



THE TECH MUSEUM OF INNOVATION AWARD

We can now very happily announce that FogQuest is an Award Laureate in the environment category for the 2007 awards given out by The Tech Museum of Innovation in San Jose, California. FogQuest is one of five laureates for the Intel Environment award. The laureates were chosen from hundreds of nominated individuals and organizations around the world. The winner in the category receives \$50,000 US and all laureates have the opportunity to meet over four days (13 to 16 November) with top executives from major high technology companies. Being a finalist is a tremendous honour for FogQuest, and the contacts to be made in San Jose will hopefully benefit us for years to come. We extend our sincerest thanks to The Tech Museum of Innovation for their recognition of FogQuest and their organization of the award week. More news will be posted on our web site.

continue to provide water to the village, and to begin the new project at Tojqvia. Tojqvia is in the same area of the Western Highlands of the country and about an hour's drive in a slow truck from La Ventosa. This is the beginning of a Rotary International World Community Service project for Tojqvia, and ultimately other mountain communities. It is funded out of District 7090 in Southern Ontario and benefits from the hard work of Thomas Brock, Al Dyson and Richard Ring in the Grimsby Rotary Club. Major donations for the project came from two schools in St. Catharines, Ontario: Denis Morris High School and St. Francis School. We would like to gratefully recognize the efforts of the students and staff of the schools in raising significant funds for this water project. Melissa wrote, "I also got in touch with Lorenzo who almost cried when I told him we were going to build some LFCs, he is more than grateful...He assured me many times he will get as many men involved as possible..."

FOG COLLECTION PROJECT TOJQUIA, GUATEMALA

There is good news from Guatemala. Melissa Rosato and Virginia Carter, our IDRC supported interns, were there in early October to do some minor improvements at La Ventosa, where the four LFCs

The project in Tojqvia (Toe-kia) now has four well-built LFCs connected by pipeline to two 3200 liter plastic tanks. Each tank provides water for an extended family. These families worked hard in the construction phase and had the assistance, as promised, from other families in Tojqvia who are very interested in a similar water source and storage for their homes. The work would never have gone so

smoothly without the assistance of a Rotarian in Guatemala City, Marco Antonio Ortiz, who provided a truck for transport of materials and men to help with the preparations in Guatemala City and the transport of everything to Tojqvia.



Experiencing the first water produced by the new fog collectors in Tojqvia, Guatemala.

Melissa Rosato

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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.



Inside a home in Tojquia.



Children opening the turnbuckles in Tojquia.



Inside a home in La Ventosa.

Melissa Rosato

MEMBERSHIP FEES DUE FOR 2007

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 will 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. Thank you very much. We look forward to helping more people with more projects in 2007.



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.



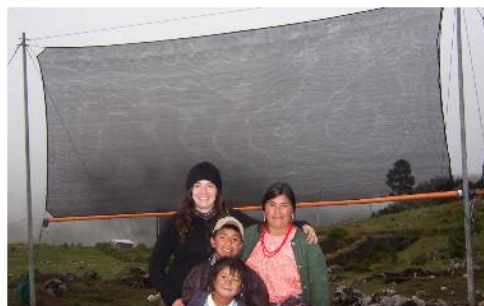
The whole family helping with the fog collector in Tojquia.

Melissa Rosato



Finishing the trough, Tojquia.

Melissa Rosato



Virginia with some of the family and the finished LFC, Tojquia.

Melissa Rosato

FOG COLLECTION PROJECT ERITREA

We have now been given the go ahead by Wasser Stiftung in Germany to start the project in Eritrea. We will be working closely with the Eritrean partner in the project, Vision Eritrea (VE), to build 40 Large Fog Collectors (LFCs) for two villages near the capital of Asmara. The field work should begin in mid-January with Pablo Osses and one or two assistants from Chile leading the construction efforts.

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 \$35 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.

TOJQUIA, GUATEMALA (Continued)

Despite the sunny desert pictures you often see, fog collection projects are usually very cold and very wet. Virginia and Melissa worked in very harsh conditions and it makes us realize how difficult it is for villagers living their whole lives at 3300 m (11,000 ft), with constant winds and either strong sun or rain and fog. Another hazard of field work is the sometimes less than friendly dogs. Virginia ended up with a nasty bite on her leg that is fortunately healing well.

As has been mentioned here many times, the LFCs collect rain, if present, as well as fog. Two boys (see photo), who are in a family receiving the first Large Fog Collectors (LFCs), are measuring the amount of water collected by the small Standard Fog Collector (SFC) in Tojquia. They have done a very good job. The results for August show an average of 12.8 liters per square meter of mesh per day ($L m^{-2} day^{-1}$) and for September $10.2 L m^{-2} day^{-1}$. The partial months of July and October have averaged $7 L m^{-2} day^{-1}$. These are excellent values and show the large amounts of clean water that can be produced by the fog collectors in these mountain villages. The four LFCs, if they had been up in August, would have produced about 2000 L per day, which is enough for the families with water left over for the sheep or a garden. We will monitor the water collection through the dry winter period to see how the production varies seasonally.

We will work with the Rotary WCS group and our donors to put aside funds to return to Tojquia around April 2007. At this time we hope to assist several more families by adding at least four more LFCs and two more 3200 L storage tanks. The long term goal will be to provide for the water needs of the community through LFCs for individual homes and through a central installation to serve the school and general community needs. Melissa will guide the community in forming an active water committee so that the progress is in the direction that the village finds most helpful and appropriate.

EXPANSION OF THE FOG COLLECTION PROJECT AT FALDA VERDE, CHILE

Six more LFCs will be added by the end of the year to the 11 now standing at Falda Verde, using funds provided to the community by the mining company, AngloAmerican. In addition, two more LFCs will be added by FogQuest when Pablo Osses goes to the site with 40 students in early December. This will bring the total to 19 LFCs, and open new opportunities for the commercial use of the water in plantations and greenhouses.

NEW FOG COLLECTION PROJECT IN CHANAVAYA, CHILE

Retired Professor, and FogQuest member, Horacio Larrain Barros, who was instrumental in starting the Falda Verde project a number of years ago, has now agreed to help the fishing village of Chanavaya, not far from Iquique, in the arid Atacama Desert of northern Chile. This will be a small project for perhaps 15 fishermen and their families, to augment their water supplies in order to grow gardens. It will be challenging to move the water through a pipeline of 3 km or so down the coastal cliffs, but being near to the long-term fog research station at Alto Patache, we know that ample fog water is present to help the community.



One of the new 3200 L water tanks in Tojquia.

Virginia Carter



Part of the village work crew in Tojquia.

Virginia Carter



FogQuest's observers in Tojquia. The boys measure the water from the SFC each day

Melissa Rosato



A view of the harbour at Chanavaya, Chile.

Horacio Larrain



Fog on the desert cliffs above the houses of Chanavaya.

Horacio Larrain



The small fishing village of Chanavaya, Chile, near Iquique.



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

The next conference has been awarded to Chile. It will be held in La Serena, which is about 500 km north of the capital city of Santiago. La Serena is a old colonial city of about 250,000 people with a modern beach resort area. Despite having only about 100 mm of annual precipitation, grapes for wine as well as fruit are grown in the nearby Elqui Valley. During the conference, tours will be offered to the fog forest and fog collection site at Fray Jorge, and to the Elqui Valley. The conference Chair, Pilar Cereceda, and the Conference Program Director, Pablo Osses, are both active FogQuest members. For more information contact Profesora Cereceda at dcereced@puc.cl

2004, 2001 and 1998 Conferences: You can still purchase bound copies of the Proceedings Volume of the 2001 Fog Conference through FogQuest. Good quality photocopies of the 2004 and 1998 proceedings are also available. They are important additions to a personal or institutional library.



The potato harvest in Tojquia.



Melissa and Virginia with Marco Antonio Ortiz of the Guatemala City Rotary Club.



Melissa and girls in La Ventosa, Guatemala.

NEWS

One of the members of our conference Scientific Committee, **Jose Manuel Molina**, from **Colombia**, is now studying for his Ph.D. in hydrology from Colorado State University, in the **USA**. **Michael Witiw**, a long-time supporter of FogQuest and the conferences, is now an Associate Professor of Physics at Seattle Pacific University, **USA**. **Hannes Rautenbach**, the organizer of the 3rd conference in Cape Town, is now the Head of the Dept. of Geography, Geoinformatics and Meteorology, Pretoria, **South Africa**. **Pablo Osses**, our Field Operations Director, now has his M.Sc. in economics from the Catholic University of **Chile**, Santiago. **Jorge Bettancourt**, a Chilean student at the Universidad Autonoma de Baja California, in

Mexicali, Mexico, will do a presentation on New Forms of Providing Water, and focus on fog collection. **Dario Olavarria's** architectural design classes at the Universidad Arturo Prat de Iquique, **Chile**, are doing environmental work at the Alto Patache fog investigation site. **Marco Vinicio Navarro** in **Ecuador** is studying development in the vicinity of a national park and looking at fog as a water supply. **Xiomara Lozano** in **Peru** is evaluating whether fog collection may help with the water supply for a municipality of 294,000 people. Chartwell School in Seaside, California, **USA**, has purchased three SFCs for use by the students in evaluating the importance of fog in the ecosystem surrounding the school. Michelle Hill and Scott Shell of EHDD Architecture in San Francisco have helped organize the project.

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Two of the four finished fog collectors in Tojquia.

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