

MESSAGE FROM THE PRESIDENT



Oliver Nachevski
EWB-I President

The focus of this EWB-I quarterly Newsletter are the projects that six EWB member associations are implementing within the Tetra Tech's 50th Anniversary Global Clean Water Fund. The \$50,000 grant program supported the selected projects that will provide clean water for communities in need.

With the support of the EWB International Executive Board and Secretary, and under the lead of EWB Denmark and EWB Sierra Leone, a joint proposal on the WASH project has been prepared and submitted. This is in response to the call for proposals by the Toyota Foundation Research Grant Program 2016 under the theme "Exploring New Values for Society".

Also, EWB International is moving the webhosting to a much safer place! Due to continuous virus attacks and breakdowns of the website, we decided to move and at the same time to update our website. Hopefully the next issue of the EWB-I Newsletter will introduce the new website. Shortly the election process of the new EWB-I Board will begin. We expect good nominations and an experienced and brave new board to face with the challenges in the upcoming period.

Thank you for your contribution that is helping us to share your successes and lessons learned with the whole EWB network. Sincerely,

TETRA TECH



For more than a decade, Tetra Tech has supported EWB organizations in providing clean and safe water to communities in need, such as this Maasai community in Tanzania.

Tetra Tech's 50th Anniversary Global Clean Water Fund, established in partnership with Engineers Without Borders – International (EWB-I), supports projects that provide clean and safe water for communities around the world. In July 2016, Tetra Tech publicly announced six recipients of the \$50,000 grant program that honors its legacy of leadership in the water sector.

Projects include a prototype rainwater system for a children's shelter near Rio de Janeiro (EWB Brazil); a cased water well system for the community of Mbondadick, Cameroon (ISF Cameroon); a drinking water filtration system for a rural primary school in India (EWB Bangalore Professional Chapter); sustainable water point maintenance training for local government offices in

Malawi (EWB Canada); a biochar water filtration system development in Mexico (EWB UK); and water supply solution development for schools and health clinics in Ossu village, Timor-Leste (EWB Australia).

"Tetra Tech created this Global Clean Water Fund to commemorate its 50th Anniversary, building on its legacy of leading with science," said Dan Batrack, Tetra Tech Chairman and CEO. "We were very impressed with the quality of applications and the dedication of the project teams to identify innovative approaches to solving community water challenges."

Tetra Tech is proud to support the life-changing work of EWB organizations around the world.

For more information, contact EWBWaterGrant@tetratech.com

EWB INTERNATIONAL CLEAN WATER PROJECTS AROUND THE WORLD

Water may make up 70 per cent of the world, but water scarcity affects more than 40 per cent of the world population. An estimated 783 million people do not yet have access to clean water, and 3.4 million people, mainly children, die every year from diseases related to water quality and quantity.

Big plants with big stakes

Water access, sanitation and sustainable management of water resources are some of the most consequential problems with which the world is confronted. The implications of getting water management right are local and global, affecting not only humanity, but arguably, affecting all life. Worldwide, collective efforts have been directed at finding concrete and innovative solutions for clean, affordable, sustainable and available water. With the support of 50th Anniversary Global Clean Water Fund Grant of Tetra Tech, EWB International is delighted to be leading a shared approach on solutions to water issues.

In field action

In the Ossu Subdistrict of Timor-Leste, EWB Australia in partnership with WaterAid and the Willoughby Friends of Ossu assess and plan a community led sanitation program. EWB Australia began to develop a water supply solution to provide access to water for a school and health clinic in this village. EWB Cameroon is working to develop a holistic water management program in the Mbondadick community that will empower members of the local community to become self-sufficient in solving water and sanitation programs. Clean water will be provided by a cased water-well system, which is locally constructed with members of the Mbondadick community.

The current activities of EWB Brazil have been to create a sanitation system that includes a sand biofilter, an UV reactor fed by photovoltaic lamps and a charcoal filter. This system will provide clean water to poor, disadvantaged people. The knowledge and expertise developed through this project will be some of the broader benefits gained by a co-op in the Nova Iguazu city, in Rio de Janeiro.

The EWB Bangalore professional chapter built a drinking water filtration system for a rural primary school in Kunigal (India). At Tingathe Fellowship Workshops, local government water officers from 15 districts in rural Malawi come together with EWB Canada representatives to learn from each other how to implement cost-effective innovations in service delivery that help them serve their communities better. In Guanajuato (Mexico), polluted water sources are producing high levels of fluoride and arsenic. This is causing illnesses such as dental and skeletal fluorosis and developmental difficulties in children. An EWB UK project is developing a filtration system that can remove these chemical contaminants, using bone char and wood-based bio char.

All projects will be finalized in 2017.



EWB Australia in Timor-Leste



Biochar filter - EWB UK



ABOUT EWB ARGENTINA

Engineering without Borders Argentina (EWB-Argentina) is an interdisciplinary civil association working for the development of communities in situations of vulnerability by means of engineering projects. The organization was created 4 years ago, and it has different areas of work: water and sanitation, education, territorial integration, work, housing and community participation. EWB-Ar carries out infrastructure, energy and development projects in collaboration with the State, companies, universities and organizations.

EWB-Ar seeks to influence professional training by offering courses on sustainable development, renewable energies and social project management. More information: <http://isf-argentina.org/>



Construction of a bridge in Colonia Dora, Santiago del Estero

EWB-Ar in numbers

230 volunteers from different professions work on 13 projects and internally within the organization.

14 completed projects including two bridges, a community room and a carpentry workshop. See Projects here.

3 courses in collaboration with universities with 120 students. See Courses here.

Educational Infrastructure



Volunteers working in the construction of the maternal kindergarten

EWB Argentina promotes the right to education in rural and urban communities. During 2016 EWB-Ar is working on two projects located in the province of Buenos Aires: the construction of a day-care center in La Cárcova neighborhood, which will take care of early childhood. And the expansion of the No. 3 Maternal Kindergarten in Villa La Florida, which will allow more children from the neighborhood to have access to early education. In Santiago del Estero EWB-Ar is finishing the construction of classrooms in the Avellaneda Family Farm School to expand the educational opportunities to young peasants. Two of these projects are being developed in collaboration with IngOG+.

Community development- El Negrito



Access to water in El Negrito

El Negrito is a rural setting located in the Argentine northwest. In El Negrito live 60 people and as a result of their isolation, they lack access to basic rights such as water, sanitation or decent housing. Together EWB-Ar and the community worked on the construction of a supply system for harvesting rainwater. The next stage of the project will focus on access to energy and telecommunications. EWB-Ar is committed to community development to promote the empowerment of communities in situations of vulnerability.



EWB Singapore i-Engineering Workshop for Kids



EWB Israel Tanzania Project

Ecuador

EWB Ecuador, with headquarters in Universidad San Francisco de Quito (USFQ), is working on their first student chapter which will promote the participation of undergraduate students towards different projects to help improve the quality of life of rural communities. Visit their Facebook page:

<http://bit.ly/29Ud3Su>

Singapore

EWB Singapore, in collaboration with Rotary Club Singapore and a local community center, conducted the 1st of a 3-part series of their i-Engineering Workshop for Kids to build up their interest in engineering and to bring out the future engineers in them. For more information:

www.facebook.com/ewb.sg

The Netherlands

EWB NL Foundation is excited to kick off several projects related to water management, sustainable energy production and education. Want to help them? Either with time, donations, skills or social media support, they welcome it!

<http://www.ewbnl.org/>

UK

EWB UK, have launched their brilliant new five-year strategy, Engineering Change. Engineering Change sets out our plans for 2016-21 and clearly lays out the change that they want to lead in the engineering community and wider society to ensure that people everywhere have equal access to the benefits of engineering. Do have a read:

<http://bit.ly/2bozoan>

Israel

After successfully installing a rain water harvesting and purification system to replace the fluoride-contaminated water which caused severe health problems, Tel Aviv chapter of EWB Israel in now crowd funding the 2nd phase of Tanzania project: Installing solar panels and storage for the medical center which serves over 3,000 community members. The first phase was a great success and now serves over 400 students with potable water. Crowdfunding link:

<http://bit.ly/2a98Lle>

Sri Lanka

The 7th International Conference on Sustainable Built Environment – ICSBE 2016 – will have a Special Session on “Engineers Without Borders”. This session which is to be held at Earl’s Regency Hotel, Kandy, Sri Lanka on 18th December 2016, aims to bring together leading academics, scientists and researchers. For more information

www.icsbe.org

South Africa

EWB SA hosted the Dream Brew in August, an event that contributes to expand the Society’s reach to professionals, ultimately aiming to become a national annual event. The event hopes to bring together young engineers who are passionate about using their technical expertise and experience to make a tangible difference in Africa; hence fostering a community of engineers who wish to achieve their dreams through their profession. Read more here:

<http://bit.ly/2apuIHG>

EWB International

Stronger resources mobilization

To support the development of a global database on philanthropic foundations which can support EWB projects around the world, we invite each member association to find in their country and send to the EWB-I Secretary a list of 2 to 5 strategic foundations with an interest in science, technology, engineering and development programs.

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