

**Center for International Development *at Harvard University*  
Sustainability Science Program**

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**Sustainability Science at Harvard: A Celebration**

Friday, 21 September 2007

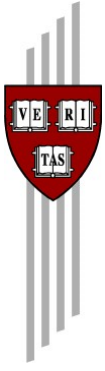
Bell Hall, Kennedy School of Government, Harvard University

This day-long session is intended to celebrate the growing body of sustainability science research and innovation being conducted at Harvard. In particular, it seeks to provide a university-wide forum for faculty and students engaged in such work to learn of one another's plans and activities. The celebration is hosted by the Sustainability Science Program at the Harvard's Center for International Development. We have organized the day around panel discussions focused on some of the grand challenges of sustainability in which Harvard faculty and fellows are conducting research. These include meeting needs for water, energy, health, and natural resources, plus improving performance on the cross-cutting challenges of linking knowledge with action and devising effective governance mechanisms to promote sustainability. We will close with a reception celebrating Harvard's new Giorgio Ruffolo Fellowships in Sustainability Science.

Sustainability science is an emerging field that seeks to bring scholarship to bear on the challenge of sustainable development: fostering shared prosperity and reducing poverty while protecting the environment. Sustainability Science is defined by the problems it addresses rather than the disciplines it employs. It thus draws as needed from multiple disciplines of the natural social, medical and engineering sciences, from the professions, and from the knowledge of practice. The Sustainability Science Program at Harvard <[www.cid.harvard.edu/sustsci/](http://www.cid.harvard.edu/sustsci/)> seeks to advance scientific understanding of coupled human-environment systems, to improve linkages between relevant research and policy communities, and to build capacity for promoting science-based sustainable development and prosperity.

Our celebration of sustainability science at Harvard is organized around an introductory overview followed by half a dozen hour long panel sessions and a final reception. Guests are welcome to attend one, some or all of the sessions. We have asked a faculty colleague in the Sustainability Science Program to chair each panel, and to invite one or two other faculty working on the topic to join her/him in the discussion. Also participating will be current fellows in the Sustainability Science Program. For each panel, the chair will introduce the discussion with a brief (~15 minute) introduction characterizing the problem of sustainable development to be addressed, outlining some of the most important research challenges, and describing some of his/her own ongoing work on the topic. Other faculty members on the panel will then summarize their own research (5-10 minutes each). Finally, selected fellows will present a brief (<5 minute) overview of their recent work and the questions that they hope to pursue at Harvard over the coming year. Time remaining in the session will be spent in discussion among the panelists. The time allotted to each panel clearly does not allow for any but the briefest introduction to the people and ideas involved in sustainability science research at Harvard. We do hope, however, that this compressed format -- backed by substantive material, bios and contact information available on the Program web site, the scheduled breaks in the day's program, and the reception at the end of the day -- will help interested members of the community to get a better feel for who is doing what in sustainability science around Harvard, and where follow-up discussions might be productive and fun.

Further information is available from Sustainability Science Program co-director Nancy Dickson ([nancy\\_dickson@harvard.edu](mailto:nancy_dickson@harvard.edu)) and on the Program web site (<http://www.cid.harvard.edu/sustsci/events/conferences/20070921.html>).



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**Program**

8:30-9:00 **Welcome and Overview of the Sustainability Science Program**

**William Clark**, Professor of International Science, Public Policy and Human Development, Kennedy School of Government and Co-Director, Sustainability Science Program [[slides](#)]

**Corrado Clini**, Director General, Italian Ministry for the Environment, Land and Sea and Senior Research Fellow, Center for International Development

**I. Problem Areas**

9:00-10:00 **Natural Resource Management**

**William Clark (chair)**, Professor of International Science, Public Policy and Human Development, Kennedy School of Government and Co-Director, Sustainability Science Program [[slides](#)]

**Noel (Missy) Holbrook**, Professor of Biology and Charles Bullard Professor of Forestry, Department of Organismic and Evolutionary Biology [[slides](#)]

**Pauline Peters**, Lecturer in Public Policy at the Kennedy School of Government and Department of Anthropology

**Godstime James**, Giorgio Ruffolo Doctoral Fellow in Sustainability Science and doctoral candidate, Interdisciplinary Doctoral Program, University of Missouri at Kansas City [[slides](#)]

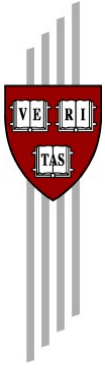
**Carolyn Kousky**, doctoral fellow, Sustainability Science Program and doctoral candidate, Public Policy Program, Kennedy School of Government, Harvard University

**Ann Laudati**, Giorgio Ruffolo Post-doctoral Fellow in Sustainability Science in the Sustainability Science Program [[slides](#)]

**Esther Mwangi**, Giorgio Ruffolo Post-doctoral Fellow in Sustainability Science and Ziff Environmental Fellow, Harvard University Center for the Environment

**Kate Emans Sims**, doctoral fellow, Sustainability Science Program and Environmental Economics Program and doctoral candidate, Program in Political Economy and Government, Kennedy School of Government, Economics Department, and Government Department, Harvard University [[slides](#)]

10:00-10:15 Break



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10:15-11:15 **Biofuels for Economic Development, Environment and Trade**

**Henry Lee (chair)**, Jassim M. Jaidah Director, Environment and Natural Resources Program, Kennedy School of Government [[slides](#)]

**Robert Lawrence**, Albert L. Williams Professor of International Trade and Investment, Kennedy School of Government

**Daniel Schrag**, Professor, Department of Earth and Planetary Sciences

**Daniele Cesano**, Giorgio Ruffolo Research Fellow in Sustainability [[slides](#)]

**Gloria Visconti**, Giorgio Ruffolo Fellow and student in the Mid-Career Master in Public Administration Program, Kennedy School of Government, Harvard University

11:15-12:15 **Global Health**

**Barry Bloom (chair)**, Dean, School of Public Health and Joan L. and Julius H. Jacobson Professor of Public Health [[slides](#)]

**David Canning**, Professor of Economics and International Health, Department of Population and International Health [[slides](#)]

**David Cutler**, Social Sciences Dean, Faculty of Arts and Sciences and Otto Eckstein Professor of Applied Economics, Economics Department and Kennedy School of Government

**Karen Grépin**, doctoral candidate, Health Policy Program, Graduate School of Arts and Sciences, Harvard University

**Nicole Szlezák**, doctoral fellow, Sustainability Science Program and doctoral candidate, Public Policy Program, Kennedy School of Government, Harvard University

**Suerie Moon**, pre-doctoral fellow, Sustainability Science Program and doctoral candidate, Public Policy Program, Kennedy School of Government, Harvard University [[slides](#)]

12:15-1:15 **Lunch break (on your own in the Kennedy School Forum or vicinity)**

1:15-2:15 **Water and Development**

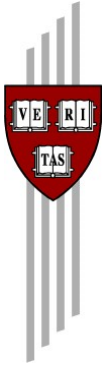
**Michael Kremer (chair)**, Gates Professor of Developing Countries and Professor of Economics, Department of Economics [[slides](#)]

**Nava Ashraf**, Assistant Professor, Harvard Business School [[slides](#)]

**Peter Rogers**, Gordon McKay Professor of Environmental Engineering and Professor of City Planning, School of Engineering and Applied Sciences

**Lorenzo Casaburi**, Giorgio Ruffolo Pre-doctoral Fellow in Sustainability Science and doctoral candidate, Economics Department, Harvard University [[slides](#)]

**Jessica Leino**, Giorgio Ruffolo Doctoral Fellow in Sustainability Science and doctoral candidate, Economics Department, University of California at Berkeley



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**II. Cross-Cutting Themes**

2:15-3:15     **Linking Knowledge with Action**

**Nancy Dickson (chair)**, Co-Director, Sustainability Science Program [[slides](#)]

**Robert Kates**, Senior Research Fellow, Kennedy School of Government [[slides](#)]

**Christopher Stone**, Daniel and Florence Guggenheim Professor of the Practice of Criminal Justice, Kennedy School of Government

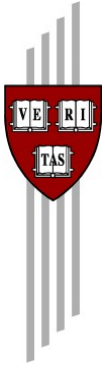
**Michael Burns**, Giorgio Ruffolo Research Fellow and project manager, Sustainability Science Programme, South Africa's Council for Scientific and Industrial Research [[slides](#)]

**Fred Carden**, Research Fellow, Sustainability Science Program and Director, Evaluation Unit, International Development Research Centre

**Kira Matus**, Giorgio Ruffolo Doctoral Fellow in Sustainability Science and doctoral candidate, Public Policy Program, Kennedy School of Government, Harvard University

**Elizabeth McNie**, doctoral fellow, Sustainability Science Program and doctoral candidate, Environmental Studies Program, University of Colorado at Boulder

3:15-3:30     Break



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3:30-4:30      **Governance**

**Merilee Grindle (chair)**, Professor of International Development, Kennedy School of Government and Director, David Rockefeller Center for Latin American Studies

**Calestous Juma**, Professor of the Practice of International Development, Kennedy School of Government

**Krister Andersson**, Giorgio Ruffolo Research Fellow in Sustainability Science and assistant professor in environmental policy, University of Colorado at Boulder

**Marcel Bursztyn**, Giorgio Ruffolo Research Fellow in Sustainability Science, Fulbright Visiting Senior Scholar, and Director, Center for Sustainable Development, University of Brasilia [[slides](#)]

**Adam Henry**, Giorgio Ruffolo Doctoral Fellow in Sustainability Science and doctoral candidate, Institute of Transportation Studies, University of California at Davis

4:30-6:00      **Reception and Ceremony honoring the Giorgio Ruffolo Fellowships in Sustainability Science**

**Mary Jo Bane**, Academic Dean, Kennedy School of Government

**Corrado Clini**, Director General, Italian Ministry for the Environment, Land and Sea and Senior Research Fellow, Center for International Development

**Giorgio Ruffolo**, Founding Minister, Italian Ministry of the Environment [[speech](#)]