



PROGRAM

- Program Overview
- [Keynote Speeches](#)
- [Water Leader Summit](#)
- [River Dialogue](#)
- [Thematic session](#)
- [Feature Session](#)
- [Exhibition](#)
- [Technical Visit](#)
- [Social Events](#)

PROGRAM OVERVIEW

The 5th International Yellow River Forum, the 5 day water conference, will be held during September 24-28, 2012 under the theme ensuring water right of the river's demand and healthy river basin maintenance. The forum will consist of five themes, including Integrated River Basin Management, River Health and Environmental Flow, Climate Change adaptation, Tools and Technology, as well as Water Governance, in addition to Feature Sessions co-organized with various strategic partners. The forum will also witness high level dialogue and cooperation roundtable meetings, particularly the Water Leader Summit and River Dialogue. This forum will also showcase research and technology development of water resources management through Posters and exhibitions, and technical visits and social events will also be a part of the river's forum.

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| | Day 1 Monday Sept 24 | Day 2 Tuesday Sept 25 | Day 3 Wednesday Sept 26 | Day 4 Thursday Sept 27 | Day 5 Friday Sept 28 |
|---------------------|---|------------------------------------|---------------------------------------|---------------------------------------|----------------------------|
| 9.00 am - 10.30 am | Registration Yellow River Museum Opening Ceremony | Opening ceremony | Thematic sessions Feature sessions | Thematic sessions Feature sessions | Field Visit |
| 11.00 am - 12.30 pm | | Keynote | Thematic sessions Feature sessions | Thematic sessions Feature sessions | |
| 12.30 pm - 1.30 pm | Posters and Exhibition | | | | |
| 2.00 pm - 3.30 pm | Registration China Europe Water Platform | Water Leader Summit | Thematic sessions Feature sessions | Thematic sessions Feature sessions | Field Visit |
| 4.00 pm - 5.30 pm | Press Release | River Dialogue | Thematic sessions Feature sessions | Closing Ceremony | |
| 6.00 pm - 8.00 pm | Social Activities | Welcome Reception & Cultural Event | Social Activities | | |

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PROGRAM

- [Program Overview](#)
- [Keynote Speeches](#)
- [Water Leader Summit](#)
- [River Dialogue](#)
- [Thematic session](#)
- [Feature Session](#)
- [Exhibition](#)
- [Technical Visit](#)
- [Social Events](#)

WATER LEADER SUMMIT

Date: September 25, 2012, 14:00-15:30
 Venue: Xuanyuan Hall, Zhengzhou International Conference and Exhibition Centre
Theme:
 Dialogue and Cooperation on Water Resources Management

Chairs: Hu Siyi, András Szöllösi-Nagy



Honorable Guest:
 Ministry of Water Resource, People's Republic of China
 Ministry of Environment, Denmark
 U.S. Army Corps of Engineers
 Australia National Water Commission
 UNSGAB
 UNDP
 UNESCO
 World Water Council
 International Water Resources Association



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Chen Lei
 Minister of Water Resources of China



Loïc Fauchon
 President of the World Water Council



UZUNOV, Yordan
 Former Bulgarian Deputy Minister of the Environment



REES, Judith
 Director of the London School of Economics and Political Science



Ida Auken
 Danish Minister for the Environment



David Parker
 Deputy Secretary, Department of Sustainability, Environment, Water, Population and Communities



Nkomo
 Minister of Water Resources Development and Management of Zimbabwe



Péter Kovács
 Deputy State Secretary for Water Management of Hungary



Michael Walsh
Deputy Commander for
United States Army
Corps of Engineers

Andreas Götz
Vice-Director of the FOEN

Vicente Andreu
President of National
Water Agency (ANA),
Brazil

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5th International Yellow River Forum

第五届黄河国际论坛
ZHENG ZHOU • CHINA | SEPT 24-28 2012



PROGRAM

- Program Overview
- Keynote Speeches
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Keynote Speeches



China Water Development and Reform

LI Guoying, Vice Minister of Water Resources, China

China is a developing country with the largest population in the world while with relatively insufficient water resources. And the water resources in China, with ever-increasingly significant challenges including water shortage, water pollution, aquatic environment deterioration, have become one of key issues affecting the social-economic sustainable development. In this context, China has determined to practice the strictest water resources management and conservancy, which covers three aspects, or three red lines. The first red line is to strengthen water resources development and utilization, and to control total amount of water use strictly. The second red line is to promote water use efficiency and step up efforts in a broad matter for forging water-saving society. And the third red line is concerning control on water pollutant acceptance capacity in water function zones to restrict total effluent amount into rivers or lakes. In general, the objective lies in three points. Firstly, the control targets for water development and utilization would be identified and the total water use amount in the whole china would be not beyond 700 billion m³ by 2030. Secondly, the control targets for water use efficiency would be identified, and it is expected to reach or close to advanced level of the world by the year 2030, and particularly water use coefficient in farmland irrigation would be promoted above 0.6. Thirdly, control targets for pollutant acceptance capacity in water function zones would be identified, the total amount of main pollution into rivers or lakes would be within the carrying capacity of the water body, and water function zones with water quality reaching the standard would share 95%.



UN Water - World Water Development Report

Dr. Olcay Unver
Director of UNESCO Programme on Global Water Assessment

The United Nations World Water Development Report, released every three years in the World Water Forum, is the UN's flagship report on water. It is a comprehensive review that gives an overall picture of the state of the world's freshwater resources and aims to provide decision-makers with the tools to implement sustainable use of our water. Through a series of assessments, the Reports provide a mechanism for monitoring changes in water resources, and track progress towards achieving targets, particularly those of the Millennium Development Goals and the World Summit on Sustainable Development. The Reports also offer best practices as well as in-depth theoretical analyses to help stimulate ideas and actions for better stewardship in the water sector. The WWDR seeks to answer the questions being asked by the international community: how far have we come towards meeting the targets of sustainable development? How far have we yet to do? What actions can we take to make the path smoother, and faster? In today's changing world, the Report takes stock of past actions, present challenges, and future opportunities in order to provide decision-makers with up-to-date, reliable information that can help to change the ways we use water.



Sustainable Yellow River Water Resources Management

Chen Xiaojiang
Commissioner of Yellow River Conservancy Commission
Ministry of Water Resources, China

Along with the rapid development of social economy in the Yellow River Basin and related regions, the demand for Yellow River water resources is ever increasing, and gap between the water supply and water demand has been more significant. In order to address the issues, Yellow River Conservancy Commission has been practicing integrated water resources management in the whole basin, which guarantees the continues flow in the stream for successive 12 years, effectively ensures and balance the water supplying for regional development and the environmental benefit. Nowadays, facing the new challenges emerging in the new era, the strictest water resources management and conservancy will be implemented in the Yellow River basin to keep the great river's healthy life, for which the management system, indicators and index system, implementing mechanism and technical supporting system would be established and refined, making the sustainable water resources development to sustain basin and regional development.



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Room for the River – flood safety for four million Dutch citizens

Ingwer de Boer

General Director Room for the River Rijkswaterstaat, The Netherlands

In the Netherlands the area available for the rivers has decreased continually during the past centuries. The rivers are confined by increasingly higher dikes and more and more people live behind the dikes. At the same time the land behind the dikes has sunk due to settlement (soil subsidence). In addition, since it now rains harder and more frequently the rivers need to discharge a continually increasing volume of water. In the most unfavorable situation a dike breach could put 4 million Dutch citizens in danger. For this reason the Netherlands government is implementing measures to increase safety by protecting the rivers region from future floods. The rivers will be given more room at a total of 39 locations. These measures jointly comprise the Room for the River Programme. In addition to safety, the Room for the River Programme is investing in environmental quality: the rivers region is being made more attractive and appealing. The region will offer more room to nature and recreation.

A total of 17 partners - provinces, municipalities, water boards and Rijkswaterstaat - are closely cooperating in the implementation of the Room for the River Programme thus ensuring participation of all major stakeholders. The Minister of Infrastructure and Environment bears the overall responsibility for the Programme and provides the main funding to an amount of € 2.3 billion.

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PROGRAM

RIVER DIALOGUE

[Program Overview](#)

[Keynote Speeches](#)

[Water Leader Summit](#)

[River Dialogue](#)

[Thematic session](#)

[Feature Session](#)

[Exhibition](#)

[Technical Visit](#)

[Social Events](#)

Date: September 25, 2012, 16:00-17:30

Venue: Xuanyuan Hall, Zhengzhou International Conference and Exhibition Centre

Theme: Challenges for the World Rivers

Honorable Guests:

- Murray Daring – Murray Daring Basin Authority
- Danube - International Commission for the Protection of the Danube River
- Rhine- International Commission for the Protection of the Rhine
- Nile – Nile Basin Initiative
- Niger - Niger Basin Authority
- Mekong – Mekong River Commission
- Mississippi – US Corps of Engineers
- Po - Emilia-Romagna Region
- Yellow River – Yellow River Conservancy Commission
- Yangtze – Changjiang Water Resources Commission

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Chen Xiaojiang
 Commissioner of YRCC



Fritz Holzwarth
 Deputy Director for Water Management of German



Gary Jones
 Chairman of the IRF Board



Wael M. Khairy
 Director of National NBI Office of Egypt



Ingwer de Bore
 Ministry of Infrastructure and the Environment, the Netherlands.



Nermin Cicek
 Ministry of Water Planning Department of Turkey



Jean Marie Wauthier



Georg Martin Schwede
 Deputy Director of WWF



Xia Jun
 Chairman of International Water Resources Association



Gao Zhanyi
 Chairman of ICID



Henk Sterk
 Former General Secretary of Rhine Protection International Committee



Gregory Thomas
 U.S. Chairman of the Natural Heritage Institute



Jean-François Donzier
 Permanent Technical Secretary of INBO



PROGRAM

THEMATIC SESSION

- Program Overview
- Keynote Speeches
- Water Leader Summit
- River Dialogue
- Thematic session
 - Integrated River Basin Management
 - River Health and Environmental Flow
 - Climate Change & Adaptive Water Management
 - Tools and Technology
 - Water Governance & Stewardship
- Feature Session
- Exhibition
- Technical Visit
- Social Events



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| | Integrated River Basin Management | River Health and Environmental Flow | Climate Change & Adaptive Water Management | Tools and Technology | Water Governance |
|--------------------|--|---|---|---|--|
| TS-1 Sept 26 AM | Opening & keynote | Opening & keynote | Opening & keynote | Opening & keynote | Opening & keynote |
| TS-2 Sept 26 AM | Integrated River Basin Planning Danube Changjiang Amazon Turkey | River Health IWC, Australia | Hydrological Response Study IWRA | Flood Warning and Dike Monitoring AGT international | Launching Ceremony of New Books WWF |
| TS-3 Sept 26 PM | Integrated Water Resources Management Mekong Hai River Nile Meuse | Environmental Flow IWC & WWF | Yellow River Case Study UNESCO | Decision Support System for Integrated River Basin Management DHI | Water Management Theories and Tools Application of Enterprises WWF |
| TS-4 Sept 26 PM | Integrated Water Resources Management Mulley Darling Basin Rhine Nile Zhu River | River Health and Environmental Flow Assessment - Lessons from YRB IWC | Water Shortage and Draught Resistance Portugal | Remote Sensing and Satellite Monitoring YRCC& Consultants | Water Stewardship WWF |
| TS-5 Sept 27 AM | Integrated River Basin Management YREC | EU-WFD and China Water Policy CEWP | Flooding & Draught Disaster IWRA | Australian Knowledge of Water I Austrade | Capacity Building and Water Management UNESCO IHE |
| TS-6 Sept 27 AM | Integrated River Basin Management INBO | Water Quality & Eco-Hydraulics RBMP&IHE&YREC | Adaptive Water Management IWRA Henan University | Australian Knowledge of Water II Austrade | Participatory Approach in IRBM GWP & INBO |
| TS-7 Sept 27 PM | Challenges for the World's River Basins Dialogue RBMP&SDWSC &GWP&INBO&DHV Workshop Session | Water Quality Monitoring MicroLan Workshop Session | Low Carbon Economy and Sustainable Develop. Henan University Workshop Session | Workshop Session | River Basin Governance Research and Network Workshop Session |
| TS-8 Sept 27 PM | | | Report to the Closing Ceremony | | |

1 Theme I - Integrated River Basin Management

Integrated River Basin Management is one of the key themes of the 5th International Yellow River Forum. It is the process of coordinating conservation, management and development of water, land and related resources across sectors within a given river basin, in order to maximise the economic and social benefits derived from water resources in an equitable manner while preserving and, where necessary, restoring freshwater ecosystems.

The forum provides a unique opportunity for gathered leaders and water managers from the world's most renowned rivers to exchange views on the major challenges they face in integrated river basin planning to safeguard water security in the basin for the future under the changing circumstances due to inevitable socio-economic developments and the anticipated effects from climate change.

Comprehensive policies are being implemented on managing the available and often limited water resources. Examples are the EU Water Framework Directive and the China 2011 No.1 Document on Accelerating Water Conservancy Reform and Development. Both documents provide long term management views for water resources management and development within each geographical region. Other examples exist for Africa and the Americas.

Overviews on regional and national water resources management policy development and implementation will be presented for the USA, Europe, The Nile Basin, China, Brazil, and Turkey. Attention will further be given to specific experiences in IRBM for a number of rivers from five continents including the major rivers of China.

The IRBM sessions are designed to learn from experiences in IRBM from five continents, share innovative ideas and arrive at common views adaptable to the specific conditions applicable for the different river basins or group of basins on different continents.

Co-organizer:

EU-China River Basin Management Programme
 Yellow River Engineering Consulting Co. Ltd, YRCC
 Sino-Dutch Cooperation
 Global Water Partnership (China)
 INBO
 Royal HaskoningDHV
Contacts:
 Paul van Meel (paul.van.meel@rhdhv.com)





5th International Yellow River Forum

第五届黄河国际论坛
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PROGRAM

Program Overview
Keynote Speeches
Water Leader Summit
River Dialogue
Thematic session
Feature Session
Exhibition
Technical Visit
Social Events

TECHINICAL VISIT

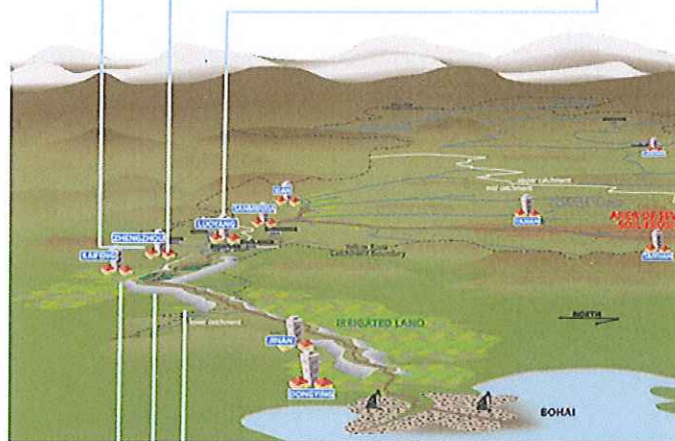
Yellow River Museum



Model Yellow River



Xiaolangdi Reservoir



Digital Yellow River



Standard Embankment



Wetland



Xiaolangdi Reservoir

Located at 130km downstream of Sanmenxia reservoir, Xiaolangdi Reservoir or Xiaolangdi Multi-purpose Dam is the only control water works with big storage capacity in the lower Yellow River. Geographically, Xiaolangdi Dam stands at the key point of regulating and controlling flow and sediment for the downstream, therefore its major purposes are flood control, ice jam control, sediment reduction considering water supply and power generation. It is installed a power gross capacity of 1800,000 kw, generating an annual average electricity of 5.1 billion kw-hour, and its water storage can increase 4.0 billion m3 for water supplying.

Yellow River Standard Embankment

Yellow River Standard Embankment is an instrument along the lower Yellow River through Henan and Shandong Provinces, a lifted waterway resulted from deposition, to constrain the raged flow and flood for the security of 90 millions of people. Specifically, the embankment intends to safely accommodate the discharge of 22000m³/s at Huayuankou, a key cross-section in the lower Yellow River. The construction program mainly consists of discharging silt, reinforcing embankment, widening embankment, reconstruction of dangerous works, hardening of top embankment, wave prevention forest, and adaptive forest.

Hydraulics Laboratory and Physical Model of Yellow River

Hydraulics Laboratory is an important approach to water and river management and research, which now accommodates the Physical Model of Yellow River. The Physical Model has been playing a substantial and constructive role since it came into practices.

Spreading in an area of about 18.7 hectares, the Hydraulics Laboratory has built 3 model halls, which irrespectively accommodates Sanmenxia reservoir model, Xiaolangdi reservoir model, and channel model of the Lower Yellow River. The whole models totals more than 1,610 meter in length, simulating mainstream and reservoirs which is in the reality 750 km long, to provide a research tools for Yellow River flood control, river training, operation of reservoirs, etc.

Wetlands in the urban of Zhengzhou - landscaping project for environmental promotion

Designed by Yellow River Engineering Consultant Company, constructed wetlands in Zhengzhou city is a sample of how Yellow River water is used in the urban with the perspective of water saving, water recycling, water harvest, and cityscape and people recreation, as fresh water is considerably limited and



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water shortage poses great stress while urban people's expectation for recreation and living environment is ever-rising. And also, the constructed wetlands working with the surrounding canals, the groundwater body, and newly-digged lakes has become a water system in the urban for urban flood drainage.

Covering the area of 40,000 km², the constructed wetlands mainly treat the water for the lake in CBD located in Eastern Zone of the city. A treatment capacity of 20,000m³/day makes it one of the biggest in the country among the similar projects in terms of treatment capacity. And the water quality after being treated by the constructed wetlands can reach class II by national water quality classification, or good quality.

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