

NOTA DE ABERTURA

Este 3.º número da Série Ciências da Natureza foi exclusivamente destinado aos «Proceedings» do Simpósio sobre a Actividade de Vulcões Oceânicos que se realizou nos Açores em Agosto de 1980.

As sessões realizaram-se nas instalações da Universidade dos Açores, em Ponta Delgada e essa publicação é mais uma colaboração que a Universidade dos Açores dá ao referido Simpósio.

J. Ávila Martins
Vasco Garcia

PROCEEDINGS OF THE SYMPOSIUM
ON THE ACTIVITY
OF OCEANIC VOLCANOES

(sponsored by the *International Association of Volca-
nology and Chemistry of the Earth's Interior*, in
collaboration with the *Azores University*)

Editors :

H.-U. SCHMINCKE
P. E. BAKER
and
V. H. FORJAZ

PREFACE

This Symposium was held at the Azores University, in Ponta Delgada, from 4 to 9 August, 1980.

At first, the expected contributions were to be divided in 4 sections :

- 1. Submarine rift eruptions and oceanic island activity ;*
- 2. Petrology and geochemistry of oceanic volcanoes ;*
- 3. Implications of crustal spreading on oceanic volcanoes ;*
- 4. Geothermal power development in oceanic areas.*

Owing to the small number of papers received for Section 3, this section was, afterwards, merged into Section 1.

After the Symposium, there were 3 field trips in the Islands of San Miguel, Terceira, and Fayal and Pico.

The chairman of the Opening Session was His Excellency the Regional Secretary of Commerce and Industry. At this session Dr. Wilfred B. Bryan, from Woods Hole Oceanographic Institution, showed a valuable collection of colour slides from the recent dramatic eruption of Mount St. Helens. Later on, an equally important collection of slides from the same eruption

was shown by Dr. Richard V. Fisher, from the University of California.

The Organizing Committee thanks the Azores University for publishing these Proceedings in their journal « Arquipelago ».

F. MACHADO
I.A.V.C.E.I. Delegate,
Chairman of the Organizing Committee

INTERNATIONAL SYMPOSIUM
ON THE ACTIVITY
OF OCEANIC VOLCANOES

PONTA DELGADA, AZORES, 4-9 AUGUST 1980

ORGANIZING COMMITTEE

Chairman: F. MACHADO (Professor of Geophysics, Azores University;
IAVCEI Delegate)

Members: L. ROCHA (Director, Cultural Affairs, Azores University)
M. COELHO DA SILVA (Director, Social Affairs, Azores
University)
J. G. CAMPOS FERNANDES (Assistant Professor of Geogra-
phy, Azores University)
L. BRITO E MELO (Geologist; Delegate, Regional Secretary
for Education and Culture)
R. MADRUGA DA COSTA (Tourism Officer; Delegate, Regio-
nal Secretary for Transport and Tourism)
H. CORREIA (Director, Geothermal Laboratory; Delegate,
Regional Secretary for Commerce and Industry)

SCIENTIFIC PROGRAMME

Contributions to the Symposium were arranged in three sections :

1. (and 3.) Submarine rift eruptions and oceanic island activity.
Convenor : — Professor H. U. Schmincke, University of Bo-
chum, W. Germany.

ARQUIPÉLAGO — CIÊNCIAS DA NATUREZA

2. Petrology and geochemistry of oceanic volcanoes.
Convenor : — Professor P. E. Baker, University of Nottingham, U. K.
4. Geothermal power development in oceanic areas.
Convenor: — Dr. V. H. Forjaz, University of Lisbon, Portugal.

ACTUAL TIMETABLE

Monday, 4 Aug.

9:00-12:00	Registration
15:00-16:00	Opening Session
17:00-19:00	Welcome cocktail offered by the Azores University

Tuesday, 5 Aug.

9:00-12:00 and 14:00-17:00	Presentation of papers, Section 1 (and 3)
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Wednesday, 6 Aug.

9:00-12:00 and 14:00-17:00	Presentation of papers, Section 1 (and 3)
18:00-20:00	Reception, at the Casino of Furnas, offered by the City Council of Ponta Delgada

Thursday, 7 Aug.

9:00-12:00 and 14:00-17:00	Presentation of papers, Section 2
21:00-23:00	Entertainment evening at Teatro Micaelense

Friday, 8 Aug.

9:00-12:00	Presentation of papers, Section 2
14:00-17:00	Presentation of papers, Section 4

Saturday, 9 Aug.

10:00-11:00	Closing session
20:00	Closing dinner in Solar da Graça offered by the Presidency of the Regional Government

SYMPOSIUM ON THE ACTIVITY OF OCEANIC VOLCANOES

FIELD EXCURSIONS

V1 — *Volcanoes of San Miguel*, 10-14 Aug.

Leader : Prof. J. A. Martins.

Visit by coach to the calderas of Sete-Cidades, Agua-de-Pau, Furnas, and Povoação ; to the solfatara fields of Ribeira-Grande and Furnas, and to the geothermal works in Ribeira-Grande.

V2 — *Island of Terceira*, 10-15 Aug.

Leaders : Prof. S. Self & Dr. J. C. Fernandes.

Trip by air Ponta Delgada to Terceira (and return) ; visit by coach to the calderas of Santa Bárbara and Guilherme-Moniz, 1761 lava field of Biscoitos, ignimbrites of San-Mateus and Lages, and volcanic cave Algar-do-Carvão.

V3 — *Islands of Fayal and Pico*, 10-15 Aug.

Leader : Prof. F. Machado.

Trip by air Ponta Delgada to Fayal (and return) ; visit by coach to the caldera of Fayal, lava fields of Capelo, 1958 cone of Capelinhos ; trip by boat to Pico and visit by coach to the base of the big composite cone, to one of the 1718 lava fields, and to the lava stalactite cave of Frei-Matias.

During the excursions there were receptions offered by the City Councils of Angra and Horta, and by Their Excellencies the Regional Secretaries of Commerce and Industry, of Education and Culture, and of Transport and Tourism, respectively, in Ponta Delgada, Angra and Horta.

ACCOMPANYING MEMBERS PROGRAMME

(GUIDED BY MRS J. C. CYMBRON)

This programme included the following excursions :

A4 — Guided visit to Vila Franca, Tuesday, 5 Aug., 14:00-18:00.

A5 — Guided visit to Sete Cidades, Wednesday, 6 Aug., 9:00-12:00.

A6 — Guided visit to the churches of Ponta Delgada and to some pineapple green houses in the suburbs, Thursday, 7 Aug., 14:00-16:30.

A7 — Guided visit to Ribeira-Grande and Lagoa-do-Fogo, Friday, 8 Aug., 9:00-18:00.



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