



## InterRidge Program Plan Addendum 1997

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## InterRidge Office Transfer

January 1997 marked the end of InterRidge's three-year term in Durham, and the office moved to the Laboratoire de Pétrologie at the Université Pierre et Marie Curie in Paris, France, where it will reside for the next three years. Mathilde Cannat took over as InterRidge Chair from Roger Searle. Ruth Williams, the assistant Coordinator during the Durham term, oversaw the office transfer and was acting Coordinator until March 1997 when Cara Wilson started as the InterRidge Coordinator. Hélène Horen is the current assistant Coordinator.

## InterRidge Membership

Italy and Canada have definitely decided to upgrade to Associate in 1998 and India and Korea have been discussing upgrading as well. South Africa and Brazil have joined as new Corresponding members. Thus, at the end of 1997 InterRidge is composed of 21 member countries. These countries are listed below with their national ridge research program where they exist, and with their National Correspondent(s).

### Principal Members:

1. France - Dorsales - Jean Francheteau
2. Germany - DeRidge - Roland Rihm
3. Japan - InterRidge Japan - Nobuhiro Isezaki
4. Spain - Miquel Canals, Juan José Dañobeitia
5. UK - BRIDGE - Roger C. Searle
6. USA - RIDGE - Karen L. Von Damm

### Associate Members:

1. Norway - Eirik Sundvor
2. Portugal - J. Miguel A. Miranda

### Corresponding Members:

1. Australia - Trevor J. Falloon
2. Brazil - Suzanna Sichel
3. Canada - CanRidge - S. Kim Juniper, Kathryn M. Gillis
4. Denmark - John R. Hopper
5. Iceland - Karl Grönvold
6. India - D. Gopala Rao
7. Italy - Enrico Bonatti, Paola Tartarotti
8. Korea - Sang-Mook Lee
9. Mexico - J. Eduardo Aguayo-Camargo
10. Russia - Alexander V. Sobolev, Sergei Maschenkov
11. South Africa - Anton le Roex
12. Sweden - Nils G. Holm
13. Switzerland - Gretchen Früh-Green

### Liaisons with other programs:

1. ODP - Catherine Mével
2. SCOR -
3. SOPAC -

The principal way that members keep the InterRidge community updated on the relevant research and activities in their country is through the national updates that are published in *InterRidge News* and which are now put on the InterRidge web pages. Two principal members, Spain and Japan have not contributed an update since 1995, and one of the associate members, Portugal, has never contributed an update.

## InterRidge Steering Committee

- |                         |                                |                       |                                |
|-------------------------|--------------------------------|-----------------------|--------------------------------|
| 1. Mathilde Cannat      | (France; Chair, 1997)          | 12. Catherine Mével   | (France, <i>ad hoc</i> , 1997) |
| 2. Philippe Blondel     | (UK, <i>ad hoc</i> , 1997)     | 13. Miguel A. Miranda | (Portugal, NC, 1996)           |
| 3. Miquel Canals        | (Spain, NC, 1995)              | 14. Lauren Mullineaux | (USA, <i>ad hoc</i> , 1995)    |
| 4. Alan Chave           | (USA, <i>ad hoc</i> , 1997)    | 15. Lindsay M. Parson | (UK, <i>ad hoc</i> , 1995)     |
| 5. David C. Christie    | (USA, 1997)                    | 16. Roland Rihm       | (Germany, NC, 1995)            |
| 6. Juan José Dañobeitia | (Spain, NC, 1995)              | 17. Roger Searle      | (UK, 1994)                     |
| 7. Daniel Desbruyères   | (France, <i>ad hoc</i> , 1991) | 18. Eirik Sundvor     | (Norway, NC, 1996)             |
| 8. Jean Francheteau     | (France, NC, 1991)             | 19. Kensaku Tamaki    | (Japan, 1992)                  |
| 9. Hiromi Fujimoto      | (Japan, 1997)                  | 20. Tetsuro Urabe     | (Japan, 1994)                  |
| 10. Chris R. German     | (UK, 1997)                     | 21. Karen L. Von Damm | (USA, NC, 1995)                |
| 11. Peter M. Herzig     | (Germany, 1996)                |                       |                                |

## InterRidge Working Groups

### Working Group membership in 1997

There are currently nine InterRidge working groups, three in each theme (Global Studies, Meso-Scale Studies and Active Processes). The current chair and membership are given below for each working group.

#### Global Studies:

- **SWIR (Southwest Indian Ridge):** Catherine Mével (France), Chair  
Miquel Canals (Spain) Charlie Langmuir (USA) Jonathon Snow (Germany)  
Chris German (UK) Anton le Roex (South Africa) Kensaku Tamaki (Japan)  
Nancy Grindlay (USA) Chris MacLeod (UK) <sup>B</sup>Cindy Lee Van Dover (USA)
- **Arctic Oceans:** Roland Rihm (Germany), Chair  
Bernard J. Coakley (USA) Karl Gronvold (Iceland) Neil C. Mitchell (UK)  
Kathleen Crane (USA) H. Ruth Jackson (Canada) Hans Albert Roeser (Germany)  
Olivier Dauteuil (France) Wilfried Jokat (Germany) Hideki Shimamura (Japan)  
Colin W. Devey (Germany) Yngve Kristoffersen (Norway) <sup>B</sup>Cindy Lee Van Dover (USA)  
Vladimir Glebowsky (Russia) Peter J. Michael (USA)
- **Global Digital Database:** Phillippe Blondel (UK), Chair  
No members yet

#### Meso-Scale Studies:

- **4-D Architecture of the Oceanic Lithosphere:** Lindsay M. Parson (UK), Chair  
Simon Allerton (UK) Pascal Gente (France) Jian Lin (USA)  
Donna K. Blackman (USA) Kathryn M. Gillis (Canada) Nobukazu Seama (Japan)  
Mathilde Cannat (France) Eulália Grácia (Spain) Martin C. Sinha (UK)  
Jérôme Dymont (France) Peter B. Kelemen (USA) Maya Tolstoy (USA)
- **Hydrothermal Fluxes:** Chris German (UK), Acting Chair  
No members yet
- **Back-Arc Basin Database:** Chairs: TBA (possibly Hiromi Fujimoto and Jean-Marie Auzende)  
No members yet

#### Active Processes:

- **Biological Studies at the Ridge Crest:** Lauren Mullineaux (USA), Chair  
Paul R. Dando (UK) Charles R. Fisher (USA) Douglas C. Nelson (USA)  
John R. Delaney (USA) Hans Fricke (Germany) Suguru Ohta (Japan)  
Daniel Desbruyères (France) Françoise Gaill (France) Anna-Louise Reysenbach (USA)  
David R. Dixon (UK) Jun Hashimoto (Japan) Karl O. Stetter (Germany)  
Sergei S. Drachev (Germany) S. Kim Juniper (Canada) Verena Tunnicliffe (Canada)  
Aline Fiala-Médioni (France) Richard A. Lutz (USA)
- **Undersea Cables:** Alan Chave (USA), Chair  
John R. Delaney (USA) Adam Schultz (UK) Heinrich Villinger (Germany)  
Hajimu Kinoshita (Japan) Debra S. Stakes (USA)  
Hiroyasu Momma (Japan) Pascal Tarits (France)
- **Event Detection and Response and Observatories:** Chairs: TBA (possibly Chris Fox and \_\_\_)  
No members yet

## *Working Group activities in 1997*

### ***SWIR (Mével)***

C. Mével took over the chair of this group last fall from C. Langmuir. Under C. Langmuir's direction the group outlined the primary scientific issues to address in the SWIR, which were published in the SWIR Project Plan in April 1997. The SWIR Implementation group was established last fall to implement that plan by actively promoting and coordinating the necessary cruises. This goal will be partially realized by cruises completed this past summer, in addition to upcoming cruises, and proposed cruises. These cruises were summarized in a working group update published in *InterRidge News* 6(1).

Unfortunately, the SWIR Project Plan was published without a needed figure due to some miscommunication in conjunction with the InterRidge Office transfer. A revised report was published in November.

### ***Arctic Ridges (Rihm)***

A sub-set of the participants of the Arctic Ridges Workshop in November of 1994 finished writing up the workshop report. Subsequently the InterRidge Office compiled and edited the report which was finished in September 1997. Prospective members for the working group were solicited in March 1997 to draft a project plan and establish priorities for upcoming cruises.

### ***Global Digital Database (Blondel)***

In January 1997 Ph. Blondel took over the direction of this project from K. Tamaki who had become too busy to continue with the project. This project will benefit from the groundwork made by other international agencies such as SOPAC and SCOR, in particular the SCOR WG "Improved Global Bathymetry", of which Blondel is a member. There was a working group update published in *InterRidge News* 6(1). The working group does not yet have any members.

### ***4-D Architecture of the Oceanic Lithosphere (Parson)***

The 4-D Architecture concept has been developed out of three past InterRidge workshops. In May 1997 the group was established by sending out invitations to prospective members. This group will work to promote proposal writing which will further the understanding of ridge architecture.

There will be a special session at this year's Fall AGU meeting entitled "Magma focusing and the segmentation of Mid-Ocean Ridges at all spreading rates" which developed out of the 4-D working group. The session will be convened by Mathilde Cannat and Lindsay Parson, and will be followed by an open discussion/4-D working group meeting to focus on the key areas of uncertainty in ridge architecture and how to address them.

### ***Hydrothermal Fluxes (German)***

The 'Quantification of Fluxes' working group grew out of the workshops in 1993 and 1995 which were oriented towards designing experiments to measure thermal, magmatic, hydrothermal fluxes on a segment scale. Several cruises to the northern Mid-Atlantic Ridge in the past years have been aimed at carrying out the hydrothermal component of this objective. Chris German was asked to Chair this project last year but initially declined, feeling that someone with a more magmatic perspective would be more appropriate because those components had not progressed as far as the hydrothermal ones. However, there has been discussion that magmatic fluxes should be incorporated into the 4-D Architecture working group, and that the Fluxes group should concentrate on hydrothermal fluxes. The focus of this group is therefore a crucial question that needs to be determined. If it is decided that the working group should focus on hydrothermal fluxes, C. German is willing to Chair the group.

There will be a special session at this year's Fall AGU meeting entitled "Hydrothermal Activity at Different Spreading Rates" which developed out of the Quantification of Fluxes working group. This session, convened by Cara Wilson and Chris German, will be followed by a panel to discuss unresolved questions about hydrothermal fluxes such as 1) the partitioning along axis as a function of spreading rate but also with tectonic vs. magmatic controls and 2) the partitioning between on-axis vs. off-axis, and between high-T axial flow, diffuse axial flow and off-axis flow.

### ***Back-Arc Basins (Hiromi Fujimoto and Jean-Marie Auzende)***

Kensaku Tamaki is now too busy to act as Chair, and a replacement must be found. Hiromi Fujimoto and Jean-Marie Auzende have been suggested as possibilities to co-chair the group. A list of possible working group members has been generated. As discussed in last year's Steering Committee this group would complete the Back-Arc Basins Project plan and further develop the Back-Arc Basin database. SOPAC, which Jean-Marie Auzende is associated with, should be involved in this project due to the number of back-arc basins in the region it manages.

### ***Biological Studies at the Ridge Crest (Mullineaux)***

InterRidge organizing the First International Symposium on Hydrothermal Vent Biology, which was held in Madeira, Portugal 20-24 October, 1997. 122 people, from 12 different countries, attended this meeting, where 86 talks and posters were presented. The InterRidge Office has produced the abstract volume for the Symposium, and will be compiling a citable volume of extended abstracts.

E-mails have been sent out soliciting feedback on the International Sample Exchange Agreement, but conflicting views suggested that a discussion was needed on the subject. A meeting was held during the Madeira Symposium to

further discuss the agreement. Additionally, in July an application was submitted to SCOR to create a new working group on the International Sample Exchange Agreement, which would make travel funds available for meetings.

The Handbook for deep-sea hydrothermal vent fauna has been published by IFREMER. InterRidge contributed 20,000FF to the production costs, for which we will be receiving 29 copies of the manual. There needs to be a clearer consensus on the InterRidge distribution list for this manual.

There was a working group update published in *InterRidge News* 6(1).

#### ***Undersea Cables (Chave)***

This group was created at the 1996 Steering Committee meeting to investigate the range of science that could be done with the undersea cables. Alan Chave agreed to chair this group and invitations were sent out to prospective members in May 1997. It is expected that this group will work closely with the Event Detection and Response and Observatories working group. There was an working group update published in *InterRidge News* 6(2).

#### ***Event Detection and Response and Observatories (Chris Fox and TBA)***

Karen Von Damm is now too busy with RIDGE to act as Chair, and a replacement(s) must be found. There is growing interest in the community to expanding EDR and Observatory work into the Atlantic, an effort which logistically would have to be international, and which InterRidge should take a lead in. Chris Fox has been approached about the possibility of chairing the EDR component of this working group, and he has been invited to the IRSC meeting to discuss the issue. A co-chair who is involved with the observatory aspect needs to be found. There has been tentative talk of holding a meeting early next year to discuss the directions of the working group. Currently there are no working group members.

#### ***Working Group Communications***

One of the ongoing problems for the working groups seems to be how to have productive interactions in the absence of formally scheduled workshops or meetings. Some working group members have expressed a frustration with determining what (if anything) is happening within their group. A possible solution to this problem is to establish electronic bulletin boards for the working groups, which would contain the working groups objectives and current plans for achieving those objectives. They would operate similar to web pages, except that each member has the ability to add to or to modify text on the board, and members would be automatically notified to additions or changes in the board. Preliminary investigation into what type of system/software requirements would be needed to do this have started, but needs more development.

### **InterRidge WWW Pages**

Since the InterRidge web pages (<http://www.lgs.jussieu.fr/~intridge>) were transferred to Paris considerable effort has been put into restructuring and updating these pages. The primary changes have been to streamline the structure of the main home page, and to add more information that is published in *InterRidge News* (which follows the decision at the 1995 IRSC meeting to put *InterRidge News* on the web). Links have been made from the list of Steering Committee Members and National Correspondents to the electronic directory.

Pages have been created for the almost all of the working groups (currently only Event Detection and Response & Observatories, and Hydrothermal Fluxes do not have one). These pages include the working group membership, a summary of current activities, and workshop reports (for example the SWIR Project Plan). A list of all past InterRidge workshops, with links to a workshop summary (as written in the IRSC reports) has been added. Pages have also been created for most InterRidge member nations, which contain the most recent national update (as published in *InterRidge News*). So far, these pages have been made for the 15 countries for whom a recent update exists, and include the first bilingual page (Brazil's page has an English and Portuguese version).

As before, the InterRidge web pages include the InterRidge Researcher Electronic Directory and Ridge Crest Biologist Directory, information about InterRidge program structure, a calendar of upcoming meetings and workshops, a list of InterRidge publications, the global Ridge-Crest cruise schedule and links to other relevant home pages.

### **Activity in the InterRidge Office**

The office transfer, publication of *InterRidge News* 6(1), organization of the First International Deep-Sea Hydrothermal Vent Biology Symposium and its abstract volume, working on workshop reports, and restructuring and updating the webpages were the major activities of the first portion of 1997. The Office continues to reply on a daily basis to e-mail enquires from the international ridge crest research community, and to update and maintain the InterRidge database, which contains over 2200 entries.

## InterRidge Publications 1997

Global Studies Workshop Report: Arctic Ridges: Results and Planning, pp. 78, Sept. 1997 (also on web).

Global Studies Workshop Report: SWIR Project Plan, pp. 21, Apr. 1997 (also on web).

InterRidge Program Plan Addendum 1996, pp. 10, Apr. 1997.

*InterRidge News*, vol. 6, no. 2, pp. 64, Oct. 1997.

*InterRidge News*, vol. 6, no. 1, pp. 72, Apr., 1997.

The SWIR Project Plan was published without a needed figure due to some miscommunication in conjunction with the InterRidge Office transfer. A revised report was printed in November.

### *FARA-Ewing Volume*

Following the Iceland Symposium, a volume of results from the 15°-40°N area of the Mid-Atlantic Ridge was to be published in the Maurice Ewing series through AGU. However only 16 papers were received, which was not sufficient for a Ewing Volume. The majority of the authors favored that their papers be published in a special issue of a journal. In May the ten remaining papers (six authors requested that their papers be returned to them for publication elsewhere) were sent to Charlie Langmuir, for submission to a special issue of EPSL.

## InterRidge Meetings and Workshops 1997

### *Administrative Meetings:*

Steering Committee Meeting

Paris, France, 25 & 26 September 1996

### *Symposia:*

First International Symposium on Deep-Sea Hydrothermal Vent Biology

Funchal, Madeira, Portugal, 20-24 October 1997

### *Special AGU Sessions:*

T11 Magma focusing and the segmentation of Mid-Ocean Ridges at all spreading rates (4D WG)

Special Tectonics session at Fall AGU meeting, San Francisco, CA, AGU, 8-12 December 1997

V16 Hydrothermal Activity at Different Spreading Rates (Fluxes WG)

Special Volcanology session at Fall AGU meeting, San Francisco, CA, AGU, 8-12 December 1997

### *Symposia Summary:*

First International Symposium on Deep-Sea Hydrothermal Vent Biology

Funchal, Madeira, Portugal, 20-24 October 1997

### *1998 InterRidge Meetings*

Event Detection & Response and Observatories workshop: Designing long-term monitoring systems of the Mid-Atlantic Ridge, Fall 1998, Lisbon, Portugal.

InterRidge 1998 Steering Committee Meeting, October 1-2, 1998, Barcelona, Spain (provisional).