



**Global Institute for Water  
Environment and Health**

**Leadership For Positive Change**



**Global Institute for Water, Environment and Health  
Annual Report | 2014**

## GIWEH VALUES

### Introduction

This report describes the achievements of GIWEH from January 2014 to December 2014. It highlights key successes, challenges, and transitions that occurred during the year of 2014, as well as the vision for the future that GIWEH looks forward to, especially amid this sensitive time of global environmental changes that require more effective interventions that are well-oriented towards sustainability and achieving better results.

### Background

Over the past seven years, the Global Institute for Water, Environment and Health (GIWEH) has worked to conserve the most scarce and vital resource in our planet: water. The creation of the institute is based on a strong conviction that in order for water to be conserved, a comprehensive approach should be initiated where stakeholders from different fields work together towards responding more effectively to the ever increasing threats to water resources and environmental safety.

### Mission

GIWEH's mission is to provide societies, individuals and institutions with educational, research, technical, financial, and scientific support so they are able to realize the effective and sustainable use and management of water.

### Vision

GIWEH has the vision to empower the most vulnerable societies to be able to live in a healthy environment with sustainable quantities of high-quality water.

### International

we cooperate across borders, sharing knowledge and technology transfer with colleagues and partners from around the world.

### Creativity & Innovation

we encourage a creative mindset in our organizational culture and we foster innovative ideas that will lead to better results.

### Integrity

we ensure transparency and accountability in the manner in which our projects and programmes are developed and managed.

### Professionalism

we aim for quality in what we do, seek ways to improve on our performance and are guided by evidence-based scientific research.

### Excellence

we strive to be better than good, and add value through innovative initiatives and activities.

### Diplomacy

we strive to find win-win solutions and promote peace through water diplomacy, particularly in fragile states and water scarce regions.

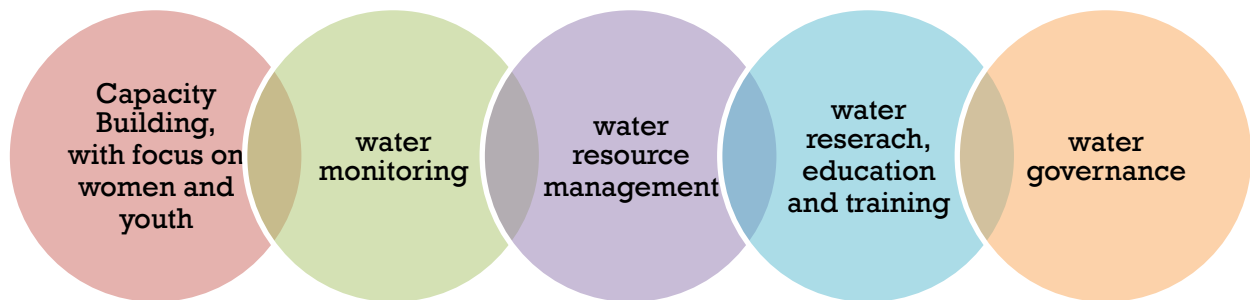


## Program Areas

The water crisis has never been more critical globally and is a top risk facing the world, according to the World Economic Forum's Global Risk Report 2015. The response to the water crisis has long focused on infrastructure such as installing water pumps and tabs. However, the infrastructure projects alone are not good enough, and a more holistic, long-term process is needed to respond to the global water crises.



Therefore, we at GIWEH believe that the response to the global water crisis goes beyond infrastructure, and so we focus on fostering good practices, knowledge and technology transfer in water scarce regions through the following:



In this context, GIWEH maintains trainings and internships, actively participates in international conferences, holds its own conference on water resource and environmental management (ICWRE), bring stakeholders together, conducts research and contributes in publications of key water-related international agencies.

2014 Activities

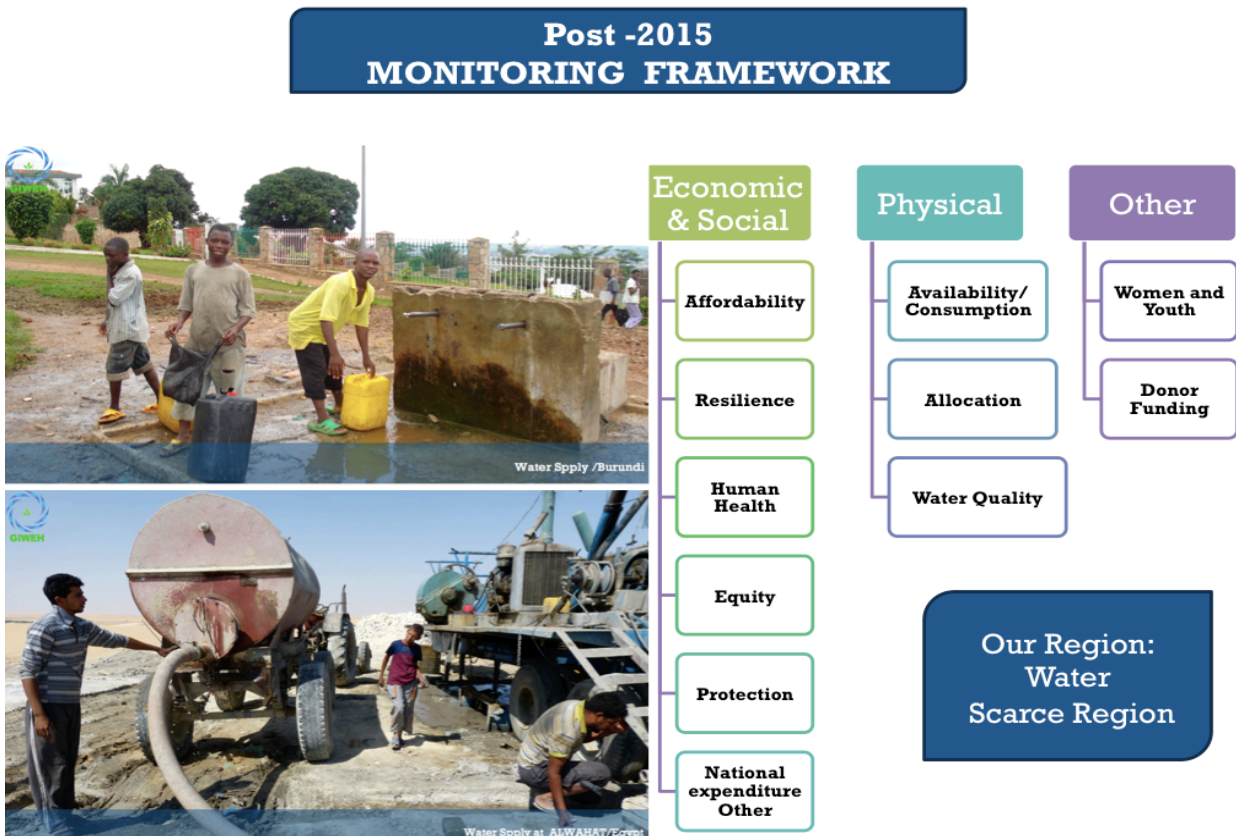
**Commitment to the Post-2015 Development Agenda**

As part of its contribution to the post-2015 development agenda, GIWEH has embarked on two projects and intends to launch in 2015:

**1) Flagship Project: Water Governance and Integrated Water Resource Management in Water Scarce Regions**

As part of its contribution to the post-2015 development agenda’s water goal, GIWEH has embarked on a project that focuses on water governance and integrated water resources management in water scarce regions. This project is based on GIWEH’s previous and current project experiences and targets vulnerable contexts such as rural areas, youth, and women who bear the brunt of water scarcity.

To enable the amelioration of conditions in water scarce regions, and particularly for the three target groups, GIWEH is undertaking a multi-faceted approach comprising four elements: capacity building, education and research, technology transfer and knowledge translation.



## 2) Water Monitoring Framework

GIWEH has started an initiative towards building a water monitoring framework that takes into consideration availability, viability, allocation, and supply-demand, and has clear measurable indicators. This framework should facilitate the global effort in responding more effectively to the water crisis.

### Programs Success

#### Hosting the 3<sup>rd</sup> ICWRE – International Conference on Water Resources and Environmental Management (Antalya, Turkey)

GIWEH hosted its 3<sup>rd</sup> International Conference on Water Resources and Environmental Management (ICWRE) in Antalya, Turkey from 13<sup>th</sup>-15<sup>th</sup> May 2014. The conference's theme was the "Role of Governance in the Management of Water Resources and Environment", in a response to increasing water scarcity, environmental degradation and the UN 2014 year of 'Water and Energy'. GIWEH hosted the ICWRE to further contribute to these pressing issues.

The three-day conference was structured to include oral sessions and a poster session that allowed for in-depth discussions on the aspects of water resources and environmental management. You can find more by visiting: [www.icwre.com](http://www.icwre.com)





The ICWRE was concluded by announcing the winners of the ICWRE award, which recognizes the participants with the best papers presented during the conference.



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#### ICWRE 2014 AWARD WINNERS

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**Dr. Firdes Yenilmez** (*right*), Akdeniz University, Department of Environmental Engineering, Antalya Turkey for “Evaluation of Pollution Control Alternatives to Improve the Water Quality in Porsuk Dam Reservoir” AND **Mr. Candra Samekto** (*left*), School of Agriculture and Food Science, University of Queensland, Australia for “Snowballing State-Private-Society Collaboration in Addressing IWRM Initiation Challenges”.

## ICWRE Key Outcomes

- Water stakeholders from around the Arab region who participated in the conference met and discussed water issues in the region, where various cooperation opportunities emerged in the conference with focus on water governance, IWRM and national water sector management, environmental and water regional challenges and opportunities for water resources and ground water management.
- The conference has triggered a strong interest especially among the Iraqi government representatives, where they committed on contributing in the hydro-diplomacy, water governance and water resources management.

### Internship Program

5. Talented young interns joined us at GIWEH from different countries and backgrounds to participate in the interactive annual internship program. The interns enjoyed a wide variety of activities, where they attended international conferences, participated in sessions in the UNOG, and were able to conduct research and gain practical experience as well.

-Ms. Tiziana RIZZO (Switzerland), February-August 2014, University of Genève, Master em étude européennes, Prof référant; Mme Micheline Calmy Rey.

-Ms. Alice TOMASELLI (Italy), June-August 2014 “Managing the Water-Food Nexus: The importance of the integration of different forms of knowledge and expertise”. University Of Trento, Master of Environmental Sociology

-Mr. Mohamed DAOUD (France), May-August 2014, MA student at the National School of Water and Environmental Engineering in Strasbourg and a Master’s degree candidate in Geosciences of the Environment. Research at GIWEH: “Report on biofuels in Brazil and in Africa” and “Reports on energy recovery from wastewater”, [www.engees.unistra.fr](http://www.engees.unistra.fr)

-Ms. Alizee BERSAN (France), July-September 2014, Stockholm World Water Week participant, Institute of Political Studies of Bordeaux, France / University of

## 2014 Interns Highlight

*“During my internship, I learned how an NGO is functioning, how to conduct research, write reports and project proposals. I also had the opportunity to participate in Stockholm World Water Week, during which I learned a lot.”* **Ms. Alizee BERSAN**

*“I think this internship was determining for the construction of my professional project. It also enabled me to be aware of the great challenges about water and environment that await us and the need to have an integrated management of the resources. (cf Nexus)”*

**Mr. Mohamed DAOUD**

Turin, Italy Double-degree in International Politics

Cooperation for Development. Research at GIWEH: “water footprints, virtual water, virtual water trade”.

- Mr. Shadi Abu Hartheih, January 2014 – August 2014, Palestine, Master of Environmental management. Research, - “Water in post 2015”.

- Mr. Elias Nait Leman- February 2014- October 2014, Switzerland, Ecole Nicolas Bouvier. High School, Geneva – DIP- Switzerland, “Develop a fundraising database”.

- Mr. Micael Sallen , March 2014 – June 2014. University of Geneva- Complementary program, Economics, University of Bath- Italy. “Development of a project outline regarding sustainable corporate water management and the implementation of water stewardship.

## Cooperation

### GIWEH and Graduate Institute visits to the West Bank, Palestine

In February 2014, GIWEH, represented by its director general Dr. Nidal Salim organized a visit to the West Bank, Palestine in cooperation with the Graduate Institute, Geneva - Switzerland and the University of Geneva represented by Dr. Alexander Dormier Freire.



The main objective of the visit was to discuss the different possibilities of cooperation to support the development agenda in the two countries mainly regarding water, agriculture and water governance. The team visited different related institutions from the public and private sectors and civil society, including the Ministry of Foreign Affairs, Ministry of Agriculture, Ministry of National Economy, and Ministry of

Planning, as well as Palestinian Universities: Birzeit University, An-Najah National University, and Palestine Technical University- Kadoorie. In addition to a number of organizations such as the Palestinian Hydrology Group, and the Palestine Economic Policy Research Institute (MAS).

These meetings sparked a strong interest among stakeholders for future cooperation and implementation of projects related to water in Palestine. GIWEH has been following up with these stakeholders to transform this interest into action.



## Participation in International Conferences & Meetings

### The Swiss Water Partnership (SWP) Post 2015 Advocacy Meeting (Bern, Switzerland)

GIWEH participated in the Swiss Water Partnership meeting on Post 2015 Advocacy on 24 January 2014 in Bern Switzerland. During this meeting, the Agenda on Global Sustainable Development in Post 2015 and an updated Swiss position on Water goal have been presented.

**GIWEH fully supports the Swiss approach and is committed to advocate for a dedicated Water goal with sub-goals and targets in the post 2015 agenda.** More information regarding Swiss position on post 2015 agenda can be found at [www.post2015.ch](http://www.post2015.ch). In the second part of the meeting, the members of the Swiss Water Partnership did a mapping of advocacy opportunities and planned advocacy actions. GIWEH is committed to promoting Swiss position on water in the countries of its work, as well as in all international forums that it participates.

### The 2<sup>nd</sup> Caspian International Aqua Technologies Conference (Baku, Azerbaijan)

GIWEH participated in the 2nd Caspian International Aqua Technologies Conference, CATEC 2014, on April 11, 2014, which was held at the JW Marriott Absheron Baku, Azerbaijan. This Exhibition is the only specialized event in the Caspian region that demonstrates the progress in the field of aqua technologies. The sessions of the conference focused on the issue of integrated water resource usage: environmental and economic assessments, in which Dr. Nidal Salim gave his presentation on water in the post-2015 development agenda. The conference brought together 400 participants, including more than 90

influential industry scientists, as well as representatives of

*“Our principal concern is to explore the potential environmental solutions that satisfy human needs, by developing and maximizing the quality and quantity of available water, through wise use and continuous monitoring.*

*That’s why we at GIWEH always make sure to be present in international events that concern water. These events help us strengthen our research, stay up to date with the global critical issues, network with influencers from around the world, and find innovative ways for better intervention.”*

**Dr. Nidal Salim**  
Director General



*GIWEH IS COMMITTED TO PROMOTING SWISS POSITION ON WATER IN THE COUNTRIES OF ITS WORK, AS WELL AS IN ALL INTERNATIONAL*

some 80 companies from 24 countries. This major international forum aims to demonstrate the progress achieved in the country in the field of water supply, and to discuss global technological innovations, issues in the water treatment industry and the development prospects for the industry. During the panel discussions, issues such as the integrated use of water resources and the application of innovative technologies in the processing of drinking water were covered.

### The Stockholm's World Water Week (Stockholm, Sweden)

31 August – 5 September 2014 in Stockholm, Sweden



It was a successful week of addressing the world's water, development and sustainability issues hosted by Stockholm International Water Institute (SIWI). This major event attracted over 2,500 participants and 200 collaborating organizations from around 130 countries all over the world.

The seminar prepared by the convening Swiss Water Partnership (SWP) and its co-conveners, including GIWEH, presented a series of advanced Swiss solutions to achieve water and energy security. This seminar presented titled "Tackling trade-offs between water and energy across sectors and scales" critically discussed in context of Tanzania and the Middle East and the potentials of scaling up. In addition, GIWEH exhibited in a co-owned booth with the Swiss Water Partnership and 9 other members, where GIWEH was able to share its current and future activities with participants and delegates.



## New Membership!

As of August 2014, GIWEH is a proud member of the **International Water Resources Association (IWRA)**.

We are looking forward to helping IWRA bring sustainable water management in the 21<sup>st</sup> century.

To learn more about IWRA please visit: <http://www.iwra.org/index.php>

## 2014 Creating Shared Value Forum (Lausanne, Switzerland)

October 9<sup>th</sup> in Lausanne, Switzerland

This was a high-level, invitation-only meeting that Nestlé S.A. was hosting in partnership with the United Nations Council for Trade and Development (UNCTAD). Entitled “Creating Shared Value: the changing role of business in society”

this unique day-long event was designed to stimulate thinking on how the governments, private sector and the civil society worldwide can work together to accelerate sustainable development. GIWEH was very pleased to participate in such an important event as one of its goals is to strengthen public-private partnerships and improve stakeholder engagement in the development process. To learn more about the event summary:

<http://www.nestle.com/Media/MediaEventsCalendar/AllEvents/Creating-Shared-Value-Forum-2014>



## The 53<sup>rd</sup> Board of Governors Meeting of the World Water Council (Marseille, France)

As a member of the World Water Council (WWC), GIWEH participated at the 53<sup>rd</sup> meeting of the WWC governors from 28-29 October 2014 in Marseille, France. The WWC's main objective is the



inclusion of a standalone goal for water among the Post-2015 Sustainable Development Goals, which is under their mandate to promote awareness, build political commitment and trigger action on critical water issues and



bring stakeholders together. This Council brings 300 organizations from more than 50 different countries involving multi-stakeholder groups including intergovernmental organizations, national governments, the business sector, NGOs, water user associations, and academia. The Council's deciding body is comprised of 36 highly involved Governors. This meeting in Marseille specifically included GIWEH's participation in the roundtable discussions on major issues for 2015 namely the 7th World Water Forum and the water goal in the Post-2015 Development Agenda.

### **Conference: Water and Energy Interactions – Strategic Challenges to Territorial Development (Lyon, France)**

29-31 October 2014 in Lyon, France

This conference was hosted by the Greater Lyon Authority, the Rhône-Alpes Regional Council, the Rhône-Mediterranean and Corsica Water Agency and EDF, in partnership with the World Water Council, the French Water Partnership, the GRAIE and SHF. This conference looked at the transition from the 6th World Water Forum to the forthcoming 7th World Water Forum and bridged with the Paris Climate



Conference COP21 (December 2015). For more information regarding this conference please visit: [www.preserving-the-flow.com/?lang=en](http://www.preserving-the-flow.com/?lang=en)

## The 4<sup>th</sup> Meeting of OECD Water Governance Initiative (Paris, France)

24-25 November 2014 in Paris, France at OECD Headquarters

The OECD Water Governance Initiative (WGI) is an international multi-stakeholder network of around 100 delegates from public, private and nonprofit disciplines where the goal is to share on-going reforms, projects, lessons and good practices to support good water governance. **The main area that GIWEH is advising on is the Stakeholder Engagement for Effective Water Governance.** More specifically, GIWEH is focused on the “the gap between science and policy-making as an opportunity rather than a challenge to support better contribution of academics and to get research into practice.” More about this meeting highlights:

<http://www.oecd.org/gov/regional-policy/OECD-WGI-4th-Meeting-Highlights.pdf>

## Other Events

-GIWEH attended a meeting on 28<sup>th</sup> November 2014 that was hosted by the Swiss Water Partnership, which discussed the Swiss presence at the seventh World Water Forum 2015 and how to get involved.

-On the Human Rights Day 10 December 2014, GIWEH participated in the Human Rights Forum: “Divest from War Invest in our Future”. Dr. Nidal Salim presented at this conference on GIWEH’s activities and right to water and Sustainable Development Goals.

-GIWEH also attended the Human Rights Council 26<sup>th</sup> session (10 – 27<sup>th</sup> June 2014) and the 27<sup>th</sup> session (8-26<sup>th</sup> September 2014).

In 2014, GIWEH has developed a five-year strategic plan 2015-2019. Seven strategic goals were identified in order to implement GIWEH’s mission, and to respond more effectively to the water crisis and its effects on the environment and health:

**Goal One** - Strengthening GIWEH’s role in the sustainable development process especially with regard to water in the post 2015-development agenda.

**Goal Two** - Increasing the focus of the development agenda on water governance and integrated water resources management.

**Goal Three** - Conducting research and developing training and educational materials.

**Goal Four** - Addressing the needs requirements of different countries, especially in unstable and post-conflict states.

**Goal Five** - Involving more youth and women in science and technology.

**Goal Six** - Supporting technology transfer, north-south cooperation, hydro diplomacy and trans-boundary resource management.

**Goal Seven** - Adapting clear and applicable monitoring indicators on high quality solutions for water security, particularly in water scarce regions.

## Looking Forward

**Programs:** We will host our very ICWRA, internship program, and will continue working on our commitment in the post 2015 development agenda through the two flagship programs: water governance and water monitoring framework.

**Upcoming Events:** GIWEH will be participating in major international events and conferences:

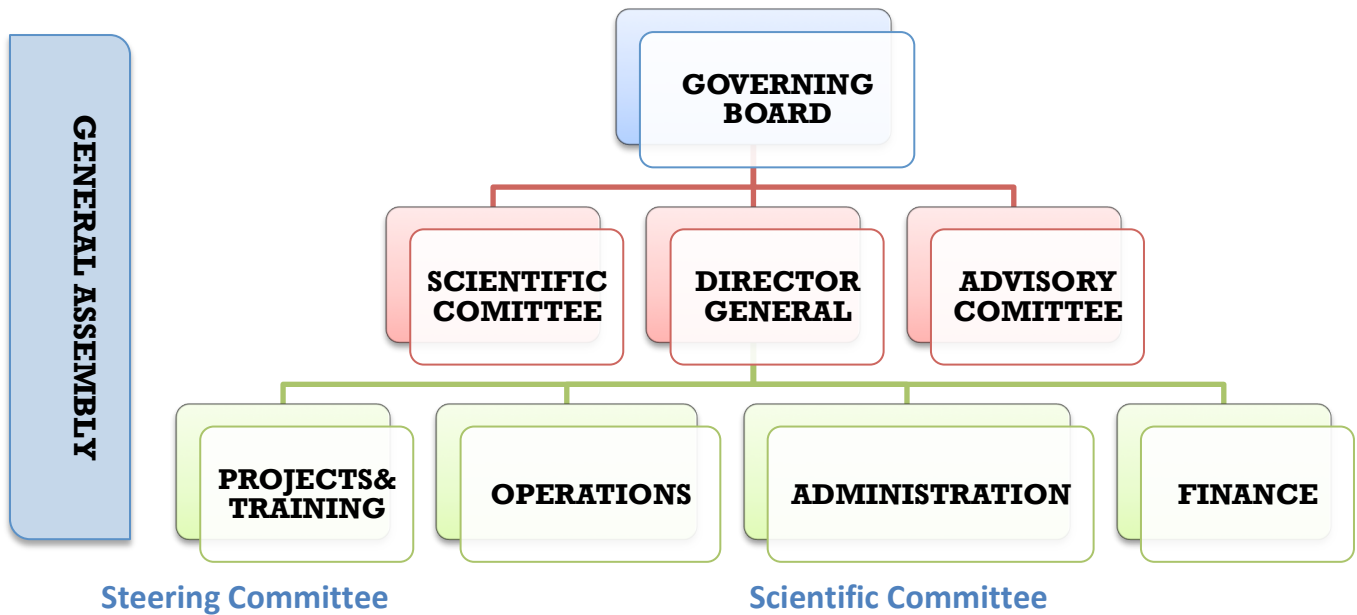
- Conference attendance and participation: **7<sup>th</sup> World Water Forum 2015**  
12-17 April 2015 in Daejeon & Gyeongbuk, Republic of Korea  
GIWEH will join the Swiss Water Partnership (SWP) and SDC in the organization of a Swiss Stand. For more information please visit:  
<http://eng.worldwaterforum7.org/main/>
- Conference attendance and participation: **XV<sup>th</sup> IWRA World Water Congress**  
25-29 May 2015 in Edinburgh, Scotland.  
Hosted by the Scottish Government, the objective of this World Water Congress is to provide a platform to share experiences, promote discussions and to present new knowledge, results of research and new developments in the field of water sciences around the world. For more information please visit: [www.worldwatercongress.com](http://www.worldwatercongress.com)
- Meeting attendance: **5<sup>th</sup> Meeting of OECD-Water Governance Initiative (WGI)**  
26 May 2015 in Edinburgh, Scotland.  
A message from the OECD: 'We are grateful to our Scottish counterparts for their kind invitation to host the network's closed-door meeting within IWRA Conference.' At this meeting the main focal point will be the Water Governance Principles. More information can be found on the OECD's Water Governance Initiative website: [www.oecd.org/env/watergovernanceprogramme.htm](http://www.oecd.org/env/watergovernanceprogramme.htm)
- Conference attendance and participation: **Stockholm World Water Week 2015**  
22-28 August 2015 in Stockholm, Sweden.  
This will be Stockholm International Water Institute's 25<sup>th</sup> year of hosting World Water Week in Stockholm. "Water and Development" is the conference topic and GIWEH will participate in a seminar and have a presence in the exhibition area. More information will become available in 2015.  
[www.worldwaterweek.org](http://www.worldwaterweek.org)

## Board Members

GIWEH is guided by an international Steering Board whose members come from diverse educational, professional and cultural backgrounds. New advisory board members have joined GIWEH in 2014. We look forward to prosperous years ahead with the help of the great experiences and prospects that our board members will bring to the organization.



## GIWEH STRUCTURE



Mr. Didier BARTHE, President

Ms. Karima PIRINI, Treasurer

Master of Environment- Geneva University

Dr. Khaled Qahman, Assistant Professor in Water and Environment at Alquds University,

Dr. Senthil Kumar

Dr. John Poté, Science and Technology, Professor Geneva University

Prof. Mohamed Jamil ABDULRAZZAK

Dr. Tazim ETWAREE

Dr. Vincent CHANUDET

Dr. Marion MINOUFLET

Dr. Salman SALMAN

Dr. Davide VIGNATI

### Advisory Board

**Prof. Chris William**, Centre for International Education and Research, University of Birmingham U.K.

**Prof. Walid Abderrahman** is a Professor of Water Resources Management, King Fahd University of Petroleum and Minerals, Advisory Board for the Minister of Water and Electricity, Saudi Arabia, President of Saudi Water Association, and Senior Executive Consultant Acwa Power.

**Prof. Jean-Pierre Lehmann**, founding director of the Evian Group, has been Professor of International Political Economy at IMD International Institute for Management Development since January 1997.

**Prof. Meine Pieter van Dijk** (PhD Economics Free University Amsterdam) is an economist and professor of Water Services Management at UNESCO-IHE Institute for Water Education in Delft.

**Mr Manzoor Ahmad**, the former Director of the FAO Liaison Office in Geneva in August 2008, functioning as the Director-General's Representative to the UN in Geneva.

## GIWEH's Current Memberships



**UNESCO-IHE**  
Institute for Water Education



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