

**The 6<sup>th</sup> CVL WORKSHOP ON “VOLCANIC  
LAKES”**

20-23 NOVEMBER, 2004, CAVIAHUE, ARGENTINA  
(directly following the IAVCEI meeting in Pucon, Chile)



TALKS, MODELLING SESSION, FIELDTRIPS TO ACID RIVERS  
AND LAKES

*<http://www.ulb.ac.be/sciences/cvl/index.htm>  
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**The 6<sup>th</sup> CVL workshop on ‘Volcanic Lakes’, November 21-23, 2004**  
Caviahue, Province of Neuquen, Argentina

A workshop on **Volcanic Lakes** will be held in the small ski resort of Caviahue, nestled on the slopes of Copahue volcano, about 400 km NW of Neuquen, Argentina. Volcanic lakes are an essential link between volcanic processes (e.g., emissions of gases and hydrothermal fluids) and environmental topics (acidification, lake eruptions, toxic elements, life in extreme environments). Lake sediment sequences are commonly used to establish paleo climate and paleo environmental records, but these sediments carry volcanic signatures as well which may impact stable isotope records, provide dating problems, and causes chemical modifications of the sediment. The program of the workshop reflects this broad range of interests with 1.5 days of talks and presentations, an afternoon of computer modeling workshops, and a day with a choice of two field trips in the Copahue-Caviahue area. Local field topics of interest are the Upper Rio Agrio (pH~1, 40 °C), the large glacial Lake Caviahue (pH=2.5), and a variety of thermal areas with the largest health spa in the southern hemisphere in Copahue village. The headwaters of the Rio Agrio may represent a modern terrestrial analog of the Opportunity Rover Landing site on Mars, and this workshop is a unique opportunity for planetary geologists to visit and investigate this location. Limnologists, geochemists, volcanologists and planetary geologists are invited to participate and present their work; please submit abstracts in MS WORD format (Title, authors with affiliations, body of text with a maximum of 500 words, figures or photos in either powerpoint, jpg or embedded in the WORD document) to either Joop Varekamp (the Americas) or Alain Bernard (rest of the world) by September 20<sup>th</sup>, 2004. Financial support is available for USA students and other participants from the Americas (please contact Joop Varekamp for information). For those that participate in the directly preceding IAVCEI meeting in Pucon, Chile, vans will drive participants from Pucon to the workshop on November 20<sup>th</sup>, and back to the Temucco airport on November 24<sup>th</sup>. A registration form and travel information is given below. Check the meeting website for further details in the near future. [http://www.ulb.ac.be/sciences/cvl/IAVCEI\\_meeting.htm](http://www.ulb.ac.be/sciences/cvl/IAVCEI_meeting.htm)

**Workshop conveners/organizers:**

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## **Travel Information**

### Participants of the preceding IAVCEI meeting in Pucon, Chile.

Workshop participants will be transported from Pucon to Caviahue on November 20. This is a very scenic, full-day drive by minibus through the Pino de Hachado pass through the Andes. After the workshop a minibus will transport participants from Caviahue to Temucco, Chile, which is the airport of arrival/departure for most IAVCEI participants.

### Other workshop participants.

It is recommended that participants travel from their country of residence to Buenos Aires, Argentina, (Ezeiza Airport, or EZE). Take a busride of about 1 hour with the bus company Manuel Tienda Leon from the international airport Ezeiza to the national airport Aeroparque Jorge Newberry (AJN). The bus company has a booth just outside the customs gate that you exit from in EZE (cost about US\$14.-). Book a flight from AJN to Neuquen, the provincial capital of the Copahue region; Aerolineas Argentinas has daily flights late in the afternoon from AJN to Neuquen. Flying time is about 2 hours and cost is about US\$250.- roundtrip. Upon arrival in Neuquen, it is convenient to use the hotel at the Neuquen Airport (Express Hotel, about US\$30.-/room/night). At the hotel one can rent a car to go to Caviahue (about 5 hour drive) at a rate of about US\$300.- for 5 days for a small car. Larger, 4-wheel drive vehicles are available at a rate of US\$100.-/day. One can also take a taxi to the bus terminal in downtown Neuquen and take a bus to Caviahue (about 6 hours, nice air-conditioned buses, approximately US\$30.- one way), which leave around mid day from the terminal every day (details of the November bus schedules will be posted soon). Caviahue is a small village and no personal car is needed for the conference. For those of you who want to spend a few more days in beautiful Patagonia, a rental car is recommended. We can also organize rental car sharing if so desired, so contact the organizers if you like to do so.

Participants that arrive from the Pacific side can fly to Santiago, Chile and then on to Temucco in Southern Chile. We can collect these participants mid day November 20<sup>th</sup> from Temucco Airport. It may be possible to fly from Santiago, Chile to Mendoza, Argentina and then on to Neuquen, but we need to investigate this further.

## **Meeting Costs**

Registration Fee: US\$100.-, which covers bus transport for IAVCEI attendees, local transport in Caviahue and fieldtrip for all attendees, abstract volume, lunches for three days, and formal dinner on November 21. Payment on-site is preferred. Hotel rooms in Caviahue are relatively inexpensive in November, with a currently estimated cost of US\$35.- per person per night including dinner (about US\$150.- per person total for the workshop). There is financial support available (National Science Foundation, USA) for participants originating from the USA (mainly graduate students) and participants from the Americas. Contact Joop Varekamp for application materials for financial support.

**Registration form for the 6<sup>th</sup> CVL 'Volcanic Lakes' Workshop**

Please send or fax or e-mail to Alain Bernard or Joop Varekamp

Title                      Name  
Affiliation:

Preferred name/ affiliation for badge:

(example Joop Varekamp, Wesleyan University, USA)

presenting YES / NO