spread of Molecules</i>	
12:10 – 14:30	Poster Session II with Lunch (during lunch break: short meeting Diffusion Fundamentals Advisory Board, room 201)	
Afternoon Session Chairs: Helmut Mehrer (Münster), Rustem Valiullin (Leipzig)		
14:30 – 15:10	Michael Leitner (Technical University Munich, Germany) Dispersal in Plants and Animals: Modelling	
15:10 – 15:50	Martin Schnittler (University of Greifswald, Germany) Spore Dispersal in Lower Organisms: From Model Assumptions to Reality	
15:50 – 17:00	Tandem Lecture Christoph Neinhuis (Technical University of Dresden, Germany) Anita Roth-Nebelsick (State Museum of Natural History Stuttgart, Germany) Transport Systems in Living Organisms	
	Free time for an individual walk through Dresden	
19:30 - 23:00	Conference Dinner in the restaurant <u>Pulverturm</u> (located in the historical centre of Dresden next to <i>Frauenkirche</i>)	





Wednesday, August 26th, 2015

Morning Session Chairs: Wilfried Konrad (Tübingen), Hans Wiesmeth (Dresden)		
09:00 - 09:40	Albrecht Fritzsche (University of Erlangen-Nuremberg, Germany) Spreading Innovations	
09:40 - 10:20	Manfred Wendisch (University of Leipzig, Germany) Diffusion Processes in Atmospheric Physics	
10:20 - 10:50	Coffee break	
Chairs: Cornelia Breitkopf (Dresden), Boris B. Straumal (Moscow)		
10:50 – 11:30	Rainer Klages (Queen Mary University of London, UK) Search for Food of Birds, Fish and Insects	
11:30 - 12:10	Søren Wichmann (Leiden University, The Netherlands) Language Migration: Empirical Data and Modelling	
12:10 - 12:25	Boris Bokstein (National University of Science and Technology MISiS, Moscow, Russia) Short presentation of and invitation to Diffusion Fundamentals VII in Moscow 2017	
12:25 - 13:05	Marc-Olivier Coppens (University College London, UK) Nature-Inspired Transport Optimization	
13:05	Final Remarks, Quick Lunch	
15:00	Optional: Guided walk through the City of Dresden (meeting point: tram stop "Synagoge", reached by lines 3 and 7)	

A Springer textbook with the oral conference contributions is scheduled to appear in December 2016. The transparencies presented during the pre-school will be available already during the conference in the <u>download section of the website</u>.



