



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: FogQuest@rogers.com 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.

The 3rd International Conference on Fog, Fog Collection and Dew was held 11-15 October in Cape Town. It was a beautiful venue for the conference and the arrangements made by Professors Hannes Rautenbach and Jana Olivier from Pretoria were excellent. Sessions covered a wide range of topics related to both scientific themes and to projects on the collection of fog and dew. The meeting followed the format set for the first two conferences and Wednesday was set aside for a tour. The delegates were taken by coach south to the Cape of Good Hope and the Cape Point Lighthouse, then north along the coast of False Bay and inland to the wine growing area of Stellenbosch. There we had a superb buffet lunch at one winery before moving on for wine tasting at another, and finally we had a chance to visit an old manor home. South Africa is a dry country and an adequate supply of clean water for the people is an important issue. This was brought home in speeches delivered by representatives of both the Minister of Water Resources and of the Mayor of Cape Town. Both dignitaries were open to future water projects using fog collection.

UPCOMING PROJECTS

A new project is underway for north-central **Chile**. We will work with our partner WasserStiftung in Germany to move the ten Large Fog Collectors (LFCs) on Talinay Mountain, which is about 280 km north of Santiago. The LFCs have brought fog water west to the Sanctuary of Padre Hurtado since 1999. With the phasing out of the church's activities there, we will now move the water east to the community of Los Tomes. This village is very keen on receiving the water and the plan for sharing the responsibility for the project, and the costs, between ourselves, the village and the municipality is being finalized. The project will include a "water school" concept

involving the elementary school in Los Tomes, a technical college in Canela, and the Catholic University in Santiago. The LFCs will be operational by December 2004 and the other project infrastructure will be built up through 2005.

FogQuest is also working with WasserStiftung on a fog collection project in **Eritrea** near the capital city of Asmara. This country is on the west side of the Red Sea and across from our previous projects in Yemen. Our local partner is the NGO Haben. They

have extensive experience working with local communities. Pablo Osses will be in Eritrea in January 2005 to position the Standard Fog Collectors (SFCs). Assuming that sufficient fog water is obtained in the dry period, a project to supply water to one or more communities will begin late in 2005.

Another new project will begin on Margarita Island, **Venezuela**, in January 2005. The work will be carried out by Melissa Rosato, a student from the University of Waterloo in Canada. As well as private funds for the project, we also have institutional support from IDRC and the Guelph South Wellington Rotary Club. The island has two parts. The eastern part has water by a long pipeline from the mainland and tourism is a major source of income there. It is joined to the arid western section by a narrow isthmus. The project will look at the fluxes of fog water both in the parks in the east and the dry mountains in the west. The primary goal is to assess whether fog can be used to supply clean water to communities near the base of the western mountains.



Nicholas Arsenault and the villagers of Las Trampas, Guatemala.

Nicholas Arsenault



Large fog collectors at the Pathivara, Nepal site.

Pradeep Kumar Regmi



MEMBERSHIP RENEWAL

Membership fees for 2005 are due by 31 December. We will send out a separate reminder but if you can send payment as soon as possible it would be very helpful. Each member is important to us and collectively the membership fees are an important source of funds for FogQuest. We sincerely appreciate your renewal. New members are also very welcome, so please encourage your friends and colleagues to join.



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.



FogQuest display at the Rotary Club District 7080 Annual Meeting in Burlington, Canada, in October.

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 \$35.00 Canadian, or \$30.00 US for those outside of Canada, can be paid by check or by credit card. We accept VISA or MasterCard. Students receive a \$5.00 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, Yemen and Venezuela.



Pradeep Kumar Regmi

Fog water at Pathivara, Nepal.

Flowers in Guatemala.

Nicholas Aresnault

PATHIVARA, NEPAL, PROJECT

Submitted by: Pradeep Kumar Regmi
NEWAH, Biratnagar, Nepal

At the Pathivara Hindu temple, which is at an altitude of 3800 meters above sea level or nearly half the height of Mt. Everest, each day during the summer months 800 to 1000 pilgrims come to worship. It's a great holy place for pilgrims in Nepal. The pilgrims are now provided with water from fog. There are two large fog collectors (LFCs), likewise one collection tank of 2 m³ and two poly tanks of 1 m³ capacity, for the purpose of fog water collection and storage. A water point (tap) was also installed. The pilgrims and priests of Pathivara temple had to go two hours down a steep slope to collect water from a spring, which was generated seasonally just above a village. During the summer months, it took five hours round trip to fetch water. However, that water supply system was not systematic; the source is also insufficient and people used to stand in a queue for water. But after the installation of fog-water technology, it takes less than five minutes round trip to get water.

Contact: rcd@newahero.org.np

FOG COLLECTION PROJECT

Lake Atitlan, Guatemala

The new project in Guatemala is proceeding in small steps as funding and volunteers are available. The project is in the hills surrounding Lake Atitlan, with 14 standard fog collectors, each 1 m² in size, being installed at locations north and south of the lake. Measurements of the water production began in January and continue to the present. The data are being collected by our Guatemalan partner organizations, VSF and AMSCLAE, and processed by Virginia Carter in Chile under the guidance of Juan Luis Garcia and Pablo Osses. The initial data from the SFCs have identified some sites with good fog-water production. However, we need to continue the measurements during the dry, winter period. Two of these promising areas are north of the lake (La Fe and Las Trampas) and one south of the lake (Rey Tepepul). Nicholas Arsenault, a student at the University of Waterloo, worked at the sites in July and August. His good work with the LFCs, the SFCs, and the community at Las Trampas, strengthened the project and is much appreciated. Darrell Piekarz will go to Guatemala to maintain the FogQuest presence in the December to February period. FogQuest has partnered with The Ontario First Nations Technical Services Corporation to put in a proposal to a Canadian Government agency. The proposal requests support to send two young native people from northern Ontario, to Guatemala. The work would be in January 2005 and focus on technical and scientific aspects related to the measurement of fog and wind, the production of fog water, and the building of large collectors. This is a wonderful opportunity for native peoples from latitudes 14°N and 54°N to work together on a water project.



Carrying the 2 m³ tank up to the Pathivara, Nepal, site.



Crowd and statue at the Pathivara, Nepal, site.



Completed LFCs, Pathivara, Nepal, site.



Water tap at the Pathivara, Nepal, site.



Fog near Lake Atitlan, Guatemala.



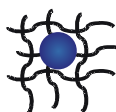
LFC mesh and trough, Las Trampas, Guatemala.



Local women by the LFC, Las Trampas, Guatemala.



Nicholas Arsenault working on the LFC at Las Trampas, Guatemala.



3rd INTERNATIONAL CONFERENCE ON FOG AND FOG COLLECTION

3rd INTERNATIONAL CONFERENCE ON FOG, FOG COLLECTION AND DEW CAPE TOWN, SOUTH AFRICA 11 - 15 October 2004

Conference information can be obtained from Professor Rautenbach at hannes.rautenbach@up.ac.za. You can reach the conference website through the FogQuest site.

NOTE: You can still purchase copies of the Proceedings Volume of the 2001 Fog Conference through FogQuest. It is an important addition to a personal or institutional library.

NEWS

We are currently discussing with **Rotary Clubs** in southern Ontario, **Canada**, how we can work together on future water projects. They may contribute funds for our future field projects. **Pablo Osses**, our field operations director in **Chile**, has recently had a back operation and we wish him a speedy recovery. In August, **Robert Schemenauer**, **Canada**, received a University Medal and Certificate from the Chancellor of the University of Hawaii at Hilo, for distinguished work in fog science. Professor **James Juvik**, of the University of Hawaii at Hilo, **USA**, is one of the foremost experts on Tropical Montane Cloud Forests and was the host of an international symposium on the theme. FogQuest member **Joh Henschel** now directs the operation of the Gobabeb research center in **Namibia**. We hope to move forward with a small operational project there in the near future. Member **Viky Marzol**, from Tenerife, Canarias, **Spain**, and her husband José, went ballooning over the Namib Desert after the Cape Town Conference.

STUDENTS

Nicholaus Arsenault of the University of Waterloo, **Canada**, is back home after a very productive field campaign in Guatemala. **Felix Wunner** from Munich, **Germany**, will be in South America doing "practicas" related to his thesis in technology and biology. He will help with the project on Talinay Mountain (Padre Hurtado) in **Chile** while he is there next May. **Shaylih Muehlmann**, a linguistic anthropology student from the University of Toronto, **Canada**, will be working near Lake Atitlan, **Guatemala** in 2005 and assisting FogQuest with village organization. We would like to thank the students who helped at the Venezuelan fund raiser in August, **Carl Prey**, **Victor Santiago**, **Jonander Rosato**, and **Maitane Barreda** for their terrific help, as well as non-students **Kaveh Afshar** for help with the organization of the event and **Linda Pocaterra** for her beautiful music on the cuatro. **Margarita**



Hannes Rautenbach, Belinda Gerber and Santjie du Toit, from the University of Pretoria, relaxing on Table Mountain after the Cape Town Conference.

Canepa, an undergraduate student at the Pontificia Catholic University in Santiago, **Chile**, will be in Toronto in January and February to help in the FogQuest office and to study English. **Eva Beiderwieden** is a Ph.D. student at Münster University in **Germany** and will do her thesis work on mountain fog chemistry in **Taiwan**. **Anil Pokhrel** from **Nepal**, who attended our first conferences and has worked on fog collection projects in his home country, is now at Yale University in the **USA**, on a Fullbright Scholarship, to do a Master's degree in Environmental Management. **Melissa Rosato** of the University of Waterloo, in **Canada**, will be doing her undergraduate thesis on the assessment of the potential of fog collection for the entire island of Hispaniola, using the FogQuest data from **Haiti** and the **Dominican Republic**. Special thanks to **Santjie du Toit** and **Belinda Gerber**, students from the University of Pretoria, in **South Africa**, who worked so hard to make the Cape Town conference a success.

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These four photos illustrate the installation of a small fog collector on the west coast of South Africa. It is part of a new evaluation project in Kleinsee. Hannes Rautenbach is in the top photo and Jana Olivier in the bottom one.

Hannes Rautenbach

TO CONTACT FogQuest

Mailing

P.O. Box 151
1054 Centre Street
Thornhill, Ontario
L4J 8E5 Canada

Office Location

6305 Yonge Street,
Suite 202
Toronto, Ontario
M2M 3X7 Canada

Email:

FogQuest@rogers.com
Tel. 1-416 225-7794
Fax 1-416 225-9801

Web site address:

www.fogquest.org