

PRESIDENT'S MESSAGE

Dear IAVCEI members,

A year has passed since the Indian Ocean tsunami disaster. This major tragedy together with the suffering inflicted by the hurricanes in the Caribbean, U.S. and Central America, the earthquakes in Pakistan, Sumatra and Iran and the many floods and storms have increased the public's awareness of natural hazards and their mitigation to an unprecedented level. Just as an example, a recent editorial in *Nature*, (438 (7070) page 889; www.nature.com/nature/journal/v438/n7070/pdf/438889a.pdf), titled 'Preparing for Disaster', urges Earth scientists to find "better mechanisms to disseminate facts about the risks of natural disaster" in order "to help local populations make necessary preparations." This editorial concludes that there is a need for coordination on a global scale in feeding the best science to decision makers.

I would like to emphasize another facet of this important issue — public education. Earth scientists must take a role in public education and again, there is a room for global action. First, better education can lead directly to increased awareness of local hazards and to better preparedness. Second, even in places where natural hazards are relatively small, public awareness may help to promote international cooperation in fighting hazards and with relief efforts once nature hits.

If you've felt that such a move is needed, but always postponed it to next year, now is the time to move. The International Union of Geological Sciences, joined by The International Union of Geodesy and Geophysics (our umbrella organization) and a few other bodies have declared the year 2007 (and the neighboring years) as the Year of Planet Earth. A globally concerted effort is planned for next year and it will have the right impact if we all try to act during this year. Educational and outreach programs, especially in developing countries, may even be eligible for funding (see www.esfs.org and in it, www.esfs.org/downloads/EOIform.rtf).

However, my call is more general. Much can be done at the IAVCEI level, at the level of a national Earth science society, at the university level, at the observatory level, or even at the personal level. The Year of Planet Earth, or the Earth Science for Society initiative (as it is sometimes called), may be mentioned in your local proposal to your



Oded Navon

traditional funding sources as a reason why they should support your proposal. I hope that many volcanologists will participate in this global outreach effort. After all, we have been doing it for many years and we work for the benefit of societies that are at risk and would benefit from better education and more information on the volcanoes that threaten them.

Finally, after using one *Nature* editorial to stress the message I planned to deliver in this letter, I would like to add my support to another fascinating initiative that I found by chance in the next page:

www.nature.com/nature/journal/v438/n7070/pdf/438890a.pdf.

This editorial tells the successful story of Wikipedia, a free Web-based encyclopedia, and calls researchers to "read Wikipedia cautiously and amend it enthusiastically." I would like to add my call for our community to help amend the volcanological entries (en.wikipedia.org/wiki/Volcano), so that our science is as accurate as possible.

Oded Navon

President of IAVCEI

IAVCEI REPORT TO IUGG FOR THE YEAR 2005



Steve McNutt

IAVCEI ended the year with more than 730 paid individual members, the second highest number yet. Thirty-five members have chosen to become Life Members, including three members who were awarded Life Membership as Honorary Members in 2003–2004.

The IAVCEI Web page is frequently revised and updated. The Web site URL is www.iavcei.org.

The volcano listserv administered by Arizona State University remains the official IAVCEI listserv. It has more than 2,600 people listed, which far exceeds the IAVCEI membership.

Thus, we hope to further boost the membership in IAVCEI. Two issues of the newsletter *IAVCEI News* were mailed to members in 2005.

No major meetings were held in 2005, but IAVCEI sponsored or co-sponsored several workshops, including the International Workshop on Ocean Island Volcanism in Cape Verde Islands in April, and the Workshop on Caldera Volcanism: Analysis, Modeling, and Response in Tenerife in October. No medals or awards were given in 2005.

The next IAVCEI General Assembly is scheduled for August 2008 and will be held in Reykjavik, Iceland.

No meeting of the IAVCEI Executive Committee was held in 2005. Instead we operated under the curse known as email. Oded Navon and Steve McNutt attended the IUGG Executive Committee meeting in Perugia, Italy in September.

Preparations are well under way for what is sure to be a successful IUGG meeting in July 2007 in Perugia. Navon also attended a planning meeting for the Electronic Geophysical Year, to be held 2007–2008.

Officers of IAVCEI for 2003–2007 are:

President Oded Navon (Israel)
Vice-President Jocelyn McPhie (Australia)
Vice-President Toshitsugu Fujii (Japan)
Secretary-General Steve McNutt (USA)

Members of Executive Committee:

Anita Grunder (USA)
Renato Solidum (Philippines)
Hugo Moreno (Chile)
Jean-Christophe Komorowski (France)
Past President: Steve Sparks (UK)
Editor Bull. Volc.: John Stix (Canada)

IAVCEI sold several educational products in 2005. Two videos: 1) 'Understanding Volcanic Hazards' and 2) 'Reducing Volcanic Risk' were produced professionally under contract with IAVCEI.

Over 60 videos were sold in 2005. Also, a volcano calendar for 2006 was produced by IAVCEI members and was printed and marketed by a professional calendar company. Over 8,000 calendars were sold and an additional 800 were distributed by IAVCEI to various scientific, educational, and governmental organizations. IAVCEI received a small royalty payment (1 percent) for the calendars. For the first time a second printing of calendars was necessary because of high demand from Sam's Club in Mexico.

IAVCEI now has tax exempt status with the IRS. This status is important so that contributors may receive a tax benefit.

The year 2005 was our most successful year yet with regard to fundraising. More than \$7,000 was raised with the largest portion being proceeds from the sale of books previously owned by IAVCEI member George P.L. Walker.

The year 2005 was a moderately active and productive year for IAVCEI. We hope to build on the success of the 2004 Pucón General Assembly to assure the scientific financial health and vitality of IAVCEI in the future.

Steve McNutt

Secretary-General for IAVCEI

NEW BOOK AVAILABLE

Plio-Quaternary Volcanism in Italy: Petrology, Geochemistry, Geodynamics, By Angelo Peccerillo, Springer, Heidelberg (pp. 365), with 145 figures, 19 tables and a CD-ROM containing about 3,300 major, trace element, and isotopic analyses of recent Italian volcanic rocks.

Further information can be obtained at the Springer website (www.springeronline.com) or at the author's website (www.unipg.it/~pecceang).

Angelo Peccerillo is on the organizing committee for the IUGG conference in Perugia, Italy in July 2007.

THE IAVCEI BOOK SERIES

IAVCEI and the Geological Society of London have begun a book series that promotes and encourages a greater understanding of volcanology. The series will include topics such as the mitigation of volcanic disasters and research into closely related disciplines, igneous geochemistry and petrology, geochronology, volcanogenic mineral deposits, and the physics of the generation and ascent of magmas in the upper mantle and crust.

The Geological Society of London is the national society for the geosciences in the United Kingdom. It was established in 1807 and is charged with promoting the interests of the science and the professional interests of geoscientists. GSL has an operation that publishes, promotes, sells and distributes books and journals on the Earth sciences. The books will be published within the IAVCEI series, but will bear the logos of the two organizations.

IAVCEI members will be able to purchase books in this series with a **40 percent discount**.

The first book in the series is *Statistics in Volcanology*, edited by Heidy Mader, Chuck Connor, and Stuart Coles and will be published in June 2006. The next two books, which will be published in 2007, are *The Alban Hills Volcanic Field*, edited by Giordano and Funicello, and *Acid Rivers and Lakes of Copahue Volcano, Argentina*, edited by Varekamp and Geller. Five other books were proposed, but the completed proposals have not yet been submitted.

If you are interested in publishing a book on a volcanological topic, please send a brief proposal to the series editors. For the proposal, include the purpose, the expected audience, an outline, and projected submission date.

Series Editors:

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Remote Sensing Commission Report IAVCEI General Assembly

Remote Sensing Commission Report on the IAVCEI General Assembly Pucon Chile

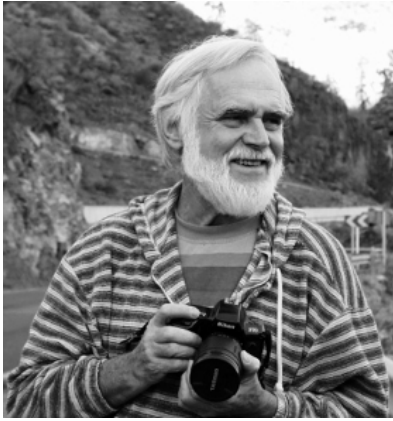
The Remote Sensing Commission sponsored a very successful session, 'Remote Sensing of Volcanoes,' that consisted of oral and poster presentations. The session was organized and chaired by Dave Rothery, Andy Harris and Andres Pavez. There were 18 oral and 41 poster presentations in this session, covering a wide range of topics including: global and regional inventories and reviews of activity; detection of remote eruptions; new satellite-monitoring receiving stations; analysis of gas emissions; thermal flux; lava lakes and lava flows; INSAR measurements of deformation; detailed analyses of dome events; and ground-based observations of activity. The presentations discussed research activities in Antarctica, Chile, Congo, Costa Rica, Ecuador, Indonesia, Italy, Japan, Mexico, Nicaragua, Montserrat, Philippines, Russia, USA, and eruptions on Jupiter's moon, Io.

Award events honored Remote Sensing Commission member Dr Andy Harris, who received the prestigious Wager Medal. This award is given to a young scientist who made outstanding contributions to the study of volcanism. Andy is well known in the remote sensing community for his studies of thermal signatures observed on satellite data. His studies have led to an understanding of thermal flux required to illuminate a satellite pixel, establishment of satellite-based thermal monitoring systems, and encouragement in the use of satellite data as a monitoring and analysis tool. Congratulations to Dr Harris.

Ken Dean

Invite a colleague to join IAVCEI!

HANS-ULRICH SCHMINKE HONORARY MEMBER



Hans-Ulrich Schminke

Hans-Ulrich Schminke and I were born a year apart and an ocean apart. When we were children, lest ye forget, our countries were in conflict. For my generation, it's therefore wonderful to behold emanating from Germany, in a partnership with France, today's constructive internationalism and multilateral civilized leadership. Such ideals were evident in the honoree himself when I first met him 30 years ago in Berkeley. He's as troubled as I by the ongoing present-day tidal change between his country and mine.

Hans did his PhD work on the Columbia River Basalts and their sedimentary interbeds on the wide plateau east of the Cascades, lonely expeditions for a young European. He was no doubt sustained by belonging to the legendary cluster of grad students assembled around Aaron Waters. When, many years later, Hans directed me to Garcia Márquez' *Cien Años de Soledad*, the momentary context was our respective work in the Andes — but I thought the attachment might also have emerged from his own seasons of ethnological solitude 'East of the Mountains' on the vast barren Columbia Plateau.

His career-long investigations of the Eifel volcanic field and of Gran Canaria and its submarine apron are unsurpassed in multidisciplinary comprehensiveness. Hardly any earth scientist has undertaken so wide a range of investigations: flood basalts and volcanic sedimentology — cone sheets, calderas, and rheomorphic tuffs — pyroclastic-flow dynamics — magmatic petrology, isotope studies, and compositional zoning — marine and continental tephra-stratigraphy — submarine volcanism, landslides and seamounts — phreatomagmatism, hyaloclastites, englacial table mountains, and palagonite — petrology of enclaves and xenoliths — melt inclusions in phenocrysts, magmatic volatiles and their impact on the atmosphere — as well as scientific drilling in Cyprus, Iceland, and many sites on the ocean floor.

And to all this he brings the mind's eye of the naturalist, historian, artist, and photographer. No textbook is more perceptively illustrated than his recent volume, *Volcanism*.

Hans-Ulrich is profoundly German — with contributions assimilated from Japan and the Americas — yet he's transnational in the tradition of Goethe, Schiller, and von Humboldt. He's managed to reconcile scientific empiricism and universalist philosophy — balancing realism and idealism, order and freedom, contemplation and action, wanderlust and duty, and the needs of both science and society. Friedrich von Schiller wrote that only aesthetic cognition can bring about the reconciliation of nature and reason: "*There is no other way to transform a sensual into a rational human being but by making him first into an aesthetic being.*" Voilà l'homme!

Today we celebrate his induction as one of the first Honorary Fellows of IAVCEI. Like companion honorees, Shigeo Aramaki and Bob Tilling, Hans-Ulrich has contributed grandly to advancing the sophistication and stability of volcanology — institutionally and scientifically. During his eight years as Secretary-General, he brought his own scientific stature, his richly cultured historical perspective, his broad scientific and institutional vision, his tough-minded initiative, and his articulate voice, to the task of broadening and elevating the stature of this truly international association.

During 10 years as Executive Editor of the *Bulletin of Volcanology*, he stabilized it with a high-quality publisher and editorial board, turning it into a leading international journal, where physical, petrological, and geophysical volcanologists alike are all proud to publish. It's certainly an enduring legacy.

In his textbook *Volcanism*, Hans observed that a basic motivation for most volcanologists is scientific curiosity and that many among us are also devoted to the enlightenment of the non-scientific public about natural processes. As Hans has himself always exhibited both lines of motivation, we honor him best by following his example, in continued concerted efforts, that data and logic may eventually win out over superstition, greed, and mere politics.

I'm proud to present to you Hans-Ulrich Schminke, a truly distinguished, *honored* leader of IAVCEI.

Wes Hildreth
Pucón, Chile
19 November 2004

SCHMINCKE REPLY TO HONORARY MEMBERSHIP

Thank you Wes, and thank you all who really represent IAVCEI. To help transform IAVCEI from a somewhat politically-governed, dominantly European organization into a broad and truly international scientific society, whose vitality would be sustained by the dedicated participation, intellectual power and scientific creativity of individuals, was one of my main goals when I served as Secretary General. I am happy to see IAVCEI alive and well.

To receive this honor in Chile 30 years after a preceding IAVCEI conference was held in this country under, then, gloomy circumstances (which some of you remember) is especially gratifying.

Your citation Wes was quite philosophical and moving. You unfolded, in your special Hildreth-mode, the intricate and fascinating web of historic, societal and personal constellations in the framework of which each of us is moving about and tries to live a gratifying and, hopefully, useful life. The generation both of us are part of received some of its motivation and perspective by being post-war in our education, a heritage that roots our strength to view things in a critical spirit not restricted to science, add to this the fact that we as geologists are highly privileged scientists. We experience the world in many different countries as an essential part of our professional work, and learn first-hand about other cultures and strata of society that remain foreign to most academics.

Let me now be more “Down to Earth”, actually a wonderful expression and really the essence of our profession. It could be the motto for our work, our goals and thus our association — “Down to Earth” — and for the people. You may remember a letter exchange with a colleague I had a few years ago when I maintained that, for me, people are first, with science being second.

In our field work we may have to survive — and sometimes enjoy — *meses de soledad*. But it is the people, at crucial moments in our life, that sustain us, give us strength and help us follow this or that path. What you have sketched as accomplishment is actually the sum and result of all these factors, the historical situation, the other constellations, the professional privilege and the encounters with people. And sheer luck.

Pivotal in many ways for my appreciation of quality in science and dedication to teaching was the academic spirit of excellence I encountered when I went to the US in 1960 (Johns Hopkins) for my PhD. Back home, this fundamental experience and the friends I had made then and during

later visits to the US together, were the prime source of strength when battling a university system that was — and still is — sluggish in facing the reality of unavoidable reforms. On the other hand, much enjoyment and encouragement over the past 35 years sprang from the privilege of working with many gifted graduate students and post docs many of whom have become good friends. Some of them I can see in the audience, former graduate students Armin Freundt, Gerd Wörner, Martina Halmer, and Guillermo Alvarado, and former postdocs Jocelyn McPhie, Bruce Houghton, Alexander Belousov, Claus Siebe, and Shane Cronin.

Prior to, during, and after my service as IAVCEI Secretary General (1983–1991), the constant encouragement and cooperation of many colleagues and friends was essential. These include the then IAVCEI Presidents the late Ian Gass, Shigeo Aramaki, as well as Chris Newhall, Pete Lipman, Steve Sparks, Don Swanson, Bob Tilling, Jim Cole, Gail Mahood, Wes Hildreth, Gerd Brey, and many others. They all share this honor. My personal family, for the past almost 15 years, Mari Sumita has been the human source of strength that kept me in balance (I hope).

Let me close with a few lines in Spanish written by one of the greatest poets of this country, the Nobel laureate Pablo Neruda, who grew up in nearby Temuco. Neruda loved the volcanoes of his country and wrote about Villarica, the impressive volcano with the fuming crater, of which some of us can enjoy everyday from the windows of their hotel room.

From La Isla:

Yo aprendiz de volcanoes, conocí
Infane aún, las lenguas de Aconcagua
El vómito encendido del volcán Tronador
En la noche espantosa vi caer
La luz del Villarica fulminando las vacas
Torrencial, abrasando plantas y campamentos,
Crepitar derribando peñascos en la hoguera.

Thank you for this honor, muchas gracias, and “Down to Earth”.

Hans-Ulrich Schmincke

Pucón, Chile

19 November 2004

ROBERT I. TILLING HONORARY MEMBER

Bob Tilling was born in Shanghai, China and educated in the United States at Pomona College and Yale University. His ties to Chile go back to his dissertation research at Yale, when he worked on batholith emplacement and contact metamorphism in the Paipote-Tierra Amarilla area of Atacama, Chile.

After graduation, Bob went to work for the U S Geological Survey in 1962 and is still there, having recently been appointed Scientist Emeritus. For 10 years he continued his research on batholith emplacement and evolution in Montana. He then saw the light and entered the field of volcanology.

Since 1972, when he was assigned to the Hawaiian Volcano Observatory, he has been an important player as a scientist and administrator. He has worked on Maunu Ulu (Hawaii), Mount Saint Helens (Washington), El Chichón (Mexico), Galunggung and Merapi (Indonesia), Guagua Pichincha and Tungurahua (Ecuador), Nevado del Ruiz (Colombia), Lake Nyos (Cameroon), Mount Hood (Oregon), and Puu Oo (Hawaii).

I know for certain that his association with IAVCEI goes back for 30 years. As a tireless volunteer for the association, he has edited journals and books, organized short courses and workshops, prepared educational materials, and served as vice-president from 1991 to 1995.

Bob's continuing hard work and enthusiasm, along with his many scientific contributions, have contributed to IAVCEI's success. It is an honor to present this award for lifetime achievement to Robert I. Tilling!

Grant Heiken

Pucón, Chile

19 November 2004

**Electronic Geophysical
Year Website
www.egy.org**

TILLING REPLY TO HONORARY MEMBERSHIP



Robert I. Tilling

Thank you very much, Grant, for the gracious citation, and it is with immense pleasure that I accept the Honorary IAVCEI Life Membership. It's a great honor to be elected by the Executive Committee to be among the first-ever trio to receive such recognition, along with my two long-time, distinguished colleagues, Shigeo Aramaki, and Hans Schmincke. Also, receiving this honor here in Pucón, Chile, gives me added satisfaction. In a very real sense, my geological career began in Chile, when I arrived in June 1960 to conduct fieldwork near Copiapó (Provincia de Atacama) in connection with my doctoral thesis at Yale. During the following year, not only did I gain my first experience in geologic mapping and research, but also I came to appreciate the remarkable friendliness, generosity, and hospitality of the Chilean people.

As Grant mentioned, early in my USGS career, my work was focused on plutonic rocks — comprising the roots of volcanoes rather than their surface expressions. But after a visit in 1965 to Kilauea Volcano on the Big Island of Hawaii, I discovered the excitement and challenges of active volcanoes. Fortunately, beginning with my assignment to the Hawaiian Volcano Observatory in 1972, I was able to pursue what became my life's work — the monitoring and mitigation of volcano hazards. Needless to say, the subsequent decades have afforded me numerous opportunities to work at many volcanoes around the world and to interact with many esteemed volcanologic friends and colleagues, within and outside the USGS. In this regard, my involvement with IAVCEI over the decades has been particularly important. For me, participation in IAVCEI commissions, working groups, conferences, workshops, and publications has been educational, productive, and enjoyable. Actually, it has never seemed like 'work,' but rather fun. Another key factor that has made — and is continuing to make — possible my contributions to volcanology and IAVCEI is the steadfast support of the USGS over the years, before and after my retirement in January 2004. I wish to express my special thanks to the USGS Volcano Hazards Program and Team and their predecessors.

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It is my intention to participate fully in IAVCEI meetings and activities in the years to come — I am still engaged in some unfinished IAVCEI-related business. Finally, at the General Assembly in Pucón, I was delighted to see so many *young*, enthusiastic people in attendance. Clearly, the future of our organization will be in good hands!

Aloha,

Bob Tilling

VEA REPORT

Report on activities of the Commission for Volcanism and the Earth's Atmosphere at the 2004 IAVCEI General Assembly in Pucón, Chile

Alan Robock, Leader of the Volcanism and the Earth's Atmosphere (VEA) Commission, Georgiy Stenchikov (gera@envsci.rutgers.edu) and Stephen Self (stephen.self@open.ac.uk) co-convended Session 6c, *Impact of Volcanic Eruptions on Weather and Climate* at the 2004 IAVCEI General Assembly in Pucón.

There were 12 oral presentations in a half-day session and a further 16 posters. The talks were well-attended by up to 70 participants, and both posters and talks included new and novel research in the field. The topics could be broadly divided up into papers on:

- dynamical (especially ice-related) and chemical processes in eruption columns and clouds (presentations by Adam Durant, Bill Rose, Ray Shaw, and Earle Williams)
- chemical species and abundances in volcanic emissions (presentations by Alvaro Amigo, Martina Halmer, Clive Oppenheimer, Melissa Pfeffer, and Xuan Wang)
- effects of past eruptions and their aerosol clouds (presentations by Daniele Andronico, Chang-Hwa Chen, Francesco Fidele, Grant Heiken, Luke Oman, Alan Robock, Stephen Self, Kirti Sharma, and Thor Thordarson)
- studies of aerosol time series, including ice-core records, and the role of aerosols in climate change (presentations by Caspar Ammann, Chaochao Gao, and Philippe Naveau)
- modeling of the climatic impact of eruptions and environmental controls on eruptions (presentations by Ben Mason, Gera Stenchikov, and Manu Thomas)
- the role of volcanic activity on the carbon cycle and CO₂ (presentations by Steve Blake, Dave Hofmann, and Fred Prata)

The wide variety of topics, the many methods of study, and, especially, the number of presentations made by postgraduate students and young scientists, indicate that interest in this topic is vigorous. The VEA regulars welcomed several new researchers to the field.

After the session, the attendees stayed on for a VEA Commission meeting. It is 12 years since an IAVCEI task force on the atmospheric impact of volcanism, the forerunner of the Commission, was formed at a Chapman Conference held in Hilo, Hawaii, in the wake of the great Pinatubo natural aerosol experiment. From this, the VEA Commission was formed with Greg Zielinski and Steve Self (co-leaders), and Alan Robock (secretary). One commission task was to compile a database of sulfur-producing eruptions, and it took the Commission several tries to obtain seed-money to begin the work, but a major project did not evolve. Parts of this task are still being carried on by Alan Robock and his students. Later, Alan took over running the commission, and several successful sessions were convened at various national and international conferences, including two at the American Geophysical Union and one at the IUGG meeting in Sapporo in 2003.

At the Bali IAVCEI meeting in 2000, an idea was proposed by Alan for a ten-year anniversary meeting in Hilo to review progress made in the post-Pinatubo decade. This highly successful AGU Chapman Conference was held on Santorini, Greece in 2002 and was attended by well over 100 scientists. From the papers presented at this meeting came the AGU Geophysical Monograph 139 (2003), entitled *Volcanism and the Earth's Atmosphere* and edited by Alan Robock and Clive Oppenheimer, a timely marker of progress in studies of the environmental impact of volcanism made by commission-related researchers.

Finally, Alan Robock (Rutgers University, USA; robock@envsci.rutgers.edu) proposed that he should hand over the reins of the VEA Commission after more than eight years as secretary and five years as leader. Clive Oppenheimer (Cambridge University, UK; co200@cam.ac.uk) offered to take over, with Libby Prueher (USGS; lprueher@usgs.gov) acting as Secretary and Webmaster. Alan was thanked most sincerely for his long spell at the helm of the VEA Commission. With a change of leadership, the Commission can look forward to another intra-congress period of renewed growth and new interests, and, who knows, another atmospherically-significant eruption?

Stephen Self

Volcano Dynamics Group
The Open University, UK
stephen.self@open.ac.uk

CALL FOR NOMINATIONS FOR IAVCEI OFFICERS 2007–2011

It is time for organizing the effort to nominate IAVCEI officers for the term, from July 2007 to July 2011. The IAVCEI officers are:

President

[nominations needed]

Two Vice Presidents

[at least two nominations needed]

Secretary General

[nominations needed]

Four Executive Committee members

[at least four nominations needed]

The current IAVCEI Executive Committee will soon form a nominations committee. The previous committee, which served in 2002, included:

Dr Wally Johnson – Australia, Chair

Dr Jim Gardner – US

Dr Roberto Scandone – Italy

Dr Claude Jaupart – France

Dr Setsuya Nakada – Japan

Nominations are invited from the community according to the guidelines below (from the IAVCEI Statutes and By-Laws, which can be found on the IAVCEI website ‘www.iavcei.org’). Nominations must be sent to the chair of the committee, and must be received by January 15, 2007.

The election will be held by postal vote and will take place in April 2007. The ‘current year’ for voting purposes will be 2007. Further information and updates will appear in future issues of the newsletter and on the IAVCEI website.

In the sections that follow, note that an ‘affiliate’ is a member.

Relevant Portions of IAVCEI Statutes and By-Laws:

IV. Voting

10. Affiliates from member countries who have paid their dues for the current year and National Correspondents shall receive ballots for new office-bearers and for any proposed changes to the Association’s Statutes and By-Laws.

11. Ballots will be distributed at least three months before, and must be returned no later than one month before IUGG General Assemblies.

12. Any Affiliate or National Correspondent may nominate in writing any other current Affiliate or National Correspondent as an office-bearer of the Association provided:

(1) the nomination is seconded by three other current Affiliates or National Correspondents each from countries other than that of the nominee; and

(2) the nominee, nominator, and seconders are all from a country belonging to the union. All nominations must be received no later than six months before the General assemblies of the Union.

13. All nominations shall be considered by a Nominating Committee which will produce a shortlist of at least two, but no more than three, candidates for each of the positions on the new Executive Committee. No more than two candidates from the same country can be proposed by the Nominating Committee for all of the positions. The Nominating Committee will be appointed by the Executive Committee no later than nine months before the General Assemblies of the Union. It will consist of no less than five current Affiliates or National Correspondents, one of whom will be nominated by the Executive Committee as a Receiving Officer for postal votes. The outgoing Executive Committee has the power to appoint candidates of its own where only one, or no, candidates are nominated by Affiliates and National Correspondents.

14. Voters shall be required to rank candidates in order of their preference. The candidate with the largest number of first-place votes will be elected in cases where there are only two candidates. In cases where there are three candidates and none has a majority of first-place votes, then the candidate with the fewest first-place votes will be eliminated. The one of the two remaining candidates having the higher number of second-place votes will be elected. The third-place votes will be used in cases where the second-place votes are equal.

New IAVCEI Life Members

Dr Tishiya Mori

Dr Oded Navon

WOVO REPORT

Report of World Organization of Volcano Observatories (WOVO) meeting

Tuesday 24 January 2006, 7:00pm, Hotel Quito, Quito, Ecuador (during the Cities on Volcanoes 4 Conference).

Attendance

Brad Scott, Steve Malone, Robert Tilling, Juan Jose Ramirez, Silvia Ramos H., Maurilio Breton, Victor Aguilar, Amanda R. Leonard, Peter Webley, Nigel Gait, Chris Newhall, Orlando Macedo, Minard L. Hall, Rosalind Helz, Randall White, Catherine Hichson, Marco Rivera, Peter Dunkley, Steven Hosford, Malaika Ulmi, Graham Leonard, Jersey Marino, Vicentina Cruz, Lourdes Cacya, Erouscilla Joseph, Raul Romero, Angel Gomez, Elisabeth Head, Augusto Neri, Shinji Takarada, Mauro Coltelli, Marianne Guffanti, John Ewert, Andrew Tupper, Glen Mattioli, and Warner Marzocchi.

Opening Remarks

Warner Marzocchi, Andrew Tupper, and Glen Mattioli welcomed all present to the meeting, and explained that as the new WOVO co-leaders, they were looking for advice and discussion about the direction and immediate priorities of WOVO over the next few years. There had been no formal agenda formulated for the meeting, but the co-leaders had prepared a draft 'task and talking points list' that was used as a basis for discussion.

WOVO Tasks

1 - Structural Issues

a. Protocols for sharing data between observatories and other agencies. The co-leaders felt that there was room for development of sample protocols for adoption by agencies that share data on volcanoes, either routinely, or during a volcanic crisis. The protocols would relate to how the data can be used; the idea of the protocols would be to encourage the exchange of information, with all parties being aware of their restrictions and responsibilities for use of the data.

b. Procedures for support or otherwise of funding proposals. WOVO could develop internal protocols to allow endorsement (not monetary support) or otherwise of funding proposals to other organizations, e.g.

- i. WOVO receives a request for a letter of support.
- ii. The proposal is circulated to affected members for feedback.
- iii. Consensus is reached before WOVO replies.

c. External communication

- i. The WOVO co-leaders discussed updating the WOVO Web page at www.wovo.org; we expect to progress very soon.
- ii. We will update the mailing list, and the Web page addresses given in the WOVO directory. Observatories will also be asked if they wish to specify an information officer to handle queries, rather than routing all E-mails to the director.
- iii. We would like to include on the Web page technical information, or links to technical information, about standard volcanic monitoring instruments and their set up (both hardware and software). This would function as a basic resource for observatories that may have difficulty accessing such information.

d. Internal communication

- i. There was some discussion at the meeting about communications within WOVO. It was pointed out that a mailing list had been set up previously by Chris Newhall, but had been barely used and then had vanished during the transfer of leadership. We will re-launch a mailing list as a matter of urgency.
- ii. Examples were discussed of things that WOVO could distribute that are relevant to all observatories. One example given was that the International Civil Aviation Organization has created a cost recovery mechanism to reimburse some communications costs to observatories who have been asked to provide eruption information to the aviation/meteorological community (Marianne Guffanti and Andrew Tupper will follow this up).

e. External/Internal communications: Coordinate student placements at observatories. It was suggested that WOVO could provide a useful service by creating a system where students looking for placements could use the WOVO website to seek opportunities. Several ways to do this were discussed and we will discuss it further.

Continued on next page >>

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2 - Projects

- a. *Publicize existing collaborations.* WOVO could compile a list of projects between members. For example, there are several countries collaborating with the Government of Indonesia; yet, many of the international organizations are not necessarily aware of what the other is doing — WOVO would be a great vehicle for better coordination and cooperation.
- b. *WOVOdat.* There was considerable discussion on WOVOdat (see www.wovo.org/WOVOdat/index.htm). Chris Newhall indicated that he is very keen to keep pursuing the project and will welcome input. At the moment he is considering where the project will be hosted.
- c. *New funding proposals.* Warner Marzocchi suggested a scheme for supporting scientists from observatories from developing countries to visit other observatories (UNESCO is a possible source of money).
- d. *Colour codes/Alert levels.* We believe that it would be useful to expand the WOVO directory pages, by adding the alert level schemes applicable to each volcano or country.
- e. *Hazard maps.* Similarly, it would be useful to add volcanic hazard maps and/or web links to those maps.
- f. *Bibliography.* We intend to start compiling, and making available where possible, a list of material particularly relevant for WOVO members; for example papers on basic monitoring techniques, or protocols that have already been developed.

3 - IUGG 2007

- a. The next WOVO meeting will be at the IUGG 2007 meeting in Perugia, Italy, in July 2007.
- b. At that meeting, we are also planning to hold a workshop titled, *Non-localised Volcanic Hazards — Inter-agency and International Communications*.
- c. The description of the workshop as currently drafted is: “Natural hazard mitigation has increasingly globalised over the past few years. This workshop will consider the role and status of volcanic observatories as the ‘official’ warning source for non-localised, international volcanic hazards, particularly drifting volcanic ash clouds and volcanic tsunamis. The information needs of the International Airways Volcano Watch (IAVW) will be discussed in detail, along with the potential opportunities afforded by pooling the remote sensing, communications and funding capacities of IAVW members. Our discussion will centre on strategies to

use these opportunities to enhance volcanic monitoring and to coordinate the ‘official’ information from observatories to international organizations and to the media. Speakers will be invited to present the viewpoints of the International Civil Aviation Organization and other United Nations agencies, and volcanic observatories will be encouraged to share their own positive and negative experiences, and their ideas for the future.” Length: (1/2 day? 1 day?).

- d. At the moment, the workshop is in the early planning stages and input is very welcome (to Andrew Tupper: A.Tupper@bom.gov.au). For example, does any observatory actually have a system for tsunami warning? What about the effects of pyroclastic flows on international shipping? What other international or inter-agency issues could we discuss?

The WOVO meeting closed at 9 pm. We would like to express our great appreciation to the attendees for coming to the meeting during a very busy conference.

Glen Mattioli,
Warner Marzocchi
Andrew Tupper

CEV REPORT

A report of the international workshop on ‘Caldera Volcanism: Analysis, Modelling, and Response,’ Tenerife (October 16–21, 2005) written by Ray Cas, Adrian Pittari and Jill Middleton is now on the CEV website. *Please see this interesting report!*

View at: staff.aist.go.jp/s-takarada/CEV/

Contributions are welcome for this CEV website, such as recent workshop reports, activities at your universities or institutes, introduction of young volcanologists, and information of recent workshops.

Dr Shinji Takarada

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SOUTH AMERICAN REPORT

Colombia

Galeras Volcano shows notable activity.

Following a small phreatic eruption which dusted the city of Pasto and other towns with ash on November 24, 2005, a growing lava dome was sighted in the active crater of Galeras on January 13, 2006. The appearance of the dome was preceded and accompanied by a notable increase in seismicity related to fluid dynamics inside the volcano, especially long-period seismic events and tremor, as well as deformation signals detected by electronic tiltmeters. On March 3, 2006, an overflight revealed that the dome had dimensions of 90 x 60 m, with estimated growing rates in the range of 0.2 – 0.4 m³s⁻¹. By March 28, a Level 2 alert was declared by INGEOMINAS' Observatorio Vulcanologico y Sismologico de Pasto, implying that an eruption is possible within days or weeks and advising the activation of evacuation procedures for inhabitants living in high-hazard zones.

More information: www.ingegominas.gov.co/

Events

Three simultaneous scientific meetings will take place in Bogota, Colombia during August 8–12, 2006:

- I. Latin-American and Caribbean Symposium on Geophysics,
Non-conventional Geophysical Exploration Methods.
- II. Latin-American Congress of Seismology,
Volcanic and Seismic Hazards for Big Cities.
- III. Colombian Congress of Seismology,
*Advances in Studies of Seismic Hazard in Colombia:
Outstanding Aspects of Microzonation for Cities.*

For more information visit:

www.geoslac.org/eventos/index.html

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IAVCEI MEMBERSHIP BY COUNTRY

Total membership (22 January 2006): 732

ALBANIA	1
ARGENTINA	10
ARMENIA	1
AUSTRALIA	39
AUSTRIA	5
BELGIUM	5
BRAZIL	2
BULGARIA	2
CAMEROON	2
CANADA	17
CHILE	7
CHINA	7
COLOMBIA	4
COSTA RICA	2
CZECH REPUBLIC	1
DENMARK	3
ECUADOR	6
FAROE ISLANDS	1
FINLAND	2
FRANCE	17
GERMANY	43
HUNGARY	8
ICELAND	4
INDIA	1
INDONESIA	5
IRELAND	2
ISRAEL	2
ITALY	37
JAPAN	66
KOREA	4
LUXEMBOURG	1
MEXICO	17
MONTSERRAT	1
NETHERLANDS	5
NEW CALEDONIA	1
NEW ZEALAND	30
NORWAY	2
PAPUA NEW GUINEA	1
PERU	1
PHILIPPINES	2
POLAND	2
PORTUGAL	3
REUNION	1
ROMANIA	5
RUSSIA	10
SLOVENIA	2
SOUTH AFRICA	3
SPAIN	12
SWEDEN	3
SWITZERLAND	14
TAIWAN	3
TRINIDAD	3
TURKEY	2
UK	51
USA	251

TOTAL.....732

FUTURE MEETINGS

IAVCEI 2006 China, Continental Basalt Volcanism
 May 14–18, 2006 Contact: www.iavcei2006.org

Walker Symposium, Iceland
 June 12–17, 2006
 Contact: www2.norvol.hi.is/page/nordvulk_waker

International Symposium on Earth and Planetary Ice-Volcano Interactions, Reykjavik, Iceland
 June 19–23, 2006 Contact: www.igsoc.org/

State of the Arc 2007
 January 28–February 2, 2007
 Termas Puyehue, Chile

IUGG General Assembly, Perugia, Italy
 July 2–13, 2007
 Contact: www.iugg2007perugia.it

Cities on Volcanoes 5, Shimabara, Japan
 November 19–23, 2007
 Contact: www.citiesonvolcanoes5.com/index

IAVCEI 2008 General Assembly
 August 18–24, 2008 Contact: armh@hi.is
 Reykjavik, Iceland

IAVCEI 2012 Alaska
 Centennial of 1912 Katmai Eruption (tentative)
 June 1012

Further information may be found on the IAVCEI web site at www.iavcei.org

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1996	549
1997	558
1998	456
1999	656
2000	579
2001	588
2002	705
2003	715
2004	840
2005	730

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