

InterRidge Steering Committee Meeting



September 27-28, 2015
Hangzhou, China

List of Participants

- 1. John Chen (Chair, 2013-2015)**
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- 3. Jérôme Dymont, (bid for the next office)**
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- 4. Toshiya Fujiwara (Japan, 2013)**
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- 5. Richard Hobbs (UK, 2011)**
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- 6. Kim Juniper (Canada, 2012)**
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- 7. Nadine Lebris(France)**
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- 8. Jian Lin(US representative, WG Co-Chair)**
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- 9. Jiabiao Li (Co-China, 2013)**
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- 10. Marcia Maia (France,2013)**
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12. Henry Dick(USA)

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13. Nabukazu Seama(Japan)

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14. Anne Brias (WG Co-Chair)

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15. Zengxi Ge(IR Coordinator, 2013)

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Absent Steering Committee Members:

Pedro Ferreira (Portugal, 2009)

Rolf Pedersen (Norway, 2001)

Kamesh Raju (India, 2005)

Bramely Murton (UK, 2010)

Meeting Agenda

Sunday 27th -28th September, 2015;

Day 1 2:00-5:00	1	2:00	Welcome and introduction	J. Chen and J. Li
	2	2:10	Discuss on the Achievements Made in the Third InterRidge Theoretical Institute	Jian Lin
	3	3:00	Discussion of bid for the next InterRidge Office 2016-18	J. Li and J. Chen
	4	4:00	Select the best student presentation.	Jian Lin
	4	4:30	Award the best student presentations and Coffee Break	J. Chen and J. Lin
	5	5:00	Future directions of InterRidge	J. Chen And J. Li
18:30 Dinner				
Day 2 8:30-12:00	6	8:30	InterRidge Office Coordinator's report ✓ Working Groups ✓ InterRidge Fellowship and Postdoctoral Fellowship Programme ✓ Cruise bursaries ✓ Membership ✓ Updating of Vent Database	Z. Ge
	7	9:00	National updates	China France UK Japan Canada Korea Norway USA Germany Portugal?
	8	10:30	Coffee Break	J. Chen
	9	11:00	Workgroup Update and discussion for future workgroups	J. Chen
	10	11:30	IR Budget 2015 Update on membership	J. Chen
	11	11:50	Next Steering Committee meeting location and date	J. Chen
	12	12:00	End of Steering Committee meeting	
12:00 Lunch				

1. Welcome and introduction, Accept 2014 meeting report, accept 2014 meeting agenda, and confirm Steering Committee Members

John Chen and Jiabiao Li welcomed the Steering Committee members and the national representatives to the meeting.

The 2013 meeting report is on the internet

http://www.interridge.org/files/interridge/IR_2014_StComm-v2.0.pdf.

Current Steering Committee members:

China - John Chen (Chair)

China - Jiabiao Li (Co-Chair)

Canada - Kim Juniper

France - Marcia Maia

France - Nadine Le Bris

India - K. A. Kamesh Raju

Japan - Michinari Sunamura

Japan - Toshi Fujiwara

Korea - Sung-Hyun Park

Norway - Rolf Pedersen

Portugal - Pedro Ferreira

UK - Bramley Murton (ex-officio)

UK - Richard Hobbs

2. Discuss on the Achievements Made in the Third InterRidge Theoretical Institute

Dr. Jian Lin led the discussion on the achievements Made in the third InterRidge theoretical institute. The members all agree that the third IRTI had provided an opportunity for scientists to exchange their achievements made for the past years especially for the young scientists to know each other and enhance further collaboration in the near future.

International cooperation makes it possible to solve larger science questions. To following are suggested

1) Publications

a) AGU Geophysical Monograph:

Tentative title: "Mid-Ocean Ridge Magmatic, Tectonic, and Hydrothermal Processes: Links to Seafloor Mineralization".

b) G3 Special Theme or Marine Geophysical Research Special Issue

2) Young Scientist Networking

InterRidge Young Scientists Symposiums, Summer Field Schools, Social media such as facebook, wechat et al. are proposed to bring together international Young Scientists.

3. Discussion of bid for the next InterRidge Office 2016-18

Presentation by Jérôme Dymont and Nadine LeBris

Jerome Dymont outlined the proposed Budget.

Nabukazu Seama explained the new reform of the interridge fund structure in detail and made it clear that the host country can use the whole 50000 dollars to maintain the office and states that Japan is going to stay as a regular member in 2016.

KM: Should argue with the host institute to avoid overhead. The working group should be cleaned up. And the new office should make effort to increase membership.

John Chen: Chinese office will guarantee a \$100000 Recurrent Contingency to transfer to France to maintain the office for the first few months.

Closed session:

CD: Since the two chairs are in two different locations, it is important to make it clear the responsibilities of the two chairs.

JL: In the US office, there was a Chair and a Co-Chair instead of two co-chair.

ACTION

The French bid was accepted unanimously. The office will move to French since 2016.01. The office in China will collaborate with to new office to transfer the contingent fund to the new office. An invoice should be provided by the new office to Peking University so as to continue to transaction.

4. **Select the best student presentation.**

The score sheet was collected and analyzed by Z. G. According to the final score, three students won the "best student presentation award" in the third interridge theoretical Institute. They are

Mr. Masakazu FUJII from University of Tokyo, Japan

Mr. Huatian Zhang from Peking University, China

Miss Emma Gregory from University of Durham, UK.

Drs. Jian Lin, John Chen and Jiabiao Li presented the awards to them.

5. **Future directions of InterRidge**

Jian Lin: Since the Ridge2000 program is closed, there is no formal US ridge program at present. Thus the ridge scientists lost the voice and leadership. To regain a leading voice for US it is important to find outstanding young scientists to form a new organization.

Henry Dick: explained the current status of US and think it is a good time for the US scientists to request fund from Agency to pay the interridge membership fee. Jian Lin suggest to contact young scientists to form a ridge communities in US. It is very possible for the US to be able to get fund for the membership fee in the next year.

KJ: US should talk to individuals to group the younger scientists together.

CD: explained the current status of German and think it is a good chance for German to pay a regular membership fee in 2016 and regain to principle member in the near future.

FB: linked InterRidge to IODP and think his application for the Portuguese membership fee.

JC: Australia might be the potential country to join the interridge, but we have to find the right contact person.

JD: For the corresponding members, we should suggest an rotate in three years

KD: We should have some printed Documents that look good to attract eyeballs.

Kim Juniper, Sung-Kyun Park and John Chen states that Canada, Korea and China will keep current membership status.

CONCLUSION and ACTION:

Hopefully there will be more membership fees paid in the next few years.

Contract the national correspondences ask if they want to continue to be the contract person or want to rotate to someone else.

The steering committee decide that InterRidge should be focus on science and the industry liaison panel is officially closed.

6. InterRidge Office Coordinator's report

6.a Zengxi Ge, InterRidge Coordinator, highlighted the activities below.

Major activities for the Coordinator since the 2014 StComm meeting included:

- Last quarter of 2014: produced InterRidge News 2014, attended AGU and distribute the InterRidge News in AGU;
- First quarter of 2015: Database development - linkage between cruise and vents databases; IR membership –administration of cruise bursaries.
- Second and 3rd quarter of 2015: Evaluation and selection of 2015 InterRidge and InterRidge/ISA Student/Post-doc Fellowships; Steering Comm meeting and third IRTI preparation
- Expected 4th quarter of 2012: production of annual IR Newsletter.

On-going activities for the Coordinator since the 2012 StComm meeting included:

- bi-weekly e-newsletters;
- education and outreach activities.

6.b Working Groups

New WG: Ecological Connectivity and Resilience Chairs: Anna Metaxas (Dalhousie University, Canada) and Lauren Mullineaux (Woods Hole Oceanographic Institution, USA)

CAA is going have the workshop in October, in Korea.

6.c Website and email lists

Daily activities at the IR office include posting events, news and jobs to the website.

Since 1st Jan 2014, 15 emails have been posted with IR bi-weekly news to the interridge-mail emailing list. As of May 2014, there were 1245 members on this list. In addition, the IR bi-weekly news e-mails are transmitted to the InterRidge-Japan e-mail list.

5.d Vents Databases

Version 3.3 is the present live site hosted by InterRidge China, with edits commencing in July 2013.

Added 3 (CIR, Segment 4; Precious Stone Mountain; Yoron Hole).

Edited 14 (AAR KR1; AAR KR2; Beebe; Calypso; CIR, Segment 6; Dodo; ESR, E9; Hinepuia; Iheya North; Irabu Knoll; Steinaholl; SuSu Knolls; Volcano 1; Volcano 19).

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6.e Cruise Database

- Obtaining information on cruises remains difficult – hardly any information is sent to the IR Office for dissemination.

6. f InterRidge Student and Postdoctoral Fellowship Programme

There were eight applicants for InterRidge Fellowships this year, We awarded 1 Fellowship in September 2015.

IR Fellow 2015:

Mr. Jotautas Baronas, From USC (USA, Doug Hammond) to the University of Brest (Oliver Rouxel), Investigation of germanium isotopes as a novel hydrothermal tracer in the fluids of the back-arc hydrothermal system in Manus Basin, Papua New Guinea

6.g Cruise bursaries

PI	Cruise location and time	Recipients
Dr. Richard Hobbs	JC112, Jan 2015, Costa Rica	Gavin Haughton, UK
Dr. Craig Moyer, USA	Mariana Arc cruise, November 2014	Sheryl Murdock, Canada
Nick Mortimer (New Zealand/ Martin Patriat (France))	VESPA cruise, Southwest Pacific. May-Jun, 2015	Jordan Nina, UK
		Mederiv Amann, France

DISCUSSION:

InterRidge office should advertise more.

The IR news should be printed out and sent to institutions.

ACTION:

ZG to contact National correspondents and ask them to update national members.

ZG to send hard copies of IR news to institutions rather than individuals.

6. National updates

China National Update 2015

Jiabiao Li and Y. John Chen

In 2015, the China ridge program continues the effort to promote ridge-related studies. We have completed three cruises on the Southwest Indian Ridge, Carlsberg Ridge and south Mid-Atlantic Ridge in the past year.

Ridge Surveys

From November 2014 to April 2015, the Chinese Southwest India Ridge Cruise (PI: C. Tao, Second Institute of Oceanography) used the R/V “*Dayangyihao*” to conduct the ridge-crest survey on the polymetallic sulfides exploration area on the Southwest Indian Ridge 48°S - 53°S. The cruise was divided into 4 long legs, and the main objectives were polymetallic sulfide resources exploration, geophysical survey and environment baseline research, etc. The multi-disciplinary survey of the Chinese exploration area consisted of: (1) three drilling stations using 20-meter drilling system in the Changbai-1 Field (37°36.00'S, 51°00.00'E), such as pyrite breccia, mafic-rock samples were collected. (2) Deployment of 9 OBSs for monitoring the microseismicity at the Longqi active hydrothermal Field (37°46.98'S, 49°39.00'E). (3) Four transient electronic-magnetic (TEM) survey lines for detecting the ore body underlying the Duanqiao Field (37°39.45'S, 50°28.02'E). (4) More than sixty geological stations conducted in several hydrothermal fields for prospecting seafloor polymetallic sulfides in the SWIR.

Meanwhile, the manned submersible “*Jiaolong*” (PI: C. Tao) hosted by R/V “*Xiangyanghong 9*” visited the Longqi active hydrothermal Field on the SWIR for the first time during December 2014 to March 2015. “*Jiaolong*” had completed 8 dives at the Longqi Field (depth at ~2750m), surveyed the high-temperature vent area and low-temperature diffuse flow area in the “Middle zone” and “Southern zone”, respectively. Sulfide chimney, hydrothermal fluids, and vent-associated fauna samples were collected to help the scientists understand the distributions, geological characteristics of the seafloor hydrothermal mineralization with their biochemical environment at this field. According to the survey, the scale (~40,000 m²) of Longqi Field is probably one of the largest hydrothermal vent fields at the mid-ocean ridges.

In March 2015, a Northwest India Ridge Cruise was conducted by R/V Zhukezhen (PI: X. Han, Second Institute of Oceanography), which consists of comprehensive geophysical mapping, hydrothermal plume surveying, video sled observing and geological sampling along the slow-spreading Carlsberg Ridge. The most significant result of this cruise is the discovery of a new ultramafic-hosted hydrothermal sulfide deposit which named Tianxiu Field on the southern

rift-valley wall, ~5 km from the adjacent rift axis. In May 2015, the following cruise (PI: G. Han, First Institute of Oceanography) systematically mapped the south Mid-Atlantic Ridge and collected rocks samples. One active hydrothermal field was confirmed and several hydrothermal anomalies sites were discovered using the CTD casts, plume sampling and video sled observing. The results of these two legs allow us to compare the seafloor hydrothermal mineralization processes on the slow-spreading ridge system in the Indian Ocean to those in the Atlantic Ocean.

Other research

Seismic observation of an extremely magmatic accretion at SWIR

Using three-dimensional seismic tomography at an ultraslow spreading Southwest Indian Ridge segment containing a central volcano at 50°28'E, Jiabiao Li's group reported the presence of an extremely magmatic accretion of the oceanic crust. The results revealed a low-velocity anomaly (~0.6 km/s) in the lower crust beneath the central volcano, suggesting the presence of partial melt, which is accompanied by an unusually thick crust (~9.5 km). They concluded that the extremely magmatic accretion is due to localized melt flow toward the central volcano, which was enhanced by the significant along-axis variation in lithosphere thickness at the ultraslow spreading Southwest Indian Ridge (for more details see Li et al., GRL, 2015, Vol.42).

Asymmetric crustal structure of the Mohns Ridge

Newly obtained gravity data revealed the relationship among hotspot influence, local magma supply, and asymmetric topography and crustal structure of the conjugate flanks of the slow-spreading Mohns Ridge (PI: T. Zhang, Second Institute of Oceanography). The calculated residual topography and residual mantle Bouguer anomaly revealed distinctive asymmetric crustal structure on conjugate flanks of the Mohns Ridge during the last 35 Ma.

Upcoming Activities

For late 2015 to 2016, the China ridge program will use three research vessels for cruises at both the SWIR and Carlsberg Ridge.

- 1) In November 2015 to early 2016, the COMRA will use the new AUV *Qianlong-2* on the R/V *Xiangyanghong 10*, led by PI Chunhui Tao of Second Institute of Oceanography. The goals of this cruise are to investigate the Longqi Field and Duanqiao Field on SWIR through sidescan sonar, multibeam, camera, and chemical sensors, and near-bottom magnetometer. At the same time, COMRA will continue conducting mapping, seismic and magnetics measurements, rocks sampling and environment baseline survey within the contract area on the SWIR. This cruise will collect new evidence of the hydrothermal activities in the contract area.
- 2) In March and April 2016, the COMRA will use the manned submersible *Jiaolong* on the R/V

Xiangyanghong 9 to investigate the Tianxiu Field and Daxi Field on Carlsberg Ridge, led by PI Xiqiu Han of Second Institute of Oceanography. The submersible expedition will sample the vent fluid, rock, chimney, and biota and undertake sidescan sonar mapping both on the ultramafic-hosted Tianxiu Field and mafic-hosted Daxi Field.

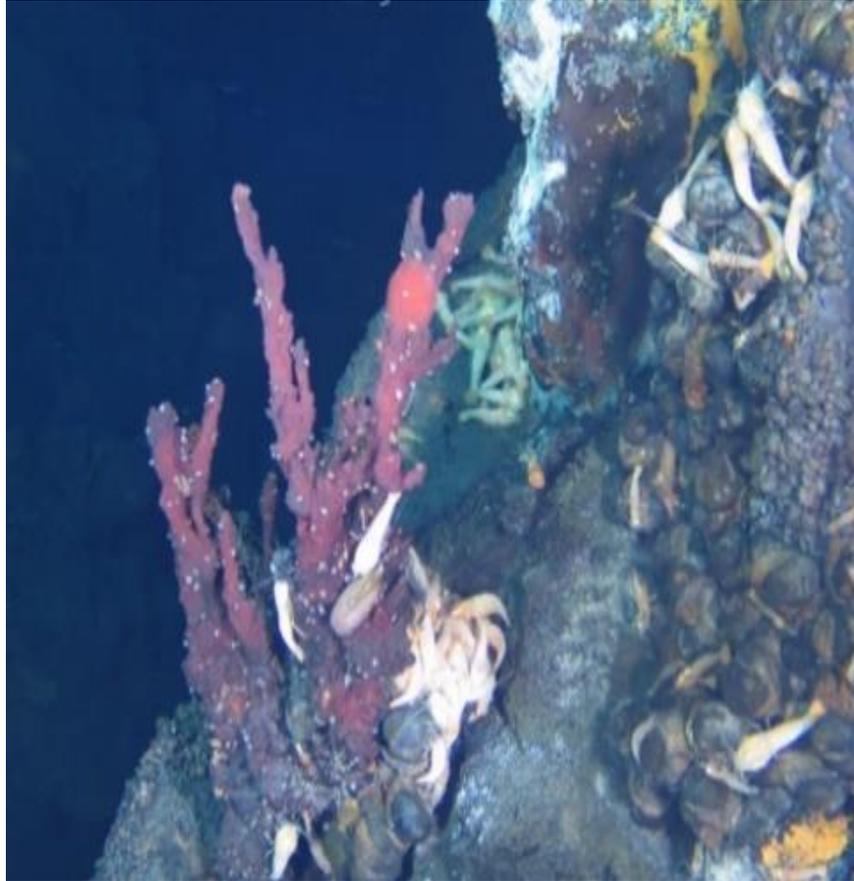


Photo of the hydrothermal chimney and fauna in the Longqi Field on the SWIR (Photo by C.Tao)

National Update 2015, France

Pre

New and on-going projects on ridge research and related subjects Scheduled cruises

Completed in 2015		
STORM 31/12/2014 - 05/02/2015 Antarctic-Australia Ridge	L'Atalante	Survey and sampling of the Australian-Antarctic Ridge
OHA-SIS-BIO 7 MD200 03/01-12/02/2015 Indian Ocean	Marion Dufresne	Survey and sampling of the Australian-Antarctic Ridge
MOMARSAT 2015 09/04 - 28/04/2015 MOMAR observatory	Pourquoi Pas ?	Survey and sampling of the Australian-Antarctic Ridge
Expected in 2016		
OHA-SIS-BIO 8	Marion Dufresne	Service of the Indian Ocean Acoustic Observatory
MOMARSAT 2016	Pourquoi Pas ?	Service of the MoMAR Observatory
HYDROBS-MOMAR 2016	Thalassa	Service of the MoMAR Acoustic Observatory
GRAVIMOB	L'Europe	Test of a new gradiometer for AUV

New and on-going projects on ridge research and related subjects

Atlantic Ocean

Magmatic, tectonic and hydrothermal processes, Vent biology and ecology, Geomicrobiology and fluid interactions, Seismicity and hydroacoustics, Deep-sea observatory at MoMAR site, and seismicity monitoring through, HYDROBS-MOMAR hydrophone array.

For 2016, three cruises on deep sea observation and monitoring already granted and programmed: MoMAR, OHA-SIS-BIO and HYDROBS-MOMAR

Deep-sea instrument development, Electromagnetics: ACEM deep EM survey AUV based Gravity gradiometer AUV based, In 2016, a cruise will be held for the first tests of a new gradiometer sensor for AUVs.

Renovation of the Marion Dufresne: extend the ship's life by 20 years

4 months of work for a complete overhaul of the ship's main equipment, including the facilities (laboratories, accommodation areas)

National Update 2015, Japan

Kyoko Okino, Presented by Toshiya Fujiwara

The InterRidge-Japan program continues efforts to promote ridge-related studies in Japan and to maintain our community. The outline of the ongoing project and other activities are described below.

Domestic Situation

We are forced to get along without an umbrella project supporting InterRidge-Japan activity and ridge-related studies are performed using individual project funding. A government-led program “Next-generation technology for ocean resources exploration” has started in 2014. JAMSTEC and other national research institutions join the program, and some IRJ members plan to promote studies on hydrothermal fields around Japan under the program.

R/V Natsushima, mother ship of ROV and Shinkai 2000, and R/V Kaiyo retired. A new ship R/V Kaimei (5800t, Length 100m, Breath 19m) equipped with 3D seismic system and long piston coring system has just launched. The new ship plans sea trial and training cruises in 2016.

Domestic Meeting

We had a business meeting on May 27, 2014, at a Japan Geoscience Union Meeting 2015, where we shared information on a budget of the IR, cruises, international affairs, and discuss the InterRidge-Japan annual activity plan. In 2014, we decided to be “regular member” after StCom discussion. The membership fee payment was shared by JAMSTEC and The University of Tokyo in 2014.

An InterRidge-Japan symposium will be held on December 1-3, 2015, at Atmosphere and Ocean Research Institute, University of Tokyo. We plan to propose a special session on the Okinawa Trough hydrothermal systems.

Publication of Project "TAIGA"

An e-book that reviews the results of interdisciplinary research project TAIGA, Trans-crustal Advection and In-situ biogeochemical processes of Global sub-seafloor Aquifer, was published on line (open access) from Springer in January 2015. The e-book includes 50 articles, providing an overall introduction and relevant topics on the mid-ocean ridge system of the Indian Ocean and on the arc-backarc systems of the Southern Mariana Trough and Okinawa Trough.

See “Subseafloor Biosphere Linked to Hydrothermal Systems”, Ishibashi, Okino and Sunamura (Eds.)

<http://www.springer.com/earth+sciences+and+geography/earth+system+sciences/book/978-4-431-54864-5>

Finished and ongoing cruises FY2014-2015

In FY 2014, some cruises were conducted in the hydrothermal areas in the Okinawa Trough and the Izu-Ogasawara-Mariana arc/backarc, mainly using AUV Urashima. R/V Hakuho-maru and R/V Yokosuka with Shinkai6500 and AUV Urashima plan to visit the Central Indian Ridge again in early 2016. The Hakuho-maru cruise will be conducted under the collaboration with Mauritian and Korean scientists.

7. Workgroup Update and discussion for future workgroups

IR Working Group: Ecological Connectivity and Resilience

Report of activities to IR Steering Committee – September 2015

Chairs: Anna Metaxas (Dalhousie University, Canada) and Lauren Mullineaux (Woods Hole Oceanographic Institution, USA)

Steering committee: Stephane Hourdez (Station Biologique de Roscoff, France), Andreas Thurnherr (Lamont-Doherty Earth Observatory, USA), Hiromi Watanabe (JAMSTEC, Japan), Yong-Jin Won (Ewha Womens University, Korea)

The working group was approved and became established in January 2015. Since then, the Steering committee has held 4 meetings, 2 virtual and 2 in person. The Chairs have had an additional virtual meeting. The first StCom meeting was held virtually in March 2015 with the goal of setting priorities and a timeline for activities. After the first meeting, we decided to launch the effort by exploring ways to approach 'product 2' from our IR proposal. This was written as 'an in-depth synthesis of data on ecological connectivity and community resilience in the context of human disturbance, intended for wide dissemination as peer-reviewed article.' We elected to proceed by exploring the possibility of using metacommunity modeling as a potential framework for identifying critical gaps in our data on connectivity and resilience at deep-sea hydrothermal vents. Following that meeting, the Chairs circulated publications on metacommunity theory and modeling to inform the StCom members on the relevance of the approach.

The Chairs organized a lunchtime townhall, open-invitation meeting for the deep-sea community during the Deep-Sea Biology Symposium in Aveiro, Portugal in Sep 2015. The goals of the meeting were to introduce the WG, describe our planned activities and launch our first objective as agreed upon in the 1st StCom meeting – a publication (or perhaps two) synthesizing field data on connectivity and resilience in deep-sea vent communities. An agenda was agreed upon by the StCom and members that were present at Aveiro held an in-person meeting to finalize our goals for the townhall. The townhall was very successful, attracting ~ 40 people, all of whom signed up as being potentially interested in participating in the WG (by contributing data and/or to the writing of our first product). Many interesting ideas were put forth on how to tackle the science for the manuscript. A follow-up, in person meeting of the StCom at Aveiro identified the way forward.

After the input we received at DSBS, the StCom had a 2nd virtual meeting in Sep 2015 to plan how to most effectively proceed with the article. We invited to this meeting, and will further

engage, Julie Kellner, a modeller with experience in metacommunity modelling and spatial planning in shallow-water systems, and somewhat familiar with vent systems through interactions with Mullineaux. During this meeting, it was decided that the StCom needs to clarify the direction, outline and likely content of the paper before requesting the engagement of other members of the WG. The plan is to produce such an outline, in collaboration with Kellner, by the end of October 2015, to allow us to define the types of input (data, system overviews etc) we will request from the WG. We will then request contributions and commitment to the writing of the paper by the end of November 2015, with a plan to begin organizing the paper and assigning tasks and writing assignments in January 2016.

In terms of publicising WG and in addition to the meeting at DSBS, we included a description of the WG and its activities in the June 2105 issue of Deep-Sea Life, an informal publication of the deep-sea community via INDEEP.

Anna Metaxas and Lauren Mullineaux (Chairs of WG)

8. IR Budget 2015

InterRidge Estimated Budget for 2015				
	Contingency fund from 2014	US\$118, 209		
Income:				
	Host country (China)	US\$25, 000		
	Principal members (3)	US\$75, 000		
	Members (4)	US\$20, 000		
	Total:	US\$120, 000	Office:	US\$80, 000
			Benefits:	US\$40, 000
Expenses:				
IR Office:				
	Salary (Coordinator, secretary)	US\$59, 000		
	InterRidge Web Site Relocation, Computer Server, and Maintenance Costs at PKU	US\$6, 000		
	InterRidge office's Travel	US\$8, 000		
	IR StCom meeting	US\$5, 000		
	Office supplies etc.	US\$1, 200		
	Total:	US\$79, 200		
Member benefits:				
	InterRidge and ISA	US\$5, 000	1	

	Fellowships			
	InterRidgecCruise bursaries	US\$6,000	3	
	Student Prizes at International Meetings	US\$6,000	3+3	
	IR Sponsored Meetings and Workshops (\$5,000 each)	US\$10,000	1	
	Total:	US\$27,000		

9. Update on membership

Principle members:

China

France

United Kingdom

Regular members

Japan

USA

German

Norway

Canada

Korea

Portugal (Pending)

India(Pending)

10. Next Steering Committee meeting location and date

The next Steering Committee meeting will be held in the end of August in France.

11. End of Steering Committee meeting