



IAVCEI News 2017 No: 1

INTERNATIONAL ASSOCIATION OF VOLCANOLOGY AND CHEMISTRY OF THE EARTH'S INTERIOR

FROM THE PRESIDENT

Dear Colleagues,



*Don Dingwell
President of the
IAVCEI*

Time is running down to two important deadlines for our association.

Firstly, the deadline for the abstract submission to the IAVCEI Scientific Assembly in Portland, Oregon, USA is less than two weeks away. Please make every effort to attend as this is the most prominent venue on our calendar of meetings. It is an event where the highlights of scientific exchange between you all are enjoyed by the largest exclusively IAVCEI community. This issue has

been timed to remind you of the abundant offerings and opportunities that the Portland meeting will encompass. So read on to remind yourself and/or to convince yourself of the wisdom of attending.

Secondly, the IAVCEI Awards deadline is also upon us (it has been extended to March 30). So there still exists the last minute opportunity for IAVCEI members to nominate their peers for special recognition by the Association as a whole. Nominating colleagues can be one of the most rewarding experiences of solidarity in our community. It is an experience that gives the nominators a moment to pause and consider the history of achievements in our fields. I highly recommend it.

Even better, many of the awards will be conferred at the Portland Scientific Assembly, giving you one more reason to be there. So

why not participate in an award nomination and go to Portland and possibly see the fruits of your altruistic labour rewarded there.

Finally, if you have not signed up for 2017 as a member, please do so at your earliest convenience. We are on our way towards an even more organisationally robust Association that will deliver more and better services to its members.

*D. B. Dingwell,
Munich, 15 March 2017*

IAVCEI 2017 PORTLAND 14 – 18 August 2017 “Fostering Integrative Studies of Volcanism”

IAVCEI, and the local organizing committee, are excited to convene the 2017 Scientific Assembly in Portland, Oregon, August 14–18. The assembly, focused on fostering integrative studies of volcanism, includes a vibrant mix of scientific and social activities. The conference includes a comprehensive suite of themed sessions, pre- and post-conference field trips and workshops, and mid-conference field trips. It also includes a suite of social activities: an icebreaker reception and student/early career scientist social mixer at the Hilton Hotel in downtown Portland; other social events for students and early career scientists; an opportunity for students to meet with a career mentor; screening of the Netflix movie *Into the Inferno* by Clive Oppenheimer and Werner Herzog; an evening of ‘film shorts’; a public event at the Oregon Museum of Science and Industry sponsored by the Mount St. Helens Institute; and a farewell party featuring the iconic Portland band Pink Martini.

The local organizing committee looks forward to welcoming all. A newly released executive order by the U.S. administration regarding travel restrictions to the U.S. by residents from certain countries continues to shake the scientific community. The local planning committee for the IAVCEI 2017 Scientific Assembly wishes to make it abundantly clear that we fully support all communities and embrace participation by all in the upcoming scientific assembly. We understand and empathize with the passionate feelings of colleagues who may decide to boycott the assembly as a protest. For those who decide to attend, the Portland planning committee is committed to hosting a vibrant, meaningful, and inclusive meeting. We look forward to hosting our science community, and especially our community members from abroad.

The main meeting webpage is at <http://iavcei2017.org>.

A Facebook page is also available at

<https://www.facebook.com/search/top/?q=iavcei.org%202017%20scientific%20assembly>.

ABSTRACT SUBMISSION

Abstract Submission is Open Now

We remind conference participants that the **abstract submission deadline is extended to March 22, 2017**. To submit an abstract, please go to

<http://iavcei2017.org/abstract.html>

REGISTRATION

Early bird registration for the assembly will close on **June 1, 2017**. At that time, online registration for workshops and pre- and post-conference field trips will also close. After June 1, conference registration fees will incur a \$50 late-registration penalty, and field trip and workshop attendance will be on a case-by-case basis if trip leaders and workshop conveners have spaces open. We encourage you to register as soon as possible as some trips and workshops are likely to fill swiftly. For information regarding registration fees and to register for the conference, field trips, or workshops, visit

<http://iavcei2017.org/registration.html>.

CONFERENCE VENUE AND HEADQUARTER HOTEL

The conference is at the Oregon Convention Center, just northeast of downtown Portland on the east side of the Willamette River. The headquarter hotel for the assembly is the Hilton Portland and Executive Tower in the heart of downtown. The icebreaker party, social mixer for students and early career scientists, and a number of workshops and committee meetings will be held at the Hilton. Portland's MAX light rail line links Portland International airport, the Hilton hotel and the convention center, and provides easy access among venues. Conference registrants will be provided a light rail pass at check-in. The organizing committee has reserved a block of rooms at the Hilton Hotel at very competitive discount rates and we strongly encourage attendees to make room reservations here. Room rates are available as single (\$170/night), double (\$176/night), triple (\$185/night) and quad (\$192/night). U.S. Government employees can obtain the government rate

when making a reservation. To obtain these rates, rooms must be reserved by **July 23, 2017**, and you must indicate the reservation is for the group IAVCEI. After July 23, reservations will be charged market rate. Because there will be a total solar eclipse in the region on Monday, August 21, rooms in the Portland area are in high demand and command premium prices. A link for booking a room at the Hilton is on the 2017 assembly website at

<http://iavcei2017.org/hotel.html>

EARLY CAREER RESEARCHERS

The IAVCEI 2017 Organizing Committee has partnered with the IAVCEI Early Career Researcher Network (ECR-Net) to support the participation and development of ECR attendees. Please visit <http://iavcei2017.org/ecr.html>. A full agenda of activities is planned. A Facebook page for the ECR network is at

[https://www.facebook.com/search/top/?q=IAVCEI%20Early%20Career%20Researcher%20Network%20\(ECR-Net\)](https://www.facebook.com/search/top/?q=IAVCEI%20Early%20Career%20Researcher%20Network%20(ECR-Net)).

PLENARY PRESENTATIONS

In addition to the oral and poster sessions for the conference, the meeting will also include a number of keynote plenary presentations to start each day. Plenary speakers, and topics, include:

Ray Wells (US Geological Survey) US Pacific Northwest regional tectonic framework

Anita Grunder (Oregon State University) Western US regional volcanism

Bill Chadwick (Hatfield Marine Science Center) Methods of investigating submarine volcanism

Brandon Schmandt (University of New Mexico) Methods of investigating terrestrial volcanism

Vicki McConnell (Geological Society of America) The interface between science and government

Peter Frenzen (US Forest Service Mount St. Helens National Volcanic Monument) The interface between science and the public

Jim O'Connor (US Geological Survey) Quaternary geology of the Columbia River Gorge

Plans are also in the works for lunchtime presentations on local geology, integrating science into public policy, and other relevant topics.

One morning of the assembly will be devoted to handing out several IAVCEI awards and hearing from the awardees. Please consider nominating a worthy colleague for one of several IAVCEI awards. For a list of awards and nominating procedures, visit www.iavcei.org/iavcei-awards.html

COMMISSION MEETINGS

Commissions wishing to hold meetings during the conference should contact Wendy Bohrson to schedule a meeting place and time (bohrson@geology.cwu.edu).

SCIENTIFIC PROGRAM SESSIONS

For complete descriptions of program sessions, visit

<http://iavcei2017.org/sessions.html>

I. Magmatism and tectonism

I.1 Planetary Volcanology

[I.2 Relating magmatic-tectonic processes and volcano flank stability](#)

[I.3 How good are volcanoes at sampling magmatic systems in space and time?](#)

[I.4 Arc evolution: space, time, morphology, and longevity of volcanic arcs](#)

II. Using geophysics and geochemistry to probe magmatism and eruption processes

[II.1 Viscous Lava Flows and Domes: Multi-disciplinary Studies of Emplacement Mechanisms](#)

[II.2 Basaltic eruption styles and transitions in intensity: from driving processes to impacts](#)

[II.3 Active Lava Lakes: A Window into the Deep?](#)

[II.4 Experimental volcanology: from magma generation to the transport and emplacement of pyroclastic materials](#)

[II.5 Using geochronology and quantitative petrology to understand the P-T-t-X evolution of magmatic systems leading up to volcanic eruptions](#)

[II.6 Volcanism and magmatism under water or ice](#)

(Sponsored by the Commission on Submarine Volcanism)

[II.7 Architecture of magmatic plumbing systems](#)

[II.8 Investigating conduit processes and eruption dynamics by integrating experiments, numerical modelling, observations, and sample analysis](#)

[II.9 Continental large igneous provinces: understanding processes of magma formation, storage, evolution, and eruption](#)

(Sponsored by the Commission on LIPs)

[II.10 A tribute to the life and work of Jon Davidson \(1959-2016\)](#)

III. From precursors to eruption

[III.1 Forecasting volcanic eruptions](#)

[III.2 Geophysical multi-parameters techniques for monitoring active volcanoes](#)

(Sponsored by the Commission on Volcano Seismology)

[III.3 Statistical approaches and integrated methods for improved forecasting of volcanic eruptions](#)

(Sponsored by the Commission on Statistics in Volcanology)

(Sponsored by the Commission on Volcanic Hazards and Risk)

[III.4 Multidisciplinary constraints on volcanic eruption triggers](#)

(Sponsored by the Commission on Monogenetic Volcanism)

[III.5 Wet volcanoes: aquifers and lakes and their related hazards](#)

[III.6 Processes leading to monogenetic volcanism](#)

(Sponsored by the Commission on Monogenetic Volcanism)

[III.7 Linking monitoring data with volcanic processes](#)

[III.8 Combining geological data and numerical simulations for understanding the eruption dynamics and depositional processes](#)

[III.9 Progress in understanding submarine volcanism](#)

(Sponsored by the Commission on Submarine Volcanism)

[III.10 Understanding pyroclastic density currents through analysis of their deposits](#)

IV. Volatile influences on eruption style, degassing, atmospheric chemistry and climate

[IV.1 Remote sensing of volcanic gases from space-based, airborne and ground-based platforms](#)

[IV.2 Sulfides in volcanic systems: implications for sulfur and trace metal budgets of eruptions](#)

[IV.3 The role of volatiles and degassing in magmatic and eruptive processes](#)

[IV.4 Volcanic plumes and clouds: from injection to dispersion](#)

[IV.5 The role of volatiles in volcanic systems of the Earth's lithosphere](#)

[IV.6 Magma fragmentation and the production of volcanic ash](#)

V. Evaluating volcanic hazards

[V.1 Lava flow dynamics and hazard assessment](#)

[V.2 Volcano geomorphology and sedimentology: topography, processes, and deposits](#)

[V.3 Modelling volcanic hazards](#)

(Sponsored by the Commission on Statistics in Volcanology)

(Sponsored by the Commission on Volcanic Hazards and Risk)

[V.4 Just add water: hazards variation in lava flows, steam-driven and hydromagmatic explosive eruptions](#)

[V.5 Evaluating hazards by mapping and interpreting volcanic deposits](#)

(Sponsored by the Commission on Volcanic Hazards and Risk)

[V.6 Volcanic ash and gas: Generation, transport and impacts on infrastructure, aviation, and climate](#)

[V.7 Volcano geology and geological mapping as tools for unravelling volcanic history and long term hazards assessment](#)

(Sponsored by the Commission on Volcano Geology)

VI. Volcanoes, energy and resources

[VI.1 Volcano-hydrothermal system dynamics: Hazards, resources, and extremophiles](#)

[VI.2 New approaches to understanding magma and volatile evolution, sub-volcanic intrusions and porphyry ore mineralization](#)

[VI.3 Application of geological mapping and field surveys to different exploitation contexts \(geothermal and ore deposits\)](#)

(Sponsored by the Commission on Volcano Geology)

VII. Volcanoes and human societies

[VII.1 Managing Volcanic Risk in Developing Countries: Benefits from Community Based Risk Strategies](#)

(Sponsored by the Commission on Cities and Volcanoes)

[VII.2 Volcanic geoheritage](#)

(Sponsored by the Commission on Volcano Geoheritage and Protected Volcanic Landscapes)

[VII.3 Start spreading the news: Diverse and effective methods for communicating about volcanoes](#)

[VII.4 Integrated volcanic risk assessment](#)

(Sponsored by the Commission on Cities and Volcanoes)

(Sponsored by the Commission on Volcanic Hazards and Risk)

[VII.5 Health roles in volcanic crises: looking back, looking forward](#)

VII.6 Successful information coordination among scientists, civil protection groups, and local officials during a crisis

(Sponsored by the Commission on Cities and Volcanoes)

VIII. Future thinking - what's on the horizon that could be a game-changer?

VIII.1 New approaches using statistical methods in volcanology

(Sponsored by the Commission on Statistics in Volcanology)

VIII.2 Drones and robots in volcanology

VIII.3 Volcano databases: new developments and applications

(Sponsored by the Commission on Volcano Geology)

VIII.4 Visualization Tools and Image Processing In Volcanology

PRE- AND POST-CONFERENCE FIELD TRIPS

For complete descriptions of pre- and post-meeting field trips, visit <http://iavcei2017.org/ftrip.html>.

Pre-meeting field trips:

A1. Crater Lake and Newberry Volcano

A2. Exploring pyroclastic density current deposits from the 18 May 1980 eruption of Mount St. Helens, Washington

A3. Holocene age dike-fed silicic domes and flows in Oregon and California

A4. Mammoth Mountain, Long Valley Caldera, and the Bishop Tuff

A5. The lacustrine volcaniclastic deposits of the Ohanapecosh Formation, Washington

A6. Volcaniclastic sediments from snow/ice-capped volcanoes: Mount St. Helens and Mount Hood

A7. Eruptive history and magmatic system of Mount Hood, Oregon

A8. Introduction to Kilauea and Mauna Loa volcanoes, Hawai'i

A9. Continental arc to rift volcanism of the Southern Rocky Mountains - Southern Rocky Mountain, Taos Plateau, and Jemez volcanic fields of southern Colorado and northern New Mexico

A10. Volcanism and its interaction with snow and ice at Mount Rainier

A11. Quaternary volcanism on the Yellowstone Plateau

A12. Mount St. Helens---Recent and ancient volcaniclastic processes and deposits

Post meeting field trips:

C1. Stratigraphic evolution, eruption history, and structure of the Columbia River Flood-Basalt Province

C2. Mafic volcanism of the central Oregon Cascades

C3. A volcanic transect of the Pacific Northwest

C4. Monitoring the Yellowstone Caldera: Geologic history, geothermal activity, earthquakes, and ongoing unrest

C5. Volcanoes of the California Cascades

C6. Mount St. Helens: An overview of the eruptive history and petrology, tephra deposits, 1980 pyroclastic deposits, and the crater

C7. Columbia River flood basalts, associated rhyolites, and diverse post-plume volcanism in eastern Oregon

WORKSHOPS

For complete descriptions of pre- and post-meeting workshops, visit <http://iavcei2017.org/wkshops.html>.

Pre-meeting workshops:

Saturday, August 12 and Sunday, August 13

1. Promoting the Use of Satellite Observations at Volcano Observatories

2. State of the Hazard Map 3

3. Modeling Volcanic Processes Using MELTS

4. The Magma Chamber Simulator: A Phase Equilibria Modelling Tool for Magma Recharge, Crustal Assimilation and Crystallization (RAFC)

5. Melt Inclusions: Methods and Applications

6. MSNoise Workshop: From Noise to Data

7. Using GPS To Monitor Volcanoes: From Field Data to Modeling

Sunday, August 13

1. Navigating the Publication Process: Best Publishing Practices in Volcanology and the Physical Sciences for Early-Career Scientists

2. Using Small Unmanned Systems in Volcanology (Aka "The Drone Workshop")

3. Statistics in Volcanology: Workshop on Volcanic Record Completeness

Post-meeting workshops:

Saturday, August 19

1. Harvesting Energy from Volcanoes: Knowing the Science, Hazards and Uncertainties Behind Exploration

2. Best Practices in Tephra Collection, Analysis, and Reporting: Leading Toward Better Tephra Databases

3. Numerical Modeling with OpenFOAM for Volcanological Applications

4. Modeling and Uncertainty Analysis Using Computing and Data Workflows on the Vhub Platform – applications to mass flow models

Saturday, August 19 to Thursday, August 24 at Lassen Volcano

1. Statistics in Volcanology: The Hazards of Lassen Volcano

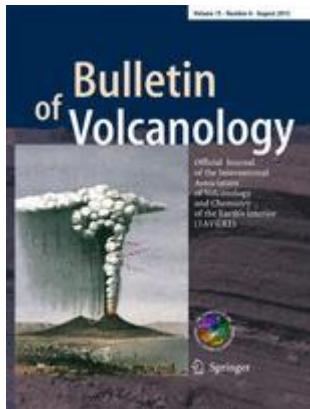
MID-CONFERENCE FIELD TRIPS

Mid-conference field trips will include options to visit Mount St. Helens, Mount Hood, the Columbia River Gorge, and Columbia River Basalt group. All trips to Mount St. Helens will visit the Johnston Ridge Observatory and discuss the 1980 eruption and its effects, with trip options that focus on geomorphic response and consequent sediment mitigation strategies, discussions of the impacts and geology of the massive 1980 debris avalanche, and hikes to examine the deposit morphology and geology. The Mount Hood trip will examine eruptive history and volcano hazards. The Columbia Gorge trip will discuss ancient and modern landslides, the great late-Pleistocene Missoula Floods, and volcanic geology of the scenic Gorge. The Columbia River Basalt group trip will focus on the volcanic stratigraphy of the Columbia River Gorge.

We look forward to seeing you in Portland in August. If you have any questions about the conference, need assistance with letters of invitation, or have difficulties with registration, please contact 2017conf@pdx.edu.

BULLETIN VOLCANOLOGY

Seeking new Executive Editor for Bulletin of Volcanology



On behalf of the international volcanological community the IAVCEI Executive Committee would like to thank James White for his outstanding term as Executive Editor of the Bulletin of Volcanology. I am sure you will all agree that James and Linda have done a fantastic job of managing the journal over the past years.

As James's term comes to an end, the IAVCEI Executive Committee (EC) seeks expressions of interest for the role of Executive Editor of the Bulletin of Volcanology, for a term of 6 years, starting in July 2017. The role requires familiarity with a breadth of volcanology topics, as well as commitment to timely editorial handling and improving the journal for volcanologists, including striving to increase its impact factor. Previous editorial experience is required, and we especially invite expressions of interest from existing Associate Editors of the Bulletin or other journals of similar specialization and importance. The role includes funds for an Editorial Administrator. The new Executive Editor and Editorial Administrator will be trained by the current editorial team (James and Linda White) during a month-long transition period. For more information on the specific requirements and time commitments of the role please consult the Terms of Reference on the IAVCEI webpage (www.iavcei.org).

Your expression of interest should include a cover letter briefly explaining what you think you can bring to the role, as well as a brief CV.

Please email these to the IAVCEI Executive Committee **via Jan Lindsay** (j.lindsay@auckland.ac.nz) by 30 April 2017.

ADVANCES IN VOLCANOLOGY

Springer Book Series

New Book Proposals NEEDED

If you are thinking of preparing a book that can be used as a reference item, a summary of recent research achievement or be used as a handy desktop book for research and teaching please consider the *Advances in Volcanology* book series.

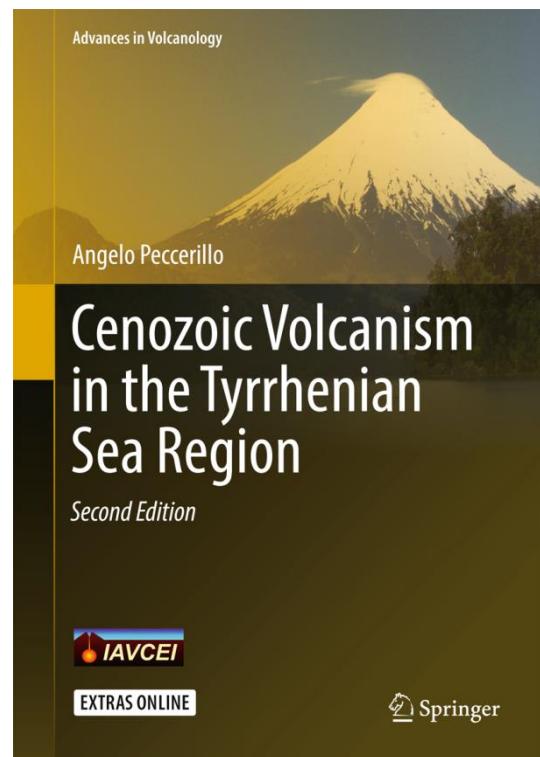
Editorial Manager for *Advances in Volcanology* is now fully operational hence book chapters can be uploaded through the fully electronic platform of Editorial Manager.

<http://www.editorialmanager.com/avol>

The review process and manuscript style is identical to those of Bulletin of Volcanology.

New book proposals are always welcome. Please send your proposal to discuss your ideas to Karoly Nemeth (k.nemeth@massey.ac.nz) and we can provide some advice to succeed your book.

We also welcome a new book in the Advances in Volcanology book series



This is an updated edition of the book by the same author: "Plio-Quaternary volcanism in Italy - Petrology, geochemistry, geodynamics," published in 2005 by Springer. This edition has the same structure as the previous publication, with a general introduction; various chapters dedicated to different volcanic

provinces in Italy; and a final chapter on the relationships between magmatism and geodynamics. It includes information that has become available in the last ten years, and new chapters have been added offering detailed discussions of the Oligo-Miocene orogenic volcanism on Sardinia and of some small outcrops of fragmented volcanic rocks occurring in several places of the Apennines. This new edition now covers the entire Tyrrhenian Sea magmatism of the last 40 Ma. Lastly, it includes two appendices: Appendix 1 reports on a comparison between the Tyrrhenian Sea volcanism and the partially coeval magmatism along the Alps and adjoining areas and has the objective of highlighting similarities and difference that can tell us much on geodynamics and magmatism between the converging plates of Europe and Africa. Appendix 2 is an update of the 2005 edition appendix and deals with classification of orogenic rocks with special emphasis on potassic alkaline volcanics.

Download/Access via:

<http://www.springer.com/gp/book/9783319424897>

Karoly Nemeth Series Editor – Advances in Volcanology

REPORT ON THE EVENTS OF ALVO CITIES ON VOLCANOES 9, PUERTO VARAS, CHILE – 20-25 NOVEMBER 2016

The Cities on Volcanoes 9 (COV9) conference served as the perfect venue for different events organized or sponsored by the Latin American Association of Volcanology (ALVO). ALVO members convened several sessions, including:

- Session 2.4 - Hazard mapping and management: Developing and applying maps to support community and emergency management needs (convened by Hugo Delgado-Granados, Mary Anne Thompson, Jose Luis Palma, Graham Leonard, Hugo Moreno, Lizzette Rodríguez)
- Session 1.8 - Raising awareness of volcanic hazards with children (convened by Chiara Maria Petrone, Hugo Delgado-Granados, Martin Mangler, and Mariano Agusto)

ALVO co-organized the 2-day post-conference workshop W11-State of the Hazard Map 2. The organizers were Eliza Calder, Hugo Delgado, Jan Lindsay, and José Luis Palma. Day 1 was hosted in Spanish in order to increase participation by reaching the users of hazard maps in Latin America.



Figure 1:

José Luis Palma, President during the period 2015-16, presenting a report on the activities in the past two years. Photo by Mariana Patricia Jácome Paz.

The third event sponsored by ALVO was the 1st Meeting of Young Latin American Volcanologists, which took place on November 22 and is the topic of a separate report in this newsletter.



Figure 2:

Lizzette A. Rodríguez, President for the period 2017-18, discusses some of the plans for the next two years. Photo by Mariana Patricia Jácome Paz

The fourth event organized and led by ALVO was the bi-annual General Assembly, which took place on

November 24, with the participation of many of our members, as well as the President (Donald Dingwell) and Secretary General (Roberto Sulpizio) of IAVCEI. The General Assembly was conducted by Hugo Delgado (master of ceremonies and Regional Advisor for North America 2015-16), José Luis Palma (President 2015-16), and Lizzette A. Rodríguez (Vice-President 2015-16). Seven members of the Executive Board were present, including the three mentioned above and Gustavo Córdoba (Legal Representative), José G. Viramonte (President Ex-officio), Mariano Agusto (Regional Advisor for Southern South America), and Jersy Mariño (Treasurer). As part of the event the 2015-16 President, José Luis Palma, gave a report on the ALVO activities, which included:

- First Meeting of Latin American Volcanological Observatories – October 2015, Arequipa, Perú
- Internet-based General Volcanology Course – organized by Hugo Delgado-Granados, from the Universidad Nacional Autónoma de México (UNAM). This annual course is already on its 7th edition.
- Internet-based Course on Remote Sensing Applied to Volcanology – organized by Hugo Delgado-Granados, from the Universidad Nacional Autónoma de México (UNAM). The course started in 2016.
- International Field Course of Volcanology of the Central Andes – organized by José G. Viramonte of the Instituto Geonorte, Universidad Nacional de Salta. The course is on its 23rd year.
- Publication of the first edition of the Gaceta ALVO Newsletter on November 2016 (Available at: https://drive.google.com/open?id=0BzGi_8AiKzyKTUxjYkI0T2wtd3M)

The report was followed by the introduction of the new Executive Board, which was elected during the month of October 2016, and will be leading the association during the period 2017-18. The members of the Executive Board are:

- President: Lizzette A. Rodríguez
- Vice-President: Mariano Agusto
- Regional Advisor for North America: Mariana Patricia Jácome Paz
- Regional Advisor for Central America and the Caribbean: Walter Hernández
- Regional Advisor for Northern South America: Patricio Ramón

- Regional Advisor for Southern South America: Felipe Aguilera
- Student Representative: Pablo Forte
- Treasurer: Gustavo Córdoba
- Secretary General: Emilce Bustos
- President Ex-Officio: José Luis Palma



*Figure 3:
John Pallister thanking ALVO for the recognition as Honorary Member. Photo by Mariana Patricia Jácome Paz*

The new President, Lizzette A. Rodríguez, proceeded to discuss some of the plans for the 2017-18 period, which included:

- Development of the *Red de Apoyo de Instituciones de Monitoreo Volcánico* (Network of Institutions of Volcano Monitoring), with the objectives of improving collaborations and exchanging personnel among the institutions, among others.
- Organization of the Second Meeting of Latin American Volcano Observatories.
- Organization of an ALVO annual symposium
- Continuation of the publication of the Gaceta ALVO

- Development of a database of academic institutions or agencies that provide degrees or courses of volcanology in Latin America.
- Continuation of the support of the activities (e.g., courses) that take place every year.

As part of the General Assembly, ALVO incorporated new honorary members to the association. ALVO's honorary members include Michael J. Carr, Thomas J. Casadevall, Servando de la Cruz Reyna, Ramón Ortiz Ramis, William I. Rose, Michael F. Sheridan, Robert I. Tilling, and Minard L. Hall. The new honorary members are Setsuya Nakada, John Pallister, Franco Tassi, and Randy White. Honorary members are people of high and recognized prestige in the field of Volcanology, who because of their scientific merit and the prevention of volcanic disasters, especially related to Latin America, are nominated by the executive committee.



*Figure 4:
Donald Dingwell talking to the participants about the important role of ALVO in the future of IAVCEI. Photo by Mariana Patricia Jácome Paz.*

The last part of the Assembly was a general discussion

of several topics important to the future of the association. The first of these was related to the establishment of a membership fee. ALVO is interested in increasing the financial sources mainly to organize more events and to help our members to participate in conferences, workshops, and other activities. After the discussion it was concluded that a survey will be created in which the members of ALVO will give their opinion about a possible membership fee and how ALVO should manage it. It was also requested from the participants of the assembly to identify possible private donors (companies, agencies, institutions) in their countries, who might be interested in helping the association.



*Figure 5:
Participants of the ALVO General Assembly, at the conclusion of the event.*

The assembly concluded with comments from one of our honorary members, John Pallister (USGS-VDAP), and Donald Dingwell, President of IAVCEI. John Pallister reiterated that USGS-VDAP will continue to support the ALVO activities and to help Latin American volcanologists attend different events (e.g., workshops, training opportunities, meetings). Donald Dingwell congratulated ALVO on the work conducted since its foundation and pointed out that ALVO plays an important role in the future of IAVCEI.

Anyone interested in becoming a member of ALVO, of learning more about the association, or of supporting the association in any way, please contact us at

alvo.comunicaciones@gmail.com.

REPORT ON 1ST MEETING OF YOUNG LATIN AMERICAN VOLCANOLOGISTS (ALVO), CITIES ON VOLCANOES 9, CHILE

The development and evolution of volcanology in Latin America is marked by a common regional scenario, with countries sharing borders, socio-cultural characteristics and similar scientific challenges. Since its creation in 2010, the Asociación Latinoamericana de Volcanología (ALVO) has been promoting regional cooperation, the exchange of experiences and the strengthening of local capacities. Considering this enthusiastic and challenging context, the role of young is of fundamental importance for the continuity and consolidation of this joint effort adapted to the local conditions.

With this base, and taking advantage of the unique opportunity of hosting a well-attended international volcanological conference, Cities on Volcanoes (COV), in our continent, we organized the 1st meeting of Young Latin American Volcanologists.

The objective of the meeting was to provide a forum for us, young scientists, to interact and to allow us to get to know each other and present our areas of work, as well as foster debate about our role in the development of the discipline, strengthen cooperation nets and share information relevant to our space of participation.

Overcoming the tired brains after a satisfactorily long day full of great talks and fruitful poster discussion sessions, around one hundred undergraduate and graduate volcanology students and young professionals working at volcanological observatories, scientific-technical institutions and other volcanological organizations in Latin America attended the encounter.



Expectant audience to the kickoff of the meeting

The meeting was divided into two blocks. During the first, short presentations by work teams took place. In total, eleven groups of young volcanologists from seven countries (Mexico, Puerto Rico, Colombia, Ecuador, Peru, Chile and Argentina) participated. Presentations were necessarily short, but there was enough time for them to introduce the team members and their fields of interest and research as well as to highlight the existing problems they

face. The abstracts of the presentations are available at: <https://drive.google.com/file/d/0B2q6dxLsyCmNWmlEclRqbGwzY0U/view?usp=sharing>



Cherry Mar Reyes Alvarez introducing the volcanology group from the University of Puerto Rico.

The second part of the meeting consisted of a round-table debate to which a panel of invited experts from the region, in addition to the attendees, brought their experiences and knowledge. During the discussion, several relevant points were broached, most of them related to the opportunities to strengthen the academic formation and capabilities of the upcoming generation of volcanologists of our continent. In particular, we discussed the academic offerings for specialized training in the region, the role of the volcanological observatories in Latin America and the job opportunities in observatories and geological services.



A group of experienced Latin American volcanologists was invited to the debate: Lizzette Rodríguez (Puerto Rico), Álvaro Amigo (Chile), Mariano Agusto (Argentina) and Pablo Samaniego (Ecuador).

This first meeting has left us not only with many new relationships, but also an important message. The massive concurrence and the active participation during the meeting reflect the willingness of the new generation of volcanologists to continue contributing to the development of this young discipline

in Latin America.

Finally, we would like to thank all the people that participated in the meeting as well as the COV organizing committee.

Un abrazo

Organizers of the meeting

(*Pablo Forte, Mariana Patricia Jácome Paz, Ivonne Lazarte Zerpa, Emilce Bustos, Rayen Gho and Alejandra Gaviria*).

Jóvenes volcanólogos de Latinoamérica

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INVITATION – 4TH INTERNATIONAL VOLCANIC GEOLOGY WORKSHOP

Eastern Transylvania, Romania, October 8-14, 2017

Dear Members of the IAVCEI Commission on Volcano Geology,

we invite you to attend the 4th international Volcano Geology workshop to be held in Eastern Transylvania, Romania, October 8-14, 2017, organized by the Institute of Geodynamics, Romanian Academy, Bucharest, under the auspices of the IAVCEI Commission on Volcano Geology.

The main target of our Workshop is to cope with the challenge of mapping in poorly-exposed volcanic areas, to discuss, illustrate and make progress of mapping approaches and methodology. Too, our workshop intends to shift the volcano mapping topic's target area from active/recent volcanoes to older extinct volcanoes, e.g., of Miocene to Pleistocene age in our case.

Workshop format

Following the 3rd Volcano Geology Workshop as a successful model, we propose our workshop to be a fieldtrip-based one. It will include one day of presentations and 5 days of field-trip activities.

Participants

According to the IAVCEI rules, only registered IAVCEI members with currently paid member fees are accepted to the Workshop.

For logistical reasons, the number of participants to this workshop is limited to 50. Therefore, please notice your intention to participate as early as possible.

Early Registration deadline is May 31, 2017.

For all details related to Registration (fees and modalities), daily workshop program, Abstract submission, venue and logistic information) please visit the official Workshop Website at

<http://www.geodin.ro/4th-international-volcano-geology-workshop/>

and/or contact one of the Organizers for any other workshop-related inquiries or questions:

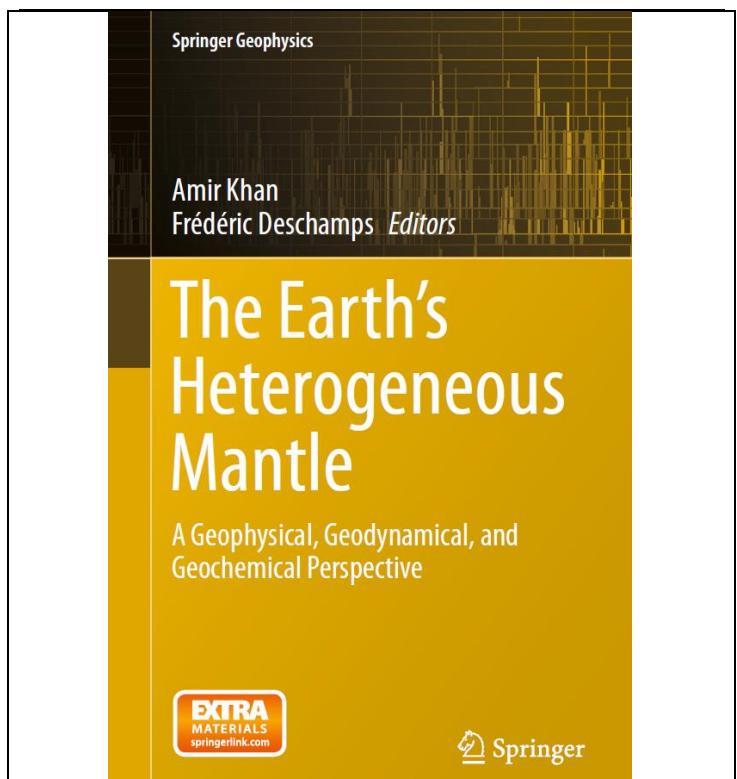
Dr.Ioan Seghedi – seghedi@geodin.ro

Dr. Alexandru Szakacs – szakacs@sapientia.ro

Madalina Cirstea - danamadalina@yahoo.com

NEW BOOKS

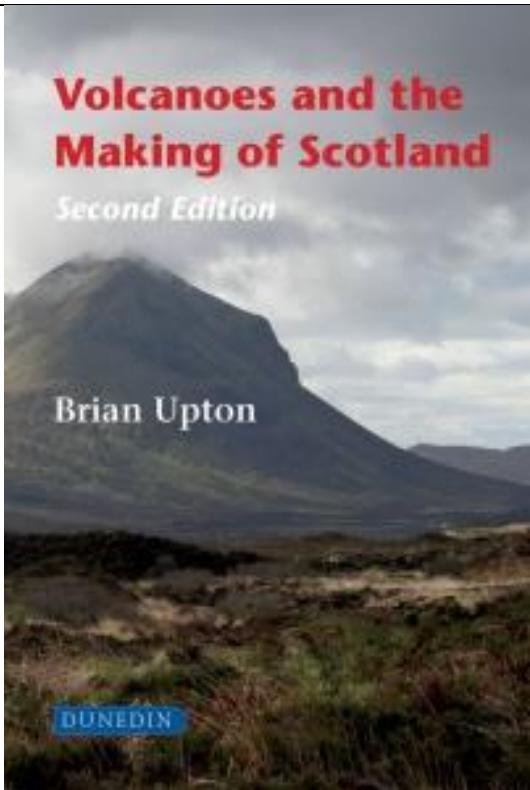
In the future IAVCEI News will publish links and basic information on recently published books the volcanic community may interested. Please sent a link and info of any relevant books you aware of even if it was published other than English language. Also, if you wish to submit a book review article to the Bulletin of Volcanology, please do so, as such articles are very important feed backs to Authors and Publishers.



This book highlights and discusses recent developments that have contributed to an improved understanding of observed mantle heterogeneities and their relation to the thermo-chemical state of Earth's mantle, which ultimately holds the key to unlocking the secrets of the evolution of our planet. This series of topical reviews and original contributions address 4 themes. Theme 1 covers topics in geophysics, including global and regional seismic tomography, electrical conductivity and seismic imaging of mantle discontinuities and heterogeneities in the upper mantle, transition zone and lower mantle. Theme 2 addresses geochemical views of the mantle including lithospheric evolution from analysis of mantle xenoliths, composition of the deep Earth and the effect of water on subduction-zone processes. Theme 3 discusses geodynamical perspectives on the global thermo-chemical structure of the deep mantle. Theme 4 covers application of mineral physics data and phase equilibrium computations to infer the regional-scale thermo-chemical structure of the mantle.

You can access the book via

<http://www.springer.com/gp/book/9783319156262>



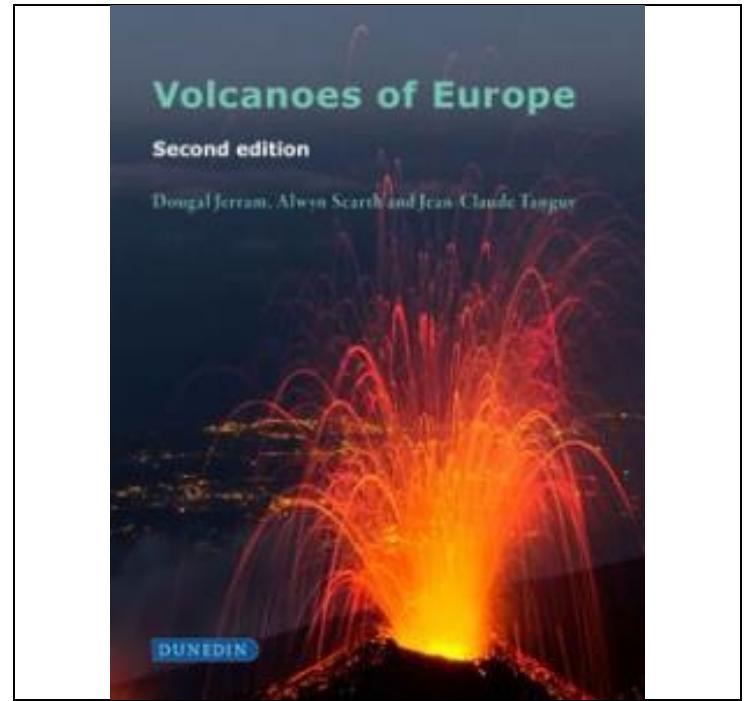
Scotland's mountains and glens retain the secrets of the long and frequently violent geological history that has gone into their making. Volcanoes have played a major role in the creation of Scotland and while the youngest, a mere sixty million years old, were responsible for much of the scenic splendour of the Inner Hebrides, the rocks composing many of the famous Scottish landforms as, for example, those of Glencoe and the Edinburgh district are also the direct result of volcanism.

Volcanoes and the Making of Scotland explores back in time from the most recent examples to volcanoes of the obscure Precambrian times which left their signature in the ancient rocks of the far north-west. Geographically the book ranges across all of Scotland from Shetland to the Borders. Reflecting current research into Scotland's geology, the author also speculates as to the climate, geography and ecology of the long-gone landscapes in which the volcanoes of differing ages were created and destroyed.

The book is extensively illustrated with maps, sketches, cross-sections and photographs and relates what can currently be seen in the worn-down remains of Scotland's old volcanoes to active analogues around the world. This book vividly brings life and meaning to what the layman would otherwise regard as cold and incomprehensible rocks.

You can access the book via

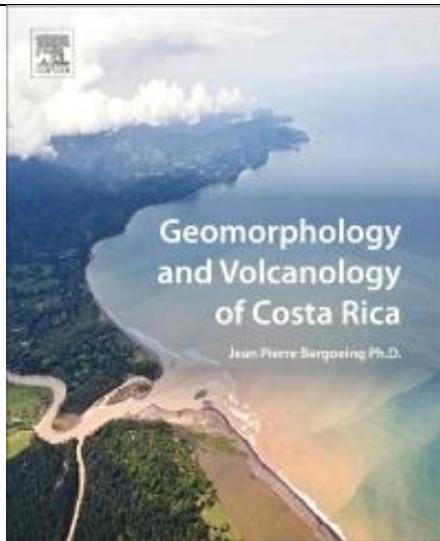
<http://www.dunedinacademicpress.co.uk/page/detail/Volcanoes-and-the-Making-of-Scotland/?k=9781780460567>



Volcanoes are intimately tied to the history of humanity, they help forge the Earth's crust and atmosphere, and they are very much an active feature of today. The archaeology of most ancient civilizations of Europe preserves the imprint of spectacular and volcanic phenomena while, in modern times life is still affected by large eruptions from Europe's active volcanic systems. The eruption of Santorini, some 3600 years ago in the Aegean, probably inspired the Greek fables of Atlantis; the eruptions of Etna on Sicily are the origin of the forges of Cyclops and other myths; and the regular eruptions from Stromboli earned its Roman name, 'the Lighthouse of the Mediterranean'. Eruptions in Iceland over the past few centuries have shaped more recent European history and highlight the dramatic effects that distant large eruptions can have on our modern way of living. This thoroughly revised and updated edition reflects modern research and is now illustrated in colour throughout. It presents the volcanoes of Europe, as they are today and tells how they have shaped our past. The volcanic systems of the Mediterranean basin, the Atlantic, and of mainland Europe are introduced and described in clear prose with a minimum of technical jargon. Some of Europe's ancient volcanic systems is also described as these have been fundamental in shaping the science of volcanology. The origins, history and development of Europe's volcanoes is presented against a background of their environmental aspects and contemporary activity. Special attention is given to the impact of volcanoes on the people who live on or around them. The book is written for student, amateur and professional earth scientists alike. To help guide the reader, a glossary of volcanic terms is included together with a vocabulary of volcanic terms used in European languages.

You can access the book via

<http://www.dunedinacademicpress.co.uk/page/detail/Volcanoes-of-Europe/?K=9781780460420>



Geomorphology and Volcanology of Costa Rica is the product of more than 30 years of research explaining the evolution of the quaternary relief of a geomorphologically diverse country. The book details the physical landscape of Costa Rica, with an emphasis on potential threats to the landscape, such as earthquakes, landslides, floods, and sea level rise.

The book answers questions on the climate changes associated with the intense volcanism that affects this country. Geomorphologists, geologists, geographers, and students who specialize in the Earth Sciences will benefit from knowing the geomorphology of Costa Rica, not only as a case study, but also for the lessons it offers on climate change and worldwide geological history.

You can access the book via

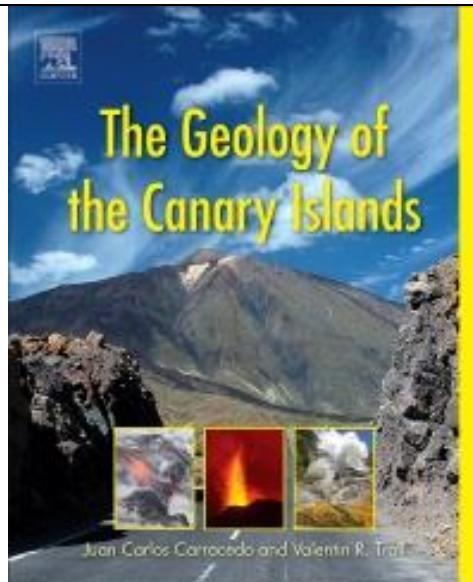
https://www.elsevier.com/books/geomorphology-and-volcanology-of-costa-rica/bergoeing/978-0-12-812067-5?start_rank=41&producttype=books&publicationyear=2017&publicationyear=2016&sortby=sortByDateDesc&cat0=earth-and-planetary-sciences

studies and developments. This new edition expands on the historical aspects, including updated information on how volcanic seismology was handled in the past (instrumentation, processing techniques, number of observatories worldwide) that is compared to present day tactics. Updated case studies can be found throughout the book, providing information from the most studied volcanoes in the world, including those in Iceland.

Additional features include descriptions of analog experiments, seismic networks, both permanent and temporal, and the link between volcanoes, plate tectonics, and mantle plumes. Beginning with an introduction to the history of volcanic seismology, the book then discusses models developed for the study of the origin of volcanic earthquakes of both a volcano-tectonic and eruption nature.

You can access the book via

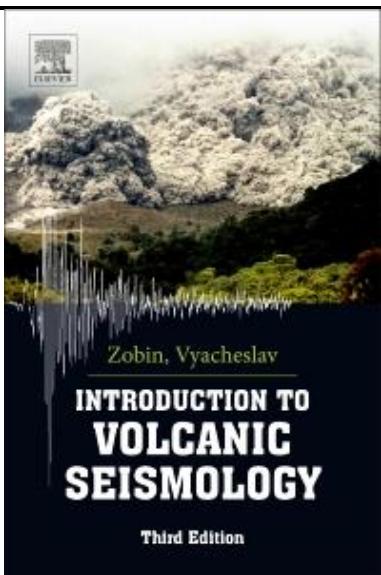
https://www.elsevier.com/books/introduction-to-volcanic-seismology/zobin/978-0-444-63631-7?start_rank=61&producttype=books&publicationyear=2017&publicationyear=2016&sortby=sortByDateDesc&cat0=earth-and-planetary-sciences



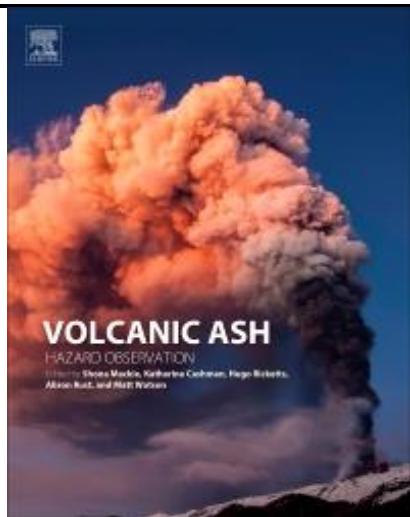
The Geology of the Canary Islands provides a concise overview of the geology and volcanology of the Canary Islands, along with 27 carefully planned day excursions comprising trips on all of the islands. Each stop includes a description on how to approach a site and where to park with GPS locations provided. The book covers all the spectacular features of the islands, including active ocean island volcanoes whose origins are linked to a hot spot or plume causing anomalously hot mantle material to intrude the African plate, submarine volcanic sequences uplifted inside the islands, sub-aerial shield volcanoes, and the remains of giant lateral collapses. Through its clearly written and richly color-illustrated introduction and field guide, this book is essential reading for geologists who visit the Canary Islands, one of the largest and most fascinating active volcanic systems in Europe.

You can access the book via

https://www.elsevier.com/books/the-geology-of-the-canary-islands/troll/978-0-12-809663-5?start_rank=81&producttype=books&publicationyear=2017&publicationyear=2016&sortby=sortByDateDesc&cat0=earth-and-planetary-sciences



Introduction to Volcanic Seismology, Third Edition covers all aspects of volcano seismology, specifically focusing on recent



Volcanic Ash: Hazard Observation presents an introduction followed by four sections, each on a separate topic and each containing chapters from an internationally renowned pool of authors. The introduction provides a volcanological context for ash generation that sets the stage for the development and interpretation of techniques presented in subsequent sections.

The book begins with an examination of the methods to characterize ash deposits on the ground, as ash deposits on the ground have generally experienced some atmospheric transport. This section will also cover basic information on ash morphology, density, and refractive index, all parameters required to understand and analyze assumptions made for both in situ measurements and remote sensing ash inversion techniques. Sections two, three, and four focus on methods for observing volcanic ash in the atmosphere using ground-based, airborne, and spaceborne instruments respectively.

Throughout the book, the editors showcase not only the interdisciplinary nature of the volcanic ash problem, but also the challenges and rewards of interdisciplinary endeavors. Additionally, by bringing together a broad perspective on volcanic ash studies, the book not only ties together ground-, air-, academic, and applied approaches to the volcanic ash problem, but also engages with other scientific communities interested in particulate transport..

You can access the book via

https://www.elsevier.com/books/volcanic-ash/mackie/978-0-08-100405-0?start_rank=81&producttype=books&publicationyear=2017&publicationyear=2016&sortby=sortByDateDesc&cat0=earth-and-planetary-sciences

Crust–Mantle Interactions and Granitoid Diversification

Insights from Archaean Cratons

Edited by
J. Halla, M. J. Whitehouse, T. Ahmad and Z. Bagai



Geological Society
Special Publication 449



Geological Society, London, Special Publications
Vol. 449, 2017

Crust–Mantle Interactions and Granitoid Diversification: Insights from Archaean Cratons

Edited by:

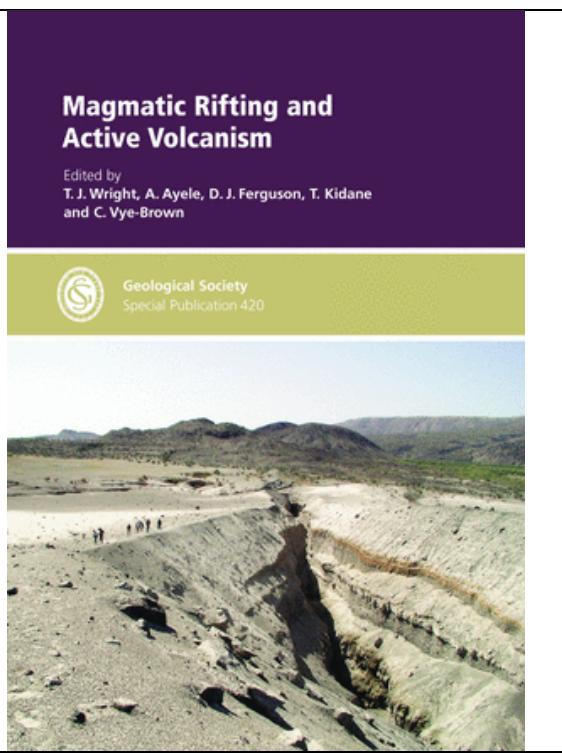
J. Halla, University of Helsinki, Finland
M. J. Whitehouse, Swedish Museum of Natural History, Sweden
T. Ahmad, Jamia Millia Islamia, India and
Z. Bagai, University of Botswana, Botswana

You can access the book via

<http://sp.lyellcollection.org/content/current>

Download Introduction Chapter:

<http://sp.lyellcollection.org/content/449/1/1.full.pdf+html>



Geological Society, London, Special Publications
Vol. 420, 2016

Magmatic Rifting and Active Volcanism

Edited by:

T. J. Wright, University of Leeds, UK

A. Ayele, Addis Ababa University, Ethiopia

D. J. Ferguson, University of Leeds, UK

T. Kidane, Addis Ababa University, Ethiopia and

C. Vye-Brown, British Geological Survey, UK

You can access the book via

<http://sp.lyellcollection.org/content/420/1>

Download Introduction Chapter:

<http://sp.lyellcollection.org/content/420/1/1.full.pdf+html>

IAVCEI COMMISSION NEWS

In the future the IAVCEI News encourages publishing feature articles about IAVCEI Commission activities to facilitate information exchange across the volcanic community. If you have any news or interesting information to share that is relevant to any of IAVCEI's commissions, please consider preparing short news or longer feature articles and submit it to the IAVCEI News. Thank you!

IAVCEI COMMISSION ON STATISTICS IN VOLCANOLOGY (COSIV)

Please find the March Newsletter from the Commission on Statistics in Volcanology (COSIV) here:

http://www.massey.ac.nz/~mbebbing/COSIV/COSIV_newsletter_MARCH_2017.pdf

In the news letter you will see what COSIV has been working on. Specifically:

- 1) Recently published in Statistics in Volcanology
- 2) COSIV at IAVCEI 2017 (sessions, workshops and meetings)
- 3) Research Highlight: A new tool for Tephra Hazard Assessment
- 4) A new working group on Volcanic record completeness

All the best,

Patrick Whelley
COSIV Leader

P.S. If you would like to be added to the COSIV email list and keep up to date on our goings on, please email me (patrick.l.whelley@nasa.gov) or Mark (M.Bebbington@massey.ac.nz) to be added to our list

IAVCEI COMMISSION ON THE CHEMISTRY OF VOLCANIC GASES (CCVG)

Call for Abstract and Registration

13th Gas Workshop in Ecuador September 24th through Oct 3rd 2017

Please find information for the upcoming Commission on the Chemistry of Volcanic Gases (CCVG) 13th Gas Workshop to be held in Ecuador September 24th through Oct 3rd, with optional pre- and post-meeting field trips to Reventador Volcano (Sept 20-23) and the Galapagos Islands (Oct 4-9) in the second circular, which can be downloaded from:

http://www.iavcei-ccvg.org/wp-content/uploads/2015/11/CCVG_13th_Ecuador_Circ2.pdf

This workshop provides an excellent opportunity to learn and discuss the latest findings related to volcanic degassing, new measurement & analysis techniques, and interpretation of geochemical signatures of volcanic fluids with a relatively small group (typically <100 people) of international colleagues. The workshop includes field trips for remote plume measurements (Tungurahua & Cotopaxi), soil degassing measurements (Pululahua) and direct sampling of thermal springs and fumaroles (Tungurahua & Pichincha) along with the following scientific sessions:

1. New developments in direct, in situ, remote, and diffuse volcanic gas and aerosol sampling/measurement techniques, including but not limited to advancements related to measurement accuracy and precision, acquisition, automation and analysis
2. Geochemical observations and interpretations of volcanic and hydrothermal systems
3. The effect of volcanic plumes on atmospheric chemistry, natural hazards and environmental and human health
4. Modeling of volcanic degassing processes
5. Integrating volcanic gas observations with complementary datasets to elucidate volcanic processes

Graduate students and early career scientists are particularly encouraged to attend. Please find more details regarding the workshop schedule, upcoming deadlines, registration fees in the 2nd circular

(http://www.iavcei-ccvg.org/wp-content/uploads/2015/11/CCVG_13th_Ecuador_Circ2.pdf)

We hope you will be able to join us in Ecuador!

Sincerely,

The CCVG Board & Local Organizing Committee

Franco Tassi, Nicole Bobrowski, Maarten de Moor, Silvana Hidalgo, Patricio Ramon & Taryn Lopez

IAVCEI COMMISSION ON MONOGENETIC VOLCANISM (IAVCEI-CMV)

The commission is supporting a workshop on Basaltic Magmatism that is part of a workshop series and called BASALT 2017 in this year. This year the workshop will be organized by the Czech Geological Survey and held in Kadaň, Czech Republic, 18 – 22 September 2017.

Please visit the website and consider your presentation and attendance on this meeting supported by the IAVCEI CMV.

www.basalt2017.cz

FUTURE EVENTS for IAVCEI member's interest

Magmatism of the Earth and related strategic metal deposits

4 - 9 August 9, 2017

Institute of Mineralogy, Ural Branch of the Russian Academy of Sciences, Miass, Ilmen mountains, South Ural

Web: <http://magmas-and-metals.ru/>

IAVCEI Scientific Assembly - 2017

Date: 14-18 Agust, 2017

Venue: Portland, Oregon, USA

Contact: Martin Streck - streckm@pdx.edu

Web: <http://iavcei2017.org/>

BASALT - 2017

Date: 18 – 22 September 2017

Venue: Kadaň, Czech Republic (Organized by the Czech

Geological Society)

Contact: Vladislav Rapprich - vladislav.rapprich@geology.cz

Web: www.basalt2017.cz

IAVCEI Volcanic Geology Workshop - 2017

Date: 8-14 October, 2017

Venue: Eastern Transylvania, Romania

Contact:

Ioan Seghedi – e-mail: segheidi@geodin.ro, phone: +40-744-333862

Alexandru Szakács - e-mail: szakacs@sapientia.ro, szakacs@k.ro, phone: +40-741-534405

Madalina Cirstea - e-mail: danamadalina@yahoo.com

This conference is supported by the **IAVCEI Commission on Volcanic Geology and Monogenetic Volcanism**

7th International Maar Conference

Olot, Spain

21-25 May, 2018

The conference is supported by the **IAVCEI Commissions on Monogenetic Volcanism, Volcanic Lakes and Volcanogenic Sediments**

Contact: Joan Martí Molist joanmartimolist@gmail.com



Next Issue of the **IAVCEI News** will be published on **15th September 2017**. Articles, notes, news or any items relevant to the IAVCEI community must be submitted by **10th September 2017** to be published in the next Issue.

Editor-in-Chief

Károly Németh

Massey University, Palmerston North

Any correspondence, news items could be sent to:

k.nemeth@massey.ac.nz

vHub Coordinator: **Greg Valentine** (SUNY, Buffalo)

Any correspondence, news items could be sent to

gav4@buffalo.edu

IAVCEI Web-stie Coordinator (University of Bari)

Eugenio Nicotra – email: eugenio.nicotra@unict.it

If you have any idea or plan to have IAVCEI involved in the IUGG Outreach Programs please contact Karoly Nemeth via k.nemeth@massey.ac.nz