Water for Two Worlds

Can space research contribute to the achievement of the Millennium Development Goals on Earth?

January 16-17, 2004

Meeting jointly organized by the United Nations Development Programme, UNDP, the Earth Institute at Columbia University, NY and the UN Millennium Project Task Force on Water and Sanitation.

The objective of the event is to define areas of possible future collaboration between researcher on Space Life Science and professionals addressing the water and sanitation needs of poor people living in urban and rural areas. The meeting is the first event where the two research communities meet and it has an informal character.

Venue:

Schapiro Hall, Sindebande Room 414

Directions from main campus gate at 116th Street and Broadway: enter campus and walk north towards Low Library. Continue up steps and around Low on east side (right). Follow long pathway north. Schapiro Center is on your left as you approach the Engineering Center (Mudd Building). Sindebande Room 414 is on your right as you walk through the entranceway, adjacent to Davis Auditorium.

Link to Columbia University map:
http://www.columbia.edu/cu/aboutcolumbia/maps/sectionD.html

If you need further information about logistics, hotels etc. please contact:

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Agenda

Friday, 16 January, 2004

0900 - 0915
Upmanu Lall:
Welcome on behalf of Columbia’s Earth and Environmental Engineering Department.

Introductions

0915 - 1045
Roberto Lenton:
Brief overview of the MDGs and the task force’s analyses and interim conclusions

Ingvar Andersson / Ralf Otterpohl:
Challenges of technological innovation in water and sanitation
- What has worked and what hasn’t
- New approaches required?
- Some emerging terrestrial initiatives on R&D for water and sanitation reuse and recycling

1045 - 1100
coffee break

1100 - 1200
John Feighery:
NASA’s Advanced Life Support program. What is available to date? Its relevance to the MDGs

1200 - 1300
Didier Schmitt, ESA et al:
MELISSA and other ESA relevant research programmes. What is available to date?
- water recycling systems
- waste treatment and reutilization
- food production
- microbial contamination control and monitoring

1300 - 1400
lunch

1400 - 1430
Constance Adams:
How can advanced technologies be designed into daily life?

1430 - 1515
David Martin:
Technology Transfer – from North to South, from space to terrestrial use

1515 - 1545
Jackie Scanlon (?)
Getting the Word Out, building a broader base for support

1545 - 1600
coffee break

1600 - 1730
General Discussion on How to effect the Transfer:
1. Physical Challenges  
   (e.g. redesigning, simplifying systems and methods)

2. Economic / Financial Challenges  
   (what will it cost to do this and who will pay?)

3. Legal Challenges  
   (e.g. overcoming the barriers of technology transfer, export control and proprietary technology)

1730 - 1800 Setting an agenda for future collaboration

Saturday, 17 January 2004  (Venue: UNDP Building 304 East 45th Street, 10th floor, Norway Room)

1000 - 1300 Off-line or bilateral discussions between participants on topics of mutual interest

Information about the participating organizations / initiatives

The Millennium Development Goals  
UN Millennium Project  
UNDP  
UNDP Water Programme  
IRI  
IWA  
IWA, Specialist Group on Ecological Sanitation  
NASA  
NASA, Johnson Space Center, Advanced Life Support  
ESA, Advanced Life Support  
Space Architecture  
synthesis international USA  
the mothership institute  
M-CAM  
Earthship movement

http://www.undp.org/mdg  
http://www.unmillenniumproject.org/  
http://www.undp.org  
http://www.undp.org/water  
http://iri.columbia.edu  
http://www.iwahq.org.uk/  
http://www.iwahq.org.uk  
http://www.nasa.gov  
http://advlifesupport.jsc.nasa.gov/  
http://www.estec.esa.nl/ecls/default.html  
http://www.spacearchitect.org  
http://www.synthesis-intl.com  
http://www.mother-ship.org;  
http://www.mothership.cc  
http://www.m-cam.com  
http://www-earthship.org
List of Participants:

Roberto Lenton, Senior Advisor for International Programs, International Research Institute for Climate Prediction (IRI) of the Earth Institute at Columbia University, NY and Co-Chair of the Millennium Project Task Force on Water and Sanitation.

Upmanu Lall, Professor and Dept. Chairman, Earth and Environmental Engineering, Columbia University

Albert Wright, Professor and Co-Chair of the Millennium Project Task Force on Water and Sanitation.

Constance Adams, Space Architect, Synthesis International, Houston,

John Feighery, NASA, Johnson Space Center

David Martin, CEO M-CAM, Charlottesville, Virginia

Jackie Scanlon. Author writing for WIRED, ID and other magazines (not yet confirmed)

Didier Schmitt, Head of Life Science Unit, Human Spaceflight, European Space Agency, ESTEC, Noordwijk

Christophe Lasseur, MELISSA project manager at ESTEC, European Space Agency, Noordwijk

Aurelien Pisseloup, Health and Safety Technology Applications Coordinator, European Space Agency, ESTEC, MSM-GAL, Noordwijk

Ralf Otterpohl, Professor, Technical University of Hamburg and Chair of International Water Association’s (IWA) Specialist Group on Ecological Sanitation

Ingvar Andersson, Senior Water Policy Adviser, UNDP

Lara Yacob, Program Officer, UNDP