



Editor

Dr. Robert Schemenauer

Contributions of short articles, news items and photographs for upcoming issues of the Newsletter are welcome.

They should be sent to:

info@fogquest.org

or to the address at the end of this Newsletter.

The Newsletter's primary purpose is to be a means of exchanging information with our members. We hope that it will also promote better communications between those working on water projects using fog, rainfall and dew collection, and those studying the many scientific aspects related to these atmospheric water sources. The Newsletter is sent three times a year to members of FogQuest: sustainable water solutions. The current issue is available on the web site www.FogQuest.org.

Information on membership can also be obtained on the web site.

A lot has happened in 2008 and it has been another eventful year for FogQuest. Our charity continues to operate well, though it is always a challenge being an all-volunteer organization. The biggest challenges are with the not so exciting but essential items like accounting, insurance, selling manuals, answering large numbers of questions, and so on. It is also not easy to find trained volunteers to do the field work but to a lesser degree, since we purposely limit our projects to stay within our resources. We couldn't do anything without the on-going support of our members through their membership fees and donations, as well as wonderful church and school groups, plus Rotary Clubs in Ontario and British Columbia who send us donations for our fog-water projects. Over the last two years we have had a grant from the International Development Research Centre in Ottawa that has assisted greatly with the conference in 2007, our interns, and our publications. IDRC's support has been tremendously helpful for FogQuest. In every year since FogQuest was formed in 2000 we have exceeded the disbursement quota calculated by the Canada Revenue Agency for charities. This means we spend a higher percentage of our total income on actual charitable work than is required by law. This is due largely to the fact that we have never paid staff salaries and have not paid rent for an office in the last three years. You will find in this newsletter a



A special thanks to the students and staff of St. Francis Catholic Secondary School in St. Catharines, Ontario, Canada for their tremendous support for the fog-water project in Tojquia, Guatemala.

Melissa Rosato

brief review of recent and new projects. My best wishes for the holiday season!

ERITREA

The fog collection projects in Nefasit and Arborobue were described in the last newsletter. They were also covered in a video prepared by a film production company in the country, which was shown on national television in Eritrea. It was very positive and indicated there were many more potential applications. Unfortunately, the political situation in Eritrea subsequently changed dramatically and local and foreign NGOs had to stop all work. However, in recent weeks it appears that the prospects for reviving the projects are improving. We hope to get the video up on our website.

ATACAMA DESERT CENTER, CHILE

FogQuest participated in the EXPLORA project in 2007 to teach students in the north of Chile about how fog and fog collection form an important part of their ecosystem. With funds from the Aurora Club of Rotary International (Kamloops, British Columbia, Canada) we built, as an educational demonstration, a large fog collector, which feeds water to a tank, a greenhouse and a small garden. There are now olive and orange trees, along with other plants, growing with fog water in the driest desert of the world. We are looking for funds to expand the water supply for the plantation.

MT. ZUQUALA, ETHIOPIA

We have been approached by the Orthodox Christian monastery at Mt. Zuquala in Ethiopia to help them with a severe water shortage for their 700 monks and nuns. We are looking at this possibility together with a local NGO that assists the monastery. FogQuest has submitted a proposal to an organization in Germany for funding and we await confirmation of support before initiating any field work. There are also an additional 3000 people farming on the rim of the extinct volcano where the monastery is located. The project could be extended to assist them as well.



MEMBERSHIP FEES DUE FOR 2009

The time has come to ask you once again to submit your membership dues for the next year. Each amount is small but combined they provide FogQuest with a vital source of income that enables us to produce the Newsletter and carry out other important tasks. A form is enclosed and we ask you to take a moment and send it in to us, with your current contact information and payment. Please note that if you wish to pay at this time for more than one year, we will be very happy to receive your multi-year support. The fees remain the same as for last year. Our continuing goal is to help more people with more clean water in 2009. Thank you very much for supporting FogQuest.



1. FogQuest's three long-serving directors: Tony Makepeace, Peter Schuepp and Rick Taylor.
Photo Credit - Robert Schemenauer
2. Georgiana Chung, the talented Toronto designer of the FogQuest newsletters, in costume while on holiday in China.
Photo Credit - Georgiana Chung
3. Mt. Zuquala in Ethiopia and the surrounding terrain.
Photo Credit - Mesfin Shenkut
4. Sign at the Atacama Desert Center plantation in Chile.
Photo Credit - Robert Schemenauer
5. Fog in the Atacama Desert in Chile.
Photo Credit - Robert Schemenauer
6. Students of St. Richard Elementary School (Mississauga, Ontario, Canada) presenting a cheque for \$1000 to Melissa Rosato. Thanks from FogQuest!



WHAT IS FogQuest?

FogQuest is an innovative, international, non-governmental, non-profit organization, which implements and promotes the environmentally appropriate, socially beneficial and economically viable use of fog, rain and dew as sustainable water resources for people in arid regions of developing countries.



HOW CAN YOU HELP?

Please consider taking out a membership in FogQuest. A solid network of members will be our means of spreading information on fog collection and generating support that is vital to our operations. The annual membership fee of \$35 Canadian, or \$40 US for those outside of Canada, can be paid by check or by credit card. Corporate membership is \$200 CAD. We accept VISA or MasterCard. Students receive a \$5 discount on their membership fee. Donations from both individuals and institutions are encouraged and can be directed for general support or to our projects in Guatemala, Chile, Eritrea and Nepal.

FOG PROJECT UPDATE

TOJQUIA, GUATEMALA (August 2008)

by Melissa Rosato

Ma Qosquix in Mayan Mam, New Awakening in English. This is what we learned the people of Tojquia have named their community association, and in the words of leader Leonso Funes, "this summer through the ongoing FogQuest water project and by hosting all these visitors we really have experienced a new awakening in our community". Leonso didn't mince words, a supply of clean and sustainable water is seen as a step in getting his community out of poverty and interacting closely with people of different countries provided an exciting and enriching experience.

Visitors to Tojquia in 2008 were aplenty. FogQuest Project Manager Melissa Rosato (Canada) spent 7 weeks in Guatemala, preparing the various elements (materials, transportation, group logistics). She was supported by Fernanda Rojas Marchini (Chile) who also led the in field construction with contributions by Directors Rick Taylor and Tony Makepeace (Canada).

Round Square International Schools, our key partner in 2008, organized an 11-member team of highschool students, a teacher and doctor from the USA, Canada, UK, Germany and Scotland. The visitors all stayed in the actual village, marking a first for FogQuest and villagers alike.

Hand in hand foreigners with the locals, long days beginning with 5:30 am sunrises and robust hikes, the collective effort resulted in the building of 8 new Large Fog Collectors in 3 short weeks, bringing the total LFCs in Tojquia to an impressive 18. Repairs and maintenance on existing collectors were also undertaken. Additionally, materials were prepped and are ready for an additional 10 collectors to be erected within the next 6 months. Non-work hours by the various international visitors were spent absorbing the local culture and customs, (picking potatoes, fetching water and firewood, bathing in the Mayan sauna called a chuj), as well as showcasing their own cultures, (teaching English words, singing songs and impromptu photography sessions). Our gracious and welcoming hosts made the inevitable goodbyes difficult. Though teardrops were left behind, memories and a part of Tojquia will always remain with each of us. After the construction phase, Melissa accompanied three media and journalism professors from the University of Miami who filmed fog, LFCs and conducted interviews. Initial interest in water issues and fog collection helped these men garner enough support to produce their award-winning feature documentary called "One Water", currently being screened at film festivals worldwide. For a short project video taken in August 2008 visit: <http://ca.youtube.com/watch?v=XXVOpn2YP2E>

FogQuest invites you to be a part of this project. Future phases for this successful fog collection project are ready to see their new day, helping the villagers awaken, and arise out of water shortages and poverty.

Many thanks to the important contributors, notably: Cambridge and Guelph South Rotary Clubs, the International Development Research Centre, St. Richard Elementary School, MacNab Presbyterian Church, Ann West, Jane Howison, Richard Greenway, Sophie Morris,

Kirsten Matheson, Gillian Smith, Caroline Jung, Kathrin Neumuller, Luca Kaller, Elspeth Paterson, Isabelle Moore, Nicole O'Donoghue and Rochelle Kirby, Sanjeev Chatterjee, Ali Habashi and Ed Talavera, Marco Anotonio Ortiz and the Tocosá team: Carol, Claudia, Leonso and Teresa Funes, Lazaro Hernandez, Domingo Lucas, among many others.

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Ladies of Tojquia with FogQuest stickers.

Melissa Rosato



Two large fog collectors (LFCs) for a family farm in Tojquia.

Melissa Rosato



The students of Round Square International Schools working on the new fog-water tanks in Tojquia.

Melissa Rosato



Thanks to our donors we have new fog collectors and new water tanks for families in Tojquia.

Melissa Rosato



Melissa Rosato, the FogQuest leader of the project in Tojquia, relaxing in a moment without fog or rain.

Melissa Rosato



Drew Harris

Original art by Drew Harris shown at an exhibition in Singapore in April entitled "fogwater" to raise funds for FogQuest.



R. Schemenauer

The Water Tribunal exhibit at EXPO 2008 in Zaragoza, Spain.

FOG COLLECTION PROJECTS

NEPAL

There are about five small village fog collection projects in Nepal that are being assisted by local NGOs based on the technology FogQuest members introduced into the country. Our involvement is twofold: first, providing guidance and information; and second, direction and fund raising through the efforts of one of our directors, Tony Makepeace, who has a great devotion to the country and its people. Tony is now looking at having a mid-sized fog collector designed that is appropriate to the resources and capabilities in the country. He is also looking at new locations for water projects and new partners



Tony Makepeace

Ladies in a Nepalese village that receives water from fog.



R. Schemenauer

The beautiful castle in Muenster, Germany, that will be the site of the 5th Intl. Conf. on Fog, Fog Collection and Dew in 2010.

NEWS

A special issue of the journal *Atmospheric Research* has come out with selected papers from the 3rd Intl. Conf. On Fog, Fog Collection and Dew in Cape Town, **South Africa**, in 2004 and a special issue of *Die Erde* with selected papers from the 4th conference in La Serena, **Chile**, in 2007. **Margot Franken** in La Paz, **Bolivia**, has written a book entitled "Gestión de aguas Conceptos para el nuevo milenio." FogQuest has a one-page advertisement, thanks to support from IDRC Canada, in a World Bank book on development. **Fernanda Rojas** and **Francisca Zegggers** are helping FogQuest as interns in **Chile**. **Robert Schemenauer**, **Canada**, was invited to speak about fog and water in the first days of EXPO 2008 in Zaragoza, Spain. **Daniel Halsey** gave a lecture on Biomimicry and Permaculture in Florida, **USA**, using examples of FogQuest's projects. **Bjarne Hansen** organized a Fog Remote Sensing and Modeling (FRAM) workshop in Halifax, Nova Scotia, **Canada** in May 2008. **Antonio Advino** in **Cape Verde** continues

with new fog collection projects. Many students do fog collection related projects and a few examples follow. An engineering design class at Memorial University in St. John's, Newfoundland, **Canada** is looking at innovative fog collector designs. Four students in environmental biology at the University of Saint-Etienne in **France** are doing a project on fog collection. **Erica Ovre** at the University of Minnesota, **USA**, is working on a theoretical plan for fog collection in Chile. **Elizabeth Corr** at Clemson University in South Carolina, **USA**, has a project to look at sustainability in water use including fog collectors. **Anna Lips** is a student at the Staatliche Akademie der Bildenden Künste in Stuttgart, **Germany**, doing a project on deserts and is interested in fog collection. **Brian Tennyson** at St. Mary's College of Maryland, **USA**, is raising funds for FogQuest as part of a Leadership Engagement Project. **Damien Beillouin** and other students at Ecole supérieure d'agriculture in **France** are doing a project about fog collection. **Thea Lautenschlaeger** at the Technical University of Dresden in **Germany** is interested in fog collection in studies of bionics and biomimetics.

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Tony Makepeace

Fog collectors in Nepal.

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