

# IFA AGRICULTURE CONFERENCE

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## Optimizing Resource Use Efficiency for Sustainable Intensification of Agriculture

### Posters: **The Challenge Program on Water and Food and Theme 5 on Global and National Food and Water Systems**

Submitted by Claudia Ringler, International Food Policy Research Institute and Challenge Program on Water and Food (CPWF)

For the next 20 years, the most critical issues for the world will be how to grow more food with available water resources, how to improve the quality of life for the poor, and how to protect the environment from further damage. These are the objectives of the Challenge Program on Water and Food (CPWF), put into action in nine selected benchmark river basins across the developing world. The CPWF is managed by a consortium of 19 partners. This partnership brings together the expertise of CGIAR Future Harvest Centers, national agricultural research and extension systems, advanced research institutes, international river basin organizations, and NGOs.

The Challenge Program operates under five research themes:

- 1) **Crop water productivity enhancement** (led by Bas Bouman, **IRRI** [[b.bouman@irri.org](mailto:b.bouman@irri.org)])
- 2) **Water and people in catchments** (led by Nancy Johnson, **CIAT** [[n.johnson@ciat.org](mailto:n.johnson@ciat.org)])
- 3) **Aquatic ecosystems and fisheries** (led by V.V. Sugunan, **WorldFish** [[v.sugunan@cgiar.org](mailto:v.sugunan@cgiar.org)])
- 4) **Integrated basin water management systems** (led by Francis Gichuki, **IWMI** [[f.gichuki@cgiar.org](mailto:f.gichuki@cgiar.org)])
- 5) **Global and national food and water systems** (led by Claudia Ringler, **IFPRI** [[c.ringler@cgiar.org](mailto:c.ringler@cgiar.org)])

Research is carried out chiefly in nine river basins of significant importance for water and food security, which are represented by the following partners:

- **Andean basins:** Consortium for the Sustainable Development of the Andean Ecoregion [Hector Cisneros, [h.cisneros@cgiar.org](mailto:h.cisneros@cgiar.org)]
- **Indo Gangetic basin:** Indian Council of Agricultural Research [A.K. Sikka, [aloksikka@yahoo.co.in](mailto:aloksikka@yahoo.co.in)]
- **Karkheh:** Agricultural Research, Education and Extension [Shahram Ashrafi, [Shah1343@yahoo.com](mailto:Shah1343@yahoo.com)]
- **Limpopo:** Agricultural Research Council [Massoud Shaker, [ShakerM@arc.agric.za](mailto:ShakerM@arc.agric.za)]
- **Mekong:** Mekong River Commission [Kim Geheb, [kim.geheb@mrcmekong.org](mailto:kim.geheb@mrcmekong.org)]
- **Nile:** National Water Research Center [Mahmoud Moustafa, [m\\_moustafa@nwrc-eg.org](mailto:m_moustafa@nwrc-eg.org)]
- **Sao Fransisco:** EMBRAPA [Luis Henrique Bassoi, [lhbassoi@cpatsa.embrapa.br](mailto:lhbassoi@cpatsa.embrapa.br)]
- **Volta:** CSIR Water Research Institute [Winston Andah [weiandah@africaonline.com.gh](mailto:weiandah@africaonline.com.gh)]
- **Yellow:** Yellow River Conservancy Commission [Sun Feng, [sunfeng@yellowriver.gov.cn](mailto:sunfeng@yellowriver.gov.cn) ]

The **Global and national food and water systems** theme will improve knowledge of the complex interplay between global change and policymaking and use the results to build institutional capacity in this area. The aim is to support policymaking both within and outside the water sector so that it enhances food security and human health, promotes production of more food with less water, helps alleviate poverty, and protects ecosystems. This is being accomplished through research in four areas: 1) Globalization, trade and macroeconomic and sectoral policies; 2) Agricultural and urban water supplies - incentives, investment and financing; 3) Transboundary water policies and institutions; and 4) Adapting to changes in the global water cycle

For more information, please contact Jonathan Woolley, CPWF coordinator ([j.woolley@cgiar.org](mailto:j.woolley@cgiar.org)) or Claudia Ringler, Global and national food and water systems coordinator ([c.ringler@cgiar.org](mailto:c.ringler@cgiar.org))