



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.

It has been a while since our last newsletter and so I am especially pleased to bring you this present update. The delay has not been because FogQuest is not busy, quite the contrary, we are more active than ever and have many projects on the go. This year we have undertaken successful projects in two villages in Eritrea, expanded our water project in Tojquia, Guatemala, initiated a new project in Chile, and assisted with new projects in Nepal. As well, in July of this year, a very successful 4th International Conference on Fog, Fog Collection and Dew was held in La Serena, Chile. This required a lot of my time, to help with the organization, to find funding for travel support for delegates from developing countries, to manage the travel support, and to chair the Scientific Committee for the conference. This newsletter will try to bring our members and sponsors up to date on these various topics and we will go into them in more depth in future issues.

FOG COLLECTION PROJECTS NEFASIT AND ARBEROBUE, ERITREA

Many of you will recall that we did an evaluation in a number of areas of Eritrea in 2005 and found there was a lot of potential to produce water from fog collectors for mountain villages. It took a while to sort through some bureaucratic and partnership matters but this was in order at the start of the year and we are proud to report there is now a school in the village of Nefasit with a fog-water supply and another village of Arberobue that also has a fog-water supply. The projects were only possible



Students at the school in Nefasit, Eritrea.



Phyllis Cheung experiencing the first water from the fog collectors at Nefasit.

because of the sponsorship and direction of WasserStiftung in Germany and the active, solid partnership of Vision Eritrea.

The elementary school in Nefasit had no water for the 1500 students. The teachers only had access to year-old water in a cistern. Now there is 15,000 liters of water available in five tanks that feed six water taps for the students. The water is produced by ten large fog collectors located not far above the school and the tanks were all full in recent months. In Arberobue there are ten LFCs on a ridge that produce water, which moves through a lengthy pipeline to storage tanks and water taps on the grounds of the school. In both cases the plans are to increase the numbers of LFCs to 20 in the near future and then move to water supplies for other mountain villages.

Four members of FogQuest were in Eritrea in early 2007. Virginia Carter and Juan Pablo Astaburuaga from Chile were there for two months and did the bulk of the procurement of materials, construction, and teaching of the Vision Eritrea staff. Phyllis Cheung from Canada went near the end of the construction period to deal with many issues related to finalizing the work. I was there near the start of the project to arrange the project with Vision Eritrea and the Water Department as well as choose locations for the LFCs. We should all be very proud of the determination and dedication of Virginia, Juan Pablo and Phyllis.



MEMBERSHIP FEES DUE FOR 2008

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, which 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. Due to the rapid rise of the Canadian dollar, higher postage rates, and higher credit card fees, we have had to raise the membership fee for those outside of Canada to \$40 US per year. Our continuing goal is to help more people with more water projects in 2008. Thank you very much for supporting 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.

1. Installing a mesh at Nefasit, Eritrea.
Photo Credit - Dirk Reinhard
2. The new water taps at the school in Nefasit.
Photo Credit - WasserStiftung
3. The new fog-water tanks in Arberobue.
Photo Credit - WasserStiftung
4. Moving construction materials in Arberobue, Eritrea.
Photo Credit - WasserStiftung
5. Eight new water taps by the school in Arberobue.
Photo Credit - WasserStiftung



The opening ceremony for the new fog collectors above Arberobue.

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

by Melissa Rosato

In June 2007 FogQuest Field Project Coordinator Virginia Carter from Chile and FogQuest Board Member Rick Taylor from Canada traveled to Guatemala for two weeks to expand the existing fog collection project in Tojquia. Beginning in Guatemala City, Rotarian Marco Antonio Ortiz provided support through his shop and staff in purchasing and preparing the necessary materials. These were loaded onto a truck to be driven the 8 hours from Guatemala City to the small community of Tojquia located at 3300 m, in the western highlands of Guatemala. The community was awaiting the FogQuest team's arrival and immediately got the construction work underway. Two additional volunteers from Chile, Antonia Condeza and Constanza Barria also helped with the build.

Over the next week and a half, the combined team of FogQuest volunteers and community members worked long hours to create 6 Large Fog Collectors and install three 2050 L tanks. These additional collectors bring the total number of LFCs in Tojquia to 10 and will provide 400 m² of mesh with which to collect clean, potable water for ten families in a sustainable manner.

FogQuest Special Projects Coordinator Melissa Rosato also visited Tojquia in September and carried out a census of the more than 30 interested families, met with LFC owners, and held a community-wide meeting to discuss future possibilities. She was happy to note the community is taking an active and participatory role and are truly engaged. They organized themselves and worked hard during the June build and in September came together to form a Water Committee to facilitate future work and to manage the tanks, which were all full of water at the time. This demonstrates the successful community-based approach that has been fostered thus far.

With much gratitude, FogQuest recognizes that this project could not have been possible without funding from the Rotary Club of Grimsby and ongoing support from St. Francis Secondary School in St. Catharines. We are currently seeking out new sources of funds to continue to grow the project and provide life-giving water to all interested families in Tojquia. Virginia wrote in early November, "I just spoke with Mary, the daughter of Mr. Lorenzo Funes (LFCs 005 and 006) and she told me the collectors, meshes and complete system are working perfectly. Water tanks are almost full and the people are very happy with this new water for life."

Contact: melissa.rosato@fogquest.org

NEW FOG COLLECTION PROJECT

EXPLORA, CHILE

FogQuest is participating with a group from the Catholic University in Santiago on the EXPLORA project, whose goal is to teach students in the north of Chile about how fog and fog collection form an important part of their ecosystem. FogQuest has received funding from the Aurora Club of Rotary International (Kamloops, British Columbia, Canada) to build, as an educational demonstration, a large fog collector, which will feed water to a tank, a greenhouse and a small garden. This will teach how fog, in the absolute desert, can provide water for a family, a community, or for plant and insect life. More on EXPLORA in a future issue

Contact: virginia.carter@fogquest.org



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

Melissa Rosato



Fog entering and bringing water to a family in Tojquia.

Melissa Rosato



Washing clothes in Tojquia.

Rick Taylor



Virginia Carter (2nd from left) and the group starting the construction of the EXPLORA project LFC.



The arid coast near the Atacama Desert Center in Chile where the construction for the EXPLORA project is taking place.

Melissa Rosato



Fog on the hills near Tojquia.



4th INTERNATIONAL CONFERENCE ON FOG, FOG COLLECTION AND DEW LA SERENA, CHILE 22 - 27 JULY 2007

The conference held in La Serena was attended by 130 delegates from 40 countries. It was a tremendous success thanks to the work of the conference Chair, Pilar Cereceda; the Conference Program Director, Pablo Osses; the conference manager, Antonia Biggs; and all their staff. For more information, or to purchase a proceedings volume, contact Antonia at tonabig@yahoo.com.

2004, 2001 and 1998 Conferences: You can still purchase copies of the Proceedings Volumes of these conferences through FogQuest.



6. A standard fog collector at Chartwell School in Seaside, California, USA.
Photo Credit - Chartwell School

7. Bob Schemenauer in his green period during the conference in Chile.
Photo Credit - R. Schemenauer

8. The beautiful coast of Chile 60 km south of where the first modern fog collection experiments were done.
Photo Credit - R. Schemenauer

9. Pilar Cereceda (left front) and the Chilean conference team.
Photo Credit - R. Schemenauer

10. The conference tour was to the fog forest at Fray Jorge. Here the delegates visit the interpretive center.
Photo Credit - R. Schemenauer

11. The Polish delegates at lunch on the conference tour.
Photo Credit - R. Schemenauer



NEWS

At the conference in Chile, in July, three Certificates of Appreciation were presented: to **Pilar Cereceda** from **Chile** for her long productive career in many aspects of fog and fog collection research; to **Adrie Jacobs** from the **Netherlands** for his distinguished career in dew research; and to **Robert Schemenauer** from **Canada** for promoting and supporting the science and application of fog collection in the international community. The special issue of papers from the 3rd conference in Cape Town in 2004 is almost ready for release by *Atmospheric Research*. Our thanks to the lead editor, **Simon Berkowicz** of **Israel**, and all those who assisted with this big task. There is also a special issue of *Pure and Applied Geophysics* out in 2007 entitled, "Fog and Boundary layer Clouds: Fog Visibility and Forecasting." It was edited by **Ismail Gultepe** of Environment **Canada**. The News feature will return to a larger space in the next issue.

TO CONTACT FogQuest

Mailing:

448 Monarch Place
Kamloops, BC
V2E 2B2 Canada

Email:

info@fogquest.org
Tel. 1 250 374-1745
Fax 1 250 374-1746

Web site address:

www.fogquest.org

The production and mailing of this Newsletter is supported by the



International Development
Research Centre

Centre de recherches pour le
développement international