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 Hietz, U Kassel
Solomon Hsiang, UC Berkeley
Holger Kantz, MPI Comp. Syst.
Aneta Koseska, MPI Molec. Biol.
Gordon McCand, UC San Diego
Jonathan F. Donges, PIK

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

Deadline: 20 October 2014

Registration, accommodation, 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

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