



*Joint Egyptian Japanese Scientific
Cooperation (JEJSC)*



The Second JE-HydroNet Symposium on the Nile River System and the Delta of Egypt

The Science and Technology Development Fund (STDF) & The Japan Society for the Promotion of Science (JSPS)

JEHYDRONET: MODERN METHODOLOGIES FOR THE MANAGEMENT, MONITORING AND PLANNING OF INTEGRATED WATER RESOURCES IN NILE RIVER
المنهجيات الحديثة للإدارة والرصد والتخطيط المتكامل للموارد المائية في نهر النيل

“Problems Facing Nile River System and Delta of Egypt”



March 20-21, 2012

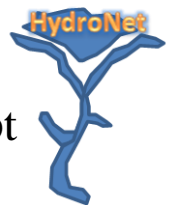
The German University in Cairo, New Cairo City, Egypt

Co-sponsored by:

National Water Research Center, Assiut University, Alexandria University, The German University in Cairo Egypt

&

Disaster Prevention Research Institute, Kyoto University, Japan



Organizing members of the symposium

Prof. Dr. Ibrahim El-Shinnawy (CoRI, NWRC, Egypt)
Prof. Dr. Mahmoud Senousy (Assiut University, Assiut, Egypt)
Prof. Dr. Mohamed Soliman (HRI, NWRC, Egypt)
Dr. Sameh Kantoush (The German University GUC, New Cairo, Egypt)
Dr. Haytham Awad (Alexandria University, Alexandria, Egypt)
Dr. Mohamed Saber (Assiut University, Assiut, Egypt)
Dr. Ahmad Seif-El-Nasr (Assiut University, Assiut, Egypt)

Egyptian Speakers

Prof. Dr. Mahmoud Abou Zeid	Arab Water Council
Prof. Dr. Shaden Abdel-Gawad	NWRC
Prof. Dr. Ibrahim El-Shinnawy	
Prof. Dr. Nahed El-Araby	
Prof. Dr. Ashraf El-Ashaal	
Prof. Dr. Medhat Aziz	
Prof. Dr. Sameh Saker	
Prof. Dr. Ashraf El-Sayed	
Dr. Ibrahim El-Sayed	
Prof. Dr. Bayoumi Attia	MWRI
Prof. Dr. Ibrahim El-Dimeery	The German University, GUC
Prof. Dr. Laila Gamal Mahran	
Dr. Sameh Kantoush	
Ambassador Dr. Walid Abdel-Nasser	Ministry of Foreign Affairs
Eng. Lama Mosad El-Hatow	IFC, World Bank Group
Prof. Dr. Mahmoud Senousy	Assiut University
Dr. Ahmed Seif-El-Nasr	
Dr. Mohamed Saber	
Eng. Claus Koehn	Consulting German Company
Prof. Dr. Rawya Kansoh	Alexandria University
Dr. Haytham Awad	

Japanese Speakers

Prof. Dr. Tetsuya Sumi	Kyoto University
Prof. Dr. Satoru Ushijima	
Prof. Dr. Yasuhiro Takemon	
Prof. Dr. Yoshinobu Sato	
Dr. Toshio Hamaguchi	
Dr. Daisuke Nohara	
Prof. Dr. Gregory De Costa	Open Polytechnic of New Zealand
Eng. Mohamed Reda Soliman	Kyoto University
Eng. Masahiro Abe	
Eng. Ahmed Kamal	

Invited Japanese

Japanese Embassy in Egypt, JICA office, JSPS office, Private Companies

Themes of the Symposium

- 1- Flash Flood and Runoff Modeling
- 2- Water Resources Management and Climate Change
- 3- Reservoir Sedimentation and River Basin Ecosystem
- 4- Ground Water and Sea Water Intrusion
- 5- Dam impacts and Nile River Basin Ecosystem

Tuesday, 20th March 2012

9:00 – 10:00 Symposium Registration at the GUC

Opening Session

Chaired by: Prof. Shaden Abdel-Gawad, NWRC

Time	Title of presentation	Presenter
10:00 – 10:10	Opening Remarks and Guest Welcome,	Prof. Shaden Abdel-Gawad , (NWRC, Egypt)
10:10 – 10:20	Guest Welcome by the GUC representative	Prof. Dr. Ibrahim El-Dimeery (University Counselor & BOT Member, GUC, Egypt)
10:20 – 10:30	Relationships Between Egypt and Japan: Education, Science and Political Aspects	Ambassador Dr. Walid Abdel- Nasser (Ministry of Foreign Affairs, Egypt)
10:30 – 10:50	GUC: 10 Years of Success	Prof. Dr. Laila Gamal Mahran (Vice President for Student Affairs, GUC, Egypt)
10:50 – 11:10	Japan Egypt Hydro Network: Modern Methodologies for The Management, Monitoring and Planning of Integrated Water Resources in Nile River	Prof. Tetsuya Sumi (Kyoto University, Japan)
11:10– 11:35	Coffee Break	

Session 1: Flash Flood and Runoff Modeling

*Chaired by: Prof. Husam Fahmy, NWRC
and Dr. Sameh Kantoush, GUC*

Note: Allocated time for Oral Presentations : 15 min. talk + 10 min. discussion

11:35– 12:00	Warning system and national Strategy for Flash Flood Management in Egypt	Prof. Dr. Sameh Saker (NWRC, Egypt)
12:00– 12:25	Integrated Water Resources Management: Lessons Learned in the Past Two Decades in Arab Region, Egypt	Prof. Rawya Kansoh (Alexandria University, Egypt)
12:25– 12:50	Hydrological Simulation of Flash Floods Considering Prevention and Mitigation Strategies at The Nile River and Wadi El- Arish, Sinai Peninsula, Egypt	Dr. Mohamed Saber (Assiut University, Egypt)

12:50– 13:15 Conflict on Water Resources *Eng. Masahiro Abe*
Development between Multiple Nations (Kyoto University, Japan)
in the Nile River Basin

13:15– 14:20 *Lunch*

Session 2: Water Resources Management and Climate Change

Chaired by: Prof. Moustafa Gaweesh, NWRC

and Dr. Haytham Awad, Alexandria University

14:20 – 15:00	Keynote: Impact of Climate Change in Water Resources on the Nile Basin	<i>Prof. Bayoumi Attia</i> , (MWRI, Egypt)
15:00 – 15:40	Analysis of Long-Term Heat and Water Balance Change using GCM Output in the Nile River Basin / Study on Climate Change Impacts in Japan	<i>Prof. Yoshinobu Sato</i> (Kyoto University, Japan)
15:40 – 16:05	Adaptation to Climate Change Impacts on Coastal Zone of the Nile Delta	<i>Prof. Ibrahim El-Shinnawy</i> (NWRC, Egypt)
16:05– 16:30	Two Dimensional Hydrodynamic, Pollutant Transport Model of El-Burulus Lagoon, Egypt	<i>Eng. Mohamed Reda Soliman</i> (Kyoto University, Japan)
16:30– 16:55	Assessment of Impacts of Climate Change on Water Resources in Egypt	<i>Eng. Lama Mosad El-Hatow</i> (Ph.D. Candidate TU Delft and Erasmus University, Netherlands)
16:55 – 17:20	Impacts of SLR on Drainage Systems of Coastal Zones of the Nile Delta	<i>Dr. Ibrahim El-Sayed</i> (NWRC, Egypt)

Poster Session
17:20– 18:45 **For the Young Researchers**
Chaired by Prof Mohamed Fawzi Bakri
NWRC

18:45 – 20:45 **Reception Dinner**

Two Prizes:

1. **Prof.Nagy prize** for the best presentation (only Student Oral presentations).
2. **Prof.Kojiri prize** for the best Poster (only for Student Poster presentations)

The prizes will be decided by the Egyptian and Japanese Professors Committee.

Second Day Program

Wednesday, 21st March 2012

Note: Allocated time for Oral Presentations : 15 min. talk + 10 min. discussion

Session 3: Reservoir Sedimentation and River Basin Ecosystem

*Chaired by : Prof. Sherif El-Manadely, Cairo University
and Prof. Mohamed Soliman , NWRC*

Time	Title of presentation	Presenter
9:00–9:30	Keynote: Reservoir Sedimentation Management in Japan	Prof. Tetsuya Sumi (Kyoto University, Japan)
9:30–10:00	Keynote: Egypt and the Nile Basin: Between past, present and future	H.E.Prof. Mahmoud Abou-Zeid (Water Arab Council)
10:00–10:25	Monitoring of Sedimentation Process in Lake Nasser/Nubia	Prof. Medhat Aziz (NWRC, Egypt)
10:25–10:50	Reservoir Sedimentation Management in the Nile River Basin and Integrated Development Project of Lake Nasser	Dr. Sameh Kantoush (GUC, Egypt)
10:50–11:15	River Basin Ecosystem Management	Dr. Yasuhiro Takemon (Kyoto University, Japan)
11:15–11:40	Eutrophication Assessment of Lake Burullus, Egypt	Prof. Ashraf El-Said (NWRC, Egypt)
11:40–12:05	Multiphase modeling for fluid-structure interactions with high-performance parallel computations and their application to hydraulics problems	Prof. Satoru Ushijima (Kyoto University, Japan)
12:00–13:00	Lunch	

Session 4: Ground Water and Sea Water Intrusion

*Chaired by: Prof. Ahmed Khater, NWRC
and Dr. Mohamed Saber, Assiut University*

13:00–13:40	Keynote: Assessment and Management of Coastal Ground Water Subject to Salinity Intrusion	Prof. Gregory De Costa, Open Polytechnic of New Zealand, New Zealand
13:40–14:05	Basin-scaled Groundwater Modeling and Fundamental Consideration of Seawater Intrusion	Prof. Toshio Hamaguchi (Kyoto University, Japan)
14:05–14:30	Ground water and Salt Water Intrusion in the Nile Delta of Egypt	Prof. Nahed Alaraby (NWRC, Egypt)
14:30–14:55	Surface and Ground Water Interaction Detection and Protection: Case Study 1	Prof. Mahmoud Senousy (Assiut University, Egypt)
14:55–15:20	Surface and Ground Water Interaction Detection and Protection: Case Study 2	Dr. Ahmed Seif (Assuit University, Egypt)
15:20–15:30	Coffee Break	

Session 5: Dam Impacts and Nile River Basin Ecosystem

*Chaired by: Prof. Mahmoud Senousy, Assiut University
and Dr. Ahmed Seif-El-Nasr, Assiut University*

15:30 – 16:10	Keynote: Dam Impacts on the Down Stream Region	Prof. Alaa Alzawahry (Cairo University, Egypt)
16:10 – 16:35	Evaluation of the Performance of Existing Dams	Prof. Ashraf El-Ashaal (NWRC, Egypt)
16:35 – 17:00	Real-time Reservoir Operation Considering Meteo-Hydrological Information -Practices, studies and issues in Japan-	Prof. Daisuke Nohara (Kyoto University)
17:00 – 17:25	Impact of High Aswan Dam on the Nile River	Prof. Karima Attia (NWRC, Egypt)
17:25 – 17:50	Development of Optimization Models for Energy Production and Harvesting in Existing and Proposed Egyptian Hydraulic Structures	Dr. Haytham Awad (Alexandria University, Egypt)
17:50 – 18:15	Environmental management of the Barrage Projects: Case studies Nage Hammadi and Assiut new Barrages	Eng. Klaus Koehnlein (German Consulting Company, Germany)
18:15 – 19:15	Closing Discussions / Summary / Future Plans (all) Prof. Tetsuya Sumi /Prof. Ibrahim El-Shinnawy/Dr. Sameh Kantoush	