



## CTA/NPCA Week: Innovations for Sustainable Futures in Agriculture

### SEMINAR PROGRAMME

Website: [www.cta.int](http://www.cta.int)

Email: [ctaseminar2010@cta.int](mailto:ctaseminar2010@cta.int)

Seminar website: <http://annualseminar2010.cta.int>



## 1. Background

In much of the ACP, agriculture remains the key option for spurring growth, overcoming poverty, and enhancing food security. Despite this importance, however, agricultural growth in the region has been highly variable. There is need to increase agricultural productivity and growth in order to stimulate growth in other parts of the economy. This will require, not only addressing the constraints besetting the sector, but also responding to emerging challenges such as climate variability and change.

Climate variability and change pose key challenges to agricultural producers who face difficulties coping with short term dry spells and longer term droughts. Increased investments in integrated water management will be essential to ensure access to an affordable, reliable water supply as an important first step in enabling many poor, small-scale farmers in the region to increase agricultural productivity and enhance their livelihoods. Innovative information and knowledge support systems will be needed to capture and disseminate synergies between improved technologies, integrated water management, institutional support, and human capital development - all linked to improved markets.

The broad objective of this seminar is to bring together policy makers, agricultural water experts, policy analysts, private sector, media, civil society, development partners and practitioners, on a common platform, to discuss strategies for developing comprehensive information and knowledge support systems in integrated water management that will serve as a decision-support-tool for enhancing agricultural investment, productivity and growth with specific reference to ACP countries.

## 2. Specific Objectives

In organising this seminar, CTA seeks to understand three fundamental questions: (i) What are the key information and knowledge needs out there in terms of more efficient water resource use for improved agricultural productivity and growth in ACP countries? (ii) Where is the knowledge and how can this best be shared to improve investments in integrated water management? (iii) What are the technical and policy gaps and how can CTA best contribute? The specific objectives of the seminar will, thus, be to:

- share experiences and information on best practices in integrated water management in the various agro-ecological zones of the ACP countries
- identify information and communication needs & requirements and propose guidelines for the implementation of integrated water management activities and programmes
- encourage participating organisations to adopt improved knowledge on integrated water management communication methods and strategies for reaching out to their clients
- mobilize the stakeholders to advocate for increased public investments for sustainable water resources management

## 3. Seminar Themes

The seminar will have four main themes:

1. **Water availability and Access** - focusing on the growing vulnerability of communities as they face increasing physical (where water resources have been over-allocated) and economic (where access to water is difficult because of lack of investment) water scarcity
2. **Public Policy and Investment** - focusing on the critical need for increased public investment in a wide range of agricultural water management options in order increase availability and access to for agricultural production, as well as, a conducive policy framework to ensure increased productivity and growth
3. **Water and Society** - focusing on water governance and water sector reform issues to ensure more efficient, equitable and sustainable use by all users, as well as, the interrelationship between the levels of investment in water management, the productivity growth rates; and the levels of poverty and hunger.
4. **Knowledge Support Systems** - as a cross-cutting theme focusing on information and knowledge support systems in Integrated Water Management cutting across all the other themes as an evidence-based decision-support-tool to inform all policy and investment decisions

Each of the themes will be further sub-divided into sub-themes and leading experts and practitioners will present seminar papers and case studies per sub-theme during the seminar.

#### **4. Participants**

The conference will be attended by over 150 specialists in integrated water management and related fields: NGOs, producer organisations, rural communities, researchers, development organisations, decision-makers, funding agencies, communication and media specialists, government development organisations, from Central, East, Southern and West, and Africa, the Caribbean and the Pacific,) institutions from the European Union (EU) countries and regional and international organisations.

## 5. Seminar Programme

### Day One: Monday 22, November 2010

Time	Session Details	Session Facilitation
08.30-10.00	Participant Registration	Seminar Secretariat
10.00-10.30	COFFEE BREAK	
10.30-12.00	<p><b>Participant Registration (cont'd.)</b></p> <p><b>Briefing SESSION for CTA Annual Seminar Team:</b></p> <ul style="list-style-type: none"> <li>Briefing session for Session Chairs and Facilitators of Plenary session, Members of the Steering Committee, Leaders of the working groups, Moderators and Note takers of the working groups</li> </ul>	<p>Seminar Secretariat</p> <p><b>CTA Team &amp; Seminar Steering Committee</b></p>
12.30-14.30	LUNCH BREAK	
16.00-18.00	<p><b>SESSION 1: Official Opening Ceremony</b></p> <ul style="list-style-type: none"> <li>A joint Opening session for all 4 Events of the CTA week</li> </ul> <p><b>16.00-16.50</b></p> <p><b>Official Opening Ceremony</b></p> <ul style="list-style-type: none"> <li>Master of Ceremonies, Dr Andrew Kanyegirire, Head of Communications, NEPAD Planning and Coordinating Agency (NPCA)</li> <li>Welcome remarks: Dr Ibrahim Mayaki, CEO, NEPAD/NPCA, South Africa</li> <li>Opening remarks: Mr Michael Hailu, Director, CTA, The Netherlands</li> <li>Greetings from the Caribbean : Ms Avril Alexander, Regional Coordinator, Global Water Partnership - Caribbean (GWP-C) Secretariat, Trinidad and Tobago</li> <li>Greetings from the Pacific: Ms Dorothy Wickham, Managing Director, One News Television Limited, Honiara, Solomon Islands</li> </ul> <p><b>16.50-17.10</b></p> <p><b>Keynote Address I:</b> The Dual Challenge: Doubling yields in the face of water scarcity and climate change</p> <ul style="list-style-type: none"> <li>An overview of the current agriculture water trends in the ACP region, as well as, the expected impacts of climate change and variability on agricultural systems - and the need for integrated water management responses to mitigate these impacts and promote climate change adaptation.</li> </ul> <p><b>Dr. David Molden</b>, Deputy Director, General, International Water Management Institute (IWMI), Sri Lanka.</p> <p><b>17.10-17.30</b></p> <p><b>Keynote Address II:</b> Science, Indigenous Knowledge &amp; Innovation: Challenges for Development</p> <ul style="list-style-type: none"> <li>An overview of the historical and current interaction between indigenous knowledge, science and innovation and the main factors limiting the rational use of chemical compounds in plants especially in agriculture.</li> <li>African plant species have a strong potential and the wide scope of possible applications in agriculture will be shared with some examples.</li> <li>A model that could increase the rational use of plant natural products to the benefit of the people in Africa will be proposed.</li> </ul> <p><b>Prof. J. N. Eloff</b>, Leader Phytomedicine Programme, University</p>	

	17.30-17.50	of Pretoria, South Africa
	17.50-18.00	<b>Feature Address and Launch of CTA/NPCA Week:</b> Hon. Minister of Science and Technology, South Africa
18.00-18.30	18.00-18.30	<b>Vote of Thanks:</b> Mr Fred Kalibwani, IWMI, Southern Africa
	18.00-18.30	<b>Press Conference</b>
18.30 -20.00		<b>Cocktail</b>

## Day 2: Tuesday 23, November 2010

### 08.00-10.00 Session 2: Plenary Presentation of Four Seminar Papers

#### Session Chair

- Each seminar paper presentation will be 20 minutes followed by 10 minutes of Questions and Comments moderated by the Session Chair

**Dr. Pius Chilonda**  
Head, IWMI  
Southern Africa

**08.00-08.15** Overview of Objectives and the Structure of the seminar

- Mr. André Vugayabagabo**, CTA, The Netherlands; **Mr. Fred Kalibwani**, IWMI, Southern Africa

**08.15-08.35** **Seminar Paper 1:** Strategies for increasing agricultural water productivity in physically and economically water-scarce regions. The paper will discuss

- Strategies for reallocating water and its benefits across uses as well strategies for more efficient water use – more crop per drop & more value per drop
- the most promising combinations of small-scale water storage technologies for specific agro-ecological zones and ways of out-scaling them

**Mr. Maimbo Malesu**, World Agro-forestry Centre (ICRAF), Nairobi, Kenya

**08.35-08.55** **Seminar Paper 2:** Current and future responses to drivers of change for water availability and use for agriculture. **The paper will discuss:**

- Key drivers that will impact future water availability and use for agriculture in the ACP countries,
- Examples of current responses in various countries and any other adaptive strategies to climate variability and change that will also help in reducing pressure on water systems.

**Prof. Elijah Biamah**, University of Nairobi, Kenya

**08.55-09.15** **Seminar Paper 3:** Integrated rainwater harvesting and management systems for sustainable development in semi-arid environments: The Case of Kenya. **This paper will discuss:**

- Integrated rainwater harvesting and management (RHM) systems and complementary technologies that can help smallholder farmers increase and diversify crop production, and hence shift from subsistence to commercial agriculture
- Innovations in integrated RHM systems and complementary technology as a climate change adaptation strategy for smallholder farmers

**Dr Stephen Ngigi**, Greater Horn of Africa Rainwater Partnership (GHARP)/Kenya Rainwater Association (KRA), Kenya

**09.15-09.35** **Seminar Paper 4:** Economic and environmental related aspects of water storage in Sub-Saharan Africa. This paper will discuss:

- The challenges associated with Cost-Benefit like analyses for the identification of optimal solutions in water storage
- A set of qualitative and quantitative attributes related to economic efficiency and environmental impact criteria for the improvement of decision making in selecting water storage solutions

**Dr. Stefanos Xenarios**, International Water Management Institute, East Africa & Nile Basin Office, Ethiopia

10.00-10.30

**COFFEE BREAK**

10.30-12.30

**SESSION 3: Working groups and case study presentations**

- Participants will be divided into four working groups. The participants will remain in the same working groups all through the seminar
- Each working group will have 4-5 case study presentations and 4-5 Poster Presentations (spread over the 3 seminar days)
- Each working group will discuss the issues raised in the related seminar paper presentation as well as issues emerging from the case studies and poster presentations

10.30-11.00

- Plenary Presentation of the results of the e-discussion and Introduction of Working Group sessions , **Mr. George de Gooijer** - Independent Consultant, Sweden

11.00-12.30

<b>Working Group 1</b>	<b>Working Group 2</b>	<b>Working Group 3</b>	<b>Working Group 4</b>
Water scarcity adaptation strategies for vulnerable rural communities Case Studies and discussions <b>Dr. Stefan Thiemann</b> Consultant, Switzerland	Water storage for climate change adaptation (recovering rainwater) Case Studies and discussions <b>Mr. Maimbo Malesu</b> ICRAF, Kenya <b>Dr. Stephen Ngigi</b> RWH	Water governance and water sector reform  Case Studies and discussions <b>Mrs Avril Alexander</b> GWP - Caribbean, Trinidad and Tobago <b>Dr. Leslie Simpson</b> CARDI, Jamaica	Equitable distribution of water rights and access (water, poverty and gender)  Case Studies and discussions <b>Dr. Gert Jan Veldwisch</b> WUR, The Netherlands

12.30-14.00

**LUNCH BREAK**

14.00-15.30

**SESSION 3 cont'd.: Working group discussions and case study presentations continued**

14.00-15.30

<b>Working Group 1</b>	<b>Working Group 2</b>	<b>Working Group 3</b>	<b>Working Group 4</b>
Water scarcity adaptation strategies for vulnerable rural communities (cont'd.)	Water storage for climate change adaptation (recovering rainwater) (cont'd.)	Water governance and water sector reform (cont'd.)	Equitable distribution of water rights and access (water, poverty and gender) (cont'd.)

15.00-15.30

**COFFEE BREAK**

15.30-17.30

**SESSION 4: Panel session on Public Policy and Investment**

- Increased public investment in a wide range of agricultural water management options in order increase availability and access to water for agricultural production, as well as, a conducive policy environment to support increased investment and growth

**Session Chair**  
Mr. Michael Hailu,  
CTA

**Expert Panel**

1. Prof. Aggrey Ambali ,  
NEPAD /NPCA
2. Ms Nobu Ngele,  
Department Water Affairs,  
Forestry and Fisheries

- (DWAFF),  
South Africa,
- 3. Mr. Ishmael  
Sunga  
(SACAU)
- 4. Africa  
Development  
Bank (AfDB)
- 5. Dr. David  
Molden, IWMI
- 6. Dr. Andrew  
Sanewe,  
Water  
Research  
Commission  
(WRC) of  
South Africa
- 7. Mr. Pieter  
Waalwijk,  
World Bank,  
Malawi

**15.30-16.00 Seminar Paper 5:** Increasing Water Accessibility: Strategic Investment and Policy Priorities in Agricultural Water Management. The paper will respond to 5 key questions:

**Dr. Woldeab Teshome**, Director of Regional and Local development studies, Addis Ababa University

**16.00-16.45 Panel Response and Presentation (and facilitated Q&A)**

1. Prioritizing Investment in small-scale irrigation and rain-fed systems - **Mr. Clément Ouédraogo**, CILSS, Burkina Faso
2. Public Policy and Investments for improving accessibility in economically water-scarce regions - **Dr. Dennis Wichelns**, IWMI, Sri Lanka
3. A Conducive policy environment for effective investment in water , **Dr. Rudolph Cleveringa** , IFAD , Italy

**16.45-17.30 Facilitated Q&A and Panel wrap up** (Dr Douglas J Merrey)

**17.30-18.00-20.30 End of Day 2**  
**Side Event:** Partnership for Agricultural Water in Africa (AgWA)

**Dr. Douglas Merrey**, Natural Resources Policy and Institutions Specialist

**Day Three: Wednesday 24, November 2010**

<b>Time</b>	<b>Session Details</b>	<b>Session Facilitation</b>								
<b>08.00-10.00</b>	<p><b>SESSION 5: Working group discussions and case studies continued.</b></p> <ul style="list-style-type: none"> <li>This session will begin with a 30 minute plenary session followed by working groups</li> <li>The working groups in this session will also discuss issues related public policy and investment</li> </ul>	<p><b>Session facilitator</b></p> <p>Mrs. Oumy Ndiaye, CTA</p>								
<b>08.00-08.30</b>	<p><b>Seminar Paper 6: Promoting High Quality Agricultural Water Management Investments in Africa: A Country Investment Tool for Operationalising Agricultural Water Management under CAADP</b></p> <ul style="list-style-type: none"> <li>This paper will discuss the Agricultural Water Management Country Investment Tool” (AWM-CIT) that targets practical evidence-based support to operations at country level.</li> <li>This tool is constructed around the stages of pre-investment, implementation and operationalisation, and M&amp;E, with a breakdown by AWM ‘business-lines” and it provides a set of practical guidelines drawn from research and lessons learned from practical experiences that can be adapted and used at all stages of AWM investment planning and implementation.</li> </ul>									
<b>08.30-10.00</b>	<p><b>Dr. Andy Bullock</b>, Interim Coordinator, Partnership for Agricultural Water in Africa (AgWA), and Consultant to the World Bank</p> <table border="1"> <thead> <tr> <th><b>Working Group 1</b></th> <th><b>Working Group 2</b></th> <th><b>Working Group 3</b></th> <th><b>Working Group 4</b></th> </tr> </thead> <tbody> <tr> <td>Water scarcity adaptation strategies for vulnerable rural communities &amp; Public Policy and Investments</td> <td>Water storage for climate change adaptation (recovering rainwater) &amp; Public Policy and Investments</td> <td>Water governance and water sector reform &amp; Public Policy and Investments</td> <td>Equitable distribution of water rights and access (water, poverty and gender) &amp; Public Policy and Investments</td> </tr> </tbody> </table>	<b>Working Group 1</b>	<b>Working Group 2</b>	<b>Working Group 3</b>	<b>Working Group 4</b>	Water scarcity adaptation strategies for vulnerable rural communities & Public Policy and Investments	Water storage for climate change adaptation (recovering rainwater) & Public Policy and Investments	Water governance and water sector reform & Public Policy and Investments	Equitable distribution of water rights and access (water, poverty and gender) & Public Policy and Investments	
<b>Working Group 1</b>	<b>Working Group 2</b>	<b>Working Group 3</b>	<b>Working Group 4</b>							
Water scarcity adaptation strategies for vulnerable rural communities & Public Policy and Investments	Water storage for climate change adaptation (recovering rainwater) & Public Policy and Investments	Water governance and water sector reform & Public Policy and Investments	Equitable distribution of water rights and access (water, poverty and gender) & Public Policy and Investments							
<b>10.00-10.30</b>	<b>COFFEE BREAK</b>									
<b>10.30-12.00</b>	<p><b>SESSION 6: Case studies on Knowledge Support Systems</b></p> <ul style="list-style-type: none"> <li>information and knowledge support systems in IWM as evidence-based decision-support-tools to inform policy and investment decisions – as well as – increasing uptake of adaptation and management practices.</li> </ul> <ol style="list-style-type: none"> <li>Action research for social learning and water governance-a facilitative service approach, <b>Dr. Bruce Lankford</b>, University of East Anglia, UK</li> <li>Strategic Analysis and Knowledge Support Systems (SAKSS): Informing the implementation of the Comprehensive Africa Agriculture Development Program (CAADP) in Africa, <b>Dr. Pius Chilonda</b>, Head, IWMI, Southern Africa</li> <li>CTA’s experience in ICM and Knowledge Support Systems, <b>Mrs Oumy Nidaye</b>, Head CSD, CTA, The Netherlands</li> <li>ICM and KSS in IWM as evidence-based decision -support- tools to inform policy and investment decisions, <b>Prof. Bancy Mati, Resource Plan, Nairobi, Kenya</b></li> </ol>	<p><b>Session Chair</b></p> <p><b>Mr. Maimbo Malesu</b> , World Agro-forestry Centre (ICRAF), Kenya</p>								
<b>12.30-14.00</b>	<b>LUNCH BREAK</b>									
<b>14.00-15.30</b>	<p><b>SESSION 7: Interactive Session</b> on technical transfer of knowledge on IWM to communities</p>	<p><b>Session Chair</b></p> <p><b>Mr. Maimbo Malesu</b> , World Agro-forestry Centre (ICRAF), Kenya</p>								
<b>14.00-</b>	<b>Video introductions:</b> there will be 2 videos introductions. They will be									

14.15 seen during the market place.

**14.15-15.00 The Journey of Mma Tsepo Khumbane:**

- The impact of Mma Tsepo on the Integrated Water Management Landscape
- Pathways for the technical transfer of knowledge on IWM to communities: Village Scoping; Mind Mobilisation; The helicopter plan; weather charts; visits for household food security and the fruit tree campaign

**Mma Tsepo Khumbane;** 66 De Wagen Drift, Cullinan, Elands River

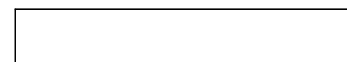
**15.00-15.30 Introduction and beginning of Market Place - Mr. George de Gooijer**  
- Independent Consultant, Sweden

- Market space Interaction and feedback from the 4 working groups  
WG2

WG1

WG4

WG3



**15.30-16.00 COFFEE BREAK**

**16.00-17.30 SESSION 8: Market Place**

- Interaction and feedback from the 4 working groups and discussions on Information and Communication Management (ICM) strategies for addressing emerging knowledge gaps within the group
- **Open space opportunity for mid-seminar feedback** from groups as well as an opportunity for groups to cross-fertilize each other with new ideas
- Videos presentations: From radio and research gardens to multi-media food festivals, **Mr Mike Kambalame**, Story Workshop, Malawi; and Co-management for more environmentally friendly fishing, **Mr Souleymane Ouattara**, Jade Productions, Burkina Faso
- Video Presentation on **Mma Tsepo Khumbane** - Practical Integrated Water Management options and knowledge transfer to communities

**Break**

**19.00 - 22.00 19.00-20.30 Prize-Giving Ceremonies**

- Announcement of Winners of CTA Ardyis Essay Contest
- Announcement of the CTA Winners of CTA Photo Competition

**20.30-22.00 Dinner**

22.00

**End of Day 3**

**Day Four: Thursday 25, November 2010**

Time	Session Details	Field Visit Facilitation
08.30-17.30	<p><b>SESSION 9: Field Visit to:</b></p> <ol style="list-style-type: none"> <li><b>Mma Tsepo Khumbane Farm</b>, Cullinan, Pretoria, South Africa (thematic): Tel: +27 71 190 3188</li> <li><b>Genius Loci: Mystic Monkeys and Feathers</b> (Recreational) - Tel: +27 82 566 4929 (Christa) and +27 12 723 0315 (<a href="http://www.mysticmonkeysandfeathers.co.za">http://www.mysticmonkeysandfeathers.co.za</a>)</li> </ol> <ul style="list-style-type: none"> <li>The field visit will be both thematic and recreational</li> <li>Meals will be organized for the visit</li> </ul>	
17.30	<b>End of Day 4</b>	

**Day Five: Friday 26, November 2010**

Time	Session Details	Session Facilitation								
08.30-10.00	<p><b>SESSION 10:</b> Working groups to discuss Information and Communication Management (ICM) strategies for addressing emerging information and knowledge gaps within the group</p> <table border="1"> <thead> <tr> <th>Working Group 1</th> <th>Working Group 2</th> <th>Working Group 3</th> <th>Working Group 4</th> </tr> </thead> <tbody> <tr> <td>Water scarcity adaptation strategies for vulnerable rural communities &amp; ICM Strategies  Plus Finalizing Presentations</td> <td>Water storage for climate change adaptation (recovering rainwater) &amp; ICM strategies  Plus Finalizing Presentations</td> <td>Water governance and water sector reform &amp; ICM strategies  Plus Finalizing Presentations</td> <td>Equitable distribution of water rights and access (water, poverty and gender) &amp; ICM strategies  Plus Finalizing Presentations</td> </tr> </tbody> </table>	Working Group 1	Working Group 2	Working Group 3	Working Group 4	Water scarcity adaptation strategies for vulnerable rural communities & ICM Strategies  Plus Finalizing Presentations	Water storage for climate change adaptation (recovering rainwater) & ICM strategies  Plus Finalizing Presentations	Water governance and water sector reform & ICM strategies  Plus Finalizing Presentations	Equitable distribution of water rights and access (water, poverty and gender) & ICM strategies  Plus Finalizing Presentations	
Working Group 1	Working Group 2	Working Group 3	Working Group 4							
Water scarcity adaptation strategies for vulnerable rural communities & ICM Strategies  Plus Finalizing Presentations	Water storage for climate change adaptation (recovering rainwater) & ICM strategies  Plus Finalizing Presentations	Water governance and water sector reform & ICM strategies  Plus Finalizing Presentations	Equitable distribution of water rights and access (water, poverty and gender) & ICM strategies  Plus Finalizing Presentations							
10.00-10.30	<b>COFFEE BREAK</b>									
10.30-12.00	<p><b>SESSION 11: Working Group</b> Presentations of outcomes and adoption of conclusions-recommendations</p> <p><b>10.30-11.30</b> Working group presentations (15 minutes each) followed by plenary responses</p> <ul style="list-style-type: none"> <li>Group 1: Water scarcity adaptation strategies for vulnerable rural communities</li> <li>Group 2: Water storage for climate change adaptation (recovering rainwater)</li> <li>Group 3: Water governance and water sector reform</li> <li>Group 4: Equitable distribution of water rights and access (water, poverty and gender)</li> </ul> <p><b>11.30-12.30</b> Review and adoption of Seminar Outcomes:</p> <ul style="list-style-type: none"> <li>Seminar Summary of key conclusions, recommendations and messages</li> </ul>	<p><b>Session Chair</b></p> <p><b>Mr. Michael Hailu,</b> Director, CTA</p>								
12.30-14.00	<b>LUNCH BREAK</b>									
15.00-16.30	<p><b>SESSION 12: Official Closing Ceremony</b></p> <ul style="list-style-type: none"> <li>A joint Closing session for all 4 CTA week events</li> </ul> <p><b>15.00-16.30</b> <b>Official Closing Ceremony</b></p> <ul style="list-style-type: none"> <li><b>Key Messages:</b> CTA Annual Seminar 2010</li> </ul>									

- **Key Messages:** 9<sup>th</sup> Advisory Committee Meeting on Science and Technology
- **Key Messages :** CTA ICT Observatory
- **Key Messages :** Agriculture, Rural Development and Youth in the Information Society (ARDYIS)
- Vote of Thanks: Oumy Ndiaye, CTA
- Overview of CTA Week: Mr Michael Hailu, Director, CTA, The Netherlands
- Closing remarks: Dr Ibrahim Mayaki, CEO, NEPAD/NPCA, South Africa
- Guest Of Honor

16.30

**End of the Seminar and CTA/NEPAD week in South Africa and Refreshments**