



WE-Heraeus Seminar on



Health, Energy & Extreme Events in a Changing Climate

Interdisciplinary Physics Workshop

6–9 December 2014

DPG Physikzentrum, Bad Honnef, Germany

We bring together theoretical physicists and complex systems scientists with distinguished researchers working on health, energy, and climate change to (i) learn about the complex interactions between these global systems, (ii) provide young physicists with an opportunity to explore fields of application of great societal importance, (iii) discuss in an interdisciplinary way the potentials and perspectives of cutting-edge modeling and data analysis methods from theoretical physics for studying both the individual subsystems as well as the whole complex, (iv) show that the language of theoretical physics and complex systems science is a natural and fruitful framework for this transdisciplinary field, and (v) initiate new promising scientific studies and projects in this context.

Keynote speakers:

Anne-Ly Do
MPI Physics of Complex Systems

Ljupco Kocarev
Macedonian Acad. for Sc. and Arts

Bettina Menne
World Health Organization

Leonard A. Smith
London School of Economics

Invited talks by:

Valentin Aich, *PIK*
Chris Barker, *UC Davis*
Petra Friederichs, *U Bonn*
Alexander Gershunov, *Scripps Inst.*
Katrin Schmietendorf, *U Oldenburg*
Michael Hiete, *U Kassel*
Solomon Hsiang, *UC Berkeley*
Holger Kantz, *MPI Compl. Syst.*
Aneta Koseska, *MPI Molec. Biol.*
Gordon McCord, *UC San Diego*
Jonathan F. Donges, *PIK*

Registration: www.pik-potsdam.de/heeec
(3 e's, 2 c's)



Deadline: 20 October 2014

Registration, accomodation, and meals are free of charge. Participants are invited to contribute posters or short talks.

Organizers: Jobst Heitzig (PIK), Jürgen Kurths (PIK, HU Berlin), Henry D. Abarbanel (UC San Diego), Brian Hoskins (Imperial College, London)
Contact: heitzig@pik-potsdam.de

This seminar is generously funded by the *Wilhelm and Else Heraeus Foundation*, www.we-heraeus-stiftung.de