

***Tue, 20 Feb 2001***

***VGP Section Newsletter #3***

Here is the first VGP electronic newsletter of the New Year. There will be plenty of activity within VGP this year, so here are the latest announcements and updates to keep you abreast of events. As usual, if any VGP member has items for possible inclusion in future newsletters, please e-mail [fagents@asu.edu](mailto:fagents@asu.edu).

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**(1) VGP WEBSITE UPDATE**

Mark Ghiorso has passed on management of the VGP section website to Chris Nye (Alaska Division of Geological and Geophysical Surveys). The site now resides in Fairbanks on the server which also hosts IAVCEI, the Alaska Volcano Observatory, and the Alaska Earthquake Information Center. The new URL is <http://vgp.AGU.org>. This domain name is maintained by AGU and will follow the site during any future relocation.

Times of transition of websites are always good times for new initiatives and we invite broad comments on how this website can be most useful to the section. (Specific comments and edits are always welcome.) Current lists and contact information for officers and committees are clearly central, and have been recently updated. Current lists of honorees are also kept.

An idea for new content which emerged at fall AGU is an index of resources which are useful, but not part of the formal literature. These could include links to various online databases, computational tools, and other information sources. Clearly [earthref.org](http://earthref.org) and GERM have nailed down huge pieces of this task. Is there enough left to justify another site? If so please forward information about suggested content or links to [vgpweb@giseis.alaska.edu](mailto:vgpweb@giseis.alaska.edu). Some avenues for expansion include bibliographic, geographic, volcano seismic, and other graphical data.

Please let us know how we can make this website most useful to section members.

Chris Nye ([cnye@giseis.alaska.edu](mailto:cnye@giseis.alaska.edu))  
Web coordinator

**(2) NEW VGP EDITOR FOR EOS**

Paul Renne (Berkeley Geochronology Center and University of California, Berkeley) replaced Joop Varekamp as VGP editor for Eos effective on Feb. 1. He is grateful for Joop's ongoing help through the transition. Renne's term is three years. He reminds VGP members that Eos is intended to help readers keep informed about the latest topics in other fields, be of interest to a large proportion of AGU members (i.e., in other sections too), and be thought-provoking. Please consider submitting articles along these lines after consulting him about your contribution. General guidelines and submission

instructions are found at [http://www.agu.org/pubs/eos\\_inst.html](http://www.agu.org/pubs/eos_inst.html).

### **(3) SPRING AGU MEETING HIGHLIGHTS**

Planning for the Spring AGU Meeting in Boston, May 29 - June 2, 2001 is in full swing. All VGP members, please note the following deadlines, special events, and special sessions of interest.

*ABSTRACT DEADLINES:* The postal and express mail deadline for receipt of abstracts is MARCH 1. The deadline for receipt of abstracts by electronic means is MARCH 8 at 1400 UTC: (1400 UTC is 9:00 a.m. in Washington, 7:00 a.m. in Arizona, 6:00 a.m. in San Francisco).; Check the AGU Web Site at <http://www.agu.org> and the January 23 edition of Eos.

*MEETING HIGHLIGHTS AND SPECIAL EVENTS FOR VGP:* The R.A. Daly Lecture will be given by B J Wood, Bristol University, on Wednesday, May 30. The title is "Crystal-Melt Partitioning: Recent Theoretical and Experimental Advances". The time will be late afternoon and the lecture will be followed immediately by a joint Volcanology/Geochemistry/Petrology - Planetary Sciences reception.

*SPECIAL SESSIONS:* The following is a list of Special Sessions that VGP is sponsoring or cosponsoring at the Spring Meeting. If you are interested in contributing to one of these Special Sessions, please contact the convener listed for the session soon. See [http://www.agu.org/meetings/sm01\\_spss.html#Volcanology](http://www.agu.org/meetings/sm01_spss.html#Volcanology) for further details and full contact information for conveners.

V01 - Continental Weathering and Ocean Chemistry (Joint With GS, H, OS).

Conveners: Robyn E. Hannigan, Arkansas State University, [hannigan@navajo.astate.edu](mailto:hannigan@navajo.astate.edu); Asish R. Basu, University of Rochester, [abasu@earth.rochester.edu](mailto:abasu@earth.rochester.edu);

V02 - New Views of Mars Volcanism: Extrusive, Explosive, and Possible Influences of H<sub>2</sub>O (Joint With P).

Conveners: Susan Sakimoto, NASA/GSFC, [sakimoto@denali.gsfc.nasa.gov](mailto:sakimoto@denali.gsfc.nasa.gov); Tracy Gregg, University at Buffalo, [Tgregg@nsm.buffalo.edu](mailto:Tgregg@nsm.buffalo.edu); Lori Glaze, Proxemy Research, [lori@proxemy.com](mailto:lori@proxemy.com);

V03 - Advances in Subsurface Sampling and Borehole Measurement.

Conveners: Donald Thomas, University of Hawaii, [dthomas@soest.hawaii.edu](mailto:dthomas@soest.hawaii.edu); Allan R. Sattler, Sandia National Laboratories, Tel: +1-505-844-1019; David Goldberg, Columbia University, Tel: +1-845-365-8674 ext. 674;

V04 - Petrological and Geochemical Constraints of the Formation of Archean Cratons (Joint With GS, MSA, T).

Conveners: Timothy L. Grove, MIT, [tlgrove@mit.edu](mailto:tlgrove@mit.edu); Steven B. Shirey, Carnegie Institution of Washington, [shirey@dtm.ciw.edu](mailto:shirey@dtm.ciw.edu);

V05 - The Construction of Archean Cratons: Reconciling GS, T).

Conveners: Samuel A. Bowring, MIT, [sbowring@mit.edu](mailto:sbowring@mit.edu); Desmond E. Moser, University of Utah, [demoser@mines.utah.edu](mailto:demoser@mines.utah.edu);

VGP will cosponsor the following Special Sessions:

GP06 - Banded Iron Formation, its Chemical and Physical Properties and Relation to the Origin of Life (Joint With B, GS, M, MRP, P, V)

Conveners G. Kletetschka, GSFC/NASA, [gunther@denali.gsfc.nasa.gov](mailto:gunther@denali.gsfc.nasa.gov); J. William Schopf, UCLA; S. Moorbath, Oxford, United Kingdom;

GS01 - Magmatic Volatile Histories: Stable Isotopic Tracing of Sources and Degassing Processes in

Magmatic Systems and Implications for Volcanology and Earth System Science (Joint With M, T).  
Conveners: Bruce E. Taylor, Geological Survey of Canada, btaylor@nrcan.gc.ca; Charlie Mandeville, American Museum of Natural History, cmandy@amnh.org;

GS02 - Light Stable Isotope Ratio Standards Metrology: Recent Advances and Needs Assessment (Joint With V).

Conveners: Donna B. Klinedinst, National Institute of Standards and Technology, donna.klinedinst@nist.gov;

M01 - Elastic Properties of Materials at High Pressure and Temperature (Joint With MRP, SEDI, T, V)  
Conveners Baosheng Li, SUNY at Stony Brook, Baosheng.Li@sunysb.edu;

M02 - Characterizing Organic and Inorganic Hydrothermal Systems (Joint With GS, V).  
Conveners: Anurag Sharma, Carnegie Institution of Washington, sharma@gl.ciw.edu; Przemyslaw Dera, Carnegie Institution of Washington, pdera@gl.ciw.edu;

Sediments (Joint With GS, V).

Conveners: Alexander van Geen, Columbia University, avangeen@ldeo.columbia.edu; Larry C. Peterson, University of Miami, peterson@rsmas.miami.edu;

P02 - New Views of the Moon (Joint With GS, P, V)

Conveners: Brad Joliff, Washington University, blj@levee.wustl.edu; Carle Pieters, Brown University, Carle\_Pieters@brown.edu;

S04 - How Rifting Worked in Northeastern North America (Joint With GS, T, V).

Conveners: Vadim Levin, Yale University, vadim@geology.yale.edu; Bill Menke, Columbia University, menke@ldeo.columbia.edu; Paul Olsen, Columbia University, polsen@ldeo.columbia.edu;

S06 - The Structure and Early Evolution of Cratons (Joint With GS, T, V).

Conveners: Paul Silver, Carnegie Institution of Washington, silver@dtm.ciw.edu; Rob van der Hilst, hilst@mit.edu;

Steve Shirey

Spring Meeting Committee

#### **(4) 2001 AGU FELLOWS SPONSORED BY VGP**

Congratulations to the following VGP members who were elected AGU Fellows this year.

*Reinhard Boehler*, Max-Planck Institut für Chemie, Mainz, GERMANY

*Henry Elderfield*, University of Cambridge, Cambridge, ENGLAND

*Ross W. Griffiths*, Australian National University, Canberra, AUSTRALIA (joint nomination T and VGP)

*Timothy L. Grove*, Massachusetts Institute of Technology, Cambridge, Massachusetts USA

*William M. White*, Cornell University, Ithaca, New York USA

*Bernard J. Wood*, University of Bristol, Bristol, ENGLAND

#### **(5) FALL MEETING BEST STUDENT PAPER AWARDS**

Congratulations are due to the following VGP members for winning the best student paper awards at the Fall 2000 AGU meeting.

*Stephanie G. Prejean*, Stanford University.

Earthquake Relocations and Stress Inversions in the Long Valley Caldera, California

*John D. Rogie*, Pennsylvania State University.

Measurement and Analysis of Diffuse Degassing of Magmatic CO<sub>2</sub> at Mammoth Mountain, California  
1997-2000

*Constanza Bonadonna*, University of Bristol.

The 17 June 1996 Fall Deposit from Ruapehu Volcano, NZ: Grainsize and Volume Considerations and Modeling of Sedimentation from the Eruption Plume.

*Alan Koenig*, Colorado State University

Inclusions and Chemical Heterogeneities in Garnet: Problems Pitfalls and Potential for Sm-Nd Geochronology

Roger Nielsen

Education/Outreach Committee Chair

#### **(6) G-CUBED ALERT SERVICE**

G-cubed, the electronic journal of Geochemistry, Geophysics and Geosystems has an alert system, to which interested readers may subscribe. The service automatically sends out an e-mail notification every time a G-cubed paper comes out. Visit <http://g-cubed.org> and click on Subscriptions-Alerts for details.

Hubert Staudigel

Publications Committee Chair

#### **(7) ANNOUNCEMENT OF MOLECULAR MODELING SHORT COURSE**

The Geochemical Society and the Mineralogical Society of America are sponsoring a short course in molecular modeling before the May 2001 Goldschmidt Conference. The short course will be held at the Roanoke Hotel and Conference Center in Roanoke, Virginia, USA. The short course begins with a welcoming party on Friday evening, May 18, 2001, and continues through the morning of Sunday, May 20. Complete information for this course can be found by visiting the short course website (<http://www.sandia.gov/eeselector/GScourse.htm>) or by sending a request for information to Dr. Randall Cygan ([rtcyan@sandia.gov](mailto:rtcyan@sandia.gov)).

#### **(8) CHAPMAN CONFERENCE ANNOUNCEMENT**

##### **CALL FOR EXPRESSIONS OF INTEREST**

"Explosive Subaqueous Volcanism" January 2002, Dunedin, New Zealand (dates not yet fixed: 5 days including mid-meeting field trip)

Conveners:

J.D.L. White

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Programme Committee (with approximate session focus):

K.V. Cashman (University of Oregon): Models of submarine magmatic eruptions.

K. Wohletz (Los Alamos Nat'l Lab): Models of submarine phreatomagmatism.

J. Smellie (British Antarctic Survey): Subglacial eruptions and deposits

I. Skilling (Southern Mississippi): Poster session.

D. Clague (Monterey Bay Aquarium): Modern seafloor hyaloclastite deposits.

K. Kano (Geological Survey of Japan): Young submarine pyroclastic deposits.

R. Cas (Monash Univ., Australia): Ancient submarine pyroclastic deposits.

W. Mueller (U. Quebec - Chicoutimi): Archean submarine pyroclastic deposits.

The purpose of this Chapman Conference is to bring together volcanologists, geophysicists and marine geoscientists with interests in the formation of clastic volcanogenic successions on the modern seafloor and in ancient successions, and in the processes and significance of explosive subaqueous eruptions in seafloor settings. Formation of subaqueous pyroclastic deposits is an important topic that has received little mainstream volcanological attention. It is scarcely addressed in volcanological texts yet, because of the preservation bias in favor of sub-wavebase marine deposits in the geological record, it is likely that deposits of subaqueous explosive eruptions exceed in volume and economic significance those of subaerial ones. The aim of the conference is to foster better communication among these groups of scientists, and to provide an opportunity for recent research results to be presented in a forum in which there is scope to develop new perspectives and directions for future collaborative research by interested scientists from a range of backgrounds. The role of explosivity in subaqueous eruptions, particularly in the sea and at large scales, is a topic of both high interest and acknowledged disagreement. A better understanding of the abundance, size and style of subaqueous, particularly submarine, eruptions has practical implications, both for minerals exploration and for our understanding of hazardous natural processes.

Dr. Richard S. Fiske will give the conference Keynote Address. The goal of his keynote address will be to outline the body of evidence for the nature of large magnitude subaqueous explosive eruptions, to highlight important open questions, and to provide an update of his most recent work on the submarine caldera of Miyoke-jima.

The Conference will include four and a half days of presentations and discussions with a mid-meeting field trip devoted to examining seacliff exposures of early Cenozoic subaqueous surtseyan deposits. The first day will focus on discussions of physical controls of subaqueous explosivity, and on lessons learned from studies of observed shoaling eruptions. The second day will examine evidence from marine studies of the deposits of subaqueous eruptions, and from studies of recently uplifted onland equivalents. The third day will open with short formal introductions to posters by poster authors, then continue with a fieldtrip. Day four of the conference will address ancient deposits and mineralization. The last day will focus on integration and synthesis by considering both the consistencies and incongruities among information from modern, ancient, analytical and experimental studies. Posters will be installed the first day and remain available for viewing in an area adjoining the meeting area throughout the conference.