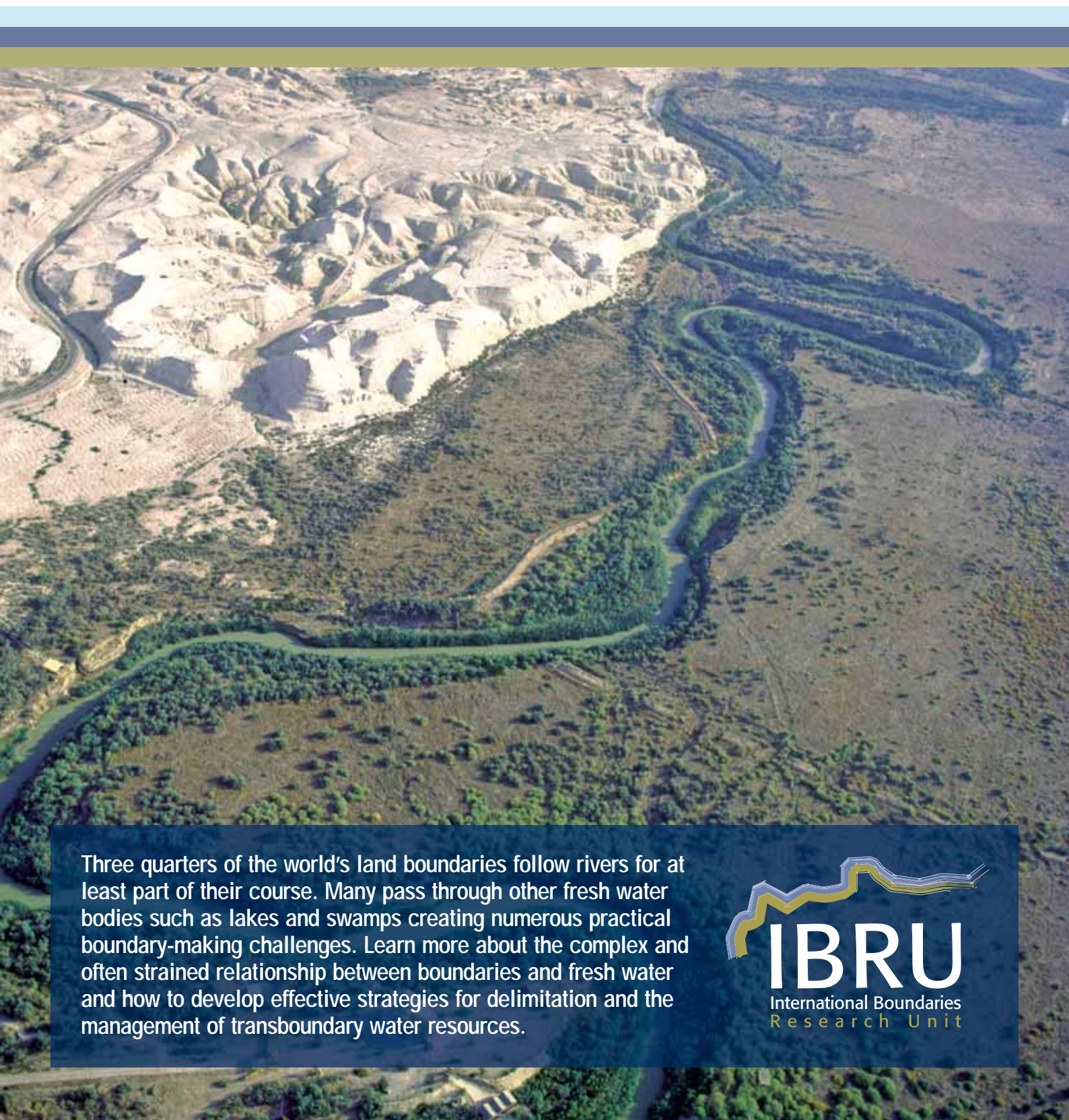


Training Workshop Programme 2010

# Boundaries and Water

12-14 July 2010, Durham University, United Kingdom



Three quarters of the world's land boundaries follow rivers for at least part of their course. Many pass through other fresh water bodies such as lakes and swamps creating numerous practical boundary-making challenges. Learn more about the complex and often strained relationship between boundaries and fresh water and how to develop effective strategies for delimitation and the management of transboundary water resources.



## INTRODUCTION

In one form or another, fresh water – or the absence of water – plays a major role in nearly every international land boundary setting. Three quarters of the world's land boundaries follow rivers for at least part of their course, and many also pass through lakes and/or swamps, creating numerous practical boundary-making challenges. There are more than 260 international river basins and at least 273 transboundary aquifers, many of which are not being managed or shared responsibly. The effects of climate change pose even greater challenges for transboundary water management strategies. As UN Secretary-General Ban Ki-moon said in 2008: "The consequences for humanity are grave. Water scarcity threatens economic and social gains and is a potent fuel for wars and conflict."

This innovative workshop is designed to assist governments in developing effective strategies for both the delimitation of international boundaries in fresh watercourses and the peaceful management of transboundary water resources. It will highlight relevant international legal frameworks and examine both good and bad state practice in addressing challenges such as: identifying boundaries in rivers, lakes and swamps; ensuring equitable navigational and non-navigational uses of international watercourses; and transboundary groundwater exploitation and management. The overall aim of the workshop is to provide a more coherent understanding of the relationship between international boundaries and fresh water so that more effective and durable strategies can be developed.

### Who should attend? The workshop will be of particular value to:

- Diplomats
- Border managers
- Consultants
- Legal advisers
- Geopolitical analysts
- Hydrologists
- Technical experts
- Cartographers
- Boundary commissioners

## Tutors



**Professor Paul Bishop, Department of Geography, University of Glasgow**, has served as a professor at the University of Glasgow since 1998, having previously directed the Graduate School of Environmental Science at Monash University in Melbourne. His research focuses on the evolution of river systems over time-scales ranging from years to millions of years. He has advised the Mekong River Commission on border issues along the Mekong River near Vientiane and has provided advice to mining companies exploring for gems in ancient river systems. He currently sits on the Science Innovation and Strategy Board which is the principal advisory board for the UK's Natural Environmental Research Council. He holds a PhD on the long-term evolution of river systems in south east Australia and a DSc from the School of Earth Sciences at Macquarie University (Sydney).



**Dr John W. Donaldson, Senior Research Associate, International Boundaries Research Unit** joined IBRU as a Research Associate in 2003. Since that time he has conducted archive research and has written widely on a number of boundary issues including River Boundaries. In 2006, he created the International River Boundaries Database and has collected information on over 1100 river boundary sections worldwide. He holds a PhD on local boundary demarcation in southern Africa, an MA in International Boundaries and currently serves as an advisor to the African Union Border Programme.



**Professor Danny Donoghue, Department of Geography, Durham University**, has a broadly based research profile that covers applications of remote sensing technology in the fields of spectrometry, forestry, coastal ecology, land use change and archaeology. He has developed processing methods for high spectral resolution optical imaging including a commercial image-processing package (T-Spectra). Recent projects include studies on the use of artificial neural networks for image processing, the study of airborne thermal infrared imagery for geology and archaeology, the use of declassified space photography and high spatial resolution imagery for archaeological prospection.



**Mr Walter Humberto Subiza Piña, Cartography Engineer, Uruguay-Brazil Joint Boundaries Commission** was born in Uruguay and moved to Brazil in order to continue his specialization in geodesy. During his professional career, he planned, conducted, executed, and published, international and national geodetic surveys, and lead several survey teams. During the 1980s he worked as a Uruguayan representative in the Uruguay-Brazil Joint Boundaries Commission. In 1996 he served as the Chief of the Uruguayan Antarctic Base and since 2008, Mr Subiza Piña has served in the Second Brazilian Boundaries Commission, as a specialised technician and demarcation delegate.



**Mr Martin Pratt, Director of Research, International Boundaries Research Unit**, joined IBRU in 1994 and is now the Unit's Director of Research. He has written extensively on land and maritime boundary issues around the world and has advised governments, commercial organisations and NGOs on a wide range of boundary and sovereignty disputes. Recent projects include providing technical advice on delimitation of a disputed section of river boundary between Guinea and Sierra Leone, and acting as advisor to the African Union Border programme. Martin coordinates IBRU's training workshop programme and consultancy activities; he also manages IBRU's website, the Unit's GIS resources and the int-boundaries email list.



**Dr Alistair Rieu-Clarke, Senior Lecturer at the Centre for Water Law, Policy and Science (under the auspices of UNESCO), University of Dundee**, specialises in international law relating to transboundary watercourses, and heads up the international law of water resources research cluster at the Dundee Centre. Alistair's research interests lie in examining treaty effectiveness within the context of transboundary watercourses and he has published and secured numerous research grants on the subject. In addition to his research interests, Alistair teaches a postgraduate course entitled International Law of Water Resources and he supervises a number of PhD students.

## PROGRAMME

Monday 12 July	0900-1000	<b>Introduction</b>
	1000-1045	<b>Fresh water systems and their complexity</b> <ul style="list-style-type: none"><li>• The fluvial system</li><li>• International catchments and basins</li></ul>
	1045-1115	<b>Refreshments</b>
	1115-1230	<b>Groundwater and transboundary water usage</b> <ul style="list-style-type: none"><li>• Transboundary aquifers</li><li>• Strains on transboundary fresh water bodies</li></ul>
	1230-1330	<b>Lunch</b>
	1330-1445	<b>Transboundary water law</b> <ul style="list-style-type: none"><li>• Multilateral conventions</li><li>• Rights and responsibilities of upstream and downstream states</li></ul>
	1445-1515	<b>Refreshments</b>
	1515-1715	<b>Practical exercise 1</b>
	1900	<b>Dinner</b>

Tuesday 13 July	0900-1030	<b>Legal principles in river boundary definition</b> <ul style="list-style-type: none"><li>• Boundaries in navigable and non-navigable rivers</li><li>• Alterations in the course of boundary rivers</li><li>• Case law related to river boundaries</li></ul>
	1030-1100	<b>Refreshments</b>
	1100-1230	<b>Interpreting terms in river boundary definition</b> <ul style="list-style-type: none"><li>• Channel dynamics</li><li>• Mekong river case study</li></ul>
	1230-1330	<b>Lunch</b>
	1330-1530	<b>Practical exercise 2</b>
	1530-1600	<b>Refreshments</b>
	1600-1700	<b>State practice and dispute resolution for water boundary problems</b> <ul style="list-style-type: none"><li>• Problems of identification and interpretation</li><li>• Managing alternative lines</li><li>• Mechanisms for third party dispute resolution</li></ul>
	1900	<b>Dinner, Senate Suite, Durham Castle</b>

Wednesday 14 July	0900-1015	<b>Bilateral commissions: case study of the Second Brazilian Boundaries Commission</b> <ul style="list-style-type: none"><li>• Bilateral cooperation</li><li>• Boundary identification</li></ul>
	1015-1100	<b>Commissions for transboundary water management</b> <ul style="list-style-type: none"><li>• Basin/multilateral and joint commissions</li><li>• Effective structures and mandates</li></ul>
	1100-1130	<b>Refreshments</b>
	1130-1230	<b>Monitoring and analysing freshwater change</b> <ul style="list-style-type: none"><li>• Use of remotely-sensed imagery</li><li>• Coordinating research</li></ul>
	1230-1300	<b>Wrap-up</b>
	1300-1400	<b>Lunch</b>

IBRU reserves the right to modify the programme as necessary without notice to participants

### Cover picture:

The Jordan River marks the boundary between Israel/the occupied West Bank and Jordan north of the Dead Sea. It is also the main fresh water source in this arid region but is under tremendous strain due to increasing demand from all the riparian states. (George Gerster/Panos Pictures)

### What will it cost?

The cost of the workshop is £1650 per participant. Fees for UK based participants are normally subject to VAT of 17.5%.

We regret that payment can only be accepted in GBP sterling, however, we are able to accept payment by most major credit and debit cards.

Full payment must be received prior to the workshop to guarantee the booking.

In addition to tuition and all course materials, the fees cover the following:

- Accommodation in a single en-suite room at Collingwood College for the nights of 11 – 13 July 2010
- Evening dinner on 11 – 13 July 2010
- Breakfast, lunch and refreshment breaks on 12 – 14 July 2010

Accommodation for additional nights can be arranged at extra cost, subject to availability.



Durham Castle - previously the chief residence of the Bishops of Durham, part of Durham's World Heritage Site and the venue for the IBRU workshop dinner.

### How to book

Places are limited and early booking is highly recommended:

- 1 Contact the IBRU Events Team or complete the online booking form at [www.durham.ac.uk/ibru/workshops/booking](http://www.durham.ac.uk/ibru/workshops/booking)
- 2 Acknowledgement of the provisional booking will be sent by email, letter or fax with information on how to pay.
- 3 Once payment is received, a booking confirmation will be sent along with additional travel information.
- 4 If payment is not received by the deadline specified, the place will be released. The original booking will be transferred to a waiting list and the place will only be confirmed when payment is received and if a place is still available.

### Additional Information

#### Venue

Workshop accommodation and teaching will be based at Collingwood College which is part of Durham University (approximately 20 minutes walk from the city centre) Full details of the venue will be sent to participants following payment and confirmation of the booking.

#### Language

Teaching and workshop materials will be in English. We regret that we are unable to provide translation or interpreting services.

#### Cancellation of a booking

Cancellations must be received in writing no later than Friday 25 June 2010 and will be subject to a £50 cancellation fee unless a substitute participant is offered. After this date the full registration fee will apply. A substitute may be made at any time for a registered participant. IBRU must be informed as early as possible of any changes to participants attending.

#### Travel to Durham

Durham is located in the North East of the United Kingdom and is accessible by road, rail and has direct links with major airports, including London. Maps and full details of travel information will be sent to all participants following receipt of payment and confirmation of the booking.



### Contact Information

If you have any questions about the workshop please contact the IBRU Events Team

International Boundaries Research Unit  
Department of Geography, Durham University, DH1 3LE United Kingdom

Tel: +44 (0) 191 334 1965 Fax: +44 (0)191 334 1962

Email: [ibru-events@durham.ac.uk](mailto:ibru-events@durham.ac.uk)

Web: [www.durham.ac.uk/ibru/workshops](http://www.durham.ac.uk/ibru/workshops)

