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The *IAG Newsletter* is under the editorial responsibility of the *Communication and Outreach Branch (COB)* of the IAG.

It is an open forum and contributors are welcome to send material (preferably in electronic form) to the IAG COB (newsletter@iag-aig.org). These contributions should complement information sent by IAG officials or by IAG symposia organizers (reports and announcements). The *IAG Newsletter* is published monthly. It is available in different formats from the IAG new internet site: <http://www.iag-aig.org>

Each *IAG Newsletter* includes several of the following topics:

- I. news from the Bureau Members
- II. general information
- III. reports of IAG symposia
- IV. reports by commissions, special commissions or study groups
- V. symposia announcements
- VI. book reviews
- VII. fast bibliography

Books for review are the responsibility of:

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General Announcements

New Year's Message from the IAG President

Dear Friends and Colleagues,

the year 2005 was a very busy year for IAG. The events related to the earthquake off the coast of Sumatra and the devastating tsunami affecting a large region of our globe demonstrated the importance of precise geodetic measurements and analysis, in particular of the development and deployment of early warning systems based on geodetic tools.

From the IAG perspective the Scientific Assembly in Cairns (joint with the corresponding events of IAPSO and IABO) in summer 2005 was the outstanding event. The results were already summarized in an IAG newsletter. Thanks to the local and the scientific organizing committees and thanks to the participants of the meeting, the assembly was a full success. It seems that the proceedings will be available early in 2006. Let me congratulate the organizers contributors and reviewers making this impressive time schedule reality!



We have entered the second half of the 2003-2007 IAG/IUGG "legislature period". The 2006 IAG Executive Committee Meeting will be attached to the EGU Assembly in Vienna (April 2006). We will hear of the first steps made by the newly elected steering committee of the GGOS project (led by Prof. Markus Rothacher), which does now focus on the GGOS implementation. Also, we will hear about the progress made by the IAG nomination committee to ensure a timely election of the IAG officers for the 2007-2011 IAG period.

Several important IAG-related events will take place in 2006. Let me mention three of them (for a complete list, please visit the IAG homepage):

- The sixth Hotine-Marussi-Symposium on theoretical and computational geodesy will take place in Wuhan, China, end of May 2006. It will, among other, focus on theoretical aspects related to the gravity space missions.
- The first International Symposium of the International Gravity Field Service (IGFS) in Istanbul end of August/beginning of September 2006 will be a benchmark for the creation of the IGFS.
- IAG Commission 1 (Reference Frames) has partly synchronized its "IAG Commission 1 Symposium" with the "XXIII International FIG Congress" in Munich in October in Munich. We expect that the continuation of the collaboration between IAG and FIG (e.g., in the context of AFREF) and the GGOS will be important issues at these events.

The year 2005 was a very busy year, indeed, for IAG. As the above preview indicates, the year 2006 will again be an important year for the Association - even without containing a general or a scientific assembly. It will be, by the way, a comparatively long year thanks to the leap second - where it is debatable whether the additional second is part of 2005 or 2006 (I am sure the IERS will educate me on this issue); in any case we have a net gain, so nobody should complain about lack of time in the near future!

In view of our busy schedule and in view of the work achieved so far, I believe that we all have every reason to be optimistic regarding the future development of our Association. I thank you all for the time and energy devoted to the benefit of IAG and wish you A HAPPY NEW YEAR!

GERHARD BEUTLER
President of IAG

Call for Proposal – Nominations open for IAG Secretary General

The present Secretary General, C.C. Tscherning, has served for 3 periods, and cannot be re-elected. The election of a new Secretary General (SG) will take place in the spring of 2007 together with the election of other officers for the 2007-2011 period.

The commitment associated with this position is heavier than that associated with any of the other IAG executive positions. The IAG executive committee has therefore decided to separate the election of the new Secretary General from the other nominations and elections, because the election is based on a call for proposals, which have to be evaluated by the IAG Executive.

The duties of the SG are described in the by-laws, section 2.5.3, as quoted below. Since the SG will also be the director of the Central Bureau, a nomination automatically implies a commitment to host the Bureau, as well.

According to the by-laws, the SG receives no salary, but the expenses of the SG may be covered by the allocation received from IUGG. However, the funds needed for these expenses have normally exceeded the IUGG allocation, so the organization hosting the SG and thereby the Central Bureau contributes to the travel expenses of the SG and the running of the Central Bureau.

The nominated SG should be prepared to spend at least 1 full day per week on IAG matters, and the Central Bureau hosting organization should provide secretarial assistance equivalent to 2 full days per week. A nomination should therefore include information about the degree to which the hosting organization is prepared to cover, in whole or in part, the expenses of the SG and of the Central Bureau.

The proposal should be submitted to the president of the Nominating Committee, Prof. F. Sansò in electronic form. Proposals may be submitted by the adhering bodies of the member countries, officers, fellows, and members of the Association. Candidates shall be asked to signify their acceptance of nomination and to prepare a resume (maximum 150 words) outlining their position, research interests and activities relating to the Association. The proposal should also state the preparedness to host the Central Bureau, and the financial and secretarial support which may be allocated.

Proposals should be submitted before March, 15, 2007.

Extract from By-Laws:

2.5.3 The SECRETARY GENERAL, shall have the following duties:

- a) Serve as secretary of the General Assembly, the Council, the Executive Committee and the Bureau; arrange for meetings of these bodies, distribute promptly the agenda and prepare and distribute the minutes of all their meetings.
- b) Director of the Central Bureau.
- c) Manage the affairs of the Association, attend to correspondence, and preserve the records.
- d) Circulate all appropriate information related to the Association.
- e) Prepare the reports of the Association's activities.
- f) Perform such other duties as may be assigned to him by the Bureau.

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Meeting Announcements

IAG Sponsored Meetings

Fifteen Years of Progress in Radar Altimetry Symposium

13-18 March 2006, Venice, Italy

Fifteen years after the launch of ERS-1 and TOPEX/POSEIDON, the European Space Agency, in collaboration with the French Space Agency, CNES, is organising an exceptional Symposium on “15 Years of Progress in Radar Altimetry”. For details, visit the website <http://www.esa.int/venice06>.

EUREF Symposium 2006 Riga

17-17 May 2006, Riga, Latvia

The 2006 Symposium of EUREF, the Reference Frame Sub-Commission for Europe of IAG, will be held in Riga, Latvia, from 17 to 20 May, invited by the University of Latvia, State Land Service, Rigas GeoMetrs SIA and Riga Technical University. For further information visit the website <http://euref-2006.lu.lv/>.

3rd IAG Symposium on Geodesy for Geotechnical and Structural Engineering and 12th FIG Symposium on Deformation Measurements

22-24 May, 2006, Baden, Austria

The FIG symposia on deformation measurements and analysis have a long tradition dated back to 1975. The IAG Symposium was established in 1998 and held twice. It will be the first time that the two symposia will be held together as a joint conference. Researchers, engineers, educators, designers, manufacturers, contractors, public authorities, and other professionals are cordially invited to attend this international event. Please also visit the symposium website for further details: <http://info.tuwien.ac.at/ingeo/sc4/baden>.

VI Hotine-Marussi Symposium of Theoretical and Computational Geodesy: Challenge and Role of Modern Geodesy

29 May - 2 June 2006, Wuhan University, PR China

The symposium will be held at Wuhan University, PR China, 29 May - 2 June 2006. More information will be circulated as soon as available and can be found at the website: http://www.sgg.whu.edu.cn/icct_hm.html

“Gravity Field of the Earth” – 1st International Symposium of the IGFS

28 August - 1 September 2006, Istanbul, Turkey

The 1st symposium of IGFS as being a continuation of the symposia series of the former International Gravity and Geoid Commission will be held in Istanbul, Turkey. The major objective is to bring together the geoscientists working in general areas of modeling the Earth's gravity field. For more information visit the website: www.igfs2006.org.

Geodetic Reference Frames GRF2006

9-13 October 2006, Munich, Germany

The Commission 1 „Reference Frames“ of the International Association of Geodesy (IAG) invites scientists and experts from all countries to participate in the Symposium “Geodetic Reference Frames”. The symposium shall give the opportunity to present new ideas, discuss improved models and approaches, and report on latest results of the definition and realization of geodetic reference frames. Detailed information is available at the symposium website: <http://iag.dgfi.badw.de/?grf2006>.

IAG Related Meetings

4th IVS General Meeting

January 9-13, 2006, Concepción, Chile

The fourth General Meeting of the International VLBI Service for Geodesy and Astrometry (IVS) will be held January 9-13, 2006, in Concepción, Chile. The purpose of the meeting is to assemble representatives from all IVS components to share information, hear reports, and plan future activities. The meeting also provides a forum for interaction with other members of the VLBI and Earth science communities. For further details visit the webpage <http://ivscc.gsfc.nasa.gov/meetings/gm2006>.

ION National Technical Meeting 2006

January 18-20, 2006, Hyatt Regency Hotel, Monterey, California, USA

The Institute of Navigation hosts three technical meetings each year: The National Technical Meeting in January; the Annual Meeting in June; and the Satellite Division Technical Meeting, ION GNSS, in September. Please visit the webpage <http://www.ion.org/meetings/ntm2006program.cfm> for further information

NTRIP Symposium & Workshop on "Streaming GNSS Data via Internet"

6 - 7 February, 2006, Frankfurt am Main, Germany

The BKG will host a two-day symposium about "Streaming GNSS data via Internet" on 06-07 February 2006 in Frankfurt am Main / Germany. Under the auspices of RTCM, EUREF and EuroGeographics, the symposium's aims are to share knowledge, experiences and innovative ideas concerning "Networked Transport of RTCM via Internet Protocol (NTRIP)".

More information: http://igs.ifag.de/index_ntrip_symp.htm.

5th FIG Regional Conference – Promoting Land Administration and Good Governance

March 8-11, 2006, Accra, Ghana

The focus of the 5th FIG Regional Conference will be on land administration and good governance as conditions for sustainable development. It will discuss these topics also through the technical tools that modern surveying technology can offer in promoting these main goals. More information on the conference web site: www.fig.net/accra.

EGU General Assembly 2006

02 – 07 April 2006, Vienna, Austria

The EGU General Assembly 2006 will bring together geoscientists from all over Europe and the rest of the world into one meeting covering all disciplines of the Earth, Planetary and Space Sciences. The EGU invites all geoscientists to participate in the assembly, submit contributions to the topical sessions and share their research with colleagues and friends. Please also visit the conference website for further details: <http://meetings.copernicus.org/egu2006/>.

IEEE/ION PLANS 2006

April 24-27, 2006, Loews Coronado Bay Resort, San Diego, California

IEEE – the world's largest professional engineering organization – through its Aerospace and Electronics Systems Society (AESS), and the Institute of Navigation (ION), invite you to attend and enjoy the Position Location and Navigation Symposium, PLANS 2006. PLANS is sponsored every two years. For details, please visit <http://www.plans2006.com/>.

Asia Oceania Geosciences Society's 3rd Annual Meeting (AOGS 2006)

July 10-14, 2006, Singapore, Malaysia

The AOGS mission is to promote geophysical science for the benefit of humanity in Asia and Oceania. Hence, AOGS 2006 will once again bring together geoscientists from all over Asia, Oceania and the rest of the world to present their works and ideas. AOGS invites all geoscientists to convene their own sessions and present their findings at AOGS 2006 in Singapore. For further details, visit <http://www.asiaoceania-conference.org/>.

3rd International conference on Cybernetics and Information Technologies, Systems and Applications

July 20-23, 2006, Orlando, Florida

CITSA '06 is an International Multi-Conference being organized with the purpose of providing researchers, practitioners, developers, consultants, and end-users of computerized, communications and/or control systems and technologies, as well as their industrial and social applications in the private

and the public sectors, an opportunity to join in a common place sharing experience and knowledge. For details, please visit the conference website <http://www.info-cybernetics.org/citsa2006/>.

Meeting Reports

Dynamic Planet 2005 – FINAL REPORT

"Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools"
A Joint Assembly of the IAG, IAPSO and IABO
22 - 26 August 2005, Cairns, Australia

Summary

A Joint Assembly of the International Associations of Geodesy (IAG), the Physical Sciences of the Oceans (IAPSO) and Biological Oceanography (IABO) was held in Cairns in August 2005. The 5 day conference attracted 724 (paid) delegates from 62 countries and involved some 812 presentations. The total budget turn-over was some \$471 642.00 that comprised \$375 460.00 in registrations, \$86000 in grants and sponsorships, notably from the Australian Federal Government (and Academy of Science), Geosciences Australia, CSIRO and Land Information N.Z. Twelve national and international exhibitors were also present.

We extend our sincere thanks to all these organizations, UNSW and the ANU for their support. Expenditures within a lean budget program were carefully monitored. Some \$135 000.00 was also obtained from the Associations to support delegates from developing countries. The Cairns Convention Centre was an ideal venue. In the following report, we outline how the conference was organised. In almost all aspects, feedback from delegates and our International Executives indicated that the conference was a great success. There were some minor stumbling blocks for the LOC prior to the conference, but none that could not have been more rapidly dealt with through better prior planning and foresight. These are listed along with recommendations for future conferences. The LOC thanks Rebecca Deal and ICMS Australasia for their professional and patient assistance throughout.

Conference Planning

Dynamic Planet 2005 was a unique Joint Assembly of three International Associations:

- IAG (International Association of Geodesy)
- IAPSO (International Association of the Physical Sciences of the Ocean)
- IABO (International Association of Biological Oceanography)

The conference theme was "Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools".

Informal meetings were held between Chris Rizos and John Middleton (UNSW) beginning February 2003 leading to the first committee meeting was held on 18 June 2004 at the UNSW at which stage the decision was made to appoint ICMS Australasia (later renamed Event Planners Australia) as Professional Conference Organiser. The event team took the pressure off the core committee and became the contact point for all internal and external conference communication. The Event Manager was the person was also sent reminder emails to the committee in the lead up to meetings to ensure actions were complete. This kept planning on track with the set timelines.

The first items decided were the committee roles and responsibilities:

Chris Rizos- President
Paul Tregoning - Vice President/ Scientific Program Chair
John Manning - Secretary
John F Middleton - Treasurer
Ramesh Govind - Committee
Les Fehlhaber - Committee
Richard Coleman - Committee
Graham Baker - Committee

Peter Morgan - Committee
Matt Higgins - Committee
Clement Ogaja - Committee
Graeme Blick- Committee
Scientific Program Committee: Paul Tregoning (Chair), Richard Coleman (IAG), John Middleton (IAPSO).

The committees met face-to-face on a semi-regular basis.

1. Marketing

The strategic goals of Dynamic Planet 2005 were agreed as follows:

1. To attract 800-1000 delegates to Cairns
2. Achieve \$80 000 in sponsorship sales
3. Achieve \$50 000 in government support
4. Achieve \$40 000 in exhibition sales

The conference was targeted at both members and non-members of IAG, IAPSO and IABO.

Delegate segments to be approached/targeted included: Academics, Surveyors, Oceanographers, Geoscientists, Marine Biologists, Cartographers, Students, those involved in remote sensing and other related disciplines.

The major supporters of the meeting (both sponsorship and exhibition) were:

- Government Bodies
- Suppliers of Surveying and Oceanographic Equipment
- GPS Companies
- CAD Developers & Consultants
- Publishers - Blackwells, Springer Verlag

The aim was to position the conference as a world-first event with a scientific program covering geosciences. To achieve the above goals a wide range of marketing collateral was produced and distributed over an 18 month period. The distribution details are outlined below.

First Announcement

An initial flyer was prepared by Chris Rizos and John Middleton in February 2003 to begin proceedings. During pre-planning, it became evident that first approaches to major sponsors must be made by the parent associations (IAPSO, IAG, IABO), rather than the LOC itself. With ICMS appointed, the following was done: 5000 1st Circulars were printed. Some of the areas of distribution have included:

- 300 EOI's taken by John Manning to GIANT /GIG/JCADM/ANTEC WG meetings 23-25 July 2004 Bremenhaven, Germany
- 300 EOI's taken by John Manning to SCAR XXVII Science Week 26-30 July 004 Bremenhaven, Germany
- 400 EOI's sent to Western Pacific Geophysics Meeting 16-20 August 2004 Hawaii, USA
- 100 EOI's sent for promotion at PCGIAP Workshop and Executive Board Meeting
- 400 EOI's to be sent to WA for the 12th Australasian Remote Sensing and Photogrammetry Conference
- 150 EOI's to be sent to 5th European Conference on Geostatics for Environmental Applications

A5 Flyers

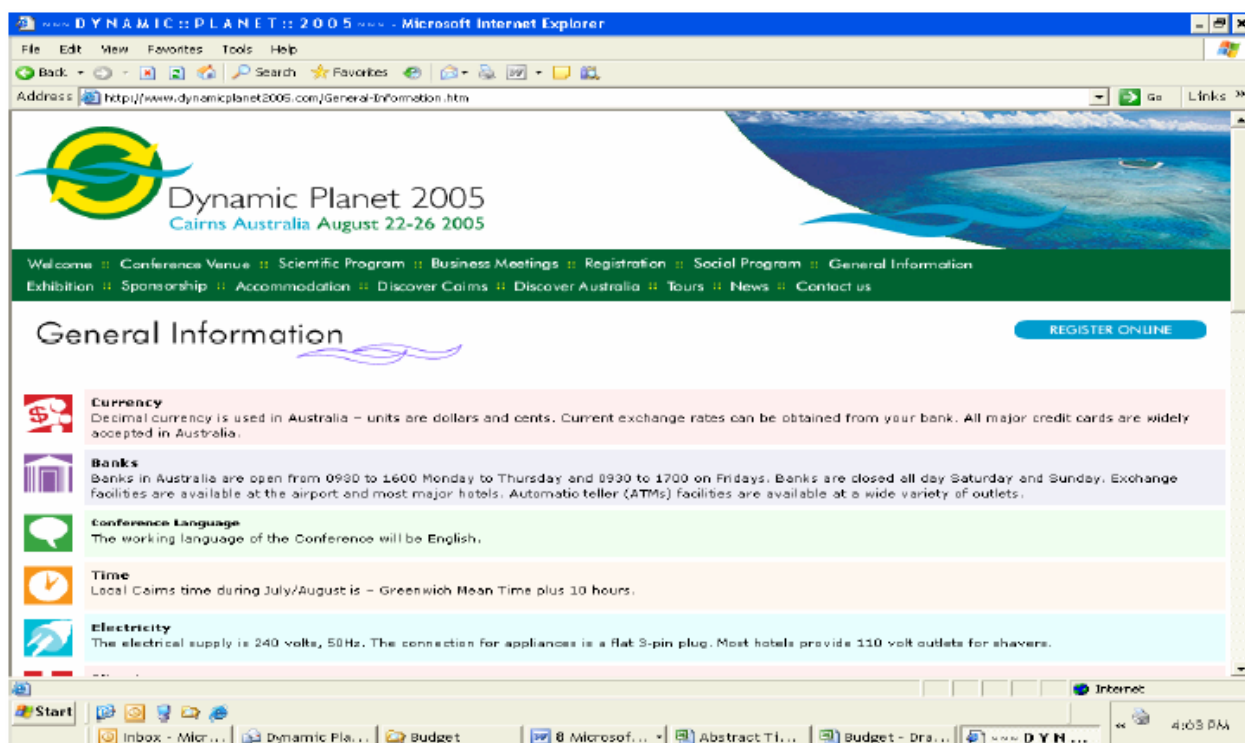
500 flyers sent to the West Australian Land Information Systems (WALIS) held in Perth
500 flyers sent to Narelle Hall at AMSA for inclusion in the AMSA Bulletin

Registration Brochure and Call for Papers

6000 copies of the Registration Brochure were produced.

2138 were sent to the EOI database
 500 were sent to Chris Rizos
 130 were sent to Ramesh Govind / Clement Ogaja (Geoscience Australia)
 200 were sent to Graeme Blick (Land Information New Zealand)
 50 were sent to Lawrence Mysak(IAPSO) to distribute at AGU Meeting in San Francisco
 100 were sent to Paola Rizzoli (IAPSO) to distribute at EGU in Vienna 2005
 150 were sent to Ruth Neilan - Director IGS Central Bureau for distribution
 30 were sent to Matt Higgins, Senior Surveyor, Qld Department of Natural Resources
 200 were sent to the 8th AMS Polar Meteorology and Oceanography Conference in San Diego
 500 were sent to 1st International Conference and Exhibition on Geo-Resources in the Middle East and South Africa
 80 were sent to the 15th Annual Conference Australian Society for Biomaterials
 25 were sent to Tom Beer (IAPSO) - CSIRO Environmental Risk Network
 45 were sent to the Asia Oceania Geophysical Society Conference (John Middleton; IAPSO) in July 2005
 250 were to the ASMA2005 Conference (John Middleton; IAPSO)

Website & Ezines



WWW.DYNAMICPLANET2005.COM

The conference website was designed, hosted and updated by ICMS Australasia. Website content was prepared by both the Organising Committee and ICMS Australasia. It included the following pages:

- Welcome
- Scientific Program
- Call for Papers
- General Information
- Registration
- Social Program
- Conference Venue
- Exhibition
- Sponsorship
- Accommodation
- Discover Cairns

- Discover Australia
- Tours
- News
- Contact us

Website Statistics

The website was an important tool in the organisation of the conference as it became a portal to all relevant information. Both national and international delegates were able to access program, registration and general information for the conference which circumvented any potential problems based on time difference. The value of this level of information being available is highlighted by the high number of repeat visitors to the site. The website was also used to manage the Call for Papers and allowed the organisers to list contact details of convenors and the committee to ensure all presenters were able to contact the right people at all times regarding any questions. It is highly recommended that any future conference invest in a user-friendly website to ensure that all delegates have an up to date reference point.

E-zine

10 E-zines (electronic newsletters) were sent to the database and out to a number of related organisations with requests to forward to their membership. The e-zines covered a range of conference related material including Call for Papers, Registration deadlines and Program information. At the close of the conference there were 2694 contacts on the e-zine list. These were forwarded to the AMSA membership (~400) by John Middleton (IAPSO).

Advertising Summary

One advertisement was developed for the Conference - 1 x ¼ page ad. The ad was distributed to related publications and were produced both free of charge and in return for payment. A promotional statement was also sent to the industry with a request to include where possible in any calendar or conference listings. The conference ad featured in Position Magazine (April 2005 Edition) and EnviroInfo, and was listed on the following websites:

- American Geological Institute www.agiweb.org
- Aquatic Network www.aquanet.com
- Asian Surveying and Mapping www.asmmag.com/ASM/inde
- Australian Institute of Geoscientists www.aig.asn.au/events.asp
- Australian Marine and Coastal Community Network www.mccn.org.au
- Australian Spatial Information Business Association* www.asiba.com.au
- Bureau Gravimetric International bgi.cnes.fr:8110/
- Environment Institute of Australia and New Zealand Info in the conference n/letter
- European Geophysical Society www.copernicus.org/EGS
- Geospatial Information & Technology Association www.gita.org
- International Association for Biological Oceanography www.iabo.org
- International Association of Geodesy www.iag-aig.org
- International Association for the Physical Sciences of the Ocean www.iugg.org/iapso
- International Council of Scientific Unions** www.icsu.org/index.php
- International Hydrographic Organisation www.iho.shom.fr/
- International Steering Committee for Global Mapping www.iscgm.org/html4/index
- International Union of Geodesy and Geophysics www.iugg.org
- Position Magazine www.giuser.com.au/POS/
- The Association for Women Geoscientists www.awg.org
- The American Surveyor Online www.theamericansurveyor.com
- The Royal Society of New Zealand www.rsnz.org/news/events
- Western Australian Land Information System (WALIS) www.walis.wa.gov.au

* Australian Spatial Information Business Association circulated the website request email to all members.

** International Council of Scientific Unions distributed the website request email to all members.

** A website request was sent to the International Council of Scientific Unions, and whilst they were unable to place it on their website, they forwarded the information to the relevant departments within the organisation.

Collateral Summary

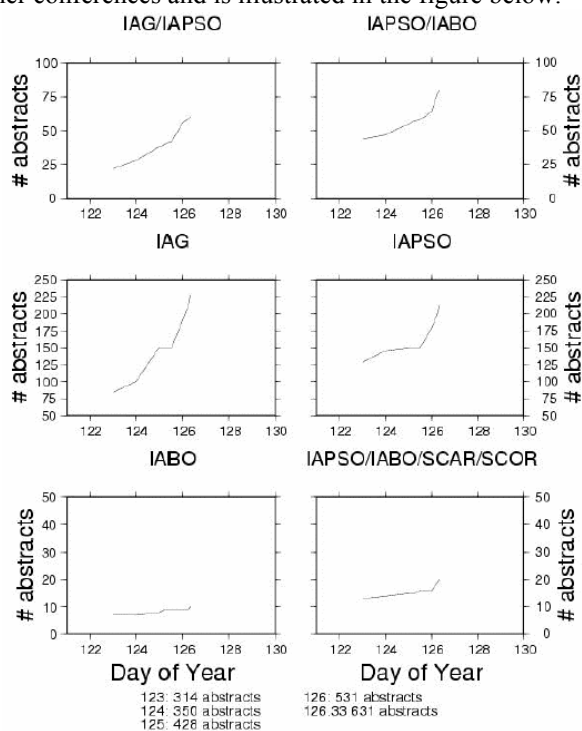
The following collateral was produced for the conference.

- Letterhead and Stationery LOC/ICMS LOC/ICMS
- Website ICMS N/A
- Electronic Marketing ICMS ICMS
- 1st Announcement/EOI ICMS LOC, ICMS
- Call for Papers ICMS ICMS, LOC
- Registration Brochure ICMS ICMS, LOC
- Sponsorship Brochure ICMS ICMS
- Flyer ICMS ICMS

2. Registration

Summary

A total of 745 delegates (724 paid) attended the conference and 812 presentations were made (see section 3). The bulk of attendees came from Australia (157), Japan (73), PR China (39), US (109), UK (25) and Germany (46). The pattern of abstract submissions versus day number of 2005 followed that at other conferences and is illustrated in the figure below:



The figure above shows that by 6.45pm Friday May 6th (day 126.33 Australian time), the number of submissions (631) had doubled since the previous Tuesday. By the following Monday (May 9th), the total was near 910. However, about 100 of these submissions would subsequently be withdrawn leading to a total of 812 presentations.

Registration Procedure

Delegates were invited to register for Dynamic Planet 2005 from October 2004. As many of the delegates had to apply to their institutions for funding to attend the conference it is important to give them enough notice to organise their applications. A registration brochure was printed and delegates had the option to register via post or fax using the printed registration form in the Brochure or using the on-line form available on the website. Delegates could also book accommodation. The Registration Brochure contained program information including the Call for Papers. Also included was information on registration rates and entitlements, an outline of the Social Program and accommodation information. The early-bird deadline was 3 months prior to the conference and details are in the table

below. For future conferences it is recommended that the Registration Brochure be produced at least one year before the conference to allow for planning and funding applications - particularly for delegates from developing nations.

Important Dates

23 April 2005

Deadline for submission of hard-copy abstracts.

29 April 2005

Deadline for submission of on-line abstracts: Subsequently extended to May 6th

30 May 2005

Deadline for Early-Bird Registration

14 August 2005

Deadline for receipt of postal registrations for Dynamic Planet 2005.

18 August 2005

Deadline for on-line pre-registration for Dynamic Planet 2005.

Onsite registrations were accepted for an increased registration fee.

Registration Entitlements

Entitlements:

Full IAPSO/IABO Delegates and Student fees include:

- All symposium sessions
- Poster Session refreshments
- Morning teas - 22-26 August
- Afternoon teas - 22-25 August
- Entrance to exhibition - 22-25 August
- Conference satchel
- Conference material

Full IAG Delegates fees include:

- All symposium sessions
- Welcome Reception/Poster Session refreshments
- Morning teas - 22-26 August
- Afternoon teas - 22-25 August
- Entrance to exhibition - 22-25 August
- Conference satchel
- Conference material
- Conference proceedings sent out after the event.

Pre-Registered Day registration fees include:

- Symposium sessions for day of registration
- Morning and afternoon teas for day of registration
- Entrance to exhibition for day of registration
- Conference satchel
- Conference material
- On-site Day registration fees include:
 - Symposium sessions for day of registration
 - Morning and afternoon teas for day of registration
 - Entrance to exhibition for day of registration

Accompanying Persons fee includes:

- Welcome Reception / Poster Session refreshments
- Conference satchel

- Conference materials
- 1 Included Tour – Green Island Day Tour

Delegates

Expected total number of delegates was between 800 and 1000. There were eight main delegate types:

1. IAG Delegates
2. IAPSO/IABO/Full Delegates
3. Students
4. Day Delegates
5. Accompanying Persons
6. Exhibitors
7. Sponsors
8. Other (including complimentary, exhibitors and media)

Paid Delegates

Number of IAG Delegates	145
Number of IAPSO/IABO/Full Delegates	420
Number of Day Delegates	38
Number of Students	81
Accompanying Persons	39
Number of Other	1
Total number of paid delegates*	724

**This number excludes free registrations, cancellations and staff of ICMS.*

*Delegate Statistics by Registration Type**

Early Bird IAG	103
Standard IAG	24
IAG Grant	18
Early Bird - IAPSO/IABO/other	314
Standard - IAPSO/IABO/other	74
IAPSO Grant	21
IABO Grant	3
Onsite	8
Student	81
Exhibitor Paid	1
Day	38
Complimentary Sponsor	2
Complimentary	2
Accompanying Person	39
Complimentary Exhibitor	17
Total Number of Delegates*	745

**includes all paid and not paid delegates*

Delegate locations

Number of countries represented

The Dynamic Planet delegates represented these 62 countries:

ARGENTINA	KENYA
AUSTRALIA	KOREA
AUSTRIA	MALAYSIA
BANGLADESH	MEXICO
BELGIUM	MOROCCO
BRAZIL	NEPAL
BRUNEI	NETHERLANDS
BULGARIA	NEW CALEDONIA
CANADA	NEW ZEALAND

CHILE	NIGERIA
CHINA	NORWAY
CZECH REPUBLIC	PERU
DENMARK	PHILIPPINES
EGYPT	POLAND
ESTONIA	PORTUGAL
FIJI	PR CHINA
FINLAND	REPUBLIC OF KOREA
FRANCE	ROMANIA
FRENCH POLYNESIA	RUSSIA
GAMBIA	SOUTH AFRICA
GERMANY	SPAIN
GHANA	SWEDEN
HONG KONG	SWITZERLAND
GREECE	TAIWAN
HUNGARY	THAILAND
INDIA	TUNISIA
INDONESIA	TURKEY
IRAN	UNITED KINGDOM
ISRAEL	USA
ITALY	UZBEKISTAN
JAPAN	VIETNAM

3. Program

Call for Papers

The Call for Papers opened in October 2004. The original closing date for the submission of abstracts was 23 April 2005 for hard copy submissions and 29 April for on-line submissions. However this was later extended to May.

Results

Oral and Poster Presentation:

203 poster presentations were displayed in the exhibition hall. Poster drinks took place in the Exhibition Hall on Monday, Tuesday and Thursday, which gave the delegates the opportunity to network whilst viewing the posters presentations and exhibits. This was a resounding success - many positive comments were received from delegates about the quality of the poster sessions and the drinks provided. In particular, the fact that the drinks were served by waiting staff (rather than delegates queuing up as is standard practice at other conferences) meant that the flow of conversations and discussions was more fluid.

307 oral presentations were conducted throughout the duration of the conference with up to eight concurrent sessions running at one time.

TOTAL PRESENTATIONS PER THEME	Posters	Orals	Total
Joint IAG/IAPSO Sessions	35	42	77
GP1 Ocean circulation and contributions from new gravity field missions (Conveners: D. Chambers, V. Zlotnicki)			
GP2 Global sea-level change: Altimetry, GNSS and tide gauge measurements (Conveners: R. Coleman, G. Mitchum)			
GP3 Oceanography and geodesy in polar regions (Conveners: M. Drinkwater, S. Rintoul)			
Joint IAPSO/IABO Sessions	20	78	98
PB1 Acoustical remote sensing of physical and biological processes in the ocean (Conveners P. Worcester, S. McClatchie)			
PB2 Chemical and physical controls and impacts on marine biota (Conveners: C. Roy, D. Smythe-Wright, J. Hall)			

PB3 Internal waves, mixing, and biological processes in the ocean (Conveners: E. Morozov, J. Hwang)			
PB4 The climate of the last glacial cycle (Conveners: A. Weaver, P. Clarke)			
PB5 Continental shelf, reef processes and biology (Conveners: M. Heron, C. Griffith)			
PB6 Biological and physical interactions in inter-tidal environments (Conveners: G. Perillo, E. Wolanski)			
Joint IAPSO/IABO/SCAR	7	16	23
PBA1 Southern Ocean circulation and marine life (Conveners: S. Nicol, E. Hofmann, V. Strass)			
IAG Sessions	180	163	343
G1 Frontiers in the analysis of space geodetic measurements (Conveners: M. Rothacher, M. King, J. Kusche)			
G2 Gravity field determination from a synthesis of terrestrial, satellite, airborne and altimetry measurements (Conveners: C. Jekeli, M. Kuhn)			
G3 Earth Processes: geodynamics, tides, crustal deformation and temporal gravity changes (Conveners: V. Dehant, P. Tregoning)			
G4 Advances in the realization of global and regional reference frames (Conveners: R. Neilan, J. Dawson, H. Drewes)			
G5 GGOS (Conveners: C. Reigber, Hans-Peter Plag)			
G6 Systems and methods for airborne mapping, geophysics and hazards and disaster monitoring (Conveners: R. Forsberg, C. Rizos, T Kato)			
G7 Atmospheric studies using space geodetic techniques (Conveners: S. Skone, N. Penna)			
G8 Geodesy of the Planets (F. Lemoine, J-P. Barriot)			
IAPSO Sessions	66	174	240
P1 CLIVAR theme I: Interannual climate predictability - ENSO/Indian Ocean/SST impacts on Australian and New Zealand climate variability (Conveners: G. Myers, T. Yamagata)			
P2 CLIVAR theme II: Decadal to Century climate variability of the oceanatmosphere system (Conveners: C. Reason, T. Busalacchi, T. Suga)			
P3 Marine risks and sustainability (Conveners: T. Beer, E. Kontar)			
P4 Argo and GODAE - global and regional partners (Conveners: N. Smith, J. Gould)			
P5 Ocean interactions with sea ice, polynyas, ice shelves and Icebergs (Conveners: D. Holland, I. Allison)			
P6 Deep ocean exchanges with the shelf and upwelling (Conveners: J. Johnson, J. Middleton)			
P7 Processes in oceanic fronts (Conveners: M. Tomczak, I. Belkin)			
IABO Sessions	9	22	31
B1 Pelagic Biogeography (Conveners: A. Pierrot-Bults, P. Ried, G. Hosie)			
B2 Census of Marine Life (Conveners: M. Costello, I. Poiner, R. O'Dor)			

Program Outline

The Dynamic Planet program ran over 5 days and there were up to eight concurrent sessions running at any

one time. There were 3 plenary sessions (featuring a series of abstracts) in Dynamic Planet. The vast majority of the program was concurrent sessions featuring Oral Abstracts. There were also 3 Poster sessions held at 5pm on Monday, Tuesday and Thursday in the Exhibition.

4. Venue

Cairns Convention Centre

The Cairns Convention Centre was the conference venue.

Rooms in use 21 - 26 August 2005:

Cairns Convention Centre (levels 1 & 2)

Room Key

Room Code	Room	Use
HAB	Halls A & B	Sessions
HCD	Halls C & D	Exhibition, Poster Sessions, Catering
MR1	Meeting Room 1	Sessions & Business Meetings
MR2	Meeting Room 2	Sessions & Business Meetings
MR3	Meeting Room 3	Sessions & Business Meetings
MR4	Meeting Room 4	Sessions & Business Meetings
MR5	Meeting Room 5	Sessions & Business Meetings
MR6	Meeting Room 6	Sessions & Business Meetings
MR7	Meeting Room 7	Speaker Prep
MR8	Meeting Room 8	Sessions & Business Meetings
MR9	Meeting Room 9	Sessions & Business Meetings
CR4	Conference Room 4	LOC Room
Reg	Registration Desk	Registration and Organiser's Office
MR	Media Room	IAG/IAPSO Room
EF	Exhibition Foyer	Internet Cafe

The Cairns Convention Centre was a very good venue for this conference based on the room layout and the adaptability of the staff for last minute changes.

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Fast Bibliography

The fast bibliography consists of a listing of papers relevant to Geodesy, that has been collected by the IAG Bibliographic Service (IBS) since previous issue of the fast bibliography (IAG Newsletter August 2005 and Journal of Geodesy 79/8). The IBS is based on the literary data bank GEOPHOKA, which is maintained by BKG (Budensamt für Kartographie und Geodäsie) at the Branch Office Leipzig, Leipzig Zentrale technisch – wissenschaftliche Angelegenheiten, Bibliothek, Karl-Rothe Strasse 10-14, 0415 Leipzig, Germany. The IBS can be reached at the following Internet address: <http://www.leipzig.ifag.de>. The bibliographic services are furthermore reachable through the homepage of IAG: <http://www.iag-aig.org>.

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