



IUGG

MELBOURNE Australia 2011

2011 International Union of Geodesy and Geophysics (IUGG) General Assembly NEWSLETTER & FIRST CIRCULAR

www.iugg2011.com

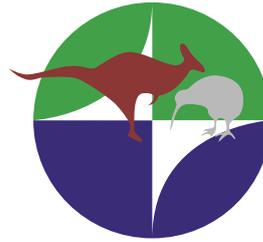
IUGG COMES TO MELBOURNE, AUSTRALIA



Melbourne, the capital of Victoria, Australia's garden state, is situated on the picturesque tree lined banks of the Yarra River. Melbourne is located on the east coast and is the second largest city in Australia.

Over 3.5 million people live in the city, which has been voted 'the world's most liveable city' on a number of occasions. It is thriving and cosmopolitan with a unique balance of graceful old and striking new architecture surrounded by parks and gardens. Melbourne has a wealth of culture, is Australia's leader in theatre, sport and fashion, and has some of the finest restaurants in the country.

With an extensive range of hotels and apartments all within walking distance to the IUGG General Assembly venue, the Melbourne Convention and Exhibition Centre, coupled with the ease of Melbournian public transport, everything is within an arm's reach.



THE GENERAL ASSEMBLY

The 2011 International Union of Geodesy and Geophysics (IUGG) General Assembly will bring together the eight scientific associations of the IUGG: IAVCEI, IASPEI, IACS, IAPSO, IAGA, IAHS, IAG and IAMAS. IUGG will be an exciting, multi-disciplinary general assembly on cutting edge science.



The General Assembly will be marked by a scientific program of outstanding plenary speakers, a comprehensive program of state of the art symposia organised by each IUGG association, a compelling keynote speakers program, and the highlight of IUGG conferences, an inter-disciplinary, inter-association program of symposia addressing major scientific issues of global and regional significance and concern.

IUGG 2011 is an essential General Assembly for all scientists, research students and industry personnel engaged in the sciences of climate and climate change, natural hazards, atmospheric and ocean dynamics, geodesy, seismology and geodynamics, geomagnetism and aeronomy, cryospheric science, or the science of ice, volcanology and geochemistry, and hydrology and hydrogeology.

REGISTRATION NOW OPEN!

Delegates can register online or download the manual registration form from the website - www.iugg2011.com/rego.asp

REGISTRATION KEY DATES

| | |
|----------------------------------|---------------|
| Early Bird Registration Deadline | 11 April 2011 |
| Standard Registration Deadline | 24 June 2011 |



PRE & POST TOURS

Australia and New Zealand are fantastic destinations for holidays and tourism, offering exotic touring opportunities. The indigenous Aboriginal culture of Australia and the Maori culture of New Zealand are unique in the world.

Please visit the social and tours page of the website for further information www.iugg2011.com/social.asp



BOOK YOUR AIRFARES EARLY
While international airfares remain at their lowest on record

ACCOMMODATION

The General Assembly Managers have negotiated a range of hotels at competitive room rates. All of the hotels are within easy walking distance to the Venue.



OFFICIAL HOTEL - TRAVELODGE SOUTHBANK

Join your colleagues at the Assembly Official Hotel and receive complimentary breakfast each morning.

Travelodge Southbank is ideally positioned for you to experience all that this vibrant city of Melbourne has to offer. You are within easy walking distance to the convention centre, great restaurants, cafés and bars (chargeback facilities available with some restaurants in Southbank), impressive shopping and renowned art galleries.

The Melbourne Cricket Ground, Melbourne Aquarium, Rod Laver Arena, the Royal Botanic Gardens and the Melbourne Exhibition Centre are just minutes away from the hotel.



Other Hotel Options Include:

- Pensione Hotel Melbourne
- Hotel Enterprize
- Batman's on Collins
- Melbourne Short Stay Apartments
- Medina Executive Northbank
- Vibe Savoy Melbourne
- Crowne Plaza Melbourne
- Hilton Melbourne South Wharf

Please visit the General Assembly website for further accommodation information.

www.iugg2011.com/accommodation.asp



SCIENTIFIC PROGRAM

The 2011 Scientific Program of IUGG includes three categories of symposia and a number of workshops on a wide range of geophysical themes. These include:

Union Symposia which cover a wide range of themes of concern to the eight Associations. Invited speakers feature in these Symposia, supported by poster presentations selected by the convenors from those submitted. Several of the Union Symposia are expanded or followed in greater depth in Joint Symposia or in Association Symposia.

Joint Association Symposia with keynote speakers and scientists whose presentations (which consist of oral and poster presentations) are accepted by the session convenors. The themes have been devised by at least two Associations, one of which is the lead Association. Some Joint Symposia themes are developed further separately in Association Symposia and Workshops.

Association Symposia with keynote speakers and scientists whose presentations (which consist of oral and poster presentations) are accepted by the session convenors. The eight (8) Associations are:

- IACS International Association of Cryospheric Sciences
- IAG International Association of Geodesy
- IAGA International Association of Geomagnetism and Aeronomy
- IAHS International Association of Hydrological Sciences
- IAMAS International Association of Meteorology and Atmospheric Science
- IAPSO International Association for the Physical Sciences of the Ocean
- IASPEI International Association of Seismology and Physics of the Earth's Interior
- IAVCEI International Association of Volcanology and Chemistry of the Earth's Interior
- **OUTLINE OF PROGRAM**

The Scientific Program will run from Tuesday 28 June until Thursday 7 July. Each day will consist of four 90 minute sessions and one poster session (excluding the first Tuesday and the second Thursday). The Tuesday afternoon session of the first week will be the opening ceremony, the Thursday afternoon session of the second week is the closing ceremony, three morning sessions will have plenary presentations.

Please visit www.iugg2011.com/program.asp for further information.



FIELD TRIPS

A number of field trips and workshops are being planned to a range of geologically interesting sites within Australia and New Zealand.

IAVCEI FIELD TRIPS

- Factors that influence eruption styles from magmatic to phreatomagmatic in intraplate basaltic volcanic fields: the Newer Volcanics Province of southeastern Australia.
- The Whitsunday Silicic Large Igneous Province: An IAVCEI Large Igneous Provinces Commission Field Workshop.
- Drought-quenching submarine volcanic textures: lavas, sills and felsic pyroclastic deposits of the Ural Volcanics, New South Wales.
- Tertiary submarine basaltic volcanism, Cape Grim and Stanley, NW Tasmania.
- Auckland Volcanic Field: basaltic volcanism and society.
- Young caldera volcanism: Taupo and Okataina.
- Getting into hot water: geological controls on fluid flow and geothermal activity in the central Taupo Volcanic Zone, New Zealand.
- Active volcanism in the Vanuatu volcanic arc, SW Pacific.
- Prehistoric and recent deposits of Mayon and Taal volcanoes.
- Grace and Hazard of Semeru Volcanoes.
- Rabaul Caldera.

IAPSO FIELD TRIP

- The Australian 'mega-tsunami' debate.

IACS FIELD TRIP

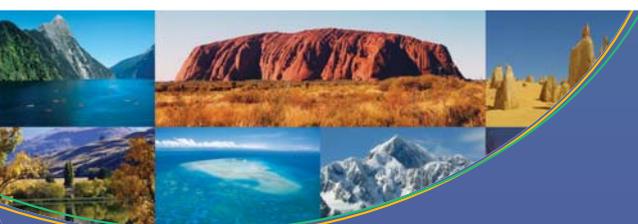
- New Zealand Cryosphere in a Changing Climate.

IASPEI FIELD TRIP

- Where the plate boundary meets the Capital: Active faults and earthquakes in and around Wellington, New Zealand.

Further details including brief descriptions of each field trip and prices can be found online www.iugg2011.com/fieldtrips.asp

A number of workshops are also being planned; further details will be available in the coming months.



CALL FOR ABSTRACTS

The IUGG 2011 Scientific Program Committee invites the submission of abstracts on original work to be considered for oral or poster presentation at the IUGG 2011 General Assembly. The deadline for submission of abstracts is **Monday 17 January 2011**.

ABSTRACT KEY DATES

| | |
|---|-----------------|
| Call for Abstracts Open | 16 August 2010 |
| Call for Abstracts Close | 17 January 2011 |
| EXCEPT FOR IAHS Pre-published Symposia | |
| JH01, JH02, H01, H02, H03 and H04 | 8 November 2010 |
| Authors Notified of Acceptance | 28 March 2011 |
| Author Registration & Early Bird Deadline | 11 April 2011 |

Please visit the general assembly website for submission guidelines.

www.iugg2011.com/program-abstracts.asp

PLENARY SPEAKERS

The following internationally renowned scientists have accepted invitations to be Plenary Speakers at IUGG 2011.



PROFESSOR THOMAS JORDAN

University of Southern California, USA

Thomas H. Jordan is Director of the Southern California Earthquake Center, a distributed organization involving more than 60 universities and research institutions. Jordan's research is focused on system-level models of earthquake processes, earthquake forecasting and forecast-evaluation, and full-3D waveform tomography. His scientific interests include continent formation and evolution, mantle dynamics, and statistical geology. He has authored approximately 200 scientific publications, including two undergraduate textbooks. He is a member of the California Earthquake Prediction Evaluation Council and serves on the Governing Board of the National Research Council and the Board of Directors of the Seismological Society of America

DR. ANNY CAZENAVE, *Laboratoire d'études en géophysique et océanographie spatiales LEGOS Observatoire Midi-Pyrénées, FRANCE*

PROFESSOR MARCUS ROTHACHER, *Institute of Geodesy and Photogrammetry, SWITZERLAND*

DR. BRIAN KENNETT, *Research School of Earth Sciences, the Australian National University, AUSTRALIA*

DR. GREG AYERS, *Bureau of Meteorology, AUSTRALIA*



DR. DAVID VAUGHAN

, *British Antarctic Survey, UNITED KINGDOM*

David Vaughan first went to Antarctica since 1985, as a surveyor's assistant, and since has led seven scientific field campaigns, including a major UK/Texas collaboration to survey one of the most remote part of the continent. He currently leads the British Antarctic Survey's research programme into ice sheets and their past and future changes, and coordinates, ice2sea, a major European-funded programme involving researchers in 24 institutions, which will deliver global sea-level rise projections for the next 200 years. He was a coordinating lead author in Working Group II for the fourth assessment of the Intergovernmental Panel on Climate Change, and will undertake the same role in Working Group I for the fifth assessment. He has research interests in many aspects how ice interacts with climate, and how climate change is affecting the polar regions. He has written widely for academic and popular publications and is an honorary Professor at the School of Environment and Society at Swansea University, where he teaches the course, "Science, the Media and Policymaking".



DR. DEMETRIS KOUTSOYIANNIS

National Technical University of Athens

Demetris Koutsoyiannis received his diploma in Civil Engineering from the National Technical University of Athens (NTUA) in 1978 and his doctorate from NTUA in 1988. He is currently professor of Hydrology and Analysis of Hydrosystems in NTUA; also co-Editor of Hydrological Sciences Journal; and member of the editorial board of *Hydrology and Earth System Sciences* (formerly also of *Journal of Hydrology and Water Resources Research*). He has taught undergraduate and postgraduate courses in hydrometeorology, hydrology, hydraulics, hydraulic works, water resource systems, water resource management, and stochastic modelling.



DR. DANIEL BAKER

University of Colorado, USA

Dr. Daniel Baker is Director of the Laboratory for Atmospheric and Space Physics at the University of Colorado-Boulder and is Professor of Astrophysical and Planetary Sciences and Professor of Physics there. His primary research interest is the study of plasma physical and energetic particle phenomena in planetary magnetospheres and in the Earth's vicinity. He conducts research in space instrument design, space physics data analysis, and magnetospheric modeling. Dr. Baker has published over 750 papers in the refereed literature and has edited six books on topics in space physics.



PROFESSOR STEPHEN SELF

United States Nuclear Regulatory Commission, USA

Stephen Self has studied volcanic rocks in many parts of the world, concentrating on large (flood) lava effusions, explosive eruptions, and the impact of volcanism



on the atmosphere. His current research interests include mechanisms and products of flood-basalt and explosive super-eruptions. Steve has published and lectured widely on the impact of large-scale volcanic eruptions on the environment and society, relevant to both our present world and past Earth history. He is currently based in the US where he is Senior Volcanologist with the US-Nuclear Regulatory Commission.

IUGG 2011 GENERAL ASSEMBLY GRANTS

The Local Organising Committee of IUGG 2011, through the generosity of the State Government of Victoria and the Melbourne Convention and Visitors Bureau, together with the 8 Scientific Associations of IUGG, are offering a limited number of grants to provide assistance for postgraduate students and scientists from developing countries to attend IUGG 2011.

Australian and New Zealand postgraduate students can apply to be a Student Volunteer for the duration of the General Assembly.

As a Student Volunteer you will contribute on a voluntary basis to various organisational tasks during the General Assembly (e.g as an audio-visual backup person in a meeting room, by providing assistance to delegates on arrival in Melbourne and during the meeting).

One of the aims of the program is to ensure that Volunteers are able to attend scientific sessions in their discipline.

Please visit <http://www.iugg2011.com/funding.asp> for further information and to submit an application.

Applications close on Monday 17 January 2011.

Successful applicants will be notified via email by Monday 28 March 2011. These students will be required to complete a registration form for IUGG 2011 (to be supplied at the time of notification) and submit it by Monday 11 April 2011.

Major Sponsors



Silver Sponsor



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IUGG 2011 General Assembly Managers
Managed by **arinex** Pty Limited

GPO Box 128,
Sydney NSW 2001, Australia

Phone: +61 2 9265 0700

Fax: +61 2 9267 5443

Email: iugg2011@arinex.com.au

IUGG 2011 COMMITTEE

IUGG 2011 Melbourne Local Organising Committee

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Deputy Chair and IUGG Liaison and News

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