

Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

Venue: Sapienza University of Rome

Organized by Sapienza University of Rome - Interuniversity Research Centre on Sustainable Development (CIRPS), University of Tokyo- Integrated Research System for Sustainability Science (IR3S), Arizona State University School of Sustainability and United Nations University Institute for Sustainability and Peace (UNU-ISP).

BACKGROUND:

The local and global environmental deterioration, the extreme poverty and hunger of large parts of the world's population, the recent financial crisis are unequivocal symptoms of the urgent necessity for change. The role of science, research and education is fundamental.

Universities represent an important driver of change and have to collaborate with the different stakeholders which include the government, the private sector and civil society.

However the limits of traditional disciplinary approaches to the complex problems that threaten global sustainability are strong. Sustainability science has the ambitious aim of overcoming these limits and link the scientific understanding of human - nature systems with action to achieve sustainability.

The ICSS 2010 is the second edition of the International Conference on Sustainability Science. The first edition of ICSS has been promoted and organized by IR3S of the University of Tokyo in February 2009, as a follow up activity of the Sapporo Sustainability Declaration (SSD) of the G8 University Summit. However the strong international participation and interest of leading scholars of sustainability science reinforced the intention of giving continuity to the initiative. For this reason CIRPS, IR3S, ASU and UNU ISP have decided to organize the next edition of ICSS that will be hosted in Rome by CIRPS.

ICSS 2010 will focus on the theoretical and practical contribution for structuring the vibrant research arena of sustainability science. On the theoretical side, the attention will be brought to the epistemology, the rationale, the politics, the main challenges and the methodology of sustainability science. International scholars from the leading research institutions will be invited to contribute, debate and present their knowledge, methods and case studies on sustainability

A particular effort will be made to attain tangible outcomes that bring an advancement of the knowledge structuring of this field of investigation as well a consolidation and formalization of the Research Network.

For this reason this conference will focus not only on the theoretical framework but will also aim to strengthen the networking, organizational and extra scientific factors that facilitate the consolidation of sustainability science. Therefore, discussions will also focus on how to best overcome current barriers to the development of this new academic field in higher education











Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

programmes (Bachelor, Masters, PhD) and how to promote the diffusion of a sustainability culture among the next generations.

The involvement of the different stakeholders will be stimulated by two different panels with representatives from the private sector and civil society. Finally strong efforts will be made to strengthen the international network on sustainability science.

The leading research institutions will be invited to define common research agendas, joint initiatives and funding opportunities.

OBJECTIVES:

The Conference has six primary objectives:

- 1. Strengthen the framework of sustainability science and identify the epistemological pillars of sustainability science, as well as discuss the methodology aspects;
- 2. Present case studies of transdisciplinary research practices to address the complexity of human-nature interaction;
- 3. Review and discuss the current status of high education in sustainability science with regard to diverse visions, approaches, and methodologies used;
- 4. Discuss the possibilities and challenges of an effective collaboration civil society, industry, policy makers - academia for a transition towards sustainability;
- 5. Examine the central issues and challenges of global sustainability giving equal attention to the perspectives of the South;
- 6. Identify specific and concrete activities and instruments to consolidate the collaboration among research institutions and Networks.













Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

PROGRAMME:

June 23: Aula Magna, Sapienza University of Rome, piazzale Aldo Moro 5 Morning

9:00 - 09:15 Welcome remarks L. Frati, Rector, Sapienza University of Rome

09:15 - 09:35 Welcome remarks G. Letta, Under-Secretary of State (invited), A. Tajani, Vice-President of the European Commission (invited), R. Polverini, Governor Lazio Region

09:35 - 09:45 Message from General Director of **Ministry of Environment**

C. Clini, Director General, Ministry for the Environment Land and Sea, Italy

09:45 - 09:55 Opening remarks

V. Naso, ICSS2010 Chairman, CIRPS -Sapienza University of Rome

09:55 - 10:10 50 Key note speech from H. Komiyama, Mitsubishi Research Institute, former President of University of Tokyo

10:10 - 10:20 Video Message from Nobel Prize Laureate E. Ostrom (Indiana University and Arizona State University)

10:20 - 10:50 Key note speech from P. Koohafkan, Director of the Land and Water Division (NRL), Food and Agriculture Organization and Miguel A Altieri, University of California, Berkeley

10:50 - 11:20 Coffee Break

11:20 - 13:20 SESSION I: From complex thinking to transformational change: Epistemological and methodological challenges for sustainability science Chair: A. Wiek (Arizona State University-GIOS) Co-chair: F. Farioli (CIRPS-Sapienza Univ. of Rome)

Speakers: B. Ness (Lund University)

K.N. Farrell (Autonomous University of Barcelona) F. Brand (Swiss Federal Institute of Technology Zurich) P.Schweizer-Ries (Saarland University of Germany)

Afternoon

14:30 - 16:30 **SESSION II**: Solutionoriented/transdisciplinary research for sustainable development

Chair: P. Martens (Maastricht University)

Co-chair: S. Macchi (CIRPS -Sapienza University of Rome)

Speakers: D. Lang (Leuphana University of Luneburg)

P. Moll (University of Bonn)

C. Thomas (Aberystwyth University)

M. Swilling (Warwick University and University of Stellenbosch)

16:30 - 17:00 Coffee Break

17:00 - 19:00 SESSION III: Innovation for Sustainability Chair: K. Takeuchi (United Nations University, University of Tokyo)

Co-chair: K. Fukushi (University of Tokyo)

Speakers: S. Herath (United Nations University)

N. Heeren (Swiss Federal Institute of Technology Zurich)

V. Naso (CIRPS -Sapienza University of Rome)

C. Cecchi (Sapienza University of Rome)

19:30 **Buffet**

20:30 Classic Concert













Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

PROGRAMME:

June 24: Cloister Hall, Faculty of Engineering, Sapienza University of Rome, Via Eudossiana 18

Afternoon:	
Open Forum on Sustainability Science	
14:30 - 16:30 PANEL 1: Industry and Academia for a	
transition towards sustainability	
Chair: F. Orecchini (CIRPS-Sapienza University of	
Rome)	
Speakers: J.M. Coicaud (United Nations University)	
A. Brasili (Unicredit Group)	
L. Grimolizzi (Sapio)	
N. Di Giusto (Fiat)	
16:30 - 17:00 Coffee Break	
17:00 - 19:00 PANEL 2: People to Science to People:	
experiences from civil society	
Chair: S. Funtowicz (Joint Research Centre European	
Commission)	
Co-chair: A. Benessia (University of Torino)	
Speakers: C.P. Medina (Farmer-Scientist Partnership for	
pility science education Development, Incorporated)	
G. Bradshaw (Kerulos Center)	
E.F. Raez-Luna (Universidad Peruana Cayetano Heredia)	
F. Ferri (Associazione Culturale O'Thiasos TeatroNatura)	
V. Turrini (Associazione Culturale O'Thiasos	
TeatroNatura)	
19:00 Gala Dinner	



A.Wiek (Arizona State University-GIOS)











Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

PROGRAMME:

June 25: Cloister Hall, Faculty of Engineering, Sapienza University of Rome, Via Eudossiana 18

Morning	Afternoon	
9:00 - 9:30 Key note speech J. Jaeger (Sustainable	14:00 - 15:30 SESSION VI: (a): Synthesis and cross-	
Europe Research Institute)	cutting Issues	
	Chair: J.L. Buizer (Arizona State University)	
9:30 - 11:30 PHD SEMINAR	Co-Chair S. van Der Leeuw (Arizona State University)	
Chair: M. Yarime (University of Tokyo)	Speakers: M. Yarime (University of Tokyo)	
Co-chair: A. Wiek (Arizona State University-GIOS)	A.Wiek (Arizona State University-GIOS)	
11:30 - 12:00 Coffee Break	A. Cortese (Second Nature Education for Sustainability)	
	* / 12	
12:00 - 13:00 PhD Poster Session	15:30 - 16:00 Coffee Break	
13.30-14.00	16:00 - 17:30 SESSION VI (b): Future of	
ICSS-ESSG Networking Session	Sustainability Science	
	Chair: J.L. Buizer (Arizona State University)	
	Co-Chair: S. van Der Leeuw (Arizona State University)	
	Speakers: K. Hara (Osaka University);	
	R. Melnick (Arizona State University- GIOS);	
	F. Farioli (CIRPS- Sapienza University of Rome)	
	17:30 Open discussion	
	18:00 Announcement of next ICSS in Arizona and	
	closing remarks.	











Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

ADVISORY BOARD:

NAME	INSTITUTION	NAME	INSTITUTION
O. Aginam	United Nations University	P. Martens	(ICIS /Maastricht Univ.)
B. Allenby	(Arizona State University)	M. Munasinghe	(MIND)
K. Andersson	(Univ. of Colorado at Boulder)	M. Muthoo	(Roman Forum)
M. Audouin	(CSIR)	V.Naso	(CIRPS/Sapienza Univ.)
A. Basset	SItE (Società Ital. Ecologia)	B. Ness	(LUCSUS/ Lund Univ.)
G. Best	(REMBIO)	L. Olsson	(LUCSUS/ Lund Univ.)
J. Buizer	(Arizona State University-GIOS)	F.Orecchini	(CIRPS/Sapienza Univ.)
M. Burns	(CSIR)	G. Puglisi	(CNI UNESCO)
M. Crow	(Arizona State University)	A. Reenberg	(Univ. of Copenhagen)
R. Diaz-Chavez	(ICEPT/Imperial College)	J. I. dos Remedios Furtado	World Acad. Arts and Science
P. Edwards	(ETH/Swiss Federal Inst. Tech)	W.Sachs	(Wuppertal Institute)
C. Folke	(Stockholm Resilience Center)	S. Schaltegger	(Leuphana Uni. Of Lüneburg)
Gang Yu	(Tsinghua Univ)	J. H. Schwartz	World Acad. Arts and Science
M. Giampietro	(ICTA/UAB)	J. Segalas	Barcelona Technical Univ.
S.Grego	(CIRPS/Sapienza)	H. Srikanta	United Nations University
S. Irandoust	(Asian Institute of Technology)	A. Sumi	(I R3S/ Univ. of Tokyo)
H. Komiyama	(Mitsubishi Research Inst.)	K.Takeuchi	(IR3S// Univ. of Tokyo; UNU)
P. Koohafkan	(FAO)	B. Truffer	(Cirus)
D. Lang	(Leuphana Univ. of Lüneburg)		B\3
S. Macchi	CIRPS - Sapienza Univ. of Rome		
Mai Tran Nhuan	(Vietnam National University)		











Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net

www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE

STEERING COMMITTEE:

NAME	INSTITUTION	
J. Buizer	School of Sustainability Arizona State University	
A. Wiek		
F. Farioli		
V. Naso	CIRPS - Sapienza University of Rome	
F. Orecchini		
K. Fukushi		
K. Takeuchi	IR3S - The University of Tokyo	
M. Yarime		

SECRETARIAT OF THE STEERING COMMITTE

F. Farioli - Coordinator of the Secretariat / CIRPS - Sapienza University of Rome

J. Dell'Angelo, V. Valitutti, M.Galiè / CIRPS - Sapienza University of Rome

K. Fukushi, Y. Murayama, T. Shimizu / IR3S - The University of Tokyo

WEBSITE:

www.icss2010.net













Piazza S. Pietro in Vincoli Roma tel 328 9048259 Secretariat: scientific@icss2010.net www.icss2010.net



2° INTERNATIONAL CONFERENCE ON SUSTAINABILITY SCIENCE









