

WATER AND HEALTH IN AFRICA

Third Annual Conference of the African Science Academy Development Initiative Disease Control Priorities in Developing Countries (DCP-2)

Dakar, Senegal 12-14 November 2007
Venue: Hotel Ngor Diarama

Agenda

Conference Objectives

To use policy aspects of local, national, and regional water and health issues to:

- *Illustrate the growing need for African academies to play a service and evidence-for-policy generating role*
 - *Engage scientists in a role of generating evidence for policy (i.e., engineers, quantitative decision scientists, behavioral and social scientists, physical scientists, medical/public health experts, biologists, environmental scientists, and agricultural scientists)*
 - *Highlight benefits of policymaking using a solid scientific, evidentiary base*
 - *Advance understanding of the unique advising characteristics and processes of a science academy*
 - *Highlight unique role of DCP-2 project in advising government and policymakers on issues of water and health*
 - *Identify key questions and problems pertinent to water and health in Africa that could be addressed by rigorous academy and research advisory processes that draw from the scientific, public health, engineering, and policy making experts*
 - *Develop proposals for multidisciplinary Academy convening activities*
 - *Build support for African academic and evidence-based advisory functions among governmental and non-governmental bodies interested in policy development and implementation*
-

Sunday, November 11

| | |
|--------------------|--------------------------------|
| 8:00 – 6:30 | Closed Session Meetings |
| 2:30-3:30 | Early Registration |
| 6:30 – 8:30 | Welcome Cocktail |

Monday, November 12

SESSION 1

OPENING CEREMONIES

Session Objectives: To welcome conference participants to Senegal, orient them to ASADI and DCP-2, and open the conference by local academy and governmental leaders

8:00 – 9:00

Registration

9:00 – 12:00

Opening Ceremony

- Welcoming Remarks (15 minutes)
*Professor Souleymane Niang , President
l'Academie Nationale des Sciences et Techniques du Sénégal*
- Introduction to ASADI and connections to DCP-2 (10 minutes)
*Dr. Patrick Kelley, Director, Boards on Global Health and African
Science Academy Development, The National Academies*
- Transition from ASADI II to ASADI III (10 minutes)
*Dr. David Mbah, ASADI II Coordinator
Cameroon Academy of Sciences*
- Introduction of Keynote Speaker, (10 minutes)
*Professor Doudou Ba, ASADI III General Coordinator
l'Academie Nationale des Sciences et Techniques du Sénégal*
- Speech by Keynote Speaker (30 minutes)
*Dr. Narciso Matos, Executive Director
Foundation for Community Development, Mozambique*
- Remarks by Major Sponsors (45 minutes)

Dr. Jo Ivey Boufford, The National Academies, USA
Dr. Innocent Butare or Howard Alper (TBD), International Development Research Center
Professor Howard Alper, Royal Society of Canada
Dr. Philip Musgrove, The World bank/DCP2
Mr. Jay Smith, US Embassy

- Official opening speech by top Senegalese official (TBD)

12:00 – 1:30

Lunch

SESSION 2

THEME 1: ACCESS TO WATER

Session Objectives: To receive an orientation to the engineering, social, health, and economic aspects of providing sufficient access to water that is safe

Moderator:

*Engineer Cecelia Olajide, General Manager
Ogun State Water Corporation, Nigeria*

Reporter:

1:30 – 1:45

Opening Talk - Access to water

*Engineer Cecilia Olajide, General Manager
Ogun State Water Corporation, Nigeria*

1:45 – 2:00

Talk #1: Urban and Rural Water Provision

*Engineer Benson Ajisegiri, Coordinator
National Urban Water Sector Project, Nigeria*

2:00-2:15

Talk #2: Access to Water for Sanitation

*Engineer Kasingye Kyamugambi, Senior Engineer
Ministry of Water and Environment, Uganda*

2:15-2:30

Talk #3: Water Procurement: Gender, Behavior, and Cultural Elements

*Professor Issiaka P. Laleye,
University Cheikh Anta Diop, Senegal*

2:30 – 3:15

Questions/Answers/Discussion

3:15 – 3:45

Break

3:45 – 4:00

Talk #4: DCP2 Talk: How to Value Investing in Water for Health Purposes

Dr. Philip Musgrove, Editor of the Disease Control Priorities Project (DCP-2)
Deputy Editor of Health Affairs, Project Hope, USA

4:00 – 4:15

Questions/Answers/Discussion

4:15 – 5:15

Moderated Policy Makers Roundtable

Moderator:

Dr. Madio Fall,
World Bank, Senegal

Reporter:

5:30

Adjourn for the day

Tuesday, November 13

SESSION 3

THEME 2: WATER AND DISEASE

Session Objectives: To receive an orientation to the clinical, public health, social science, and economic aspects of key water-related diseases

Moderator:

Dr. James M. Hughes, Director, Emory Program in Global Infectious Diseases and Emory Center for Global Safe Water

General Reporter:

Presentations Reporter:

8:30 – 8:45

Opening Talk, Theme #2, Water and Disease

Dr. James M. Hughes, Director, Emory Program in Global Infectious Diseases and Emory Center for Global Safe Water

8:45 – 9:00

Talk #1: Malaria as a Key Disease Control Priority – DCP-2

Dr. Joel Breman, Senior Scientific Adviser, Fogarty International Center of the National Institutes of Health; Co-Managing Editor, Disease Control Priorities Project

9:00 – 9:15

Talk #2: Diarrheal Disease as a Key Disease Control Priority

Dr. Jerry Keusch, Associate Provost for Global Health, Boston University Associate Dean for Global Health, Boston University School of Public Health

| | |
|----------------------|---|
| 9:15 – 9:45 | Questions/Answers/Discussion |
| 9:45 – 10:15 | Break |
| 10:15-10:30 | <p>Talk #3: Chemical Contamination in Drinking Water <i>Dr. Arup Sen Gupta, P.C. Rossin Professor</i> <i>Department of Civil and Environmental Engineering</i> <i>Department of Chemical Engineering, Lehigh University, USA</i></p> |
| 10:30-10:45 | <p>Talk #4: Health Effects of Exposure to Contaminants <i>Professor Wilhelm O K Grabow, Emeritus Professor</i> <i>Department of Microbiology and Plant Pathology</i> <i>University of Pretoria, South Africa</i></p> |
| 10:45 – 11:15 | Questions/answers/discussion |
| 11:15 -12:30 | <p>Moderated Policymakers Roundtable</p> <p>Moderator: <i>Professor Benson Estambale, Director</i> <i>University of Nairobi Institute for Tropical and Infectious Diseases</i></p> <p>Reporter:</p> |
| 12:30-1:00 | <p>Breakout Group Description, Objectives, Direction, Group Assignments</p> <ul style="list-style-type: none"> • Establish the content and focus of a statement of task for an academy project • Select an appropriate Academy vehicle for the statement of task |
| 12:45 – 2:00 | Lunch |

SESSION 4 BREAKOUT GROUP DISCUSSION A

Session 4 Goal 1: Establish the content and focus of the statement of task for an Academy project on respective Theme

Session 4 Goal 2: Select the appropriate Academy vehicle for the statement of task developed in Goal 1.

- Participants to be grouped into groups with a mix of:
 - Scientists from several disciplines
 - Policy makers from several countries
 - Donors (USNAS board, IDRC, World Bank, Gates, etc.)

- Academy members
 - Academy staff (US & ASADI)
 - Guests and speakers
- Assign a academy representative to present the workplan to the plenary group

2:00- 4:30

Concurrent Breakout Group Sessions for:

- **Theme 1 - ACCESS TO WATER**
 - Discussion Leader Group 1
 - Discussion Leader Group 2
*Dr. Ok Pannenburg, Senior Health Advisor
The World Bank, USA*
- **Theme 2 - WATER AND DISEASE**
 - Discussion Leader Group 3
 - Discussion Leader Group 4

4:30-5:00

Break

5:00 – 6:00

Breakout Group Reporting of Results

6:00

Adjourn for day

7:30

TWAS Dinner Lecture - TERROU BI
Route Corniche Ouest Dakar
Tél : (221) 822 42 27
Cuisine de l'océan

Key challenges and priorities for achieving the MDG'S on Water and Sanitation

Speaker:

*Professor Salif Diop, Senior Environmental Affairs Officer
United Nations Environment Programme (UNEP), Kenya*

Wednesday, November 14

SESSION 5

THEME 3: WATER DISASTERS AND CATASTROPHES

Session Objectives: To hear from experts about emerging and pressing issues related to water disasters and catastrophes

- Session should identify:
 - The problem statement for water-related disasters and catastrophes
 - Needs for policy or program action: what should government or policy makers do to address the problem?

Moderator:

*William Anderson, Associate Executive Director
Division on Earth and Life Studies; Director Natural Disasters
Roundtable, The National Academies*

Session Chair/Timekeeper:

General Reporter:

Presentations Reporter:

8:30 – 8:45

Opening Talk, Theme 3, Water Disasters and Catastrophes

*William Anderson, Associate Executive Director
Division on Earth and Life Studies; Director Natural Disasters
Roundtable, The National Academies*

8:45 – 9:00

Talk #1: Case Study: 2000 Flood in South Africa, Botswana

*Dr. Casimiro De Abreu,
National Institute for Disaster Management, Mozambique*

9:00 – 9:15

Talk #2: Actions/Responses to flood or drought

*Professor George O. Khroda, Permanent Secretary
Ministry of Water, Kenya*

9:15 – 9:30

Talk #3: Vulnerable Populations of Water-Related Catastrophes

*Mr. Ian Moise, Water, Sanitation, and Hygiene (WASH) Advisor
Office of U.S. Foreign Disaster Assistance, USAID, USA*

9:30 – 10:30

Questions/Answers/Discussion

10:30 – 11:00

Break

11:00 – 12:00

Moderated Policymakers Roundtable

Moderator:

| | |
|---------------------|---|
| | Reporter: |
| 12:00 – 1:00 | Lunch |
| SESSION 6 | THEME 4: WATER RESOURCES MANAGEMENT AND GOVERNANCE |
| | Moderator: <i>Professor Salif Diop, Senior Environmental Affairs Officer United Nations Environment Programme (UNEP), Kenya</i> |
| | Session Chair/Timekeeper: |
| | General Reporter: |
| | Session Objectives: To hear from experts about emerging and pressing issues related to water disasters and catastrophes |
| | <ul style="list-style-type: none"> • Session should identify: <ul style="list-style-type: none"> ○ The problem statement for the theme and each sub-theme: what are the pressing problems? ○ Needs for policy or program action: what should government or policy makers do to address the problem? ○ Ways that science, medicine, or engineering can address the policy needs to solve the stated problem |
| 1:00-1:15 | Opening Talk, Theme 4, Water Resources Management and Governance <i>Professor Salif Diop, Senior Environmental Affairs Officer United Nations Environment Programme (UNEP), Kenya</i> |
| 1:15 – 1:30 | Talk #1: Water Resources Development in Africa <i>Dr. Dogara Bashir, Director National Water Research Institute, Kaduna Nigeria</i> |
| 1:30 – 1:45 | Talk #2: Water Infrastructure, Irrigation, and Financing <i>Dr. Eiman Karar, Director (tentative) Water Research Commission, South Africa</i> |
| 1:45 – 2:15 | Questions/Answers/Discussion |
| 2:15 – 3:00 | Moderated Policymakers Roundtable |
| | Moderator: <i>Prof Ould Mohamed Merzouk, High Commissioner Organisation de mise en valeur du fleuve Senegal (OMVS, Senegal)</i> |

Reporter:

SESSION 7 BREAKOUT GROUP DISCUSSION B

Session 7 Goal 1: Establish the content and focus of the statement of task for an Academy project on respective Theme

Session 7 Goal 2: Select the appropriate Academy vehicle for the statement of task developed in Goal 1.

- Participants to be grouped into groups with a mix of:
 - Scientists from several disciplines
 - Policy makers from several countries
 - Donors (USNAS board, IDRC, World Bank, Gates, etc.)
 - Academy members
 - Academy staff (US & ASADI)
 - Guests and speakers
- Assign a academy representative to present the workplan to the plenary group

3:15 – 5:15

Concurrent Breakout Group Sessions for:

- **Theme 3 - WATER DISASTERS AND CATASTROPHES**

- Discussion Leader Group 5
- Discussion Leader Group 6

**Theme 4 - WATER RESOURCES MANAGEMENT
AND GOVERNANCE**

- Discussion Leader Group 7
- Discussion Leader Group 8

5:15 - 6:00

Breakout Group Reporting and Results

6:00

Adjourn for day

Thursday, November 15

8:30 – 4:30

ASADI III Joint Learning Session: Closed Session