A conference organized by the Global Climate Forum on behalf of the steering committee of the EU project GSDP in cooperation with the EU projects EUNOIA, FOC, INSITE, MULTIPLEX, NESS, and the G3M Project

Second Open Global Systems Science Conference

Date: June 10–12, 2013
Brussels, Belgium

Logistics for participants with accommodation at the conference hotel
The Second Open Global Systems Science Conference

Date: June 10-12, 2013,
Venue: Hotel Stanhope, Brussels, Belgium

Organized by the Global Climate Forum on behalf of the steering committee of the EU project GSDP in cooperation with the EU projects EUNOIA, FOC, INSITE, MULTIPLEX, NESS, and the G3M project, funded by the German BMU.

The study of problems as diverse as global climate change and global financial crises is currently converging towards a new kind of research – Global Systems Science. GSS is emerging hand in hand with the substantial advances in Information and Communication Technologies (ICT). The use of computer models, digitized data, and global virtual networks are vital for GSS, in the same fashion that GSS can become a trigger for truly disruptive developments in policy-oriented and socially useful ICT.

The purpose of this conference is to discuss a possible research program for Global Systems Science and to further build up the community of practitioners from science, policy and civic society working on the pressing global challenges of our times.

This conference is conceived as a two day-event with a third day for interested sub-groups and workshops. It is embedded in an on-going conversation taking place in many settings, including www.global-systems-science.eu. The present program version may evolve further at the conference as a result of this conversation.

The conference is structured by plenary and break-out group sessions. It will develop from a format focused on plenary sessions on the first day towards break-out group targeted workshops on the third day. The second day will follow a hybrid format of plenary and break-out group sessions.

All participants are asked to actively contribute and participate in the different plenaries as well as the break-out group discussions. This second conference has attracted a significant number of remarkable researchers and practitioners from all over the world and therefore the opportunities for further networking and learning are unique. The event has been organized in a style that facilitates an open dialogue among all participants.

This event is part of a series of workshops carried out by the research network Global Systems Dynamics and Policy (www.gsdp.eu), and follows the First Open Global Systems Science Conference carried out in November 2012. It also constitutes part of a series of open GSS conferences which shall continue in the years to come.

We are working on elaborating an ambitious research agenda driven by policy needs and developing and using ICT to meet policy and societal challenges in close consultation with policy makers and citizens.

For contributions during the conference please actively contribute to the GSS blog (www.global-systems-science.eu). In case you would like to post but do not yet have access just send an email to web@globalclimateforum.org.

An outline of the single plenary and break-out sessions will be provided at the conference.
Day One:  
**Monday, June 10**

10.00 – 10.30  Registration and Coffee

**10.30 – 12.30  Plenary: A Research Program for Global Systems Science**  *(Room: Balmoral I-II)*

- **Introduction:** Jose Cotta, DG CONNECT, European Commission
- **Keynote Speech:** Alan AtKisson, Member of the EU Science and Technology Advisory Council/AtKisson Group
- **Panelists:**
  - Prof. Patrik Jansson, Chalmers University of Technology
  - Dr. J. David Tabara, Global Climate Forum, ICTA/Autonomous University of Barcelona
  - Prof. Sander van der Leeuw, Arizona State University

12.30 – 14.00  Lunch

**14.00 – 16.00  Plenary: EU-China and Global Climate Policy**  *(Room: Balmoral I-II)*

- **Chair:** Prof. Carlo Jaeger, Beijing Normal University and Global Climate Forum
- **Panelists:**
  - John Ashton, E3G London
  - Prof. Qian Ye, Beijing Normal University, P.R. China
  - Prof. Yongsheng Zhang, Development Research Council, P.R. China

16.00 – 16.30  Coffee Break

**16.30 – 18.30  Plenary: Global Systems Science and EU Policy**  *(Room: Balmoral I-II)*

- **Chair:** Robert Madelin, DG Connect European Commission
- **Panelists:**
  - Nick Banfield, DG ENV, European Commission
  - Prof. Anne Glover, Chief Scientific Adviser to the President of the European Commission
  - Prof. Julian Hunt, University College London
  - Prof. Carlo Jaeger, Beijing Normal University and Global Climate Forum
  - Andrea Tilche, DG RTD European Commission
  - Prof. Klaus Töpfer, Institute for Advanced Sustainability Studies Potsdam

19.00 – 21.30  Networking Dinner  *(Room: Balmoral II+III)*
Day Two: Tuesday, June 11

08.30 – 10.30 **Plenary: Sustainable Financial Markets** *(Room: Balmoral I-II)*
Chair: Prof. Guido Caldarelli, IMT Lucca / Dr. Stefano Battiston, ETH Zurich

Panelists:
Ivan Alves, European Central Bank
Denada Prifti, DG-MARKT, European Commission
Co-Pierre Georg, Deutsche Bundesbank
Prof. Klaus Töpfer, Institute for Advanced Sustainability Studies Potsdam
Peter Zimmerman, Bank of England

10.30 – 11.00 **Coffee Break**

11.00 – 13.00 **Parallel Workshops: Knowledge Technologies for GSS**

*Narratives and Public Stakeholder Engagement* *(Room: Wellington)*
Chair: Filippo Addarii, EUCLID Network

*Big Data Challenges and Models* *(Room: Tearoom)*
Chair: Dr. Ciro Cattuto, ISI Turin

*Formal Languages and Integrated Problem Solving procedures in GSS* *(Room: Boardroom)*
Chair: Prof. Patrik Jansson, Chalmers University of Technology

*Global Health and ICT* *(Room: Lancaster)*
Chair: Prof. Manfred Laubichler, Max Planck Institute for the History of Science

*High Performance Computing and Models* *(Room: 150 non liée opera)*
Chair: Prof. Michael Resch, HLRS, University of Stuttgart

13.00 – 14.00 **Networking Lunch**

14.00 – 16.00 **Parallel Workshops: Global Policy Challenges**

*Sustainable Financial Markets* *(Room: Wellington)*
Chair: Dr. Stefano Battiston, ETH Zurich / Dr. Antoine Mandel, University Paris 1

*Energy Systems* *(Room: 150 non liée opera)*
Chair: Prof. Julian Hunt, University College London

*Digital Anticipation and Global Understanding: Big Data, but what a future?*
Chairs: Prof. Diana Mangalagiu, Sciences Po/University of Oxford / Prof. David Tuckett, UCL *(Room: Boardroom)*

*Urban Systems and GSS* *(Room: Lancaster)*
Chair: Prof. Sander van der Leeuw, Arizona State University

16.00 – 16.30 **Coffee Break**

16.30 – 18.30 **Plenary: Global Systems Science – A Preliminary Synthesis** *(Room: Balmoral I-II)*
Chair: Dr. Ralph Dum, DG Connect, European Commission

Panelists:
Prof. Guido Caldarelli, IMT Lucca
Dr. Sarah Cornell, Stockholm Resilience Center
Prof. Carlo Jaeger, Beijing Normal University and Global Climate Forum
Prof. Vittorio Loretto, Sapienza University of Rome
Prof. Michael Resch, HLRS, University of Stuttgart

18.30 – 19.30 **Networking drinks**
Day Three: Wednesday, June 12

8.30 – 10.30  Parallel Workshops:

ICT and Global Systems (e)Governance (Room: Lancaster)
Chair: Prof. Chris Barrett, Virginia Tech

Sustainable Financial Markets (Room: Balmoral II)
Chair: Dr. Stefano Battiston, ETH Zurich

Digital Anticipation and Global Understanding: Big Data, but what a future?
Chairs: Prof. Diana Mangalagiu, Sciences Po and University of Oxford / Prof. David Tuckett, UCL
(Room: Wellington)

10.30 – 11.00  Coffee Break

11.00 – 13.00  Parallel Workshops:

Sustainable Financial Markets (Room: Balmoral II)
Continued

Digital Anticipation and Global Understanding: Big Data, but what a future?
Continued (Room: Wellington)

13.00 – 14.00  Lunch

14.00 – 16.00  Parallel Workshops:

Climate Policy (Room: Balmoral II)
Chair: Prof. Carlo Jaeger, Beijing Normal University and Global Climate Forum

Digital Anticipation and Global Understanding: Big Data, but what a future?
Continued (Room: Wellington)

16.00 – 16.30  Farewell Coffee

Information on the venue:
We are very grateful that this conference received much more registrations than originally envisaged. Thanks to all of you for your interest and continuing support! We tried to give as many people as possible access to the conference but are thereby confronted with the challenge of the limited size of the venues break-out group rooms.
We will try our best during the conference to accommodate all participants to the break-out session of their choice but kindly ask for your flexibility in case of space related limitations. Thank you very much for your understanding.

Size of break out-group rooms:

- 150 non liée: 25
- Balmoral II: 35
- Boardroom: 12+3
- Lancaster: 30
- Tearoom: 13
- Wellington: 30
How to get to the venue

Venue and accommodation
The conference will be held at the Stanhope Hotel, Brussels. Your accommodation is arranged at the same hotel.

Stanhope Hotel
› Rue du Commerce 9, B-1000 Brussels
   T  +32 2 506 91 11
   F  +32 2 512 17 08

Your reservation is provided under group booking name:
› Second Open Global Systems Science Conference

Wi-Fi
Free Wi-Fi will be provided at the check in, please ask for help at the reception in case of difficulties. For conference participants without accommodation Wi-Fi vouchers will be available at the conference registration desk.

By train
› The hotel is within walking distance from the Bruxelles-Luxembourg railway station with direct access to the European Parliament.
› There are trains to and from Brussels Airport, and a connection to the International station of Eurostar & Thalys.

By airport express bus
› The airport express bus stop is on the Luxembourg Square, which is a 2 minutes walk from the hotel.
By public transport

› Tram: 200 meters in front of the hotel
› Metro: The Trône metro station is just around the corner
› Bus: The nearest bus stop is just around the corner

Organizational Issues

Participation and reimbursement

› Registration is closed, since only a limited number of seats is available, registrations were handled on a first-come, first-serve basis.
› Costs and Reimbursement:
oo Participation is free of charge.
oo Unfortunately we are not able to cover travel and accommodation for conference participants, unless expressly agreed. However, registered participants get a reduced rate at the Stanhope Hotel of 175,00€ (single room/night, incl. breakfast). Accounts have to be settled at the check-out.

Contact

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About GSDP

*Global Systems Dynamics and Policy (GSDP)** is an FP7 funded coordination action to develop a research program and agenda for the study of global systems in an on-going dialogue with decision makers. The project started in October 2010 and will continue until October 2013. GSDP is organizing dialogues between developers and users of models and theories to support improved global governance.

GSDP will consolidate an international community of researchers in Global Systems Science (GSS) engaged in dialogues with decision-makers, and will generate a variety of research and consultancy projects in Europe and elsewhere. GSDP is coordinated by GCF.

About GCF

In 2001, a group of people representing European research institutes, NGOs, and businesses founded the European Climate Forum. Gradually, our network has expanded well beyond Europe, through linkages with America, China, Australia and other regions of the world. Therefore, in 2011 the members’ assembly decided to change the name of the organization to **Global Climate Forum (GCF)**.

*The Global Climate Forum initiates and performs innovative research on climate change and related global challenges.* We are an association of institutes, companies, NGOs and individual researchers. We work in the network of governments, corporations and social movements that has formed around the issue of climate change. We do this by embedding our research in long-term stakeholder dialogues. Our aim thereby is not necessarily to reach a consensus, but to develop a variety of well-considered opinions. Often, this is the best foundation for sound decisions. GCF’s goal is to clarify differences and produce analyses that summarize and advance our state of knowledge in critical areas. The forum cultivates a pluralistic exchange in which different points of view are freely expressed and debated, on a basis of mutual respect.