

## Meeting Documents for Agenda Items 1 & 2

**Readers' guidance:** \*I - For Information; \*C - For Comment; \*D - For Decision

No.	Document	*I	*C	*D	Pg.
<b>Agenda Item 1: Approval of the Agenda</b>					<b>1-20</b>
	Item 1 Coversheet	X			1
1.1	Practical Arrangements for the 12 <sup>th</sup> IRDR SC meeting	X			2
1.2	Agenda for the 12 <sup>th</sup> IRDR SC meeting			X	9
1.3	List of Participants for the 12 <sup>th</sup> IRDR SC meeting	X			13
1.4	Terms of Reference of the IRDR SC members	X			18
<b>Agenda Item 2: Approval of 11<sup>th</sup> SC Meeting Report</b>					<b>21-48</b>
	Item 2 Coversheet	X			21
2.1	Draft Report of the 11 <sup>th</sup> IRDR SC meeting			X	22
2.2	Overview over actions decided on at the 11 <sup>th</sup> IRDR SC meeting		X		46



---

## 12<sup>th</sup> Meeting of the IRDR Science Committee ICSU Secretariat, Paris, France, 13-15 November 2014

### Item 1: Approval of the Agenda

The IRDR SC Chair presents the agenda for the 12<sup>th</sup> IRDR SC meeting.

SC members had been invited to comment on the agenda.

The SC Chair invites SC members to work closely, during these three days, with the IPO to make sure they have as much of the relevant information as they need for the upcoming Annual Report 2014.

SC members had been requested prior to the meeting to provide relevant information in their capacities as SC members, ICoE leaders or participants, representatives on related scientific, capacity building and science policy initiatives, as members of National or Regional Committees, etc.

By way of introduction, the SC reminds the meeting of the Terms of Reference for SC members.

#### Attachments:

- 1.1 Practical Arrangements for the 12<sup>th</sup> IRDR SC meeting
- 1.2 Agenda for the 12<sup>th</sup> IRDR SC meeting
- 1.3 List of Participants for the 12<sup>th</sup> IRDR SC meeting
- 1.4 Terms of Reference of the IRDR SC members

#### Action:

- 1.1 The SC is invited to approve the agenda or to request modifications orally.



---

15 October 2014

## **PRACTICAL ARRANGEMENTS**

### **12<sup>th</sup> Meeting of the IRDR Science Committee**

ICSU Secretariat

13 to 15 November 2014

#### **VENUE**

ICSU Secretariat

5 rue Auguste Vacquerie, 75116 Paris, France

**Metros:** Etoile, Kleber (RER A, Metro Lines 1 & 6)

**Metro info:** <http://www.ratp.info/informer/anglais/index.php>

#### **To enter the ICSU building**

Press the following sequence of buttons: 1913

The conference room is up the stairs on the left hand side.

#### **HOTEL**

Best Western Empire Elysees, 3 Rue de Montenotte, 75017 Paris

Telephone: +33 1 5805 4200

Metro: Etoile or Ternes

The hotel is within 10-minutes walking distance of the Secretariat. Click

<http://www.icsu.org/getting-to-icsu>

You will find the list of reservations on page 3. All cancellations must be notified at least 48 hours in advance, failing which we are obliged to pay the hotel for one night. ICSU will settle the hotel directly for the cost of single occupancy with breakfast; all extras should be borne by the participant.

#### **TRAVEL**

ICSU will reimburse the cost of an economy class (most direct route) return ticket for IRDR SC members attending the meeting. Reimbursements will be made upon receipt of the signed Travel Claim form (attached) with copy of travel ticket and relevant expense receipts.

#### **PER DIEMS**

As is our usual practice, a partial per diem for the days of the meeting will be paid together with the travel claim. We will not provide cash except by prior agreement in exceptional cases.

**DOCUMENTS**

The documents for the meeting will be posted on the IRDR web site. Please be sure to either download the documents on your computer or bring a copy with you as no files will be available.

**MEALS**

Lunch will be provided at the Secretariat for the days of the meeting.

A Committee dinner will be held at 19:30 on the evening of Thursday, 13<sup>th</sup> November at La Cave Lanrezac, 3 Rue du Général Lanrezac, 75017 Paris. The restaurant is very close to the hotel. A list of restaurants located in the vicinity of the hotel is attached.

**CONTACT NUMBERS**

Members can use the following telephone and fax numbers in the event that their offices or families need to leave messages for them at the ICSU Secretariat.

Tel: +33 1 4525 0329.

Alcantara-Ayala, Irasema	09-nov	16-nov	S
Benouar, Djillali	09-nov	15-nov	S
Birkmann, Jörn	13-nov	15-nov	S
Bostrom, Anne	12-nov	16-nov	S
Burton, Ian	08-nov	16-nov	S
Cardona, Omar	11-nov	17-nov	D
Charina Cabrido	09-nov	16-nov	S
Cutter, Susan	09-nov	15-nov	S
Feng Qiang (RADI)	13-nov	16-nov	S
Jimenez Dias, Virginia	12-nov	16-nov	S
Johnston, David	12-nov	16-nov	S
Kan, Feng Min	12-nov	16-nov	S
Rudiger Klein	09-nov	16-nov	S
Lang Lang	09-nov	16-nov	S
Lavell, Alan	09-nov	13-nov	S
Lwasa, Shuaib	12-nov	16-nov	S
Morris, Kerry-Ann	09-nov	16-nov	S
Oliver-Smith, Anthony	09-nov	16-nov	S
Pelling, Mark	12-nov	16-nov	S
Takeuchi, Kuni	12-nov	16-nov	S
Zlatanova Sisi	13-nov	15-nov	S

## **Restaurants**

### **[Au Petit Marguery - Rive Droite](#)**

64, avenue des Ternes 75017 Paris

### **[La Cuisinière Lyonnaise](#)**

37, rue Saint-Ferdinand 75017 Paris

### **[La Cave Lanrezac](#)**

3, rue du Général Lanrezac 75017 Paris

### **[Le Ballon des Ternes](#)**

103, avenue des Ternes 75017 Paris

### **[Le Petit Salé](#)**

99, avenue des Ternes 75017 Paris

### **[Chez Gabrielle](#)**

7, rue de l'Etoile 75017 Paris

### **[Chez Georges Paris Porte Maillot](#)**

273 Boulevard Pereire 75017 Paris

### **[Graindorge](#)**

15, rue de l'Arc de Triomphe 75017 Paris


**TRAVEL CLAIM FORM**

Please see regulations on p. 3.  
**Turquoise shaded areas are for ICSU use only.**

**Name of participant:** .....

**Title of meeting:** .....

**Place & dates:**.....

**Email of participant:**.....

**To be submitted no later than 2 months after the meeting (*only one meeting per form, please*).**  
**Payment cannot be made without ORIGINAL receipts or tickets for all expenses claimed.**

I declare that the expenses claimed below are not being reimbursed from any other source.

Signature:.....

Date:.....

**BANK REFERENCES**

**Bank transfer in ..... currency**

**Refund by cheque: (only in Euros)**

Name & address of account holder:.....  
 .....  
 .....  
 .....

Bank, name branch & full address:  
 .....  
 .....  
 .....

IBAN (for European countries only)  
 .....

Swift code/BIC .....	ABA/Routing n° .....	Bank/sort code .....
-------------------------	-------------------------	-------------------------

Account n°.....

TRAVEL EXPENSES									
					Amount	Currency	ICSU use only		
<b>By air:</b> (tourist/economy class airfare using most economical fare available): <b>By rail:</b> <b>(Do not fill in this part if you received a prepaid ticket)</b>									
<input type="checkbox"/> Tick this box if you have not already carbon offset your travel*					*In May 2008 the ICSU Executive Board approved carbon offsetting for ICSU travel. If you have not already offset your travel, the ICSU secretariat will do so, using the "Climate Friendly" company.				
<b>Local transportation</b> (taxi, bus, etc.):									
<b>Other Expenses</b> (please detail):									
<b>By road</b> (indicate how many kms):									
<b>Total amount travel</b>								<b>Currency</b>	
SUBSISTENCE									
<b>Arrival date ... /.../....</b>					<b>Departure date ..../.../....</b>				
<b>Accommodation</b> (fill in only if hotel not paid by sponsor)					Amount paid	Currency	ICSU use only		
							<b>Number of nights:</b>		
<b>Meals not paid by sponsor</b> (please tick for meals you paid yourself):									
Date									
Breakfast*									
Lunch									
Dinner									
Per diem rate %	%	%	%	%	%	%	%	%	%
Amount per day									
<b>Total Amount Subsistence</b>								<b>Currency</b>	
Sundries	€	€	€	€	€	€	€	€	€

\*If not included in hotel bill

**TOTAL CLAIM**  
**Currency**

**Checked by:**

**Travel approved by ICSU staff member:**

**Budget line:**

**Funding source:**



### **ICSU Travel and Subsistence Regulations**

Persons travelling at ICSU's expense may claim advance payment of their travel upon submission of an invoice. Originals of the air tickets must be submitted after the meeting.

#### **TRAVEL EXPENSES:**

Travel is reimbursed at the following rates:

- **Rail:** first class rate with sleeper for overnight trips.
- **Air:** tourist or economy class fare using the most economical fare possible.\*
- **Road:** 50 cents (Euros) per kilometre, if no convenient rail/air connections are available.

While travelling to and from meetings on ICSU business, reimbursement shall be made for a maximum of 10 kilograms excess baggage and for travel and medical insurance upon production of relevant vouchers.

#### **SUBSISTENCE:**

The ICSU per diems are based on the official French Government (MINEFI) per diem rates and are paid to cover living costs whilst travelling on ICSU business. They may be modified, based on the decision of the meeting organizer, taking into consideration special local arrangements.

Per diems cover the nights spent at the meeting. When no overnight stay is involved, actual expenses will be reimbursed on receipt of relevant bills.

For calculation of per diems, when the hotel and/or certain meals are not paid by the participant, deductions will be made according to the following breakdown:

- 50% of per diem for hotel paid by sponsor
- 10% of per diem for breakfast paid by sponsor
- 15% of per diem for lunch paid by sponsor
- 25% of per diem for dinner paid by sponsor

When the hotel and all meals are covered by the sponsors, a payment of 10€per day for meetings outside France and of 25€per day for meetings in France will be made to cover sundry expenses.

ICSU shall reimburse hotel room charges in excess of 50% of the official per diem rate, only when no other, less expensive, hotel is available.

<p style="text-align: center;"><b>Secretariat : ICSU, 5 Rue Auguste Vacquerie 75116 Paris, France</b> <b>Telephone: +33 (0) 1 45 25 03 29 – Fax: +33 (0) 42 88 94 31</b> <b>Email: <a href="mailto:secretariat@icsu.org">secretariat@icsu.org</a></b></p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



**12<sup>th</sup> Meeting of the IRDR Science Committee  
ICSU Secretariat, Paris, France, 13-15 November 2014**

**AGENDA (DRAFT 1)**

<b>DAY I – THURSDAY, 13 NOVEMBER 2014</b>		
<b>MORNING: IRDR WORKING GROUPS REVIEW AND PLANNING MEETINGS</b>		
9:00 – 12:30	1. Approval of the Agenda  2. Approval of 11 <sup>th</sup> SC meeting report (Doc <ul style="list-style-type: none"> <li>• Review of actions taken</li> </ul>	SC Chair  SC Chair / JSO
	3. IRDR Working Groups planning meeting (preceded by briefing on budgetary situation) <ul style="list-style-type: none"> <li>• DATA</li> <li>• FORIN</li> <li>• RIA</li> </ul> <i>N.B.:</i> AIRDR to be discussed during Day 3	Cutter / Ehrlich / Zlatanova Oliver-Smith / Alcántara-Ayala Pelling / Bostrom  <i>N.B.:</i> additional SC Members invited to join
12:30- 13:30	<b>L U N C H   B R E A K</b>	
<b>DAY I – THURSDAY, 13 NOVEMBER 2014</b>		
<b>AFTERNOON: IRDR NETWORKING AND PARTNERSHIP MEETING</b>		
15:00- 15:30	<b>C O F F E E   B R E A K</b>	
13:30 – 18:00	4. Networking and Partnership Session  Introduction: Policy context: HFA2 process and preparing for 3 <sup>rd</sup> WCDRR, incl. presentations by: <ul style="list-style-type: none"> <li>• UNISDR (10)</li> <li>• ICSU (incl. synthesis process as part of the ICSU commitment; 10)</li> </ul> Partners Major Group Science & Technology <ul style="list-style-type: none"> <li>• Science Council Japan / IRDR Japan (10)</li> <li>• UKCDS / ODI (10)</li> </ul> IRDR in 2014 (for the benefit of guests): <ul style="list-style-type: none"> <li>• Objectives and outcomes of projects (10)</li> <li>• IRDR Network:               <ul style="list-style-type: none"> <li>○ ICoEs / Associated Projects (5 total)</li> <li>○ National Committees (5 total)</li> </ul> </li> </ul>	UNISDR/ICSU/ SC Chair/ED   SC Chair/Co-Chairs/Delegates Delegates   SC Chair/ED   Delegates/SC Members/ED

	<ul style="list-style-type: none"> <li>○ Regions (ICSU ROs, UNISDR ROs) (5 total)</li> </ul> <p>Partnerships:</p> <ul style="list-style-type: none"> <li>● Presentations from EU / STAG / UNDP / UNEP / UNESCO / UNU / WMO</li> <li>● Non-governmental stakeholders (incl. NGOs, civil society, business and industry. municipalities)</li> </ul> <p>Follow-up:</p> <ul style="list-style-type: none"> <li>● IRDR Consultative Forum: principles</li> </ul>	<p>SC Chair / ED / Delegates</p> <p>(Discussion)</p>
19:30	<b>GROUP DINNER</b> (See practical arrangements (Doc. 1.1 for details))	

<b>DAY 2 – FRIDAY, 14 NOVEMBER</b> <b>IRDR SC BUSINESS MEETING</b>		
9:00 – 12:30	<p>5. Report from NC Workshop (reviews / previews from NC's as requested)</p> <p>6. Reports / previews from ICoEs:</p> <ul style="list-style-type: none"> <li>● IRDR ICoE-Taipei</li> <li>● ICoE VaRM</li> <li>● ICoE-CR</li> <li>● ICoE-UR&amp;S</li> <li>● ICoE-REaL</li> </ul> <p>Previews of plans for ICoEs:</p> <ul style="list-style-type: none"> <li>- Germany</li> <li>- UK</li> <li>- Canada</li> </ul> <p>7. Review of activities and ToRs:</p> <ul style="list-style-type: none"> <li>● ICoEs (implementation)</li> <li>● NCs and RCs (ToR)</li> <li>● Affiliated Projects / Programmes (ToR)</li> </ul> <p>8. Towards an IRDR Communication Plan</p>	<p>SC Chair / Delegates / ED</p> <p>Liu Cutter Johnston Cardona Holloway</p> <p>Birkman Pelling (tbc)</p> <p>Task Group / ED</p> <p>CO / ED</p>
12:30-13:30	<b>LUNCH BREAK</b>	
13:30 – 18:00	<p>9. Reports / previews from Co-Sponsors</p> <ul style="list-style-type: none"> <li>● ICSU           <ul style="list-style-type: none"> <li>- FE Global Secretariat &amp; developments</li> <li>- ICSU Grant Scheme</li> </ul> </li> <li>● ISSC (incl. WSSF/R)</li> <li>● UNISDR (incl. preview on WCDRR)</li> </ul>	<p>SC Ex-Officio Members</p>



	16. Next SC meeting	SC Chair / ED
	17. Any Other Business	SC Chair
12:30 – 13:30	<b>L U N C H</b>	
13:30 – 14:30	18. De-briefing / organising follow-up	SC Chair / IPO
<b>E N D O F 1 2 <sup>t h</sup> S C M E E T I N G</b>		

DRAFT



**12<sup>th</sup> Meeting of the IRDR Science Committee (SC)**  
**ICSU Secretariat, Paris, France, 13-15 November 2014**

**LIST OF PARTICIPANTS**

**SC Members**

**Irasema Alcántara-Ayala (Vice-Chair)**

Professor, Institute of Geography  
 National Autonomous University of  
 Mexico (UNAM), Circuito Exterior,  
 Ciudad Universitaria  
 Coyoacan, 04510 México  
 D.F., México  
 Tel.: (+52 56) 22 43 35  
 Fax: (+52 56) 16 21 45  
 Email: [irasema@igg.unam.mx](mailto:irasema@igg.unam.mx)

**Djillali Benouar**

University of Bab Ezzouar (USTHB)  
 FGC/ Built Environment Res. Lab. (LBE)  
 BP 32 El-Alia, Bab Ezzouar  
 Alger 16111  
 Algeria  
 Tel.: (+21 3) 21 247 914  
 Fax: (+21 3) 21 247 914  
 Mobile: (+21 3) 771 842 428  
 Email: [dbenouar@gmail.com](mailto:dbenouar@gmail.com);  
[dbenouar@usthb.dz](mailto:dbenouar@usthb.dz)

**Jörn Birkmann**

Head of Section  
 Vulnerability Assessment, Risk  
 Management and Adaptive Planning  
 Academic Officer  
 United Nations University Institute for  
 Environment and Human Security (UNU-  
 EHS)  
 UN Campus  
 Hermann-Ehlers-Str. 10  
 53113 Bonn, Germany  
 Tel + 49-228-815-0208

Fax + 49-228-815-0299

Email: [birkmann@ehs.unu.edu](mailto:birkmann@ehs.unu.edu)

**Ann Bostrom**

President, Society for Risk Analysis  
 Professor, Daniel J. Evans School of  
 Public Affairs  
 University of Washington  
 327 Parrington Hall, Box 353055, Seattle  
 Washington 98195-3055  
 USA  
 Tel.: (+1 206) 685 8198  
 Fax: (+1 206) 685 9044  
 Email: [abostrom@uw.edu](mailto:abostrom@uw.edu)

**Sálvano Briceño**

Former UNISDR Director  
 171 rue d'Arbere  
 F-01220 Divonne-les-Bains  
 France  
 Tel: (+33) 674576990  
 Email: [salvanob@gmail.com](mailto:salvanob@gmail.com)

**Omar Darío Cardona**

Professor of Integrated Disaster Risk  
 Management  
 Institute of Environmental Studies,  
 National University of Colombia  
 Manizales  
 Colombia  
 Tel.: (+57) 1530 0761  
 Fax: (+57) 1530 0827  
 Mobile: (+57) 310 2316 444  
 Email: [odcardonaa@unal.edu.co](mailto:odcardonaa@unal.edu.co);  
[odcardona@hotmail.com](mailto:odcardona@hotmail.com)

**Susan L. Cutter (Vice-Chair)**

Carolina Distinguished Professor  
 Director, Hazards & Vulnerability  
 Research Institute  
 University of South Carolina  
 Columbia, SC 29208  
 USA  
 Tel: (+1 803) 777 1590  
 Fax: (+1 803) 777 4972  
 Email: [scutter@sc.edu](mailto:scutter@sc.edu)

**S.H.M. Fakhruddin**

System Designer, CIFDP, WMO &  
 Infrastructure Climate Risk Expert, UNDP  
 1st Fl. Outreach Bldg., Asian Institute of  
 Technology Campus  
 58 Moo 9 Paholyothin Road, Klong Nung,  
 (P.O. Box 4), Klong Luang, Pathumthani  
 12120, Thailand  
 Tel.: (+66 2 516) 5900 to 01  
 Fax: (+66 2 516) 5902  
 Mobile: (+66) 879929694  
 Email: [smfwater@gmail.com](mailto:smfwater@gmail.com)

**Virginia Jiménez Díaz**

Researcher at the Centro de Investigación  
 en Gestión de Riesgos (Research Center  
 for Risk Management) CIGIR  
 Av. 3 entre Calles 21 y 22  
 Edf. General Dávila. Oficina 13, Mérida.  
 5101  
 Mérida  
 Venezuela  
 Tel.: +58.212.8157382  
 Mobile: +58.414.3307719  
 Email: [virginiaj20@yahoo.com](mailto:virginiaj20@yahoo.com);  
[virginiaj20@gmail.com](mailto:virginiaj20@gmail.com)

**David Johnston (Chair)**

Director, Joint Centre for Disaster  
 Research  
 School of Psychology, Massey University  
 GNS Science, PO Box 30368  
 Lower Hutt  
 New Zealand  
 Tel.: (+64 4) 570 1444  
 Fax: (+64 4) 570 4679  
 Email: [david.johnston@gns.cri.nz](mailto:david.johnston@gns.cri.nz)

**Shuaib Lwasa**

Department of Geography, Geoinformatics  
 and Climatic Sciences  
 School of Forestry, Environmental and  
 Geographical Sciences  
 College of Agricultural and Environmental  
 Sciences (CAES)  
 P.O Box 7062, Kampala  
 University Road, Former Arts Building,  
 Ground Floor, Room 12  
 Tel. O: (+256 0) 772461727  
 Tel. H: (+256 0414) 596619  
 Email: [lwasa\\_s@arts.mak.ac.ug](mailto:lwasa_s@arts.mak.ac.ug);  
[shuaiblwasa@gmail.com](mailto:shuaiblwasa@gmail.com)

**Anthony Oliver-Smith**

Department of Anthropology  
 1112 Turlington Hall  
 University of Florida  
 Gainesville, Florida 32611  
 USA  
 Tel.: (+1 352) 377 8359  
 Fax: (+ 1 352) 392 6929  
 Email: [aros@ufl.edu](mailto:aros@ufl.edu)

**Mark Pelling**

Professor in Human Geography  
 Department of Geography  
 King's College London  
 London,  
 UK  
 Tel.: (+44 207) 848 2462  
 Fax: (+44 207) 848 2287  
 Email: [mark.pelling@kcl.ac.uk](mailto:mark.pelling@kcl.ac.uk)

**Kuniyoshi Takeuchi (Vice-Chair)**

Director, Int. Centre for Water Hazard and  
 Risk Management (ICHARM)  
 Minamihara 1-6  
 Tsukuba 305  
 Japan  
 Tel.: (+81 2) 9879 0854  
 Fax: (+81 2) 9879 6709  
 Email: [kuni.t@pwri.go.jp](mailto:kuni.t@pwri.go.jp)

**Sisi Zlatanova**

Associate Professor, GIS Technology  
 OTB Research Institute for the Built  
 Environment  
 Delft University of Technology  
 Jaffalaan 9, 2628 BX, Delft  
 The Netherlands  
 Tel.: (+31 1) 52782714  
 Fax: (+31 1) 52784422  
 Email: [s.zlatanova@tudelft.nl](mailto:s.zlatanova@tudelft.nl)

**Julie Calkins**

DRR Research Consultant  
 UK Collaborative on Development  
 Sciences (UKCDS)  
 c/o The Wellcome Trust  
 Gibbs Building  
 215 Euston Road  
 London NW1 2BE  
 Telephone: +44 (0)20 7611 8349  
 Mobile: +44 (0)771 092 0156  
 Email: [j.calkins@ukcds.org.uk](mailto:j.calkins@ukcds.org.uk)

**Ex-Officio Members****Feng Min Kan**

Head, UN International Strategy for  
 Disaster Reduction (UNISDR) Regional  
 Office for Asia and the Pacific  
 UN Building  
 Rajdamnern Nok Avenue  
 Bangkok 10200  
 10200  
 Bangkok, Thailand  
 Tel.: +66 022882894  
 Email: [kanf@un.org](mailto:kanf@un.org)

**Nanette Lomarda**

Senior Scientific Officer  
 World Weather Research Division  
 Research Department  
 World Meteorological Organization  
 7 bis, avenue de la Paix  
 Case postale No. 2300,  
 CH 1211 Genève 2  
 Switzerland  
 Tel.: (+41) 22 730 83 84  
 Fax: (+41) 22 730 80 49  
 Email: [nlomarda@wmo.int](mailto:nlomarda@wmo.int)

**Vivi Stavrou**

Senior Executive Manager  
 International Social Science Council  
 (ISSC)  
 UNESCO House  
 1, rue Miollis  
 75732 Paris Cedex 15  
 France  
 Tel.: (+33 1) 45 68 44 42  
 Email: [vivi@worldsocialscience.org](mailto:vivi@worldsocialscience.org)

**Qiang Feng (representing Huadong Guo)**

IRDR China  
 Institute of Remote Sensing and Digital  
 Earth (RADI) Chinese Academy of  
 Sciences (CAS)  
 No. 9 Dengzhuang South Rd  
 Haidian District, Beijing 100094  
 China  
 Tel.: (+86 10) 8217 8127  
 Email: [qfeng@ceode.ac.cn](mailto:qfeng@ceode.ac.cn)

**Invited Guests****Maureen Brennan**

Administrative Officer, ICSU  
 5 rue Auguste Vacquerie  
 75116 Paris, France  
 Tel. +33 1 45 25 06 77  
 Fax. +33 1 42 88 94 31  
 Email: [maureen@icsu.org](mailto:maureen@icsu.org)

**Peter Liss**

Interim Executive Director  
 International Council for Science (ICSU)  
 5, rue Auguste Vacquerie  
 75116 Paris  
 France  
 Tel.:  
 Fax: +33 1 42 88 94 31  
 Email: [peter.liss@icsu.org](mailto:peter.liss@icsu.org)



**Tony Liu**

Visiting Senior Research Fellow  
 Center for Sustainability Science  
 Academy of Sciences located in Taipei,  
 China  
 128 Academia Road, Section 2, Nankang  
 Taipei 11529  
 Taiwan, ROC  
 Tel.: (+886 2) 2787 2536  
 Fax: (+886 2) 2787 2537  
 Email: [tonyliu22066@gmail.com](mailto:tonyliu22066@gmail.com)

**Shih-Chun Candice Lung**

Research Fellow  
 Research Center for Environmental  
 Changes  
 Academy of Sciences located in Taipei,  
 China  
 Room 1114, South Building of the  
 Humanity and Social Sciences  
 Tel: (02)2653-9885 ext : 277  
 Fax: (02)2783-3584  
 E-mail: [sclung@rcec.sinica.edu.tw](mailto:sclung@rcec.sinica.edu.tw)

**Alexandros Makarigakis**

Programme Specialist  
 SC/EES/EGR  
 Section on Earth Sciences and Geo-  
 Hazards Risk Reduction  
 Natural Sciences Sector  
 United Nations Educational, Scientific and  
 Cultural Organization (UNESCO)  
 7, place de Fontenoy  
 F-75352 Paris 07 SP  
 Tel.: +33 (0) 1 45 68 41 78  
 Mob: +33 (0) 69 59 05 937  
 Email: [a.makarigakis@unesco.org](mailto:a.makarigakis@unesco.org)

**Virginia Murray**

Vice-Chair  
 UNISDR Scientific and Technical  
 Advisory Group (STAG)  
 Consultant in Global Disaster Risk  
 Reduction  
 Public Health England (PHE)  
 Wellington House  
 135-155 Waterloo Road  
 London SE1 8UG

Tel: +44 (0) 207 811 7142  
 Mobile: +44 (0) 797 0747 849  
 Email: [virginia.murray@phe.gov.uk](mailto:virginia.murray@phe.gov.uk).

**Marcus C. Oxley**

Executive Director  
 Global Network for Disaster Reducation  
 8 Waldegrave Road, Teddington,  
 Middlesex  
 TW11 8HT  
 United Kingdom  
 Direct + 44 (0) 208 977 7726  
 Mobile + 44 (0)7968 186735  
 Email: [marcus.oxley@globalnetwork-dr.org](mailto:marcus.oxley@globalnetwork-dr.org)

**Anne-Sophie Stevance**

Science Officer  
 International Council for Science (ICSU)  
 5, rue Auguste Vacquerie  
 75116 Paris  
 France  
 Tel.: +33 1 45 25 67 04  
 Fax: +33 1 42 88 94 31  
 Email: [anne-sophie.stevance@icsu.org](mailto:anne-sophie.stevance@icsu.org)

**Ms. Johanna Suikkanen**

Programme Officer (Cleaner and Safer  
 Production)  
 United Nations Environment Programme  
 Division of Technology, Industry and  
 Economics (UNEP-DTIE)  
 Sustainable Consumption & Production  
 Branch  
 Business & Industry Unit  
 15 Rue de Milan, 75009 Paris  
 Tel.: +33 (0)1 44 37 19 84  
 Email: [johanna.suikkanen@unep.org](mailto:johanna.suikkanen@unep.org)

**IRDR IPO****Charina Cabrido**

Communications Officer  
Integrated Research on Disaster Risk IPO  
c/o RADI/CAS, B713, No. 9 Dengzhuang  
South Road, Haidian District  
Beijing 100094  
China  
Tel.: (+86 10) 8217 8917 (direct)  
Fax: (+86 10) 8217 8913  
Email:  
[charina.cabrido@irdrinternational.org](mailto:charina.cabrido@irdrinternational.org)

**Rüdiger Klein**

Executive Director  
Integrated Research on Disaster Risk IPO  
c/o RADI/CAS, B713, No. 9 Dengzhuang  
South Road, Haidian District  
Beijing 100094  
China  
Tel.: (+86 10) 8217 8905 (direct)  
Mobile: (+86 10) 183 1021 6362  
Fax: (+86 10) 8217 8913  
Email: [rudiger.klein@irdrinternational.org](mailto:rudiger.klein@irdrinternational.org)

**Lang Lang**

Administrative Officer  
Integrated Research on Disaster Risk IPO  
c/o RADI/CAS, B713, No. 9 Dengzhuang  
South Road, Haidian District  
Beijing 100094  
China  
Tel.: (+86 10) 8217 8917 (direct)  
Fax: (+86 10) 8217 8913  
Email: [lang.lang@irdrinternational.org](mailto:lang.lang@irdrinternational.org)

**Kerry-Ann Morris**

Junior Science Officer  
Integrated Research on Disaster Risk IPO  
c/o RADI/CAS, B713, No. 9 Dengzhuang  
South Road, Haidian District  
Beijing 100094  
China  
Tel.: (+86 10) 8217 8913  
Fax: (+86 10) 8217 8913  
Email: [kerry-ann.morris@irdrinternational.org](mailto:kerry-ann.morris@irdrinternational.org)

**Terms of Reference (ToR)**  
**of the Scientific Committee of the Research Programme**  
**‘Integrated Research on Disaster Risk - addressing the challenge of natural and human-induced environmental hazards’**

On the basis of the report “A Science Plan for Integrated Research on Disaster Risk: addressing the challenge of natural and human-induced environmental hazards” developed by the ICSU Planning Group on Natural and Human-induced Environmental Hazards and Disasters, it has been decided to establish a ten-year, internationally integrated, multidisciplinary, all-hazards research programme, whose objectives are the scientific characterization of natural and human-induced hazards, vulnerability and risk; understanding decision-making in complex and changing risk contexts; and reducing risk and curbing losses through knowledge-based actions. The programme is founded on the recognition that disaster prevention and mitigation are critical dimensions of the global poverty reduction agenda, and an integral part of development efforts.

The Scientific Committee of the Integrated Research on Disaster Risk Programme (SC-IRDR) is appointed jointly by the International Council for Science (ICSU) and the International Social Science Council (ISSC). Members are normally appointed for a period of three years, renewable once.

The SC-IRDR shall consist of a Chair, a Vice-Chair and no more than ten/twelve additional members, serving in their personal capacity and appointed on the basis of their standing in the international scientific community and their commitment to the strategic objectives of the Programme. The membership of the Committee shall also aim to include, as far as possible, a balanced representation of relevant disciplines in the natural, social and engineering sciences, with due regard given to regional and gender balance. The Chair, Vice-Chair and ordinary members of the SC-IRDR will be selected by mutual agreement between ICSU and ISSC and appointed jointly by the two organizations. In addition, each sponsor will appoint an *ex officio* member. The Chair may invite additional persons to attend sessions for specific agenda items as necessary.

The SC-IRDR may establish and convene working groups, whose membership shall be decided upon by the Committee.

**ICSU Secretariat**

5 rue Auguste Vacquerie, 75116 Paris, France

Tel: +33 (0) 1 45 25 03 29, Fax: +33 (0) 1 42 88 94 31, E-mail: [secretariat@icsu.org](mailto:secretariat@icsu.org), [www.icsu.org](http://www.icsu.org)

Prof. Deliang Chen, Executive Director

**ISSC Secretariat**

UNESCO House, 1 rue Miollis, 75732 Paris Cedex 15, France

Tel: +33 (0) 1 45 68 48 60, Fax: +33 (0) 1 45 66 76 03, E-mail: [issc@unesco.org](mailto:issc@unesco.org), [www.unesco.org/nqo/issc/1\\_about/1\\_introduction.htm](http://www.unesco.org/nqo/issc/1_about/1_introduction.htm)

Dr. Heide Hackmann, Secretary-General

In performing its functions, the SC-IRDR shall be supported by an International Programme Office.

The Committee shall work closely with all relevant national and international organizations actively engaged in disaster risk assessment and mitigation. In particular, the Programme shall interact with members of the ICSU and ISSC families, as appropriate.

The SC-IRDR shall meet at least twice a year.

The specific tasks of the SC-IRDR are:

- (a) To further define the inter-disciplinary scientific strategy and determine its specific objectives and priorities; this will involve, through an extensive consultation process, the continued identification and exploration of the major programmes and projects that exist in the field of natural and human-induced hazards and disasters and, where appropriate, the conclusion of agreements as to how they might become components of IRDR.
- (b) To develop, and keep under continuous review, an implementation plan for the Programme in close consultation with potential research partners, and to ensure that the plan develops in such a way as to make optimal use of available resources;
- (c) To establish and implement a mechanism for the design, guidance, development and oversight of the Programme;
- (d) To facilitate the exchange of information among the scientists participating in the Programme and the natural and human-induced hazards and disaster community in general, as well as relevant scientific institutions and agencies at the national and international levels;
- (e) To promote the goal and objectives of the Programme, its deliberations and achievements through development of capacity building and outreach programmes in order to attract and form a new generation of individuals at all levels that can address natural and human-induced hazard and disaster issues, and to capture the interest of the general public and decision-makers in the importance of risk reduction for human well-being and sustainable development;
- (f) To work with appropriate organizations, including the Global Terrestrial and Ocean Observing Systems (GTOS and GOOS) and the Group on Earth Observations (GEO) of the Global Earth Observation System of Systems (GEOSS) to ensure the development of sustained monitoring and enable continuous observations relating to natural and human-induced hazards;
- (g) To convene sessions of an Open Consultative Forum to which all stakeholders will be invited. The Forum will serve as a consultative process for expressions of views on the Programme development, as a platform for dialogue among the various stakeholders and as a venue for exchange of information on Programme implementation. The Forum shall be convened at least once per year, preferably in conjunction with a major international disaster and risk event;

- (h) To raise additional funds for the planning and coordination activities, including activities of any working groups that the SC-IRDR may wish to set up, and to assist in convincing national and international funding bodies to fully support the research activities of the Programme; and
- (i) To provide oversight and guidance to the activities of the International Programme Office of IRDR.

The SC-IRDR shall report annually to the Executive Board of ICSU and the Executive Committee of ISSC on programme organization and implementation, and to the executive heads of both organizations following each of the Committee's meetings.

*Approved by the ICSU Executive Board at its 99th Meeting, 25 October 2008,  
Maputo, Mozambique  
and the ISSC 27th General Assembly, 26 November 2008, Cape Town, South Africa*



---

**12<sup>th</sup> Meeting of the IRDR Science Committee  
ICSU Secretariat, Paris, France, 13-15 November 2014**

**Item 2: Approval of 11<sup>th</sup> SC Meeting Report**

**Item 2.1: Approval of report of the 11<sup>th</sup> SC meeting**

The IRDR SC Chair presents the draft report of the 11<sup>th</sup> SC meeting.

The draft report of the 11<sup>th</sup> SC meeting had been circulated some time prior to the meeting. The delay in circulating the report was due to a number of logistical problems at the IPO.

In proposing a new format for the presentation of the meeting agenda (coversheets; proposed decisions) it is expected that future meeting reports can be issued more rapidly after the event.

SC members had been invited to comment on the report. No written comments had been received by the time of publication.

**Item 2.2: Review of actions decided on at the 11<sup>th</sup> SC meeting**

The IRDR SC Chair invites JSO Kerry-Ann Morris to give an overview of actions decided at the 11<sup>th</sup> SC meeting and contained in the meeting report referring for details, as appropriate, to agenda items for this meeting.

**Attachments:**

2.1 Draft Meeting Report of the 11<sup>th</sup> IRDR SC meeting

2.2 Overview over actions decided on at the 11<sup>th</sup> IRDR SC meeting

**Actions:**

2.1.1. The SC is invited to approve the meeting report or to request modifications orally.

2.2.1. The SC is invited to comment on the overview of actions taken.



# **Report of 11<sup>th</sup> Meeting of the IRDR Science Committee (SC)**

---

**Beijing, China  
6, 10-11 June 2014**

## Contents

<b>1. Organisation of Meeting and other Administrative Matters .....</b>	<b>2-4</b>
• Date and Place of the Meeting	
• Documentation	
• Attendance	
• Adoption of the Agenda	
• Report of the 10 <sup>th</sup> SC Meeting	
• Introduction of Newly Appointed IPO Executive Director	
• SC Membership	
• SC Executive	
• Date and Venue of 12 <sup>th</sup> SC Meeting	
<b>2. Co-Sponsors' and Host Updates .....</b>	<b>4-7</b>
• International Council for Science (ICSU)	
• International Social Science Council (ISSC)	
• United Nations International Strategy for Disaster Reduction (UNISDR)	
• Institute of Remote Sensing and Digital Earth (RADI)	
<b>3. International Programme Office (IPO) Updates .....</b>	<b>8-9</b>
• IPO Management and Staffing	
• IRDR Conference 2014	
<b>4. Project Updates .....</b>	<b>9-13</b>
• AIRDR	
• DATA	
• FORIN	
• RIA	
• Results of Projects' Breakout Sessions	
• Formalising Projects' Working Group Memberships	
• Affiliated Projects	
<b>5. IRDR International Centres of Excellence (ICoEs) and National Committees (NCs) Updates .....</b>	<b>13-18</b>
• Reports from Current IRDR ICoEs	
• Proposed IRDR ICoEs	
• Reports from Current IRDR NCs	
• Proposed IRDR NCs	
<b>6. Network Building .....</b>	<b>19-20</b>
• Integration with Co-Sponsors' Programmes	
• Integration with other International Initiatives	
<b>Annexes .....</b>	<b>20-23</b>
• Annex 1: Meeting Documents and PowerPoint Presentations	
• Annex 2: Summary of Action Items from 11 <sup>th</sup> SC Meeting	



## 1. Organisation of Meeting and other Administrative Matters

### Date and Place of the Meeting

The 11<sup>th</sup> meeting of the IRDR Science Committee (SC) was held on 6 and 10 to 11 June 2014, in Beijing, China at the Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS). The meeting coincided with the second IRDR Conference, held at the Beijing International Convention Center (BICC) from 7 to 9 June 2014.

### Documentation

The full set of documents prepared for and tabled during the SC meeting, as well as the presentations given during the meeting, are listed in annex 1 and available for download from the SC Members' page on the IRDR website, <http://www.irdrinternational.org/sc-members-zone/>.

### Attendance

- **Members:** Irasema Alcántara-Ayala; Sálvano Briceño (Vice-Chair); Djillali Benouar; Ann Bostrom; Omar Darío Cardona; Susan Cutter (Vice-Chair); S.H.M. Fakhruddin; Ferruccio Ferrigni; Virginia Jiménez Díaz; David Johnston (Chair); Shuaib Lwasa; Anthony Oliver-Smith; Mark Pelling; Kuniyoshi Takeuchi (Vice-Chair); and Sisi Zlatanova.
- **Ex officio:** Huadong Guo (RADI); Feng Min Kan (UNISDR); Howard Moore (ICSU); and Vivi Stavrou (ISSC).
- **IRDR IPO:** Charina Cabrido; Lang Lang; Fang Min; Kerry-Ann Morris; Yijie Zhao.
- **Invited guests:** Samuel Ayonghe (delegate from the ICSU Regional Office for Africa); Maureen Brennan (ICSU Secretariat, Paris); Mingmei Chen (RADI); Daniele Ehrlich (EU JRC, DATA Project Co-Chair); Qiang Feng (IRDR China); Emma Hudson-Doyle (RIA ISSC Fellow, IRDR ICoE-CR); Rüdiger Klein (incoming IRDR Executive Director, from 1 July 2014); Jie Liu (RADI); Tony Liu (IRDR ICoE-Taipei); Robyn Pharoah (Periperi U Consortium); Jane Rovins (IRDR Conference Consultant); and Kenichi Tsukahara (IRDR Japan).

A number of researchers from China joined the meeting on 11 June for the discussions and three breakout sessions for DATA, FORIN and RIA held on 11 June 2014: Fang Chen (RADI); Xiaotao Cheng (China Institute of Water Resources and Hydropower Research); Jie Gao (China Earthquake Disaster Prevention Center); Pan Gao (Dalian University of Technology); Gensuo Jia (Institute of Atmospheric Physics, CAS); Huicong Jia (RADI); Bin Li (RADI); Kuo Li (Institute of Environment and Sustainable Development in Agriculture, Chinese Academy of Agricultural Sciences (CAAS)); Qin Li (Dalian University of Technology); Haitao Liu (Institute of Ethnology and Anthropology, Chinese Academy of Social Sciences (CASS)); Jiuliang Liu (RADI); Zhenye Liu (Academy of Sciences, located in Taipei, China); Yonglong Lu (Research Center for Eco-Environmental Sciences, CAS); Huixin Meng (Institute of Urban Environment, CAS); Guocheng Qu (National Earthquake Response Support Service); Jusong Shi (China Geological Survey); Zhongfu Sun (Institute of Environment and

Sustainable Development in Agriculture, CAAS); Xiaoqing Wang (Institute of Earthquake Science China Earthquake Administration); Yinlong Xu (CAAS); Hongyue Zhang (RADI); Wanchang Zhnag (RADI); and Yan Zheng (Institute of Urban Environment, CAS).

### **Adoption of the Agenda**

The agenda was adopted without revisions.

### **Report of the 10<sup>th</sup> SC Meeting**

The SC Members had previously provided comments on earlier drafts of the 10<sup>th</sup> SC meeting report (Doc11/2.1). The action items from the report were reviewed, and the responsible parties for each item provided status updates. There being no other comments, the report of the 10<sup>th</sup> SC meeting was approved without change.

### **Introduction of Newly Appointed IRDR Executive Director**

Moore announced the appointment of Klein as IRDR's new Executive Director, effective 1 July 2014, and briefly presented his background and previous roles. Upon request of the Co-Sponsors, Klein accepted the invitation to attend, as a guest, both the SC meeting and Conference. The signing of the employment contract between RADI and Klein took place during the SC meeting.

### **SC Membership**

Speaking on behalf of the three Co-Sponsors, Moore advised the meeting that three members, Ferrigni, Pelling and Oliver-Smith, will complete their first terms on the SC at the end of June 2014. The Co-Sponsors were in discussions about the possible renewal of their appointments, and the members concerned will be notified of their decision.

In June 2015, four SC members, Cutter, Johnston, Takeuchi and Cardona, will come to the end of their second three-year terms. Their memberships cannot be renewed. Three of them are also SC Executive members.

Moore reported that ISSC had requested that the gender balance of the Committee be proactively addressed for upcoming replacements.

### **SC Executive**

In order to smoothen the re-composition of the SC Executive in 2015, the following gradual transition is envisaged:

- Briceño agreed to stay on the SC but to step down as Vice-Chair with immediate effect and be replaced by Alcántara-Ayala.
- On 31 December 2014, Cutter will step down as Vice-Chair, staying on as an SC Ordinary member until her second and last term, which will end on 30 June 2015. She will be replaced by Lwasa as Vice-Chair on 31 December 2014.

As of 11 June 2014 the SC Executive will comprise:

- Chair: Johnston
- Vice-Chairs: Alcántara-Ayala; Cutter; Takeuchi

As of 1 January 2015, the SC Executive will comprise:

- Chair: Johnston
- Vice-Chairs: Alcántara-Ayala; Lwasa; Takeuchi

From 1 July 2015, two new SC members will join the SC Executive.

### **Date and Venue of 12<sup>th</sup> SC Meeting**

The Committee agreed that the 12<sup>th</sup> SC meeting will be held from 13 to 15 November 2014, at the ICSU Secretariat in Paris, France. The meeting will be conducted for two and a half days: day one (13 November) will be dedicated to networking and partnership building; and day two and half of day three (14 and 15 November) will be dedicated to SC business.

### **DECISIONS**

- 1.1 Update and publish the SC members list (showing gender, nationality, affiliations, areas of specialisation, roles in the IRDR programme, and their terms and exit times. **(Lead: IPO)**)

---

## **2. Co-Sponsors' and Host Updates**

### **International Council for Science (ICSU)**

Moore provided the meeting with updates on:

- **31<sup>st</sup> General Assembly (GA):** the GA will be held in Auckland, New Zealand, from 30 August to 3 September 2014. ICSU's Committee on Scientific Planning and Review (CSPR) will deliver a report, which will also include updates on IRDR. IRDR will have a poster session and a short programme presentation to the plenary. Johnston and Klein will attend on behalf of IRDR, thus taking advantage of the opportunity to network and interact with other ICSU programmes and national members and international scientific union members. IRDR's Co-Sponsors will also make presentations at the GA (UNISDR: Margareta Wählstrom; ISSC: Heide Hackmann). As of the 31<sup>st</sup> GA, ICSU's new president will be Gordon McBean, the founding Chair of the IRDR SC.
- **Future Earth (FE):** a brief summary was given of recent FE developments. Its global secretariat will be distributed among five hubs the location of which was yet to be decided on.

Moore described the purpose of FE's Engagement Committee, which focuses on involving non-academic stakeholders and also advises on outreach activities and capacity-building, thus leaving the Science Committee to focus on science.

Pelling suggested exploring a structural planning approach by which engagement for IRDR is along similar lines. The SC was reminded that the Science Plan already foresees the establishment of a Consultative Forum that would assemble a wide range of non-academic stakeholders in DRR science and that could fulfil this function, thereby facilitating closer links to implementation. At national and regional levels, the IRDR National Committees (NCs) and ICSU's regional offices (ROs), as well as the programme's International Centres of Excellence (ICoEs), are under-utilised resources that can be employed as platforms to engage with relevant stakeholders.

Johnston reported that he had agreed with FE's Science Committee Chair, Mark Stafford-Smith, to establish regular exchanges at the level of SC Chairs and Executive Directors. Such exchanges should focus on concrete activities and aim at exploiting the potential for synergies and avoiding duplications. Johnston noted that Stafford-Smith had been invited to the SC meeting, but was unable to attend, whereas FE's Executive Director, Frans Berkhout, attended the IRDR Conference banquet on 7 June.

- **Evaluation of the IRDR Programme:** Moore advised that ICSU is obligated to evaluate its interdisciplinary programmes, and provided a brief description of how such an evaluation will be undertaken. The evaluation of the IRDR programme will begin in mid-2015.

Johnston informed the meeting that Moore will retire from his role at ICSU in September 2014 and that the 11<sup>th</sup> SC meeting will be his final formal engagement with the IRDR SC. The SC thanked Moore for his support of the programme before and since its inception, and wished him well in his retirement. Moore reflected on his involvement with the programme and wished the Committee continued success in attaining the mission of the IRDR programme.

### **International Social Science Council (ISSC)**

Stavrou provided the meeting with updates on:

- **World Social Science Forum (WSSF):** the third WSSF will take place from 13 to 16 September 2015, in Durban, South Africa under the theme "Transforming Global Relations for a Just World." She invited IRDR to become involved in sessions, but it was also noted that there would be few if any resources available to support IRDR activities during the meeting.
- **World Social Science Report:** the 2016 edition of the Report will be published under the topic "inequality and justice." IRDR was invited to contribute to the Report, as had been the case for the 2013 report.
- **World Social Science Fellows (WSSF) programme:** this capacity building programme enables 20 competitively selected early career scientists participating in thematic seminars with senior scientists and others. Next to seminars on "Sustainable Urbanisation" and "Transformations to Sustainability in Urban Contexts," a seminar on

“Risk Interpretation and Action,” a collaboration with IRDR’s core project RIA, IRDR ICoE-Taipei, START International, as well as Massey University, Canterbury University, and the Royal Society in New Zealand, was held in December 2013. From this seminar six collaborative research projects were developed by the Fellows, out of which four received seed funding from IRDR ICoE-Taipei. Ten Fellows were funded to present four research projects at the IRDR Conference; they also participated as note-takers in the Conference sessions and contributed to the conference summary and conference report.

- **Transformations to Sustainability:** supported by funding from DFG and others, this new global research programme is ISSC’s major contribution to FE aimed at increasing the social science presence in the science of global change and sustainability. The programme was launched on 31 March 2014, with the publication of its first call for proposals. A committee had been established to select 30 proposals out of the 500 submitted.
- **Transdisciplinarity training programme:** a global expert design workshop will be held from 16 to 18 June 2014 to, among other things, identify best practice cases for transdisciplinarity in research and research management, and to identify a pool of experts from different regions as potential trainers/contributors. Stavrou reiterated the possibility of an IRDR contribution to this training initiative, and noted that Lwasa had been participating in similar initiatives.

#### **United Nations International Strategy for Disaster Reduction (UNISDR)**

Kan, who replaced Andrew Maskrey as the UNISDR ex-officio member on the SC, provided the meeting with updates on:

- **6<sup>th</sup> Asian Ministerial Conference on Disaster Risk Reduction (AMCDRR):** the AMCDRR is a biennial conference in the Asian region to ensure political and stakeholders’ commitment towards disaster risk reduction (DRR) implementation. IRDR co-chairs the Stakeholder Group for Science, Technology and Academia, one of the stakeholder groups represented at the AMCDRR conference. Despite the unstable political situation in Thailand the 6<sup>th</sup> AMCDRR will be held from 22 to 26 June 2014 in Bangkok under the theme “Promoting Investments for Resilient Nations and Communities.” Three sub-themes will be explored in technical sessions: Enhancing Resilience at Local Levels; Improving Public Investments for Disaster and Climate Risk Management to Protect and Sustain Development Gains; and Private Sector Role – Public & Private Partnership for Disaster Risk Reduction. For more information about the 6<sup>th</sup> AMCDRR visit: <http://6thamcdrr-thailand.net/6thamcdrr/>.
- **Hyogo Framework for Action 2 (HFA2):** the development of HFA2 was sketched against the backdrop of shortcomings of and lessons learnt from HFA. HFA2 will also reflect the need to place the management of disaster risks in the context of development processes and climate change adaptation, focusing on and strengthening at local national and international levels, the resilience of people and countries. It was considered to extend the timeline for HFA2 to 20 years or even longer.
- **World Conference on Disaster Risk Reduction (WCDRR):** the third WCDRR will be held in Sendai, Japan from 14 to 18 March 2015. Among other things, this intergovernmental conference will complete the assessment and review of the

implementation of HFA, and is expected to proceed to adopt a post-2015 framework for DRR. UNISDR, as the Secretariat of the Conference, has been leading the consultation process ever since March 2012, involving intergovernmental and multi-stakeholder meetings, also held at the regional level. The first Intergovernmental Preparatory Committee meeting (PrepCom1) will be held from 14 to 15 July, and the second from 17 to 18 November 2014, both in Geneva. For more information about the third WCDRR visit: <http://www.wcdrr.org/>.

Moore added that ICSU had been recently invited by UNISDR to be the Organising Partner for the science and technology (S&T) community for the process leading up to the WCDRR. ICSU accepted this task but pointed out that the short timeline would inevitably mean that it would have to rely on established networks for the coordination of the scientific community's participation in the discussions and the meetings during the preparatory phase and at the conference itself. ICSU will determine the composition of the delegation to attend these preparatory meetings, in which representatives from IRDR will play a prominent role. He also clarified the relationship between ICSU's Ad Hoc Group on DRR science assessment, and the PrepCom meetings.

#### **Institute of Remote Sensing and Digital Earth (RADI)**

Guo provided the meeting with updates on:

- **CAS-TWAS Centre of Excellence on Space Technology for Disaster Mitigation (CoE STDM):** held its second training workshop from 3 to 13 June 2014, involving 24 early- and mid-career scientists from 18 developing countries in Africa, Asia and Latin America. The participants from this workshop also attended the IRDR Conference and the CAS-TWAS special session held during the conference on 9 June 2014.
- **Committee on Data for Science and Technology (CODATA):** from 8 to 9 June 2014, CODATA held its "Workshop on Big Data for International Scientific Programmes: Challenges and Opportunities." Johnston delivered opening remarks on behalf of IRDR, one of the workshop's co-sponsors, during the opening session.
- **National Expert Committee of Disaster Mitigation:** Guo informed the meeting that he was recently elected a member of this high level committee, and suggested this could be an additional platform for IRDR in China.

#### **DECISIONS:**

- 2.1 Encourage and support SC Chair and Executive Director to engage with FE's counterparts, to provide an update at the next SC meeting and to seek a representation at future SC meetings. **(Lead: SC Chair/IPO)**
- 2.2 Encourage participation of IRDR in the various ISSC activities, requesting more concrete information on opportunities from the ISSC secretariat (including WSSF programme). **(Lead IPO)**
- 2.3 Support UNISDR's engagement with the S&T communities, including by providing input to the upcoming consultations that would contribute to ICSU's and IRDR's positioning in the process leading up to the third WCDRR. **(Lead: SC Chair / IPO)**

### 3. International Programme Office (IPO) Updates

#### IPO Management and Staffing

The SC expressed their gratitude to SC Chair Johnston who acted remotely as interim Executive Director of the IPO since December 2013. Members also applauded the efforts of the IPO staff in maintaining the Office throughout the prolonged period of transition. Johnston thanked RADI for their assistance in facilitating his remote management of the IPO during this period.

Morris informed that Tracy ZHAO, the Executive Assistant, resigned effective 24 April 2014, and two persons were employed on a part-time basis to assist in the preparations for the conference.

#### IRDR Conference 2014

##### *Pre-conference session (6 June):*

Rovins gave an update on final arrangements for the Conference and reviewed the roles of the SC Members, including their roles as chairs of parallel sessions (Doc 11/3.2).

##### *Post-conference session (10 June):*

During the review of the Conference on 10 June 2014, the Members provided the following feedback:

- **Attendance:** the Committee expressed concerns about the overall low participation of Chinese experts, which raised questions about the venue. RADI's International Office and IRDR China were encouraged, for future conferences, to take early measures to ensure a more active and more numerous local attendance.
- **Planning:** Members discussed the appropriate level of involvement of the SC in the conference planning. The establishment of a conference sub-committee was suggested by Stavrou.
- **Promotion:** Members offered they could play a more active role in promoting the conference through their professional networks.
- **SC Participation:** Members discussed the involvement of the SC as session chairs and presenters. Rovins explained that this was a result of the feedback received after the first conference in 2011, in which the SC Members requested more involvement in the second conference.
- **Sessions:** Members felt that the large number of parallel sessions needed to be addressed; several members suggested that holding thematically focused pre-conference workshops could target young scientists and could prepare plenary reporting. Session chairs felt they—and speakers—should have been provided in advance more information about their respective sessions. In the future, chairs and speakers should liaise in advance of the conference to ensure smooth and coherent sessions, with sufficient time for discussions.

For plenary sessions, Members agreed that future conferences would have to be more careful in selecting and briefing speakers, including guidelines about the purpose of sessions and the overall theme of the conference to better guide the preparation of their presentations.

---

## **4. Research Programme Updates**

### **Assessment of Integrated Research on Disaster Risk (AIRDR)**

#### ***Reporting***

Cutter gave a comprehensive presentation about the background to and original vision for the AIRDR project and its activities to date, including highlights from the recently concluded preliminary assessment (see Doc. 11/2.1, pg. 7).

After being involved in a UK-launched initiative on a possible international scientific advisory mechanism in March 2014, the AIRDR team also joined, in May 2014, the ICSU-convened ad-hoc expert group on disaster risk assessment in Paris, to further a resolution on Disaster Risk Research and Assessment at the 31<sup>st</sup> ICSU GA.

UNISDR had provided funding to AIRDR to conduct a scientific literature review of three themes to be explored in the 2015 edition of the Global Assessment Report on Disaster Risk Reduction (GAR15). The first paper, "Incentives for Disaster Risk Management," had been completed; the second paper, "Governance in Disaster Risk Management," was due 15 June 2014; the third paper, "Transformative Development and Disaster Risk Management," was in progress.

#### ***Planning***

A discussion on the future of AIRDR found that AIRDR may need to be re-scoped, given the insufficient resources available to implement the original work plan. Cutter noted that a next step for the project could be to assess the science in the literature and to produce a document that prescribes how to conduct a similar bibliometric analysis. It was suggested to involve ongoing and emerging literature surveys and encourage them to apply the AIRDR approach. Johnston referred to a study of the literature produced in response to the Christchurch earthquake event; Jiménez Díaz mentioned a survey of DRR science capacity in Latin America, which was supported by ICSU ROLAC. A decision on AIRDR's future was not taken.

Moore advised that ICSU is preparing work towards an IPCC-inspired assessment mechanism for DRR that would be based on the IUGG proposal (Doc. 11/2.1, pg. 7). Another meeting was planned for October and this might be an outlet for AIRDR products.

### **Disaster Loss Data (DATA)**

#### ***Reporting***

Cutter provided an overview of the project's goals and the recently held third meeting of the working group (WG) in Ispra, Italy from 19 to 21 May 2014, hosted by the European



Commission Joint Research Centre (JRC). A joint meeting was also held with EU loss data experts on 21 May. The most significant accomplishment of the DATA project to date was the **Peril Classification and Hazard Glossary** in March 2014 (Doc. 11/6.1; also: <http://www.irdrinternational.org/2014/03/28/irdr-peril-classification-and-hazard-glossary/>). This publication aims to reconcile the taxonomy and definitions of perils and currently being used in the development of disaster loss databases in the EU.

Technical experts from the World Meteorological Organization (WMO) reviewed the classification scheme and provided their feedback at the third DATA meeting. Despite some specific concerns (definitions of perils), they expressed WMO's support of the classification scheme.

The project's WG members had begun testing the classification scheme within their respective databases (EM-DAT, Swiss Re, Munich Re, UNISDR-DesInventar and SHELDUS). The tests found that in practice the reconciliation process was more difficult than theoretically anticipated, often for reasons other than the classification itself; however, the members have begun to develop a revised classification of peril classes to achieve a better fit with their respective databases.

### ***Planning***

The WG plans to meet with the WMO's technical team to clarify the latter's concerns about the classification scheme. Subsequently, the WMO would be able to give its formal approval and could encourage the world meteorological associations to utilise the scheme. Similar input will be sought from UNESCO about geo-physical hazards, and from the World Health Organisation (WHO) for biological hazards.

This incorporation of external and internal feedback and the resulting reconfiguration are expected to be completed by the end of 2014.

The WG also identified the need to draft guidance and standardised indicators and definitions of economic losses and will develop a guidance document for normalisation options/procedures when displaying loss information and uncertainty in loss data.

Cutter suggested that IRDR take the lead in providing a methodological framework for compiling future loss databases. The WG will also provide a conceptual framework that defines human impacts based on the CRED/Munich Re/Swiss Re white paper, **Working Paper 264: Disaster Category Classification and Peril Terminology for Operations Purposes**, [http://cred.be/sites/default/files/DisCatClass\\_264.pdf](http://cred.be/sites/default/files/DisCatClass_264.pdf), using simplified schema and definitions. This will be completed in September 2014.

The WG proposes to hold its fourth meeting between September and November 2014, possibly in Brussels or Leuven (hosted by EU and CRED). It was noted, however, that currently no funding was available for convening such a meeting.

## **Forensic Investigations of Disasters (FORIN)**

### ***Reporting***

Alcántara-Ayala, whom Oliver-Smith presented as the new FORIN project co-chair after the resignation of Ian Burton in early 2014, gave a summary of the International Seminar on FORIN held in Mexico City, from 24 to 25 February 2014. The main objective of the

workshop was to present the FORIN methodology in understanding the underlying causes of disasters through keynote addresses, lectures, working groups, roundtable discussions and interviews with the media. This was the second workshop under the *Landslide Networking for Disaster Studies, Capacity Building, Partnership and Engagement in Latin America and the Caribbean* (LANDSCAPE-LAC) project, which received funding from ICSU and the International Geographical Union (IGU) in 2013. Twenty young scientists from seven Latin American countries with different scientific or professional backgrounds (administration, anthropology, civil engineering, civil protection, economics, geography, geology) participated in the International Seminar.

### ***Planning***

Oliver-Smith reported that, as negotiated between IRDR and UNISDR, FORIN had also received US\$30,000 from UNISDR to prepare a second version of FORIN (FORIN 2.0) via a three-day workshop. Workshop discussions will be guided by the evaluation of FORIN studies being currently conducted by Pelling and his team as part of the EU-FP7 project PEARL (Preparing for extreme and rare events in coastal regions) project, which began in January 2014 (Doc. 11/2.1, pg. 9). Pelling provided the meeting with a summary of the findings of the review to date. Another expected outcome of this FORIN 2.0 workshop will be a potential contribution to GAR15.

Briceño reminded the SC of the need for FORIN case studies to be developed that would allow the application of the FORIN methodology and that can be used as showcases for subsequent fundraising. He emphasised that the project should focus on ensuring proper dissemination of the methodology to the DRR research community, also by proactively engaging all relevant scientific fields. Cardona offered a possible study of the Haiti earthquake as an example for a strong case study, and proposed that the IRDR ICoE-UR&S in Colombia, with possible support from LA RED, could coordinate such an effort.

As reported at the 10<sup>th</sup> SC meeting, the FORIN WG continued discussions with UNU-EHS about a joint two-year workshop series, consisting of three workshops per year, incl. notably in Africa. The development of this workshop series is expected to reach completion in conjunction with the planning for the FORIN 2.0 workshop.

## **Risk Interpretation and Action (RIA)**

### ***Reporting***

Pelling gave an overview of the RIA project's past activities. HUDSON-DOYLE, representing the ISSC RIA Fellows, provided the meeting with a summary of the WSSF seminar on Risk Interpretation and Action held in New Zealand in December 2013 (see also under ISSC pp. 5-6). She suggested that IRDR could offer assistance in promoting the RIA fellows and integrate them into the IRDR programme activities, including a presence on the IRDR website.

Pelling also updated on the status of RIA's contribution to GAR15, "transformation of decision-making for disaster risk reduction." The first draft of this paper was completed and a final version is expected by mid-summer.

### ***Planning***

The WG will be revising the paper, *Disaster Risk Communication: Dialogues for Reducing Disaster Risk (an Integrated Research on Disaster Risk, Risk Interpretation and Action*

*programme Briefing Note*), produced after the workshop held in London in May 2013 to re-establish RIA as an agenda-setting working group.

Bostrom reported that she expected to be invited to organise a workshop funded by the Japan Society for the Promotion of Science (JSPS) and the US' National Science Foundation (NSF), noting that this could lead to RIA co-sponsored research. The workshop would discuss funding needs of the behavioural and social sciences on decision-making in disaster risk reduction contexts and in response to extreme events.

Pelling emphasised the potential for the inclusion of affiliated projects to assist RIA in building its wider community of experts. It was suggested to expand this approach to the programme as a whole.

A decision on appointing a new co-chair (or new co-chairs) for RIA was not taken; Pelling will advise the SC accordingly.

### **Results of Projects' Breakout Sessions**

Led by the project co-chairs, three breakout sessions were held on 11 June 2014, allowing IRDR China representatives and researchers to learn more about DATA, FORIN and RIA and to provide input for the way forward for each project. The breakout sessions were led by each project's respective co-chairs.

- **DATA** discussions focused on the **Peril Classification and Hazard Glossary** (March 2014), and a review of the Chinese peril classification system. This session also heard from the Secretary General of IRDR Japan, Tsukahara, who also shared the Japanese experience.
- **FORIN** reported that participants in this session offered constructive criticisms on the strengths and weaknesses of the FORIN template that will inform the discussions at the FORIN 2.0 workshop to be held later in 2014.
- **RIA** reported that the session focused on issues of uncertainty and probability as opposed to descriptive assessments of risks. Younger scientists also raised the issue how to be an active part, in the face of the influence of senior colleagues irrespective of sectors, in efforts to innovate disaster risk reduction.

### **Formalising Projects' Working Group Memberships**

Members provided Oliver-Smith with their feedback on the draft letter aimed at formalising the membership of non-IRDR SC members on the respective working groups and activities. The SC felt that use of such a letter would be helpful for visible community building also for the other working groups. The IPO will provide a revised version to Oliver-Smith.

### **Affiliated Projects**

The SC agreed that a strategy needed to be developed to widen the network beyond its current structures, notably by identifying possible IRDR Affiliated Projects. It was suggested to develop terms of reference (ToRs) for IRDR affiliated projects (APs), taking the cue from similar approaches in other ICSU programmes, and to consider proactive surveying of the

research landscape for the identification of appropriate AP's. The SC recognised that this approach would entail the establishment of a mechanism to allow for existing funded projects to become recognised as IRDR AP's.

#### **DECISIONS:**

- 4.1 Provide Oliver-Smith with the revised IRDR Project WG membership letter. **(Lead: IPO)**  
 4.2 Develop ToRs for IRDR Affiliated Projects (APs) for decision at the 12<sup>th</sup> SC meeting. **(Lead: IPO; Task Group)**

---

## **5. IRDR International Centres of Excellence (ICoEs) and National Committees (NCs) Updates**

### **Reports from Current IRDR International Centres of Excellence (ICoEs)**

#### **IRDR ICoE-Taipei**

Tony Liu provided an update of the ICoE's activities, both international and domestic, and its future plans. It is to be noted that within its international programme the ICoE focuses primarily on capacity building activities, including workshops, symposia, advanced institutes and a visiting scientists programme.

#### ***Reporting***

The ICoE was one of the co-sponsors and helped organise the WSSF RIA seminar in New Zealand in December 2013. The ICoE funded four follow-on research projects arising from the six working groups that were formed at the workshop, providing seed funding of US\$15,000 to the selected projects (see also under ISSC pp. 5-6). The Fellows are expected to complete these projects by December 2014.

Within its domestic programme, the ICoE continue to promote and coordinate its five domestic IRDR-related research projects:

- Mega-seismic risk and multi-geological disasters in Taiwan
- Impact of Climate and Land Use Change on Environmental Hazards and Adaptation
- Vulnerability Assessment for Heat Wave and Relevant Adaptation Strategy Recommendations
- Open ISDM: Open Information Systems for Disaster Management
- Taiwan Climate Change Projection and Information Platform (TCCIP)

#### ***Planning***

The ICoE will hold a second advanced institute on FORIN from 21 to 25 October 2014, to provide 15 to 20 young to mid-career researchers and practitioners from Southeast Asia with enhanced skills to carry out FORIN-related studies.

### ***Proposal for a New IRDR Project***

As requested at the 10<sup>th</sup> SC meeting, Takeuchi presented the report of the SC team (Benouar, Tony Liu, Pelling, Takeuchi) appointed to examine the ICoE-Taipei proposal for an additional IRDR project, Disaster Risk Reduction and Loss Mitigation (RILM; Doc. 11/5.1), as a possible IRDR flagship project. The SC felt that IRDR still needed to develop its approach to possible “flagships” to work across and draw from the existing four IRDR projects and connecting to other research initiatives such as FE.

Following up on discussions during an earlier part of the meeting, the SC agreed that the project proposal could provide, in the format of a localised case study, a test bed for the application of IRDR approaches. The SC decided not to accept the original proposal from ICoE-Taipei, but to encourage the ICoE to conduct the project as an ICoE-Taipei initiative, working with the respective four IRDR projects, and with the full support of the SC. This could help the SC to advance its thinking about the format for a “flagship” project that it felt was needed for the showcasing of IRDR results. The IPO would be asked to liaise with ICoE Taipei to develop avenues for internationalising the project idea in this perspective, possibly by involving networks of municipalities interested in the approaches to DRR targeted by IRDR.

### **IRDR ICoE on Vulnerability and Resilience Metrics (IRDR ICoE-VaRM)**

Cutter gave an overview over the ICoE’s activities since November 2013:

#### ***Reporting***

- Supporting AIRDR in conducting a bibliometric analysis of integrated disaster risk research and preparing a journal article on the results of this assessment (ongoing; see pg. 9).
- Supporting the DATA project working group in producing the **IRDR Peril Classification and Hazard Glossary** (March 2014), testing the peril classification (ongoing), and assisting in the organisation of the working group’s third expert meeting in Ispra, Italy in May 2014 (see pg. 10).
- Conducting three research reviews as AIRDR’s contribution to GAR15 (ongoing; see pg. 9).
- Participating in a workshop on the role of science in “good enough disaster risk assessment,” Bogota, Colombia (February 2014).
- Hosting a pre-doctoral student from Karlsruhe Institute of Technology (KIT), from Karlsruhe, Germany, to study vulnerability metrics (February to April 2014).
- Participating in a workshop to discuss and draft the statement on establishing an international science advisory mechanism for disaster risk reduction to strengthen resilience, in London, UK (March 2014).
- Participating in an IUGG/ICSU Ad Hoc Expert Group on Disaster Risk Assessment, in Paris, France (in May 2014).

#### ***Planning***

The ICoE will continue supporting the AIRDR and DATA projects with specific aspects of the projects’ work plans. In the case of AIRDR, support will be provided in completing the journal article on the results of the preliminary assessment; producing a document that prescribes how to conduct similar bibliometric analysis; and completing the research reviews for AIRDR’s contribution to GAR15. In terms of DATA, the ICoE will continue testing the peril classification scheme.

### **IRDR ICoE in Community Resilience (IRDR ICoE-CR)**

Hudson-Doyle provided an overview of IRDR ICoE-CR, its vision, structure and goals.

#### ***Reporting***

Activities undertaken by the Centre since its official formation in November 2013 included:

- Establishing a mailing list for the members and interested parties of the ICoE.
- Holding two workshops on “Building Resilience Amongst Communities” in April 2014 at Massey University and Lincoln University respectively.
- Collaborating with the Wellington Region Emergency Management Office (WREMO) on the development of an online Community Resilience Toolbox to house a database of projects, research and related information on community resilience initiatives in the Wellington Region.
- Holding a collaborative workshop with WREMO to explore and identify the key research questions that help inform the WREMO Community Resilience Strategy.

#### ***Planning***

In the near future, the ICoE will continue the development of the Community Resilience Toolbox, which is expected to be launched by the end of 2014. The ICoE will also hold a community resilience and knowledge sharing workshop at the 7<sup>th</sup> Australasian Natural Hazards Management Conference to be held in Wellington in September 2014.

### **IRDR ICoE in Understanding Risk & Safety (IRDR ICoE-UR&S)**

#### ***Reporting***

Cardona provided the meeting with a summary of national and international projects and initiatives of this newly established ICoE. These include risk evaluations and profiles for several countries, development of the Global Risk Model for GAR13 and an update for GAR15. The contribution to GAR15 include:

- A fully probabilistic earthquake and tropical cyclone (wind + storm surge) hazard and risk assessment at global level.
- Computing the Loss Exceedance Curve and other probabilistic risk metrics using the Comprehensive Approach to Probabilistic Risk Assessment (CAPRA) Platform.
- Calculation of Hybrid Loss Exceedance Curves to reflect the extensive and intensive risk.
- Examples of risk evaluations at local level for earthquake, tropical cyclones, floods and volcanoes.
- Country risk profile based on coarse-grain information for risk awareness and comparison among countries.
- Development of a good-enough risk assessment methodology to replicate the global approach at the local level.

Cardona also provided the meeting with an overview of the city of Manizales’ disaster risk management programme. The IRDR ICoE-UR&S was formally approved by the SC at its 10<sup>th</sup> meeting in November 2013.

### **Proposed IRDR ICoEs**

- **Periperi U Consortium(secretariat at Stellenbosch University, South Africa):** the SC discussed the expression of interest (EoI) from the Periperi U (Partners Enhancing Resilience for People Exposed to Risks) Consortium, based at the Research Alliance for Disaster and Risk Reduction (RADAR) at Stellenbosch University in South Africa. The consortium, which has several partner institutions all across the African continent, requested to be designated the IRDR ICoE for Disaster Risk Reduction Education (IRDR ICoE-DRRE) (Doc 11/5.2). Following requests for clarification by the SC during day one of the meeting, the EoI was revised and resubmitted during the session on day two. The SC approved the designation of Periperi U as the IRDR ICoE-DRRE based on this revised proposal (Doc. 11/5.2a). The name of the ICoE will be revised and, once the IPO is informed of the new name, a memorandum of understanding (MoU) will be drafted.
- **Bahir Dar University, Ethiopia:** the SC discussed the EoI from the new Department of Disaster Risk Management and Sustainable Development at Bahir Dar University in Ethiopia to be designated an IRDR ICoE. The SC decided not to accept this proposal and encouraged Bahir Dar University to engage with IRDR through its membership in the Periperi U Consortium.

### **Reports from Current National Committees (NCs)**

#### **IRDR China**

Feng gave a presentation explaining the composition of IRDR China, the NC's role in China's national system for disaster governance, and its research programme, which comprises six projects launched in October 2012:

1. FORIN Case Study of Seasonal Drought in South-western China under the Condition of Climate Change - Yunnan Province Chosen as Case Study (Institute of Environment and Sustainable Development in Agriculture, Chinese Academy of Agricultural Sciences (CAAS))
2. Study on Data Management Model for Historical Loss Data: Flood as Showcase (Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS))
3. Urban Disaster Resistance Capability and Risk Assessment - Wenchuan Earthquake as Case Study (China Earthquake Disaster Prevention Center)
4. Study on the Internal Relationship between Global Change and Natural Disaster Risk Variation in China (RADI, CAS)
5. Study on Management Mechanisms of Community-Based Mountain Hazard Risks (Institute of Mountain Hazards and Environment, CAS)
6. Climate Change, Drought and Population Migration: Dynamic Mechanism and Risk Assessment (Institute for Urban and Environmental Development Studies, Chinese Academy of Social Sciences (CASS))

IRDR China was also instrumental in its support of the IRDR Conference 2014, and was a member of the local planning committee.

In April 2014, IRDR China convened an IRDR session at the Monsoon Asia Integrated Regional Study (MAIRS) Open Science Conference, <http://mairs.csp.escience.cn/dct/page/1>. The session was co-chaired by Morris on behalf of the IPO.

### **IRDR Colombia**

Cardona presented Colombia's National Committee for Disaster Risk Knowledge, the newly established IRDR Colombia. This Committee is located within the National Unit for Disaster Risk Management of the Presidency of the Republic of Colombia (UNGRD). Cardona also provided the meeting with a review of Colombia's national plan for disaster risk management (see also: [http://media.wix.com/ugd/a02d6e\\_1eff708014424892a113344def36a25c.pdf](http://media.wix.com/ugd/a02d6e_1eff708014424892a113344def36a25c.pdf)).

### **IRDR Japan**

Tsukahara provided an overview of IRDR Japan, a sub-committee within the Science Council of Japan (SCJ), mainly comprising academics from the SCJ. There is also an IRDR policy sub-committee within the SCJ, comprising members from central/local governments, international development agencies, NGOs, etc. Both sub-committees are expected to work together on IRDR-related research.

As reported at the 10<sup>th</sup> SC meeting (Doc. 11/2.1, pg. 15), IRDR Japan's "Large Scale Research Program on IRDR" was selected by the Government of Japan (GOJ) as a special priority research project among 27 such projects from all sectors in Japan.

The SCJ will hold the "Tokyo Conference on International Study for Disaster Risk Reduction and Resilience" in January 2015. Takeuchi presented the draft Tokyo Statement and requested the SC to provide comments for improvement. Fakhruddin volunteered to compile SC comments for submission to Takeuchi. This was done by the end of the meeting. IRDR accepted the invitation to become a co-sponsor of the Tokyo conference.

Additionally, IRDR Japan is also involved in the planning for the third WCDRR, with its Vice-Chair, Haruo Hayashi, appointed a member of the planning committee established by the Government of Japan.

### **IRDR New Zealand**

Johnston provided the meeting with an overview of the first four years of activities of Natural Hazards Research Platform (NHRP), which is the basis for the National Committee. He also presented a preview of the way forward for the Platform in reducing New Zealand's exposure to significant hazard risks and working with the global IRDR programme.

### **IRDR USA**

Cutter gave an overview of activities under the newly established IRDR USA, which is a centre-of-centres comprising university centres specialising in different aspects of hazards and disasters and representing different disciplines. The host institution is the Natural



Hazards Center (NHC) at the University of Colorado at Boulder. The NHC is also the chief convenor and coordinator for IRDR USA's activities.

There are 12 founding centres; but it is expected that as the NC becomes more established additional centres will be invited to join. The NHC has been hosting the Annual Natural Hazards Research and Applications Workshop since 1975. This meeting will serve as the venue for the NC's governance meetings, the first of which was to be held at the 39<sup>th</sup> Annual Workshop (22 to 25 June 2014). The NC will focus on the activities of the respective centres to advance the IRDR agenda, including the NHC's information dissemination, annual workshop and quick response programmes.

### **Proposed NCs**

- **Australia:** the EoI from Australia's Bushfire & Natural Hazards Cooperative Research Centre (BNH CRC), requesting to be designated an IRDR NC (Doc. 11/10.1), was discussed and agreed to by the SC.

Following the lengthy discussions during the review of the EoIs from Periperi U and from BNH CRC, the SC agreed that the ToRs governing the establishment and functioning of ICoEs and NCs must be revised so that criteria for selection and successful operation are more easily applicable.

### **DECISIONS**

- 5.1 Inform IRDR ICoE-Taipei of its decision, and liaise with the ICoE regarding the implementation of the proposal for a project within the remit of ICoE-Taipei, working with the respective four projects, and with the full support of the SC, and exploring avenues for internationalising the project. **(Lead: SC Chair/IPO; Support: SC Executive; WG co-chairs)**
- 5.2 Approve designating the Periperi U Consortium, based at Stellenbosch University in South Africa, as the IRDR ICoE for Disaster Risk Reduction Education (IRDR ICoE-DRRE). Periperi U will be informed of this decision and the respective MoU prepared, once the IPO has been informed of its new name. **(Lead: IPO)**.
- 5.3 Reject the proposal from Bahir Dar University in Ethiopia for its new Department of Disaster Risk Management and Sustainable Development to be designated an IRDR ICoE. Bahir Dar University will be informed of this decision and will be encouraged to engage with IRDR through its membership in the Periperi U Consortium. **(Lead: IPO)**
- 5.4 Approve designating Australia's Bushfire & Natural Hazards Cooperative Research Centre (BNH CRC) as IRDR NC Australia. BNH CRC will be informed of this decision. **(Lead: IPO)**
- 5.5 Revise the current ToRs governing the establishment of IRDR ICoEs and NCs/RCs and disseminate to the SC Members for their review prior to the 12<sup>th</sup> SC meeting in November 2014. **(Lead: IPO; Task Force)**

## 6. Network Building

### Integration with Co-Sponsors' Programmes

#### ICSU

- **ICSU Regional Office for Africa (ICSU ROA):** Ayonghe presented on ICSU ROA's activities on natural hazards and disasters and their efforts to integrate their hazards and disasters plans with that of IRDR.

A global-regional integration workshop in Kuala Lumpur in September 2012; a follow-up meeting in Dakar resulting in the Dakar Declaration on Hazards and Disasters; and a planning workshop in Pretoria in September 2013, helped ICSU ROA to advance its plans to implement two follow-up activities:

- an interdisciplinary research consortium comprising African and foreign experts co-designing and conducting research projects on bushfires, climate change, drought, earthquakes, floods, landslides and volcanoes.
- a book project on the state of natural hazards and disasters in Africa.

#### UNISDR

- **ISDR Asia Partnership (IAP):** Rovins provided the meeting with an update on the activities of the ISDR Asia Partnership (IAP) Science, Technology and Academia Stakeholders group (previously called the Scientific, Academic and Research Stakeholders group). The group is co-chaired by IRDR and the Asian University Network of Environment and Disaster Risk Management (AUEDM). Rovins also briefly reviewed the elements of the stakeholders group's statement, which will be finalised during the 6<sup>th</sup> AMCDRR (see pg. 6). The conference will be attended by Fakhruddin, Johnston and Rovins, and, as agreed at the 10<sup>th</sup> SC meeting, Fakhruddin will represent IRDR on the stakeholders group in the future.
- **Scientific and Technical Advisory Group (STAG):** The IRDR has been invited to contribute to the next STAG report. Fakhruddin volunteered to coordinate the IRDR's contribution at the appropriate time.
- **UN Sasakawa Award for Disaster Reduction:** the SC agreed to support the nomination of Allan Lavell for the 2015 UN Sasakawa Award for Disaster Reduction in consideration of his many years of contribution to the field of DRR. Lavell also contributed significantly to the IRDR programme as former SC Member and AIRDR project co-chair and by sharing his knowledge also with the other projects.

### Integration with other International Initiatives

- **EU JRC:** Ehrlich gave a presentation on the DRR-related work of the European Commission Joint Research Centre (JRC) and its collaboration with IRDR, established through an MoU signed in 2011. The JRC is a member of the DATA project working group and Ehrlich is one of the project's co-chairs. The JRC is also contributing to

GAR15. Ehrlich emphasised that the JRC is open to working more closely with IRDR experts, especially through the development of case studies.

- **Sustainable Development Goals (SDGs):** Represented by Pelling, ICSU, in their capacity as Organising Partner for the global S&T community, participated in the meetings of the UN General Assembly Open Working Group (OWG) on SDGs in New York. At the OWG's Seventh Session in January 2014, Pelling presented the ICSU/IRDR issue brief, developed by an ad hoc working group of several members of the IRDR SC and experts associated with the programme, to inform the discussions of the SDGs. Pelling noted that the first draft of the SDGs document does not have a distinct DRR goal, although the issue of disasters is included within separate goals.

#### DECISIONS:

- 6.1 Contribute to the next UNISDR STAG report; Fakhruddin will coordinate the programme's contribution. **(Lead: Fakhruddin; Support: IPO)**
- 6.2 Support the nomination of Allan Lavell for the UN Sasakawa Award for Disaster Reduction. **(Lead: IPO; Support: SC Executive)**

## Annex 1 - Meeting Documents and Powerpoint Presentations

**Table 1: List of 11<sup>th</sup> SC Meeting Documents (also available at <http://www.irdrinternational.org/sc-members-zone/sc11-june-2014-beijing-china/>)**

Symbol	Title
11/1.1	List of Participants
11/1.2	Practical Arrangements
11/2.1	Report of the 10 <sup>th</sup> SC Meeting
11/3.1	IRDR Conference 2014 Programme
11/3.2	Moderator Guidelines (for IRDR Conference 2014)
11/4.1	Draft Letter of Appointment for non-IRDR SC Members (as prepared for the FORIN Project Working Group)
11/5.1	Draft Proposal ICoE Taipei: Flagship Project for IRDR: Disaster Risk and Loss Reduction
11/5.2	Periperi U Consortium: Expression of Interest for Status as IRDR International Centre of Excellence
11/5.2a	Periperi U Consortium: Revised Application for Status as IRDR International Centre of Excellence
11/5.3	Periperi U Consortium: Annual Report 2013 (1 January to 30 September 2013)
11/5.4	Periperi U Consortium: Annual Consultative Meeting, Geneva, Switzerland,

Symbol	Title
	19-24 May 2013
11/5.5	Expression of Interest for IRDR International Centre of Excellence, at Bahir Dar University, Ethiopia
11/6.1	DATA Project Report No. 1
11/7.1	ISSC “Transformations to Sustainability” Programme: Description and Call for Proposals
11/8.1	IRDR ICoE Logo
11/9.1	IRDR NC Logo
11/10.1	Expression of Interest for IRDR National Committee Australia, Bushfire and Natural Hazards Cooperative Research Centre (BNH CRC)

**Table 2: List of 11<sup>th</sup> SC Meeting PowerPoint Presentations (also available at <http://www.irdrinternational.org/sc-members-zone/sc11-june-2014-beijing-china/>)**

Category	Slide Presentations
Co-Sponsors	<ul style="list-style-type: none"> <li>International Social Science Council (ISSC): Update</li> </ul>
Projects	<ul style="list-style-type: none"> <li>AIRDR</li> <li>DATA</li> <li>FORIN (specifically regarding the FORIN workshop)</li> <li>RIA (specifically regarding the RIA World Social Science Fellows)</li> </ul>
ICoEs	<ul style="list-style-type: none"> <li>IRDR ICoE-Taipei</li> <li>IRDR ICoE in Vulnerability and Resilience Metrics (IRDR ICoE-VaRM)</li> <li>IRDR ICoE in Community Resilience (IRDR ICoE-CR)</li> <li>IRDR ICoE in Understanding Risk &amp; Safety (IRDR ICoE-UR&amp;S)</li> </ul>
NCs	<ul style="list-style-type: none"> <li>IRDR China <ul style="list-style-type: none"> <li>Presentations were also given on the following IRDR China projects: <ul style="list-style-type: none"> <li>Risk Analysis and Management of Mountain Hazards in Western China (Rong CHEN, Institute of Mountain Hazards and Environment, Chinese Academy Of Sciences)</li> <li>Study on data requirement of specific disaster events- Earthquake &amp; Flood as showcase (Zhang Hongyue, Institute of Remote Sensing and Digital Earth, CAS)</li> <li>Climate Change, Drought and Migration: Dynamics and Risk Assessment (ZHENG Yan, Chinese Academy of Social Science)</li> <li>Urban Disaster Vulnerability Analysis and Risk Assessment (China Earthquake Disaster Prevention Center; Dalian University of Technology; Liaoning Normal University)</li> </ul> </li> </ul> </li> <li>IRDR Colombia</li> <li>IRDR Japan</li> <li>IRDR New Zealand</li> </ul>

Category	Slide Presentations
Partners	<ul style="list-style-type: none"> <li>• EU Joint Research Centre - “JRC and Disaster Risk Reduction”</li> <li>• ICSU Regional Office for Africa (ICSU ROA) - “Activities of ICSU ROA on Natural Hazards and Disasters”</li> </ul>
Proposals	<ul style="list-style-type: none"> <li>• SC Task Group: “IRDR Flagship: Disaster Risk and Loss Reduction – Integrating Research, Policy and Practice”</li> </ul>

## Annex 2 – Summary of Action Items from 11<sup>th</sup> SC Meeting

No.	Action	Lead (Support)
1.1	Update and publish the SC members list (showing gender, nationality, affiliations, areas of specialisation, roles in the IRDR programme, and their terms and exit times.	IPO
2.1	Encourage and support SC Chair and Executive Director to engage with FE’s counterparts, to provide an update at the next SC meeting and to seek a representation at future SC meetings.	SC Chair (IPO)
2.2	Encourage participation of IRDR in the various ISSC activities, requesting more concrete information on opportunities from the ISSC secretariat (including WSSF programme).	IPO
2.3	Support UNISDR’s engagement with the S&T communities, including by providing input to the upcoming consultations that would contribute to ICSU’s and IRDR’s positioning in the process leading up to the third WCDRR.	SC Chair (IPO)
4.1	Provide Oliver-Smith with the revised IRDR Project WG membership letter.	IPO
4.2	Develop ToRs for IRDR Affiliated Projects (APs) for decision at the 12 <sup>th</sup> SC meeting.	IPO (Task Group)
5.1	Inform IRDR ICoE-Taipei of its decision, and liaise with the ICoE regarding the implementation of the proposal for a project within the remit of ICoE-Taipei, working with the respective four projects, and with the full support of the SC, and exploring avenues for	SC Chair/IPO (SC Executive; WG co-chairs)

No.	Action	Lead (Support)
	internationalising the project.	
5.2	Approve designating the Periperi U Consortium, based at Stellenbosch University in South Africa, as the IRDR ICoE for Disaster Risk Reduction Education (IRDR ICoE-DRRE). Periperi U will be informed of this decision and the respective MoU prepared, once the IPO has been informed of its new name.	IPO
5.3	Reject the proposal from Bahir Dar University in Ethiopia for its new Department of Disaster Risk Management and Sustainable Development to be designated an IRDR ICoE. Bahir Dar University will be informed of this decision and will be encouraged to engage with IRDR through its membership in the Periperi U Consortium.	IPO
5.4	Approve designating Australia's Bushfire & Natural Hazards Cooperative Research Centre (BNH CRC) as IRDR NC Australia. BNH CRC will be informed of this decision.	IPO
5.5	Revise the current ToRs governing the establishment of IRDR ICoEs and NCs/RCs and disseminate to the SC Members for their review prior to the 12 <sup>th</sup> SC meeting in November 2014.	IPO (Task Force)
6.1	Contribute to the next UNISDR STAG report; Fakhruddin will coordinate the programme's contribution.	Fakhruddin (IPO)
6.2	Support the nomination of Allan Lavell for the UN Sasakawa Award for Disaster Reduction.	IPO (SC Executive)



**12<sup>th</sup> Meeting of the IRDR Science Committee**  
**ICSU Secretariat, Paris, France, 13-15 November 2014**

**Overview of Actions Decided on at the 11<sup>th</sup> IRDR SC Meeting**

No.	Action	Lead (Support)	Status
1.1	Update and publish the SC members list (showing gender, nationality, affiliations, areas of specialisation, roles in the IRDR programme, and their terms and exit times.	IPO	COMPLETED
2.1	Encourage and support SC Chair and Executive Director to engage with FE's counterparts, to provide an update at the next SC meeting and to seek a representation at future SC meetings.	SC Chair (IPO)	
2.2	Encourage participation of IRDR in the various ISSC activities, requesting more concrete information on opportunities from the ISSC secretariat (including WSSF programme).	IPO	ONGOING
2.3	Support UNISDR's engagement with the S&T communities, including by providing input to the upcoming consultations that would contribute to ICSU's and IRDR's positioning in the process leading up to the third WCDRR.	SC Chair (IPO)	ONGOING
4.1	Provide Oliver-Smith with the revised IRDR Project WG membership letter.	IPO	COMPLETED
4.2	Develop ToRs for IRDR Affiliated Projects (APs) for decision at the 12 <sup>th</sup> SC meeting.	IPO (Task Group)	COMPLETED

No.	Action	Lead (Support)	Status
5.1	Inform IRDR ICoE-Taipei of its decision, and liaise with the ICoE regarding the implementation of the proposal for a project within the remit of ICoE-Taipei, working with the respective four projects, and with the full support of the SC, and exploring avenues for internationalising the project.	SC Chair/IPO (SC Executive; WG co-chairs)	COMPLETED
5.2	Approve designating the Periperi U Consortium, based at Stellenbosch University in South Africa, as the IRDR ICoE for Disaster Risk Reduction Education (IRDR ICoE-DRRE). Periperi U will be informed of this decision and the respective MoU prepared, once the IPO has been informed of its new name.	IPO	COMPLETED  MoU IN PROGRESS
5.3	Reject the proposal from Bahir Dar University in Ethiopia for its new Department of Disaster Risk Management and Sustainable Development to be designated an IRDR ICoE. Bahir Dar University will be informed of this decision and will be encouraged to engage with IRDR through its membership in the Periperi U Consortium.	IPO	COMPLETED
5.4	Approve designating Australia's Bushfire & Natural Hazards Cooperative Research Centre (BNH CRC) as IRDR NC Australia. BNH CRC will be informed of this decision.	IPO	COMPLETED
5.5	Revise the current ToRs governing the establishment of IRDR ICoEs and NCs/RCs and disseminate to the SC Members for their review prior to the 12 <sup>th</sup> SC meeting in November 2014.	IPO (Task Force)	COMPLETED
6.1	Contribute to the next UNISDR STAG report; Fakhruddin will coordinate the programme's	Fakhruddin (IPO)	



No.	Action	Lead (Support)	Status
	contribution.		
6.2	Support the nomination of Allan Lavell for the UN Sasakawa Award for Disaster Reduction.	IPO (SC Executive)	