



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.



The desert terrain surrounding Lima, Peru, where there are many settlements in need of water.

FogQuest is regularly contacted by the news media for information on projects. We would like to keep files documenting media coverage of our organization and we encourage you to send copies of items you see to our office. We are very pleased to know that FogQuest will shortly receive some major recognition in the USA, unfortunately we cannot provide the details now. A formal press release will be issued by the organization involved in late September and the award ceremony will be in November. We will post the details on the website later this year.

For those of you wondering about the status of our project in Eritrea, it has been on hold since the successful completion of the evaluation project for the mountain villages near Asmara. This delay resulted from changes in the Government - NGO relationships in the country. Our partner in Germany, WasserStiftung, has had to find a new local NGO that is approved by the Government of Eritrea. This now appears to be resolved and we expect the final agreements to be signed in the very near future. FogQuest will then proceed to the planning and implementation phases for the project, with the goal of constructing the large fog collectors and the water infrastructure in the November to March period. The project in Falda Verde in Chile will be expanded by six more fog collectors with a grant the community received from AngloAmerican in Chile. The project

in La Ventosa in Guatemala has had improvements made and a new project in Tojquia, Guatemala, should start in early October. Updates will appear in later issues of the Newsletter.

I was in Chile in June to assist with the planning for the 4th International Conference on Fog, Fog Collection and Dew, to be held in Chile in 2007. The hotel and meetings rooms have been decided on and the location is very good, right across a small road from a long, wide beach on the Pacific Ocean. Many of you will already have contacted the conference organizers to confirm your attendance, everyone else is invited to join us in La Serena for what should be an excellent meeting.

Atacama Desert Center

Pilar Cereceda, Pablo Osses and their colleagues have been rewarded for years of hard work by gaining approval for the formation of the Atacama Desert Center (ADC) in Chile. It will be coordinated by Pilar and is being formed within the Campus San Joaquín, of the Catholic University of Chile, in Santiago. They will look to have students do undergraduate and graduate theses in the ADC, to form working arrangements with universities and desert centers in other parts of the world, to have over 1000 hectares of land set aside in the northern desert for research, and ultimately develop a site in the desert with support facilities for national and international scientists. The initial budget has been approved and is modest but the plans are to grow steadily in the years to come. If you have an interest in the ADC, please contact Pilar or Pablo.



A simple fog collector constructed by a French architect, Vincent Touzet, to help an impoverished community near Lima, Peru.

2007 CONFERENCE IN LA SERENA, CHILE

The pictures on this page will give you an idea of the conference hotel and the surroundings. For more information follow the link on the FogQuest website.



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1. The pool area at the 2007 conference hotel.
2. The 2007 conference hotel, Hotel La Serena Club Resort, Chile.
3. An old Chilean hacienda, Santa Cristina, where the lunch on the excursion will be. The property is now a vineyard.
4. The beach and boardwalk to the south from the conference hotel.
5. The beach and boardwalk to the north at sunset.



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Robert Schemmner

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.

NEW FOG COLLECTION PROJECT IN TOJQUIA, GUATEMALA

A Rotary World Community Service funded project is beginning with FogQuest in the mountains of western Guatemala, in a village called Tojquia. The village has about 50 families, 300 people, and depends for water on rain in the summer months and water carried some distance from springs in the dry winter period. The village will be assisted initially with four large fog collectors and two storage tanks. The project will grow to serve more families as funding becomes available. The construction of the first fog collectors will take place in early 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 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.

FOG COLLECTION PROJECT IN MOROCCO

Submitted by: Maria Victoria Marzol

In June 2006 a fog collection evaluation project began in Morocco. Four Standard Fog Collectors (SFCs), each 1 m² in size, were installed in Ifni (Atlantic Sahara, Morocco) with funding obtained from the Fundation Si Hmad Derhem (Casablanca, Morocco). The intention is to supply fresh water for the communities and animals in the mountains, where presently underground well water in the valleys is the sole source of water. Fog water collection can be the solution in the mountainous zones, since the quantity of annual rain is very low and very irregular.

The SFC's are located in areas with frequent fog episodes but different altitudes and distances to the coast. The construction work was done by FogQuest member Prof. Marzol, (La Laguna University, Canary Islands), and José Luis Sánchez Megía (Spanish Meteorological Institute), with the help of numerous local people. The screen used is the polypropylene Raschel mesh with 35% in a double layer. Two SFCs, with orientation 300° and 340° were located on the crest of a mountainous area in Boulaalam (29° 21'02" N – 10° 10'22" W), at an elevation of 300 m and 4 km from the sea. The Sidi Ifni small town, with 17,000 inhabitants, is located at the base of a 49 meter high hill. Another two SFCs, with similar orientations, were installed in the SE of Sidi Ifni, about 25 km from the coast, in the highest elevation (1225 m) called Boutmezguida (29° 12'30" N – 10° 01'30" W), where the water supply is realized by means of trolleys. The study will last 6 months and water quantities obtained from the fog will be measured. The results will be presented in La Serena, Chile, next year.

The SFC's were placed with about 6 to 10 meters distance between them, but with different orientations to verify the most productive origin of the fog. The SFC oriented 300° in Boulaalam, produced water immediately, in the first 2 hours after installation it produced 0.5 L m⁻² and 40 L m⁻² the first day. Also there are differences between the two collectors in Boutmezguida: 34 L m⁻² and 14 L m⁻² the first night and in nine days averages of 30.4 L m⁻² day⁻¹ and 16.7 L m⁻² day⁻¹ were measured.

Contact: mmarzol@ull.es

PROPOSED FOG PROJECT IN PERU

Submitted by: Anthony Gomez-Cornejo Holley

We are at the moment a small group of people who form our NGO, who now have permission to commence our sustainable Project, "Paraiso 2000", but like most NGO's dealing with Ecology, we lack sufficient financial help. Our NGO, was created way back in November 1995, when we named our Program "Paraiso 2000" optimistically thinking that by that year, it would have been well on its way! However, after having patiently waited for ten long years, we have at last overcome the main obstacle, and our Regional Government has recently declared the almost 110,000 hectares of arid coastal land in the County of Arequipa, Peru, to be included in the "National System of Protected Natural Areas". We would like to start erecting a large number of Fog Collectors, to supply a small town on the Coast with fresh water. Besides this installation, a large number of trees will be planted in the area, forming part of our forest and woods program, acting as large, natural Fog Collectors.

We could use your help. For more information, please visit <http://www.askitsdone.co.uk/~angocho/21st.Century.html>

Contact: anthonygch@mail.star.com.pe



The "ifnifios" people who mounted Boulaalam's SFCs



First day's water collected in Boulaalam.



The local people who worked on the Boutmezguida's SFC's.



Fog in the Guerreros Valley in Peru at sunrise, at an elevation of 900 m.



The harsh Pampa Guerreros Desert at an elevation of 1200 m.



**4th INTERNATIONAL CONFERENCE ON FOG,
FOG COLLECTION AND DEW
LA SERENA, CHILE 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.



Pilar Cereceda, the 2007 conference president, near the elegant resort of Las Tacas where the conference banquet will be.



Aloe Vera plants receiving fog water through a drip irrigation system at Falda Verde, Chile.



The model fog collector and spray device at the "Desert in Rosenheim" exhibition in Germany.

NEWS

The last few months have seen the involvement of a lot of volunteers. **Melissa Rosato, Canada**, was in **Guatemala** in July meeting the people in La Ventosa and doing a village needs assessment in the high mountain community of Tojquia. She was followed there by **Steven Schnoor, Canada**, York University, who did some filming in La Ventosa and Tojquia for FogQuest, and by **Philip Jaekl, York University, Canada**, who helped improve the water distribution system in La Ventosa. **Virginia Carter** was at the Falda Verde, **Chile**, site to meet with the community group there. She will go to **Mali** in September to present a paper on FogQuest projects at a UNCCD conference, for youth, on desertification. Our thanks to **Tony Makepeace**, one of our directors, who was able to put together some film and digital images on short notice for the upcoming awards ceremony in the USA. A nice article on **David Riebold's** fog collection project in the **Canary Islands** appeared in the 5 August issue of NewScientist. A new member, **Gerry Gillespie**, with the Government of New South Wales, in **Australia**, is looking at using fog and dew to help introduce native plant species back into the desert. **Martha Scholl** (U.S. Geological Survey) in the **USA**, and colleagues, have organized a special session of fog topics at the fall AGU meeting in December in San Francisco. See www.agu.org/meetings/fm06/ for more information.

Thibault Rabiller is an artist who will use a fog collector in a contemporary art exhibition, "Biennale de Paris", in **France**, in October. **Henner Lang**, with Wasser Stiftung in **Germany**, had a model fog collector with fog generator, at "The Desert in Rosenheim" exhibit. **Chuba Singham**, a graduate student at the University of Toronto, **Canada**, is doing a project with model fog collectors. **Pascale Duteriez**, a student at the Darmstadt Technical University in **Germany** is writing a paper on fog collection for a course in water management in arid areas.

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