

YWP Newsletter

Welcome to the October issue

Welcome to the 10TH issue of the YWP newsletter! The Young Water Professionals (YWP) programme is really taking off at light speed this year and has left a trail of "perfect ten" successes. Some of these achievements are outlined in more detail in this issue, but just to highlight a few notable developments:

1. First, we bring you the 10th issue of the YWP newsletter, a proud popular publication of the IWA. This publication is widely distributed across the world, and provides a great opportunity for you to interact with other YWPs, advertise a YWP event, or share your opinion of water related matters. Should you like to contribute to the YWP newsletter, please contact Frances Lucraft Frances.Lucraft@iwahq.org for further details.

2. Second, the YWP family welcomes Frances Lucraft, the fantastic new YWP Programme Coordinator! Frances has taken over from Adrian Puigarnau, and has stepped up to the plate with exciting suggestions and plans for the programme so stay tuned for further communication from her.

3. Third, the first ever YWP committee meeting was held on the 21 - 22 September in Vienna! Ten committed YWPs got together to carve out roles and responsibilities for the YWP committee and for committee members. In addition to introducing the committee to the IWA institutional structure, the committee also discussed progress

made to date (2010-2011) and the way forward in executing our work plan. This was done to ensure that the best service is provided to you, the YWP member, and to get you more involved in the IWA at large, particularly in specialist groups, IWA conferences and IWA programs.

4. Fourth, it has become widely recognised that the YWP Programme is growing in size and name. We receive correspondence from young water professionals across the globe eager to set up national chapters in their home countries, organise conferences in their regions, and interact more with other YWPs in their regions. As a result of these developments the IWA and the YWP Committee have committed themselves to supporting the development of such regional activities by developing guidelines for the establishment of national chapters and governance procedures.

5. Speaking of YWP activities in the regions, the YWP committee have nominated regional representatives that will act as the regional "voice" of YWPs at the IWA organisational level. These regional representatives will be involved and informed about regional/national YWP events and represent the IWA YWP Programme committee in the region.

6. The YWP committee also sees the need for more involvement of YWPs in the IWA's amazing Specialist Groups (SGs). Dr Arash Zamyadi, the YWP committee vice-chair, is the recognised YWP liaison who will



coordinate the committee's plans in SGs. Already, there are SGs that are making enormous strides in building the capacity of young professionals by including us in their management committees and coming up with other innovative ways to help YWPs get more experience, exposure and mentorship. We will be profiling these SGs in several IWA publications in the next coming months.

7. You must have already seen the announcement and call for paper outlines for the Sixth YWP International Conference taking place in Budapest, Hungary from 10 - 13 July 2012. The deadline for paper outlines has also been extended to 31 October, so don't miss out on this extended opportunity to participate in what will be a massively successful event!

8. While we're on the topic of massively successful events, please excuse my bias, but I have to applaud the Southern African YWPs for organising the biggest

2 Interactive seminar



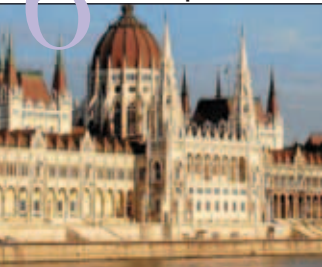
3 South Africa



4 1st Central Asia meet



6 Budapest 2012



7 Tree planting in Uganda



The Official sponsors of the IWA Young Water Professional Programme are:

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YWP conference in YWP history. The Second SA YWP regional conference held from 3-5 July this year attracted 450 delegates from 10 countries, received 210 abstracts and accepted 45, accepted 103 posters of which several full papers have already been reviewed and accepted for publication in "Water Science and Technology" or other IWA affiliated journals.

9. Another event not to miss is the first East African YWP Conference taking place in Kampala, Uganda from 8 – 11 December this year! The East African region have mobilised a huge support base and this is bound to be an exciting development in the region not only for

young professionals, but for all stakeholders interested in building capacity in the East African water sector.

10. And while we're on the topic of East Africa, another great initiative from this region is a tree planting initiative that has grown to new heights (pardon the pun)! Please see the related article in this issue for more details.

But it is not only YWPs in the African region that are mobilising support bases. YWPs in South America, and Brazil in particular, are also taking the lead in bridging the divide between Anglophone and Lusophone water sectors

(all the more reason for this here Anglophone to learn Portuguese!). So YWP members get ready...this YWP Committee is going to come at you with a vengeance. We also need your help. If you would like to become more involved in the planning and organising of events, or are just interested to hear more, please contact myself IngaJacobs30@gmail.com or Frances Lucraft frances.lucraft@iwahq.org for more information.

**Many thanks,
Inga Jacobs
Chair of the IWA Young Water
Professional Programme**

An interactive Young Water Professionals Seminar!

For the fourth year in a row, the Swedish Water House, together with the International Water Association, yesterday arranged the Young Water Professionals seminar at the World Water Week in Stockholm International Water Association at the World Water Week in Stockholm. One thing that we wanted to change this year was to give more time for discussions since these have proved to be very interesting, full of creative ideas, thoughts and perspectives. Our experience has been that the time for discussions often has felt too short, thus, we made an exercise for the YWPs to work with- hoping for a more interactive seminar. The exercise the participants were given was to rebuild the city of Banda Aceh that was shattered by the tsunami in 2004. How do we build a city that provides for its people while at the same time being socially and environmentally sustainable? What are the best solutions for water supply, sanitation, energy and food production and livelihoods, considering the local context? The participants were divided into these different areas to try to answer this question. When planning their city they both had to consider the overall challenges that Rose-Osinde Alabster (UNICEF) had presented in the beginning of the seminar such as climate change, population growth and unsustainable resource use and the local context (political setting, climate, natural resources available, culture, gender and so on) described by Alastair Morrison (WGF at UNDP).

It soon became clear for the participants that the real challenge was to get all these systems working together. The different systems



are largely dependent on the same resources and if not coordinated can easily result in competition for financing, water etc. The young water professionals had many ideas on how these different systems could be integrated. The sanitation group suggested that wastewater could be used both for biogas production, and as fertilizers for agriculture. The water supply group had thought about creating a system that did not use up too much energy. The food production and livelihoods group suggested household gardening as a solution for Aceh and had thought about how to make use of wastewater and rainwater for these gardens. Although there

was a realization in all groups that some trade-offs had to be made, the focus was on solutions. Using a case to work with was very much appreciated by the young water professionals. It was a great way of getting the young water professionals engaged -the room was buzzing of ideas! Hopefully, we'll try something similar next year.

See more pictures from this seminar at:
<http://www.flickr.com/photos/worldwaterweek/sets/72157627367549817/>

Karin Glaumann, SWH

www.ywp.iwahq.com

Southern African Young Water Professionals Reunite in Pretoria

The second regional conference of the Southern African Young water Professionals was held at the CSIR ICC from 4 to 5 July 2011.

Jo Burgess reports.

The conference was organised by the Young Water Professionals (YWPs) under the auspices of the Water Institute of Southern Africa (WISA) and the International Water Association (IWA).

The YWPs Programme was established in South Africa in 2008, and quickly became the largest of the national chapters, spreading to become regional by the end of 2009. The IWA has national YWP Chapters in operation in the UK, Russia, Austria, Mexico, China, The Netherlands, Belarus, Australia and other countries, and regional chapter (like the Southern African YWPs) in Asia-Pacific, the Baltic States and the newest chapter of all, in East Africa. The SA YWP receives immense support from WISA, its home in South Africa, and is able to offer both the IWA's global overview and WISA's high resolution national viewpoint.

It is widely recognised that capacity building and sustainable knowledge transfer are critical concerns for several sectors in Southern Africa, and the water sector is no different. The loss of intellectual assets is a major threat to effective water management particularly in water-scarce countries such as South Africa where the onus has always been on the scientific community to find technological solutions for sectoral challenges. The repercussions for the sector include high staff turn-over as well as the loss of skills and institutional memory. Young Water Professionals in South Africa are therefore faced with the threefold challenge of developing their skills; finding mentors to help them do so; as well as grappling with the added responsibility of re-learning knowledge that could have been retained through sustainable knowledge transfer policies and programmes.

In Southern Africa, the SA YWP has been successful in providing opportunities for YWPs to meet and communicate; providing career development opportunities for YWPs; supporting employers with the recruitment and retention of YWPs; as well as ensuring that the Programme remains relevant.

We believe that young professionals will play a vital part in facilitating change in the water sector. The youth are dynamic enough to take change in their stride, while having the mentorship of distinguished water professionals for guidance. YWPs are faced with the consequences of the environmental threats, and are passionate about improving the situation. More than this, they aim to improve the way things are done in a fun and positive way, while still maintaining economic relevance and



scientific excellence. YWPs are comfortable working in a multi-, or even trans-disciplinary environment making them well suited to tackle the challenges facing us today in a communicative, team-based manner.

The 2nd SA YWPC was extremely successful. The attendance was over 400 delegates and exhibitors, beating the previous world record (which was set at the 1st SA YWPC). Delegates in attendance were from government departments, water boards, universities, municipalities and private engineering and/or consulting companies. Thirty-five international delegates attended from sixteen African countries outside South Africa, Europe and Australasia. In total, 207 abstracts were received. Of these 103 were poster presentations and 48 platform presentations.

Awards

The conference hosted an Awards Lunch, where awards were presented for the Best Platform Presentation and Best Poster Presentation.

The Best Platform Presentation Award, sponsored by Iliso Consulting, went to Miss Tanya Yasvoyn from the Department of Medical Virology, Pathology at the University of Pretoria. Her paper was entitled 'First detection of human sapoviruses in river water in South Africa'. Miss Yasvoyn will represent South Africa at the Sixth

IWA International YWP Conference in Budapest, Hungary, 10th to 13th July 2012. The prize is valued at R20 000 and includes flights, registration fees and a subsistence allowance.

The Best Poster Presentation Award was presented to Miss Katayi Mwila from Rhodes University's Department of Biochemistry, Microbiology and Biotechnology. The Award was sponsored by the Water Research Commission and includes travel, subsistence and registration for Miss Mwila to present her poster at the WISA Biennial Congress in May 2012.

Social reporting

In another world first for the YWP programme, two social reporters (Garth Barnes of WESSA and Mariette Wheeler of APECS) provided video streaming of snippets of presentations and reflections of the delegates on the YWP Facebook page in real time, to provide those who YWP members wanted to attend but were unable to do so with a window into the conference. This proved to be tremendously popular, not only with absent YWPs but also with those who had been able to attend in person and who were torn between the parallel sessions.

1st IWA YWP Conference Central Asia

Republican State Enterprise "Kazhydromet"

About 90 participants from 17 different countries (Central Asia, CIS, EU) traveled to Almaty (Kazakhstan) to discuss important for Central Asian countries topics:

- Transboundary management: discussions were originally under "water management" but rapidly, due to the specificity of the region, it meant transboundary management though concrete examples and success stories. Some examples: information data management, underground water resources, urban water versus isolated areas, soil pollution, water quality, biodiversity... Along main rivers and basins.
- Water treatment and supply questioning infrastructures management, quality of drinking water and any other types of techniques and challenges that helps to provide to the customer, the best quality of drinking water. It means to eliminate water pollutants, pesticides; localizing water leaks; filtration techniques... For those who don't know anything about water, you should know that engineers spend their time and competences in coping with various concrete issues to provide you a good tap water.
- Wastewater treatment which consists in treating our waste, the most organic to the most chemical. In sum, it's also a lot about techniques and innovation. The idea is to bring a clean water back to natural resources while producing energy (wastewater treatment can provide energy from sludge) or while reducing the carbon footprint of wastewater plant.

When you look at the specific issues to the Central Asia Region, you clearly see the necessity to work together between different countries and between different users.

Live from the conference

"Water unites all of us." A. Gurinovich (Professor of Belarusian State University, Minsk, Belarus)



"Water is life; water is part of our life. It's a slogan in any print materials of any time and countries. These works are spoken by ministers, presidents... But also civil persons. Why is that? You know that there is the MDGs speaking about water access and sanitation access. But few people know what it really means." V. Syundyukov (President of Water Association, Astana, Kazakhstan)

"We need to look from multi-disciplinary approaches as water concern every one of us and at different level. Law is not above politics which it may be what we need." B. Janusz-Pawletta (Dr. of International law, German-Kazakh University, Almaty, Kazakhstan)

A price for a lady!!

A tradition to YWP is to invite to the Biannual International YWP conference for the best presentation. The next International YWP will be held in July 2012 in Budapest, Hungary and the lucky winner is a young woman from Kazakhstan: Anastassiya Lineitseva. Enough to say hooray to this engineer from the



and expert of the Regional Centre of Hydrology of the Republic of Kazakhstan. What is interesting about this young woman

is that she loved water since her very first age as she wanted to "be a saver of water". To achieve her dream, she had to move to Almaty and get education and reach her current status of being an expert, an inspiring story to all of us. As says Anastassiya, "we can save clean water for the future generations. We should be active, energetic, don't be afraid of difficulties and barrier, because together we are force and future of our countries. And more, you should dream, the dreams come true - believe me!" Let's dream and build water together!" Her all story is below.

A bon entendeur, see you soon in Saint Petersburg where the next Eastern Europe YWP conference will be held!

Maryna Tserashchuk (Vice-Chairman IWA YWP)
Celine Herve-Bazin (Member of Org Comitte IWA YWP Central Asia).

“I encourage all young water professionals to actively participate at this event which is a unique platform for networking and exchange of our visions for modern solutions in water management.”

Shavkat Rakhmatullaev
German International Cooperation Asia Programme,
Tashkent, Uzbekistan

“Water is the most valuable natural resource in the world and it is also the global issue. Solving water shortage is the duty of everyone. However, the consumption of water is steadily increasing and it is urgent to explore possible ways to solve the problem of water crisis, especially for arid and semi-arid areas, by the international academic exchanges we can accumulate experience and share lessons learned and best practices, at the same time we also can popularize and apply scientific and technical achievements, so academic exchanges should be promoted.”

Yuan Yao
Geography Institute Heidelberg University
Heidelberg, Germany

“I am looking forward to the next YWP IWA conference in St. Petersburg. It will be one more chance to meet for all of us who already know each other from the previous conferences. I would like to encourage all young water professionals to take part in the next YWP conference. This is a great chance to meet many interesting people, to learn about new exciting ideas, to gain a lot of new experience, which will significantly facilitate your career in the future.”

Sergey Lobanov
Young Researcher
University of British Columbia, Canada

A YWP Member shines at the 7th International Sustainability Forum of BMBF

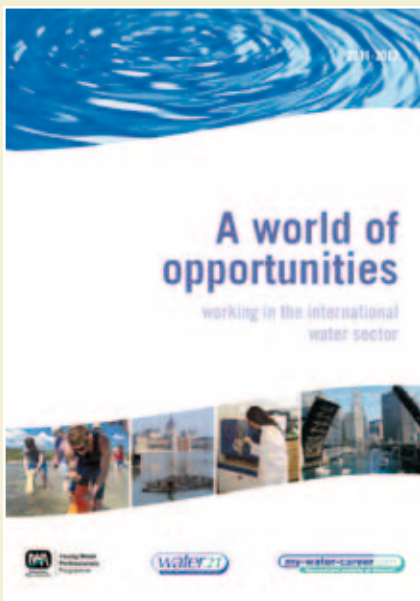
Green Talent Winner wins publication award

Dr. Tonni Kurniawan, one of the 2010 Green Talents (Indonesia), received the 2011 Publication Award from the International Solid Waste Association (ISWA) during its World Congress in Daegu, Republic of Korea from 17 to 20 October 2011. The Award is designated to recognize publications that contribute to the field of solid waste management. Dr. Kurniawan's article, entitled "Biological processes for

treatment of landfill leachate", was published by the Royal Society of Chemistry (RSC) in the Journal of Environmental Monitoring in October 2010, as a part of the Emerging Investigators special issue featuring the work of up-and-coming researchers at the forefront of environmental sciences. The paper covers a literature survey of 188 papers published between 1976 and 2010 with a critical analysis of the technical applicability of a variety of biological processes for treatment of landfill leachate.



World of Opportunities



The IWA's Career Booklet "World of Opportunities" for 2011-2012 is now available at the link below:

http://www.iwapublishing.com/pdf/WorldofOpportunities_2011-2012.pdf

About the Publication:

Free guidance to help shape early career decisions. A collaboration between IWA's Young Water Professionals Programme, Water21 magazine and the my-water-career.com website, 'A world of opportunities - working in the water sector' is an annual publication launched in 2008 that aims to provide valuable information for those making early career decisions. Containing articles covering key issues affecting the water sector and profiles of individuals working within it, 'A world of opportunities - working in the water sector' highlights the significance of the sector and the diversity of

career opportunities that exist.

Water and wastewater utilities and other organisations in the sector face a recruitment challenge. There is an ageing workforce, whose skills and experience need to be handed on to a new generation. At the same time, the sector needs to attract the brightest talent from an ever-widening range of disciplines. This talent is needed to deliver solutions to the issues faced in the sector and to respond to the business opportunities these present.

Contents include:

Overview articles on key issues affecting the water sector, underlining the value of a career in water. Articles highlighting the many different aspects of working in the sector. Short profiles of individuals already working in the sector. Career development resources.

Water Future Forum: Water in Changing Climates Young Water Professional Perspectives

Reported by AWA WA YWP

AWA Western Australia and its Young Water Professional committee hosted the inaugural Water Future Forum, on Thursday 26th May. The half-day conference was held in the Perth Convention Centre, where some 70 delegates heard from key note speaker and award winner of the National Young Water Professional of the year, Josh Byrne, followed by 3 different yet interconnected streams of our water industry. Presenters shared a young people's perspective on the changes in climates, political and regulatory change, climate change and social change, resulting in an integrated perspective of the water future in Australia.

Elko van Der Vaart – WA AWA YWP president - and Amanda Hazel - National AWA

YWP president, opened proceedings highlighting the numerous benefits of the association's membership and upcoming events such as the mentoring program, to be launched during July's mid year mingle event. So far 12 mentors have volunteered to support the new generation's professional development. With the high quality of the speakers and the diversity of the audience, the industry is shaping to have an integrated and well communicated future in the hands of today's young water practitioners.

Josh Byrne, demonstrated how it is possible to have a green and functional garden in Perth's harsh and dry weather, while maintaining a low demand on treated drinking water. Josh covered the potential water reuse applications

and showcased a tangible real-life example of sustainability in action, the Grove Project – jointly funded Library and Community Centre for the Town of Cottesloe, Shire of Peppermint Grove and Town of Mosman Park. Josh explained – "The integrated wastewater system at The Grove has been designed to supply a proportion of landscape water demand for irrigation (i.e.: substitute for bore water); effectively manage and utilise nutrients from the wastewater stream for landscape plant requirements; recharge the shallow aquifer to offset bore water use for seasonal landscape demands that exceed available wastewater volumes; and reduce volumetric and pollutant concentration loadings on the mains sewer."

Chris Pepperell, a chemical engineer and greenhouse gas consultant from Melbourne, highlighted the water industry reporting guidelines for the National Greenhouse and Energy Reporting System (NGERS). Chris introduced NGERS in relation to the future carbon pricing regime, the guidelines' definition for water treatment facility and also discussed the NGERS reporting requirements. The presentation covered case examples from Melbourne Water and Sydney Water and explored the NGERS measurements determinations in methane and nitrous oxide emissions. Mr Pepperell concluded explaining the next steps to finalise the NGERS Guidelines for the Water Industry to be presented at the WSAA energy and greenhouse network meeting on 30 May 2011.

Michael Voros, a lawyer working with legal and strategic issues for the evolving Australian and global new 'green' economy, presented on the Australia's on progression to a carbon pricing in the political arena. He assisted the audience to better understand the carbon price proposal explaining the 2 phase implementation approach with an initial fixed price from 1st July 2012, followed by an emissions trading scheme in the second phase. Michael explored the current politics scene and its key players' drivers and drivers in the carbon price debate. Michael highlighted that the proposal will assist behavioural change as emissions intensive goods and services will be more expensive (including water services). He concluded his presentation with the question "Why is it a YWP issue?" His answer was that it is a YWP issue because these changes (political, climate, social etc) are related to now and to the future; Carbon pricing is all largely new so provides a great opportunity for the young professionals to run with it.

Katrina Annan, the winner of the 2006 Undergraduate Water Prize, presented an informative and entertaining summary of the significant weather events we, in WA, experienced during the 2010 – 2011 La Nina season. The tropical cyclones, floods and tornados that considerably changed the scenario in the North West of our state kept the Bureau's staff on their toes during the whole season. Several gauging stations exceeded previous rainfall and level records, such as the Nine Mile Bridge in Carnarvon that peaked 7.80m on Monday 20 December (previous record was

7.63m in 1960). Continuing with her highly informative presentation, Ms Annan taught us the characteristics of La Nina and El Nino, the South Oscillation Index, the El Nino Southern Oscillation (ENSO) cycle and the Indian Ocean Dipole that in a nutshell can be represented by the position of warm/cool waters, strength and wind direction, atmospheric pressure gradients and local convection. Katrina advised that the outlook for the 2011 winter rainfall will be drier than average for the southwest of WA (and ensured everyone understood that the extremely dry 2010 winter was not to be taken as an average year reference), which brought us all back to the reality after an interesting, humoured and well informed presentation.

Graham Currie, the Engineers Australia Young Professional Engineer of the Year 2010, presented the Aqwest Bunbury Water Board plan to maintain its customer services during a major natural event or disaster. Graham started his presentation by highlighting recent global and Australian events such as the earthquakes in Christchurch and Japan, Brisbane floods and Victorian bushfires. After his introduction, Graham ran the audience through the extensive preparation that Aqwest is undertaking to ensure business continuity in case of a major disruption. This preparation includes, amongst other points, the proposal to build a dedicated facility to ensure critical processes are restored as soon as practicable after a disaster.

Disaster management and business continuity was the theme of the YWP workshop conducted at OzWater'11 in Adelaide earlier in the month. And although during major crisis mainly senior water professionals are kept awake, it is was good for the audience of young professionals to be exposed to the responsibilities that water utilities hold in the community.

Elise Paskett, the Water Corporation's project manager for the Margaret River Water Smart Project - winner of the 2010 AWA Program Innovation Award - explained the Corporation's initiatives in water efficiency that is helping to address the water supply pressures in Western Australia's drying climate combined with rapid population growth. Again, the audience was locked into a highly informative and passionate presentation that not only indicated the current (water) situation with future demand/supply estimations, but also provided

a detailed insight on how the Water Corporation progressed over the last years from piloting and successfully implementing Community Based Social Marketing projects to securing Federal government funding for the implementation of the Integrated Regional Water Efficiency projects, both in the North West and in the Great Southern Regions of Western Australia. Elise took us through the journey of changing the way we use water in a vibrant in a highly informative and comprehensive presentation.

Matt Walsh, a founding director of Engineers Without Borders Australia, is currently working to help build world class sustainable cities. Matt presented, with a great humour, the concepts that today's planners and engineers are facing to ensure the future of our cities. Matt explained – "Resilience is the capacity of a system to absorb disturbance and still retain its basic function and structure". In some parts of the world, and in Australia, we have great examples of how to implement and achieve designs that will use, instead of dispose, waste as a resource. Matt presented several case studies such as the Grocon Pixel Building and the Council House 2 in Melbourne – both with design that incorporates rainwater harvesting, on-site black & grey water treatment and other innovative measures. From overseas, Matt showed us a case study of Hammerby Sjostad, City of Stockholm.

Matt finished off by bringing the presentation back to Western Australia, highlighting the Stirling City Centre biophilic design including the stormwater capture, wetland and ground water recharge. His presentation was well received and through a combination of humour and thought-provoking ideas, gave the delegates something to talk about during the networking drinks.

Overall the conference brought a great range of presenters together that spoke on very different, but complimentary subjects related to the future of the Water Industry in Australia. The forum covered the full range of changing climates from the regulatory and political climate, the natural climate through to the social climate including behaviour change and community based initiatives. In conclusion, WA's first Water Future Forum was a success and certainly lived up to its theme *Water in Changing Climates*.

6th International Young Water Professionals Conference 2012

10-13 July 2012

Budapest, Hungary

Coming in 2012 is the biennial International YWP Conference – a must be event for your diary. The YWPC2012 will provide a forum for young researchers and professionals working in water and wastewater research, technology and management to present their work and meet

their peers from all over the world. The Conference will consist of papers and posters presentations, career development workshops for all sectors of the water/wastewater industry, unparalleled networking opportunities and technical tours as well as social and cultural events in the very heart of Europe

Proposed Themes:

- Water Resources
- Water Distribution
- Water Treatment Processes
- Disinfection

- Water Quality
- Biological Treatment Processes
- Waste Stabilization Ponds
- Physico-Chemical Treatment Processes
- Constructed Wetlands
- Particle Separation
- Environmental Impacts
- Social Impacts
- Statistics & Economics
- Water Policy

Website: <http://www.iwa-ywpc.org/>

Zimbabwe Young Water Professional Chapter launched

THE YOUNG Water Professionals in Zimbabwe have launched a network to share experiences on how to address challenges bedevilling the water sector.

The Zimbabwe young water professional chapter has been established with the full support of WaterNet and IWA.

Launched in March 2011, the vision of the chapter is “to establish an active network of young water professionals who are relevant to the water sector in Africa”. This would be achieved through the following objectives:

- Bringing together Young Water Professionals who are able to identify pertinent sector challenges and find solutions to them
- Developing a mentorship programme which will link young water professionals with seasoned water sector professionals, thus creating opportunity for career growth
- Creating a platform where young water professionals in Zimbabwe can share experiences and opportunities in the water sector
- Creating awareness of important sector principles for example Climate Change to communities and grassroots levels in order to reach out to the next generation
- To integrate the Zimbabwe Young Water Professionals Chapter with other country chapters in Africa; SADC Water Division

activities and other regional and global water initiatives.

The Zimbabwe Young Water Professionals has a membership of 20 people drawn from diverse backgrounds such as the mining sector, Non-governmental organization, government ministries, universities and the private sector.

Recently the chapter successfully participated in national events illustrated in the pictures below. The chapter is being coordinated through a steering committee and is looking forward to a great future.

Belladonah Muzavazi YWP Committee Member, Zimbabwe

Tree planting in Uganda

95% of the population in use firewood and/or charcoal for cooking. In the last twenty years, Uganda has lost about 1/3 of its forest cover, mainly due to population growth and the increasing demand for firewood and charcoal. This has led to soil erosion, siltation of rivers and lakes and the loss of water catchment areas. Given that the current trends persist, Uganda is estimated to be defined as a 'Water Scarce Country' by the year 2035. We therefore must act now. One way to act is by planting trees.

With the level of carbon dioxide expelled by humans, it is advisable that every person must plant 900 trees in his/her lifetime to equate to the level of carbon dioxide released out.

The Young Water Professionals in Uganda have therefore taken up the hoes to secure the future by planting trees and conducting tree planting campaigns in various regions as measure to lure others into the same actions

Benefits from trees

1. Trees protect the water catchment areas from depletion/ pollution by water runoffs
2. They facilitate rain formation
3. They provide shade
4. They preserve the environment
5. Their leaves act as fertilizers in gardens
6. You can do carbon trading with trees
7. You can get money out of timber from trees
8. They help to offset greenhouse-gas emissions

Dangers due to lack of trees

1. Lack of rainfall will result into famine killing the entire population
2. Loss of the natural beauty
3. Soil and water run offs will deplete the catchment areas leading to an increase in



the treatment costs of water extracted from water sources.

How to plant trees

As explained by the experts from National Forestry Authority, depending on the type of the tree, trees are planted at a distance from each other. However, in a situation where you are planting a natural forest with very many different species, a range of 10m apart from each other is adequate. This is to give them enough space for branches and roots expansion and also to limit competition for food among them.

Procedures for tree planting

There are only two main procedures; Nursery and pre-planting

1. 'Prepare a nursery bed in a cool area with limited access to strong sunrays
2. Get the seeds/stems/roots for the type of tree you want to plant
3. Spread them in a nursery bed
4. Cut polythene bags and fill them with soil.



5. After germination, fix each seedling in a separate polythene bag and leave them in a place of no strong sun rays for two weeks (at this time the trees are ready for transplanting to any field)

Transplanting

6. Clear the area where you want to plant the trees
7. Organize for the manure you will apply to the seedling during planting
8. Dig the holes for the trees 10meters apart from each other. The holes are 1m deep
9. Using your hands, scrap off the polythene off the seedling
10. Fix the seedling into the hole and cover it with the light soil, then add manure on top of the soil and finally cover the entire hole using the soil dug from the same pit.
11. Lastly, water the plant using a watering can.

**By Rosemary Nakaggwa
East Africa Young Water Professional
Programmes Officer- APWO Uganda**

Switzerland

Support for Business Development in Sustainable Sanitation and Water Management: cewas – the international centre for water management services – is a unique institution combining advanced education and support to young professionals to start up a business in the field of sustainable sanitation and water resource management. It builds up SMEs (Small and Medium size Enterprises) that can offer technical and managerial expertise to national and international organisations and private clients. Start-ups are supported by a core group of international experts, bringing in their expertise and the current state-of-the-art knowledge. There are several trainings going on in the next months: check out the cewas training programme. Application for the next cewas Start-Up programme starting in March 2013 is now open. For further information or to apply, contact-us at info@cewas.org

cewas

international centre for water management services



Dear Water Community

An exciting research initiative has been launched at the University of Cape Town, South Africa for an MSc in EGS. Running under the name of **Aqua d'UCT**, it seeks to integrate water research and requires all stakeholders and interested parties to participate.

Are you interested or involved in water affairs and research in South Africa? If so, visit www.aquaduct.org.za for more and to sign-up to participate (it takes less than 30 seconds).

All are welcome, whatever your water interest.

Regards,
Raymond Siebrits

MSc candidate: "Water research in South Africa: knowledge and adaptive capacity"
Department of Environmental and Geographical Science
University of Cape town

www.aquaduct.org.za

YWP events for your calendar

1st East Africa Young Water Professionals Conference

11-13 December 2011

NWSC International Resource Centre, Kampala, Uganda

Website: www.nwsc.co.ug

The East Africa Young Water Professionals Conference under the theme "Water for tomorrow: A collective responsibility" will provide a forum for professionals especially the young working in water and wastewater research, technology and management to present their work and share their experience on the role of different stakeholders in ensuring that this fundamental resource is preserved for the next generation. The conference is open to all professionals in the water sector especially the Young Water Professionals in East Africa and the International community. The participants will have the opportunity to showcase their works, share their experience, network and make contributions to preserving water for
Contact: Organizing Committee
E-mail: eaywp@nwsc.co.ug
Website: www.nwsc.co.ug

UK Young Water Professionals 2012

18-20 April 2012

University of Exeter, Exeter, UK

Website: <http://events.exeter.ac.uk/YWP2012/index.htm>

Submission of abstracts: 1st November 2011
Notification of acceptance: 1st December 2011
Submission of full paper: 1st February 2012

We are pleased to announce that the 13th International Water Association Young Water Professionals Conference for 2012 will be held at the University of Exeter from 18th-20th April. More information regarding the conference (programme, venue, registration, sponsors, accommodation) will be posted here shortly, so please check this page regularly to keep up-to-date.

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Guangtao Fu (g.fu@exeter.ac.uk)

1st Bulgarian YWP Conference 2012 – Sofia, Bulgaria

17-May-12 - 18-May-12

Website: <http://2012.ywp-bulgaria.com/>

The main objective of the 1st Bulgarian National YWP Conference-Sofia 2012 is to promote the development and implementation of innovative and effective approaches to water management by which to show the YWP's role in the Water sector development with all the challenges and opportunities which this vital sector offers. It is organized by the Bulgarian Water Association and the IWA – Young Water Professionals. The conference is open to all the Bulgarian and international young water professionals. The official language of the conference is English.

Submission's Deadline of abstracts: 15th of December 2011

Notification to authors: 30th of January 2012
Submission of full papers: 30th of April 2012