



Spatial Data Infrastructure - Asia and the Pacific Newsletter

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SDI-AP Newsletter

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Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter for people interested in GIS, remote sensing, and data management issues in Asia and the Pacific. It aims to raise awareness and provide useful information to strengthen national SDI initiatives and support synchronization of regional efforts. The Permanent Committee on Geographic Information for Asia and the Pacific ([PCGIAP](#)) is a regional forum that is promoting SDI development. The newsletter is sponsored and prepared by the Global Spatial Data Infrastructure ([GSDI](#)) Secretariat with input from PCGIAP.

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Please mention SDI-AP as a source of information in correspondence you may have about items in this issue.

If you have news or information related to GIS, remote sensing, and spatial data infrastructure that you would like to highlight (e.g., workshop announcements, publications, reports, websites of interest, etc.), kindly send us the materials by the 25st of each month to: sdi-ap@gsdi.org so that we can include them in the newsletter.

PLEASE share this newsletter with colleagues who may find the information useful, and ideally they will subscribe themselves.

Back issues of the newsletter are at the GSDI website: <http://www.gsd.org/newsletters.asp>

Best regards, Oh Sung Kwon

Input to this Issue

Thank you to Kate Lance, ITC (USA/the Netherlands); Dorji Tshering, CGISC (Center of GIS Coordination), Bhutan Department of Survey and Land Records, Royal Government of Bhutan; Myoungsoo Son, Korea Ministry of Construction and Transportation for their contributions to this issue of the newsletter.

SDI News, Links, Papers, Presentations

Report on GSDI Small Grant Program by Royal Government of Bhutan

GIS in Bhutan was first introduced in the country in the early 1990s through an external funded project in the Department of Forest. Since then many other agencies especially working within the environment domain found it necessary to use GIS. Many small GIS units thus mushroomed across the government sectors. However, there was no coordination amongst these agencies and by the end of the decade it was obvious that there was an abundance of duplications in effort, inconsistencies of data and above all, wastage of scarce resources. Therefore the government deemed it very important to establish a coordination agency. A coordination center was first established under the Planning Commission in the year 2000 and later in the year 2003, the function was transferred to the Department of Survey and Land records and this body was called the Centre of GIS Coordination (CGISC). One of the primary problems that needed to be addressed was to inform existing and prospective GIS users on the whereabouts of whatever spatial data was available within the various GIS agencies, so that there would be no duplication of effort or resources in collecting/producing the data which was already existing with some agencies. The proposal to create a meta data catalogue was proposed for GSDI SGP support, wherein a support to the tune of USD2500.00 granted to the CGISC and the amount received at the local bank in the month of October 2004. Under GSDI SGP support, a workshop of the GIS TWG was called for – to apprise the users of the support and to initiate the activities as proposed on 13th December 2004. During this first workshop a meta data format was prepared and an understanding on how the SGP funds were to be used were discussed and agreed upon. The second workshop was held on 10th March 2005 to further explain and discuss what more needed to be improved in the inventories. The spatial data inventory has been prepared as the first output from the study will go a long way in informing the users and also new comers on the scene on the availability of the spatial data. While it is evident from the inventory that there is much to do in standardizing the data and also educating the users on the qualities and different aspects of spatial data. The



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exercise has also highlighted the weakness and the grey areas where the next focus should lie in terms of building up national spatial data infrastructure in an organized manner. The next step is to take this inventory onto a web site. Support on this front has been sought from ICIMOD in Kathmandu for the training of a few people in Bhutan to enable our people to take up the job. It is also hoped that this inventory can be further refined with their help. The DSLR is currently in the process of developing its website and the inventory will be posted under this site. The "Inventory of National Spatial Data, April 2005" will be circulated to all user agencies and others relevant agencies. And a formal dissemination of the report will be made tentatively in the Month of September/October 2005 on the occasion of the planned National GIS Expo. The workshops and discussions held within the frame work of the support provided by GSDI has provided ample opportunities to understand what each of GIS agencies are doing and also to a great extent come to understand the limitations and opportunities that each agency is working under. While it was evident that most of the GIS agencies were now on their own having been started up through projects and expatriate GIS experts, it was also obvious that the systems had come to stagnate and were not really moving forward at the pace one would expect for want of resources – mainly financial and professional input. A very significant amount of datasets are available within the different agencies, however, the organization of the data and the lack of clear cut guidelines on sharing of data prove to be a serious obstacle facing the user community. The Center of GIS Coordination must continue to strive to bring all the users to a common understanding and reorient the working concepts of each agency in the interest of developing an integrated national spatial data infrastructure. The Bhutanese GIS community and the Centre for GIS Coordination would like to thank the GSDI Small Grants Support which enabled to achieve a very important milestone in the history of small GIS community.

[Society for Conservation GIS \(SCGIS\) Annual Conference](#), 31 July – 2 August 2005. Monterey, California, USA
The Society for Conservation GIS ([SCGIS](#)) invites you to its Eighth Annual Conference. This is an opportunity to learn about the conservation of natural and cultural resources through geospatial technologies. The SCGIS conference immediately follows the ESRI User Conference, which will be held in San Diego, California (USA) from July 25-29th, 2005. Visit <http://www.esri.com/events/scgis/index.html> to register for the SCGIS Conference, submit an abstract, and download the all-inclusive registration form for lodging and meals. Deadline for abstracts: 17 June 2005.

[IEEE 3rd International Workshop on Technology for Education in Developing Countries \(TEDC 2005\)](#), 5-8 July 2005. Kaohsiung, Taiwan. In developing countries, conditions, constraints, and resources differ sharply with industrialized nations, creating special challenges for the technical and educational research communities. This is a Special conference to be held in conjunction with the 5th IEEE International Conference on Advanced Learning Technologies and the 4th International Educational Technology In Cultural Context.

[Why Free Software Really Matters](#)

Groklaw's Shawn Boyette has written an article for Groklaw on why Free Software really matters. He tells anecdotally what this MIT research paper, "[Management & Virtual Decentralised Networks: The Linux Project](#)," [PDF] posits, that lowering barriers to entry and participation and utilizing a virtual, decentralized management structure are superior to command-and-control hierarchies when it comes to software development. The MIT paper traces the history of business management structures, like bureaucracies, the assembly line, closed hierarchies, strategic alliances, economic webs, and the "learning paradigm," and then compares the open Linux-style of networked organization -- virtual, decentralized collaboration -- with Microsoft, "the archetypical centralised model in the industry". The paper concludes that the Linux development style is superior, precisely because it favors and enables creativity and flexibility, by allowing anyone to participate, including users. Shawn writes about the role Free Software plays in making it possible to learn, so as to be able to participate. [Source: Groklaw]

[ISPRS Workshop On Spatial Planning & Decision Support Systems](#), 8-10 December 2005. Macres, malaysia
Currently integrated data analysis and modeling in the spatial domain is inevitable for development planning to meet ever increasing demand for resources while simultaneously safeguarding the environment. To this end the world has witnessed significant advancement in spatial planning computer based tools using multi-disciplinary approach in managing scientific and technical information and decision support tools for real-time data query and what if analysis. In Malaysia the use of these tools by planners and decision makers alike has gained wide acceptance in the government machinery. It is timely that this workshop is organized to bring together academicians, professionals and industrialists to discuss current issues and find solutions to meet future demands. The workshop will be held back to back with the International Advanced Technology Congress 2005(ATCi 2005) scheduled on December 6-8, 2005. It will be jointly organized by the International Society of Photogrammetry and Remote Sensing (ISPRS), Universiti Putra Malaysia (UPM) Malaysian Centre for Remote Sensing (MACRES) and Malaysian Remote Sensing Society (MRSS).



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[French Government to Fund Ongoing Geoarchaeology Research](#)

The French Government has provided funds to the University of the South Pacific's Institute of Applied Science to carry out its third season of research at the earliest-known human settlement in Fiji – the Bourewa site near Natadola in the southwest of Viti Levu. The research team which will be led by Professor Patrick Nunn of the Department of Geography will likely comprise students and staff from USP, the Fiji Museum, the Australian National University, the University of Otago, Kyoto University, Université Laval (Canada), and the Université Française du Pacifique. In December last year, a 17-person research team from the USP and the Fiji Museum carried out a second season of investigations over a three-week period at the Bourewa site. Professor Nunn led the team, supported by Mr Sepeti Matararaba of the Fiji Museum, Mr Conway Pene of the USP Geography Department, and Ms Roselyn Kumar of the USP's Institute of Applied Science. The main purpose of this research was to accurately map the main human settlement at Bourewa and to continue its excavation. The settlement here was marked by abundant Lapita-age pottery and the remarkable discovery of a sculpted pottery face, believed to indicate the close affinity of the first settlers at Bourewa with Lapita settlements in the Bismarck Archipelago of Papua New Guinea. For this reason, the Bourewa site is thought likely to be the very first or 'founder' settlement in the Fiji islands.

[Arab Map 2005 - ITI 6th Arab GIS Conference](#), 12-13 September 2005. Cairo, Egypt

Theme: Towards improved governance and a better environment. Prior to the conference, four training days(7-8, 10-11) will be offered in topics ranging from basic GIS and RS to advanced applications, e.g. e-government, location based services and environmental decision support systems. These courses will be led by instructors from both academia and industry. Abstract deadline: 1 June 2005.

[OGC Membership Approves Six New Specifications](#)

Wayland, MA, May 05, 2005 - The Open Geospatial Consortium (OGC) announces that the OGC membership has adopted six OpenGIS® Specifications. Each of the newly adopted specifications enhances the existing open body of knowledge and furthers the OGC vision of a world where geographic data and services are easily shareable via the variety of networks and devices available today and into the future. All of the newly adopted specifications are or will soon be available online at <http://www.opengeospatial.org/specs/?page=specs>.

Training Course Conducted in Tuvalu – Backdrop Production and Utilisation

A one-week training course finished in Tuvalu. Available maps will now be scanned and rectified for subsequent digitising. The same will apply for new satellite images, as Tuvalu plans to purchase pan-sharpened QuickBird data. The 19 participants of the training came from: Agriculture, Environment, Telecom, Electricity Corporation, PWD, Civil Aviation, NDMO, ICT Department, Energy, Statistics, Lands Department and Fisheries. [Source: GIS-Pacnet List]

[Maps unshackled after 58 years: Indian Cabinet approves National Map Policy](#)

The Union Cabinet gave its approval to the New National Map Policy brought out by the Ministry of Science & Technology which has the potential to open a new door of opportunities for various sectors ranging from water management to development planning and infrastructure. The New Policy envisages two series of maps- the Defence Series Maps (DSMs) and the Open Series Maps (OSMs). The DSMs will be for exclusive use for defence forces and authorized Government Departments. The Policy regarding the use of DSMs will be determined by the Ministry of Defence whereas the Policy on OSMs will be the responsibility of Survey of India/Department of Science and Technology. OSMs will have a different datum, projection, content and sheet numbers. These maps will be derived from National Digital Topographical Database (NDTB) which will be created by the Survey of India. The use of OSMs will be through a process of registration for intimation. There will be a Map Information Registry Database (MIRD). 1:1 million and smaller maps do not require registration. OSMs (Digital or Analogue) can be disseminated by Survey of India through an agreement to any agency for specific end use. The user can make value addition to these maps and can share the information under initiations to the Survey of India. All serial photographs after masking of Vulnerable Areas/Vulnerable Points will be freely available for processing and project generation. Private agencies will be permitted to carry out surveys in all parts of the country using Public Domain Datum. But they should be registered and should carry the accreditation of Survey of India. Magnetic/gravity and other scientific data will be collected and disseminated as per existing instructions.

[Integrating GIS &CAMA 2006 Conference](#), 19-22 February 2006. Orlando, Florida, USA

The International Association of Assessing Officers ([IAAO](#)) and the Urban and Regional Information Systems Association ([URISA](#)) announced the Tenth Anniversary of the Integrating GIS & CAMA (Computer-Assisted Mass Appraisal), to be held February 19-22, 2006 in Orlando, Florida. This conference is designed to foster collaboration and integration of data, technology, and functionality. You are encouraged to submit an abstract for consideration by



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the Conference Program Committee. The Committee, consisting of IAAO and URISA members, will organize an educational program based upon the abstracts submitted through this Call for Presentations. Deadline for abstracts: 15 July 2005.

Remote Sensing Survey

The National Oceans and Atmospheric Administration in the US is running a survey in an attempt to find out more about the remote sensing industry worldwide. This survey is being conducted with the co-operation of South Pacific Science Press, Asian Surveying & Mapping. A feedback form can be accessed on <http://www.asmmag.com>. The survey will give remote sensors an opportunity to influence the design of next generation remote sensing instruments in the US. NOAA is trying to prepare itself for the future of remote sensing. Currently, remote sensing data sources can be divided into high resolution and low resolution. High resolution sources are almost exclusively military. The only freely-available imagery comes from Space Imaging and Digital Globe in the US. Over the next few years they will be joined by a number of new sources, including satellites owned and operated in India, Korea, Malaysia, the UK, France and Canada. [Source: Asian Surveying & Mapping]

2005 Qatar GIS Conference and Exhibition, 14-16 November 2005. Doha, Qatar

The organizing committee of Qatar GIS Conference & Exhibition cordially invite you to participate in the 2005 Qatar GIS Conference and Exhibition to be held in Doha during the period 14-16 November 2005. GIS has seen continued growth and expansion within the state of Qatar and the Gulf region during the last decade and Qatar specifically has been a leader in GIS Development and Implementation in the region. It is once again time to capitalize upon the sense of enthusiasm, the spirit of cooperation, and the vision of common purpose that characterizes the GIS community within Qatar and the Gulf. This is your opportunity to define and contribute toward the future of GIS in Region. Deadline for abstracts: 31 August 2005.

Commission 7 Annual Meeting and Symposium on Innovative Technologies for Land Administration, 19-25

June 2005. Madison, Wisconsin, USA. This year a 1½-day symposium on Innovative Technologies for Land Administration is part of the meeting. The aim of the symposium is to explore the developments in technology (with a focus on information technology) as they are expected by the IT industry. Emphasis will be on innovations that are of strategic importance, and most likely will impact on the way land administration organizations in the future will be operating both at strategic and operational level. Technological innovations might lead to new strategic business opportunities, while developing appropriate IT policies how to use the opportunities of the IT market. According to the MIT-model this impact on workprocess design and management, and developing the supporting IT architecture. The social component is probably re-skilling managers and operators. Again: the subject should address both developing and developed countries.

Risk and Crisis Management Working Group

OGC has established a Risk and Crisis Management Working Group (RCM WG) to address the global need for better sharing of geospatial information in risk management and emergency management. The purpose of the RCM WG is to establish requirements and best practices for Web service interfaces, models and schemas for enabling the discovery, access, sharing, analysis, visualization and processing of information related to natural and human-caused risks and the management of related crises. The RCM WG will communicate the benefits of the OGC consensus process and specifications to the risk and crisis management communities and will work to validate and assess OGC's OpenGIS(R) specifications and other interoperability specifications in risk and crisis management scenarios.

Knowledge & ICT 4D 2005, 21-23 June 2005. Kuala Lumpur, Malaysia

Knowledge & ICT 4D 2005 is organized by the Government of Malaysia on the occasion of the 30th Annual Meeting of the Islamic Development Bank Board of Governors. UNDP-APDIP will organize a one day workshop on Internet governance in co-operation with The Malaysian Institute of Microelectronic Systems (MIMOS).

WSIS Thematic meeting on Multi-Stakeholder Partnerships for Bridging the Digital Divide, 23-24 June 2005.

Seoul, Korea. The Geneva Declaration of Principles from the World Summit on the Information Society (WSIS) recognizes that the ambitious goal of bridging the digital divide will require strong commitment by all stakeholders at both national and international levels. This Thematic Meeting, formed by the Ministry of Information and Communication (MIC) of Korea, the International Telecommunication Union (ITU) and the Korea Agency for Digital Opportunity & Promotion (KADO), examines how governments, the private sector, civil society and international organizations can work together to help to bridge the digital divide.



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[A symposium on Integrated Coastal Zone Management in the United Arab Emirates](#), 5-8 June 2005. Abu Dhabi, United Arab Emirates. The objective of the symposium is to provide a forum for the establishment of a national Integrated Coastal Zone Management (ICZM) program designed to achieve coordinated planning and integration with regards to coastal and marine area development and use in the United Arab Emirates.

[International Science Congress 2005](#), 3 - 6 August 2005. Kuala Lumpur, Malaysia

The Malaysian Scientific Association will celebrate its 50th anniversary in 2005 with many activities; a highlight being the International Science Congress to be held at the Putra World Trade Centre in Kuala Lumpur. With 'Science for Humanity' as its theme, the conference will encompass agriculture, food and nutrition, life sciences, medicine and health sciences, chemical and physical sciences, engineering and environmental sciences, information and communication technology.

[The 13th International Conference of Women Engineers and Scientists: Main Force to Reshape the Future World](#), 26-29 August 2005. Seoul, Korea. The conference will provide a forum for women engineers, scientists, and researchers to interact, exchange thoughts, ideas, and information that are pertinent to women in these fields. The conference will hold special sessions regarding mentorship and leadership as well as special sessions for participation of women scientists and engineers from many countries.

GIS Tools, Software, Data

[Training materials](#)

Open Source Software package developed by DAN Technical Development group is freely available [here](#). You can contact if you need a copy in CD-ROM. [Training CD in iso format](#), [Documents in English](#), [Documents in Japanese](#)

[The SchoolTool Project](#)

SchoolTool is a project to develop a common global school administration infrastructure that is freely available under an Open Source licence. The vision is to create a platform that is equally compelling for schools and colleges in First and Third World countries, that supports best practices in school administration and which is readily customised to comply with local regulatory requirements. [SchoolBell 1.0](#), calendar management system, was released on March 15, 2005. All subsequent SchoolTool development will build on SchoolBell 1.0.

[LSB 3.0 \(RC1\) has been published](#)

The LSB Workgroup announced that a Release Candidate (RC) for LSB 3.0 is now available at <http://refspecs.freestandards.org/lb3.shtml>. The thirty-day public review period for the release is in progress and will conclude at noon EDT on Wednesday, June 1. After the public review period, it will be submitted to the FSG board for final approval and publication.

[Official launch of SPC's Population GIS](#)

A computer software tool that will be of tremendous assistance to Pacific Island planners was launched officially Friday (8 April, 2005). Developed initially for the Federated States of Micronesia (FSM), Kiribati, Samoa, Solomon Islands and Vanuatu, the PopGIS system is a very user-friendly data and information management system that combines population information with maps and graphics, so that statisticians can more effectively disseminate their data and planners can see visually where to focus their development and infrastructure activities.

[DM SOLUTIONS GROUP LAUNCHES NEW OPEN SOURCE PROJECT FOR INTERACTIVE ONLINE MAPPING](#)

Announcements this week from [DM Solutions Group](#), one of the companies involved with development and support of open source spatial technologies, suggest maturation of that arena. The company, based in Ottawa, Canada, [announced](#) the ka-Map project, an open source tool that will enhance the open source Web mapping platform, MapServer, with a more interactive client-side interface. Says the press release, it will enable "user interaction and response typically only found in desktop applications or browser plug-ins."

[Christine GIS Viewer version 1.2](#)

GIS is a system that combines visual geographic information — that is, maps — with sophisticated computer applications to give you the tools to explore and analyze that information. Like traditional paper maps, GIS maps



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provide us with images of our cities, countries, and states, along with the usual geographic information like political boundaries, roads, or bodies of water. But instead of the what-you-see-is-what-you-get concept of the paper map, a GIS stores much more information about the map's features in a separate database. So GIS maps give you the power to define your searches for geographical information. Christine GIS offers the basic GIS functionality that you will need to explore your GIS data. [Download](#) new version of Christine GIS Viewer. Christine-GIS Viewer 1.2 follows the earlier release of Christine-GIS System and includes all features of Christine-GIS System 1.1. Released in January 6, 2005.

[52N-SecurityService-rel-1.1.0-devel01](#)

52°North is an open partnership organization that develops open source software under the GNU General Public License. Their focus is on interoperable web services and data encoding models which constitute the technical building blocks of Spatial Data Infrastructures (SDIs). These infrastructures promote the exchange and application of spatial data. Within this context, they particularly strive for the development of novel web services that provide functionality for SDI management, the integration of real time geosensor data and spatio-temporal simulation models into SDIs, and mobile geocomputing. 52°North's mission is to advance the design, development and use of open source software in geoinformatics research, training and application. A pre-alpha release based on the OGC Web Security Service 1.1 draft specification is available.

[Globus Toolkit Version 4.0 Features Support for Key Web Services Standards](#)

The Globus Consortium has announced the release of the Globus Toolkit Version 4.0 (GT4) as a stable, enterprise ready set of services and software libraries incorporating the latest web services standards, with new security and authorization features. The Globus Consortium, announced January 24, 2005, "is comprised of global computing leaders who support the Globus Toolkit. HP, IBM, Intel and Sun Microsystems are the Globus Consortium's Founding members; supporting entities also include Nortel Networks, Univa, and others. According to Ian Foster, Board Member with the Globus Consortium, "The leading enterprise Grid vendors and standards bodies are standing behind GT4 as the preferred open source software for enterprise Grids. For nearly a decade, a global community of Grid developers have contributed to Globus Toolkit code." The Globus Toolkit is "an open source software toolkit used for building enterprise-level Grid systems and applications. Freely available in open source format on the Web, the Globus Toolkit provides applications for security, information infrastructure, resource management, data management, communication, fault detection, portability, and more.

[Climate Predictability Tool \(CPT\)](#)

The Climate Predictability Tool (CPT) provides a Windows package for constructing a seasonal climate forecast model, performing model validation, and producing forecasts given updated data. Its design has been tailored for producing seasonal climate forecasts using model output statistic (MOS) corrections to climate predictions from general circulation model (GCM), or for producing forecasts using fields of sea-surface temperatures. Although the software is specifically tailored for these applications, it can be used in more general settings to perform canonical correlation analysis (CCA) or principal components regression (PCR) on any data, and for any application. Comments and requests for changes and developments are welcomed, and can be sent to cpt@iri.columbia.edu. Download CPT software (Version 4.02, March 16, 2005): [download the self-installation file](#) (size: ~5.0MB); [download the self-installation file that includes Windows Installer](#) (size: ~8.3MB)

[5-Minute Gridded Global Relief Data \(ETOPO5\)](#)

This dataset contains several digital gridded data bases of global topography and bathymetry at various scales, digitized continental coastlines, gridded oceanic gravity anomalies, ocean-floor gazetteers, and digital topographic relief images in a wide variety of formats. Software or program code for PC-DOS, Macintosh, and UNIX workstations is provided to access the major topographic and geographic data bases. Macintosh users will find a special "Mac only" area of the disc devoted to topographic imaging, including software to generate their own full-color relief images. <http://www.ngdc.noaa.gov/mgg/fliers/93mgg01.html>, <http://www.ngdc.noaa.gov/mgg/global/relief/ETOPO5/>. [Source: GIS User]

Geospatial Research, Applications, Reference Material

[Report on Global Spatial Data and Information User Workshop](#)



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Global Spatial Data and Information User Workshop was held in New York, 21-23 September 2004. This workshop brought a core set of institutions actively involved in global spatial data and information development and dissemination together with representatives of key user communities to address both short- and long-term needs for coordination and collaboration. The overall purpose of the workshop was to coordinate spatial data and information dissemination among key actors in the global data community in order to better meet user needs at global as well as regional and national levels. The three-day workshop was co-organized by the Center for International Earth Science Information Network (CIESIN) of the Earth Institute at Columbia University, the United Nations Food and Agriculture Organization (FAO), the United Nations Environment Programme (UNEP), the World Health Organization (WHO), and the Consultative Group on International Agricultural Research (CGIAR). CIESIN's NASA-funded Socioeconomic Data and Applications Center (SEDAC) served as the local host. The workshop was also co-sponsored by the Committee on Data for Science and Technology (CODATA) of the International Council for Science (ICSU). Report and Presentations are available.

[Using Open Source Software in Schools](#)

This information Sheet identifies the key findings of Becta (British Educational Communications and Technology Agency)'s recent work exploring how a small sample of schools implemented open source software solutions. The sheet also identifies any benefits and issues that LEAs and schools need to be aware of when considering open source software. This project, funded by the DfES, was one of an interrelated series, all looking at ways of helping schools make effective and sustainable use of ICT by exploring the total cost of ownership (TCO) of their ICT infrastructure.

[Report on Map Middle East 2005](#)

The first annual Middle East conference on Geospatial Information, Technology and Applications "Map Middle East 2005" was held from 23-25 April 2005 in Dubai, UAE. Under the theme of 'Geospatial Information and Knowledge Economy' the event fulfilled the need for a regional forum in the geospatial domain. The conference was attended by 622 delegates from the entire Middle East region – UAE, Saudi Arabia, Oman, Qatar, Bahrain, Yemen, Kuwait, Iran, Iraq, Lebanon, Jordan, Egypt, Sudan, Syria as well as from countries such as USA, Switzerland, The Netherlands. There were three plenary sessions (Geospatial Information and Knowledge Economy, SDI: International Initiatives, Technology Trends), Two keynote sessions (Large Scale mapping, GIS and SDI in the Middle East), Three workshops (Mobile Mapping Systems, GIS and the Law, GPS).

[RS/GIS Research within various IWMI Research Projects and Thematic Research](#)

The RS GIS Unit is very actively involved in many research projects of IWMI, taking lead efforts in some of the projects or having substantial lead effort in components of the projects. Currently, the research projects heavily supported by RS GIS Unit include: Drought Assessment in Afghanistan, Pakistan, and parts of India (funded by USAID), Global Irrigated Area Mapping (funded by Comprehensive Assessment), Biodiversity Assessment (funded by Ramsar), Millennium River Basin land use/land cover assessments (funded by IWMI and various others), Baseline Datasets for River Basins (funded by the Challenge Program for Food and Water).

[Urban Environmental Management Challenges in Asia](#) by Mara Regina Mendes, Leading Author Researcher, Urban Environmental Management Project. Urban environmental management is a challenge faced by many cities in Asia. At the same time, developing cities in Asia confront a number of other issues as well. The present report entitled Urban Environmental Management Challenges in Asia addresses the problems and issues on urban environmental management in Asian cities and the policy and actions being implemented. The report consists of four parts. Section I discusses urbanization trends in Asia as well as the relationship between economic growth and environmental problems. Section II brings together the issues in urban environmental management under three sectors, water and sanitation, transport and air quality management, and solid waste management. Specific case studies are presented in Section III. The first is a case study on the development of a methodology to account the environmental management assets of the City of Kitakyushu. The second case study is an assessment on energy consumption and greenhouse gas emissions and policy implications in selected East Asian mega-cities. This first case addresses local and regional environmental impacts, while the second addresses global environmental issues, which are entering the policy agenda of some cities in Asia. Section IV concludes the report discussing the concept of sustainable cities and new concepts in urban environmental management, such as urban ecosystems, ecological footprints, and the role of information technology, highlighting the experience of Japanese cities.

[GLOBAL POSITIONING SYSTEMS FOR THE MONITORING OF THE LANDSLIDE DEFORMATION: APPLICATION TO THE GERIK LANDSLIDE \(PENINSULAR EAST-WEST HIGHWAY PERAK, MALAYSIA\)](#) by KHAMARRUL A.R, Phd Department of Biological and Agricultural Engineering, Faculty of Engineering, Land and



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Mapping Division, National Institute of Land and Survey (INSTUN) Behrang, Perak MALAYSIA & WAN AZIZ W.A, Departments of Geomatics Engineering, Faculty of Geoinformation Science & Engineering, University Technology Malaysia, Johor MALAYSIA. A landslide phenomenon is one of the terms to be used in describing the down-slope of soil and organic material under the influence of gravity. Nowadays, the GPS technology has shown that it is capable to monitor sub-centimeter deformations of this ground movement. The main advantage of GPS sensors compared to conventional deformation monitoring sensors is that GPS requires no line-of-sight between the stations. This enables GPS to monitor the landslide even during unfavorable weather conditions either in real time or post-processing mode. In landslide monitoring scheme, it is imposed to represent the area under investigation by a number of points forming a deformation network. The deformation network should be established by at least one stable reference station and a few monitoring stations. In this way, the determination of the movement of the control stations is done relatively to the reference stations. This paper therefore highlights an investigation of landslide motions using Rapid Static GPS method to discover possible precursors of mass movement. The practical applications were the deformation measurements at Km22 and Km26 Gerik Landslide at Peninsular East-West Highway, Perak, Malaysia. Some preliminary results are presented.

[Open Geospatial Standards and .NET– A Recipe for Uptake](#)

The mission of The Carbon Project is to bring open and interoperable geospatial services to everyone. That's a daring statement, but The Carbon Project backs it up by doing two things: First, providing new innovation to the field which will provide more accessibility and usability of open geospatial specifications, and second, providing solutions where there are currently none. However, to be successful in this mission to bring open geospatial services to everyone, we had to face some stark realities and "buck the trend" in the open geospatial community. [Source: Directions magazine]

Training Opportunities

[Seventh Regional Training Course on Flood Disaster Risk Mangement](#), 12-23 September 2005. Bangkok, Thailand

This course is organized by Asian Disaster Preparedness Center (ADPC). This course is designed for the disaster manager with flood hazard in his/her sphere of responsibility. Although the focused srea is the Asia-Pacific Region, participants from areas outside this region are welcome to join the course. The FRM-7 specially encourages the participation of elected and appointed national and local (city/town) administrators, the development and planning authorities, water engineers and flood control professionals, national agencies' officials and staff in urban panning, housing, public works, and water resource development and management. The course fee is US\$ 2,000 per participant including books and materials. Interested persons can apply directly but preferably be nominated by their employing organization/departments. No deadline given.

[ISPRS Workshop on Spatial Planning and Decision Support Systems](#), 6-8 December 2005. Macres, Malaysia

Currently integrated data analysis and modeling in the spatial domain is inevitable for development planning to meet ever increasing demand for resources while simultaneously safeguarding the environment. To this end the world has witnessed significant advancement in spatial planning computer based tools using multi-disciplinary approach in managing scientific and technical information and decision support tools for real-time data query and what if analysis. It is timely that this workshop is organized to bring together academicians, professionals and industrialists to discuss current issues and find solutions to meet future demands. The workshop will be held back to back with the International Advanced Technology Congress 2005(ATCi 2005) scheduled on December 6-8, 2005. It will be jointly organized by the International Society of Photogrammetry and Remote Sensing (ISPRS), Universiti Putra Malaysia (UPM) Malaysian Centre for Remote Sensing (MACRES) and Malaysian Remote Sensing Society (MRSS). The overall objective of the workshop is to provide an international forum for exchange of knowledge, experience and future expectation in the operational use of spatial technologies for holistic decision making in national planning for sustainable development. The workshop format will comprise presentation sessions, group discussions and report endorsement. Some 100 participants from both the developed and developing world are anticipated, including two keynote speakers , one in spatial planning. Registration fee is USD100 which will cover participation in all workshop sessions, refreshments, lunches and technical visit. Dinner, traveling expenses and accommodation are excluded. Deadline for applications: 30 June 2005.

[Online Course for Master of Geographic Information Systems](#),



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The Master of Geographic Information Systems (MGIS) degree program is designed to give working professionals, who are aspiring to leadership positions in the field, an opportunity to pursue a world-class master's degree online. This 35-credit program allows you to study around your own schedule, where and when it's most convenient for you. Interact online with attentive educators from one of the nation's top-rated graduate programs in geographic information systems. The Master of Geographic Information Systems degree program is designed for professionals in environmental resource management, urban and regional planning, local government, facilities management, and other fields, who seek to become leaders in their industries. Applicants must possess a baccalaureate degree from an accredited institution, and a minimum 2 years of professional experience, preferably (but not necessarily) related to geographic information technologies. Application Fee: \$45, Graduate Courses: \$510/credit hour, Information Technology: \$104/year, Course Materials: \$150 (estimated), Admission deadline: 15 July 2005.

[Geographic Information Systems Certificate Program: Online Course](#)

Classes in the program usually carry three (3) units of credit and provide both breadth and depth in the area of GIS. The core classes are designed to familiarize students with the Internet environment, GIS software and hardware issues. The elective units, on the other hand provide students an opportunity to develop expertise in specialized GIS topics and GIS applications. All courses are designed for a ten week schedule and reflect the core curriculum in GIS designed by the National Center for Geographic Information and Analysis (NCGIA). The program consists of 20 quarter units: 8 units from core classes; Working with GIS, Principles and practice of Geographic Information Systems, Intermediate GIS Topics and 12 units from electives; Statistics for GIS Users, Applied Demographic Methods, GIS Programming Using ArcView, GIS Using ArcInfo. For more information, contact [Dr. Kohli](#) or [Extended Studies](#) at [California State University, Bakersfield](#).

[Diploma in Geo-Informatics](#), 8 weeks from 4 July 2005. New Delhi , India

The course is divided into following three modules. Module A consists of Mapping and GIS, Module B consists of course on Remote Sensing and Image Processing; Module C consists of GPS and Mobile Mapping. The course fees and registration fees are Rs. 2,500 and Rs. 30,000 for Indian students staying in India, US\$ 1000 and US\$ 100 for SAARC countries students, US\$ 1500 and US\$ 150 for other countries students. Applicants should be graduates in engineering/ science/ geography/ planning or related fields/ computer science or any other with some knowledge of mapping/ computer applications. Deadline for applications: 24 June 2005.

[International Summer School](#), 12-19 August 2005. Székesfehérvár, Hungary

In 2001 a new cycle of International Summer Schools in GIS began, promoted by UNIGIS International, co-ordinated by the European Masters in Geographical Information Science (EMGISc) consortia and organised by University of West Hungary, College of Geoinformatics . Based on the success and experiences from the first two Geoinformation International Summer Schools (GISS) a new course will be organised in 2005. Applicants should have minimum of two years of study at a university in a GI-related course, min. 10 ECTS credits of GI classes or equivalent study load, Windows experience, practical experience with any GI software products. The official language of the Summer School is English. The maximum number of workshop participants is 60. This year GISS will focus on the area of GIS applications in agricultural monitoring: Monitoring of parcel based agricultural subsidies, Land management, special issues of interaction between wetlands and the surrounding areas; use of dynamic process models (e.g. hydrological models) and GIS, Internet GIS in public use and collaboration. Participation fee is 500 Euro for no accommodation and 600 Euro for dormitory including welcome dinner, lunches, coffee breaks, excursion. Deadline for applications: 30 June 2005.

[Remote Sensing and GIS for Watershed Management](#), 29 August – 9 September 2005. Pathumthani, Thailand

Watersheds are defined by natural hydrology and they represent the most logical basis for managing water and other natural resources. GIS offers integration of spatial and non-spatial data to understand and analyze the watershed processes and helps in drawing a plan for integrated watershed development and management. Objective of this course is to provide the basic remote sensing & GIS techniques and spatial analysis skills to the participants for integrated watershed development and management. Besides fundamentals, the course will cover practical remote sensing and GIS applications using case studies from the Asia-Pacific region. Target groups are Agriculturists and Agricultural Engineers, Soil Conservation workers, Forestry Officials, Natural Resources, Development Planners and Managers, Rural Development Workers and NGOs and Water Resource specialists. Tuition fee is US \$ 1,800. No deadline given.

[INTERNATIONAL TRAINING COURSE ON GEOINFORMATICS FOR SUSTAINABLE AGRICULTURE](#), August 16, 2005 to September 9, 2005. Dehradun, India. The objective of this international short course is to make the participants familiar with the technology and utility of Geoinformatics in sustainable agriculture. This course hopes to



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bring about a basic understanding of the relevant topics for persons who entrusted with the responsibility of sustainable natural resource development. Prospective participants should be from the Asia Pacific region and should be post-graduate in science or graduate in engineering in a relevant discipline. The course is designed for middle level technical personnel with preferably 5-10 years of working experience in Remote Sensing and GIS. A course fee of US \$ 600 is charged. This include course materials, field excursion, etc. Fellowships to participants from countries other than India are available. The details of the fellowship may be obtained from the Embassy in the home country of the candidate. Dealine for applications: 30 June 2005.

ANZLIC WORKSHOPS - Geospatial Standards: the critical ones for operationalising spatial data infrastructures, Canberra, 7 June 2005 (co-hosted with OSDM), Sydney, 8 June 2005, Melbourne, 9 June 2005, Brisbane, 10 June 2005. Doug Nebert (Information Architect and Lead Technologist, United States Federal Geographic Data Committee) is visiting Australia in June. ANZLIC is taking the opportunity to host three workshops (with support from its member jurisdictions) to provide an update on the current status and future directions of international geospatial standards, including the national and local perspectives. Topics covered will include: Progress against the ANZLIC ASDI Action Plan, Operationalising the ASDI through Community of Practice applications, The roll out of standards-based products and applications in Australia, The current geospatial standards "scene" — a brief introduction, Update on the key OGC standards, ISO TC211 standards, and relevant WWWC and Oasis standards in support of your SDI developments, Update on Catalog Services and web services metadata, Mainstreaming interoperability — learnings from the US Geospatial One-Stop project, Progress on the ANZLIC Metadata Project, Case studies of "best practice" in the jurisdictions and Recommendations from the recent SIDP Project by OGC-A & ASIBA.

China Urban Forum Phase II, 14-16 December 2005. Beijing, China

This activity will follow on the China Urban Forum conference event held in Beijing in October of 2004. Based on conclusions of that forum, follow-up activities will include other conferences, special workshops, study tours, and selected other activities to be determined in coordination with the China Development Bank and the China Country and Infrastructure Sector Units. No participation fees required. For more information, contact: jsaville@worldbank.org. No deadline given.

ESRI's Live Training Seminars, 23 June 2005

GIS training by a technical expert streamed directly to your desktop. Live Training Seminars are live, interactive, and free. Next seminar is Introduction to Trimble® GPS Analyst™ Extension for ESRI® ArcGIS® Software. Seminar times are 9 AM, 11 AM, & 3 PM for Pacific (Los Angeles) and 12 PM, 2 PM, & 6 PM for Eastern (New York). [Seminar description](#) | [Software Requirements](#)

Funding Opportunities, Awards, Support

International Fellowship of A*STAR Graduate Academy Agency for Science, Technology and Research

Category I: This fellowship offers support for final year PhD students/ post-doctoral fellows who are Singaporeans or Permanent Residents currently in top overseas institutions. It is targeted at those who intend to eventually work in Singapore upon completion of their research training. Category IIA: This fellowship offers overseas research training and attachment opportunities to research scientists and engineers in our local research institutions and universities, preferably with at least 2 years of post-doctoral experience. Category IIB: This category offers a 2-year Overseas Research Fellowship for medical doctors. The fellowship is offered with the main aim of developing clinician scientists. For category I and II: Candidates should possess excellent publication records. Candidates should not receive any other scholarship from Singapore. For category IIA: Candidates should apply for the Fellowship through their research institutes/centres and universities. Candidates should secure a position in a research laboratory in the overseas organization on his/her own for category IIB. Candidates should be medical doctors during their specialized training who are under 35 years of age and Singaporean/Singapore PR. Candidates should have a letter of endorsement from the parent hospital to undertake protected research time of the returning Fellow. Doctors who have been awarded the MOH Human Manpower Development Programme (HMDP) are not eligible. Closing Date: 30 June & 31 December annually, for Category IIB: 31 October annually.

PAGES Workshop Funding

To obtain workshop funding, organizers must be able to demonstrate that the themes and objectives of their meeting meet the PAGES' goals. In addition, PAGES requires a post-workshop product, for example a workshop report, a special issue of a peer-reviewed publication, or an article for inclusion in the PAGES newsletter. If you are interested in applying for workshop funding, please send a brief proposal (no more than 1-2 pages) to Leah Christen. The



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proposal should include a description of workshop goals, planned workshop products, likely keynote speakers, amount requested and planned use of PAGES funds, other pending or obtained support. It may be advantageous to contact the PAGES IPO in advance of submitting a proposal and involve PAGES in the planning process. This can help improve chances of obtaining financial support by ensuring that the meeting fits in well with established PAGES programs and meets PAGES goals. Deadline for submission: 15 July 2005.

[Endeavour International Postgraduate Research Scholarships \(IPRS\)](#)

Each year these highly competitive Australian Government scholarships are awarded to students commencing a research higher degree course. To be considered for an IPRS, applicants need to have an unconditional offer of a place in a research higher degree course (eg masters by research, PhD or other research doctorate) at the University of Melbourne. Based on its 2004 allocation, the University will probably award around 37 new IPRSs in 2005. IPRSs cover full tuition fees for each year of the course and the annual Overseas Student Health Cover (OSHC). Students awarded an IPRS by the University of Melbourne also normally receive a MIRS (living allowance). IPRSs are awarded for three years for PhD and other research doctorates. The tenure of IPRSs awarded to masters by research students is limited to the standard duration of the masters by research course. An extension to scholarship is only possible if course tenure is extended. IPRSs awarded to masters by research students can be held for a maximum of two years. Continued receipt of this scholarship requires satisfactory academic performance. IPRS recipients can apply for an additional six-month extension to their IPRS in exceptional circumstances. IPRS recipients must begin their studies by 30 September. Deadline for applications: 15 September 2005.

[Ramsar Small Grants Fund](#)

The Ramsar Small Grants Fund has provided funding and co-funding, up to 40,000 Swiss francs (about US\$ 34,000) per project, for something like 175 projects totaling about 7 million francs. Suitable project proposals are those which contribute to the implementation of the Convention's Strategic Plan 2003-2008 for the conservation and wise use of wetlands; provide emergency assistance for Ramsar sites; or provide 'preparatory assistance' to allow non-Contracting Parties to progress toward accession. Eligibility is restricted to countries on the List of Aid Recipients established by the Development Assistance Committee (DAC) of the Organization of Economic Cooperation and Development (OECD), effectively meaning developing countries and countries with economies in transition. Projects may be proposed and implemented by any agency, NGO, or individual, but proposals MUST be endorsed and monitored by the Administrative Authority (the Ramsar implementing agency) in the Party's government, and seldom is more than one proposal approved from the same Party in any year. Successful proposals receive 80% of the allocated funds upon signature of the contract and the remainder upon submission of an adequate final report, but countries from which adequate final project reports have not been received may be denied further consideration for funding until those outstanding project dossiers have been closed. Deadline for application: 30 June 2005

[Dorothy Hodgkin Postgraduate Award Scheme](#)

In November 2003 the Prime Minister launched the Dorothy Hodgkin Postgraduate Award Scheme (DHPA). The scheme is a new UK initiative to bring outstanding students from India, China, Hong Kong, South Africa, Brazil, Russia and the developing world to come and study for PhDs in top rated UK research facilities. Following the success of the 2004 pilot, which provided funds to support 129 PhD students, it has been decided to extend the scheme beyond the pilot. The 2005 awards will provide funding for up to 160 new PhD students. Closing Date: 15 June 2005

[Research Grant](#)

The International Foundation for Science (IFS) provides support to young scientists of merit in developing countries by awarding research grants and providing grantees with additional services such as travel grants and purchasing assistance. Proposals for projects may address biological, chemical, or physical processes as well as social and economic relationships important in the conservation, production, and renewable utilization of the biological resource base. Research grants are awarded up to a maximum value of US\$12,000 for a period of one to three years and may be renewed twice. They are intended for the purchase of equipment, expendable supplies, and literature. Applicants must be citizens of, and carry out the research in, a developing country. They should also work at a university or national research institution in a developing country. Specifically excluded are countries in Europe, including Turkey and Cyprus, as well as countries of the former Soviet Union. Argentina and Uruguay are also not eligible to receive support. As well as being under the age of 40 (under 30 for applicants from China) and at the start of their research career, candidates must possess a higher academic degree, which should be at least an MSc or equivalent.



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Applications are made on the application form, in English or French, which is available from the IFS Secretariat or can be downloaded from the website. Applications are accepted all year round.

[New Zealand International Doctoral Research Scholarships](#)

Funded by the New Zealand Government and administered by Education New Zealand, the New Zealand International Doctoral Research Scholarships are a significant educational opportunity. The scholarships provide financial support for students from designated countries undertaking doctoral degrees by research in New Zealand universities. Scholarships are awarded on the basis of academic merit. [List of Eligible Nations](#), [Application Form](#), [Terms and Conditions](#), [Guidelines](#). Deadline for Applications: 15 July 2005

[EWC-UHM Student Affiliate Program](#)

The EWC-UHM Student Affiliate Program was established to expand opportunities for involvement in the programs of the East-West Center. The Center works to promote greater understanding of the Asia-Pacific-U.S. community through cooperative education and research. This program offers full-time classified graduate students at the University of Hawaii at Manoa an opportunity to participate in the Center's educational program and to live in the Center's international residence halls. Student Affiliates are responsible for all expenses connected with their program. Affiliates are eligible to apply for East-West Center field study awards, as well as become involved in East-West Center research projects. Deadline for applications: 24 June 2005.

[Postgraduate: PhD Research Scholarship](#)

A postgraduate research scholarship is available in the Department of Physical Geography at Macquarie University commencing in 2005. This project will investigate recent and future impacts of global climate change on allergic diseases such as asthma. Applicants should have completed, or expect to complete within the year, a four year undergraduate degree in Science with first class honours, or an equivalent qualification with a background in some of the following areas: physical geography, biology, public health, statistics, atmospheric or environmental science. The stipend for the award is currently \$18,837 per annum, tax exempt, and the tenure is 3 years full time subject to satisfactory progress. Applications close: 30 June 2005.

[2006 - 07 Innovation Call First Round](#)

Land & Water Australia is calling for highly innovative R&D projects to address critical and emerging issues and opportunities for achieving the sustainable use and management of Australia's natural resources. They currently fund a range of national R&D programs across the biophysical, economic and social dimensions of natural resource management with a strong focus on improving current practices. In this Innovation Call, they are deliberately seeking out new ideas and technologies not likely to be funded in these more applied programs. Total funds available for this Call are \$1.5m, with projects eligible to commence from 1 July 2006. Applicants must be permanent residents or citizens of Australia. Deadline for applications: 30 June 2005.

Employment Opportunities

[FACULTY POSITION IN FOOD PROCESS ENGINEERING](#), Pathumthani, Thailand

The Asian Institute of Technology (AIT), an autonomous, nonprofit, international postgraduate institution based in Thailand, invites applications for a faculty position in Food Process Engineering in its School of Environment, Resources and Development (SERD). The successful candidate is expected to teach three graduate level courses per academic year in food process engineering related area, engage in thesis research supervision of Master's and Doctoral students, and develop a viable research program leading to publications in professional journals. Applicants should have a Ph.D. degree from a well-reputed university with specialization in food process engineering area or other related discipline including agricultural / chemical / biological systems / food science and technology. Professional expertise and relevant experience emphasizing engineering applications to food processing, safety and quality assurance systems will have distinct advantage. The initial appointment will be at the rank of Assistant Professor for two years and is renewable, on two-year basis, based on performance. Deadline for applications: 30 June 2005.

[GIS: ESRI tools Expert](#), Dhahran, Saudi Arabia

TGL-International is seeking a GIS tools Expert. Applicants should have Bachelor's degree in GIS, Remote Sensing, Computer Science, Geography, Information Systems, or related field. Masters degree preferred, Minimum of 6 years



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experience in Information Technology of which at least 3 years must be specialized in the analysis and design of GIS applications. Experience in developing applications with ESRI's ArcGIS 8.x or ArcIMS 4.x toolset is a must. Programming experience with Web based ArcIMS is required and Visual Basic net for ArcGIS based applications. The successful candidate is expected to develop logical and physical database design and design, create, modify or manage GIS software applications, including the maintenance of current applications and the design of new systems. These applications will be developed using ESRI's suite of products (ie. ArcObjects, ArcIMS, Arcinfo, ArcPad, etc. No deadline given.

Adviser on Population Statistics and Population and Development Strategies, Suva, Fiji

Within the context of United National Population Fund's efforts to alleviate poverty and improve people's lives, the incumbent will contribute to enhancing national and regional capacity to: (1) formulate and implement national and sectoral policies in the field of population and development; (2) improve the quality and quantity of population and related data; (3) provide technical support in these areas. Applicants should have Broad knowledge and expertise in all aspects of population and development planning, including the integration of population into national and sectoral development plans and programmes; Broad knowledge and expertise in all areas of population data collection, analysis, application and interpretation; Good understanding of the use of data in programme design, including monitoring and evaluation frameworks. Deadline: 6 June 2005.

Chief, Information Technology Unit, P-4, Multiple D/S

Within delegated authority, the Chief Information Technology Unit will be responsible for managing the Information Technology Unit; Planning and directing all major IT systems projects within the mission, monitoring the progress of the design, installation and commissioning of the various networks and systems ect. Applicants should have advanced university degree (Master's degree or equivalent) preferably in Information Systems, Mathematics, Statistics, or relevant field. A first level university degree with a combination of relevant academic qualifications and experience in Information Systems, Mathematics, Statistics, or relevant field, may be accepted in lieu of the advanced university degree. At least 7 years progressively responsible professional and managerial experience in telecommunications and computer technology, including experience in developing and overseeing large centralised and globally distributed institutional systems, of which 3 years should have been at the international level in the public/private sector, functioning at the management level. Deadline for applications: 7 June 2005.

Marine Pollution Adviser (MPA), Apia, Samoa

The Marine Pollution Adviser is responsible to the Director through the Pacific Futures Programme Manager, under the supervision of the Programme Coordinator Pollution Prevention Focus Area, to perform management of the coordination and implementation of projects under the Pacific Ocean Pollution Prevention Programme (PACPOL) that addresses shipping related marine pollution issues including marine spill planning and response, ships waste management, environmental management of ports, invasive marine species and WWI wrecks, management of the implementation and maintenance of the "Pacific Islands Regional Marine Spill Contingency Plan (PACPLAN)" that addresses large Tier 3 marine spills and co-ordinate its implementation when a formal request for assistance is received from a SPREP member. Applicants should have tertiary qualifications, preferably with post-graduate qualifications, in marine science and/or environmental management; and at least five years work experience in marine science, environmental project management and/or marine pollution management, preferably within the Pacific islands region. Deadline for applications: 30 June 2005.

Experts Urban/Reg. Planning, Transportation, Traffic Eng. GIS, Remote Sensing, Saudi Arabia, Jeddah

For more than 25 years GTZ experts have been advising and assisting various Saudi Arabian Ministries in manifold fields. A new area might be the co-operation between the Development Commission for Makkah, Madina and Holy Areas and GTZ-International Services in the provision of consulting services and technical assistance in the field of long-term development planning. The Development Commission for Makkah, Madina and Holy Areas requires experts with Urban Planning, Master Planning (Regional Planning, Redevelopment Planning), Crowd Management (Risk Assessment and Management), Transportation (Transportation Planning), Traffic Engineering, Geographic Information Systems (GIS - With emphasis on urban development applications), Remote Sensing (With emphasis on urban development applications), Safety and Risk Management. The experts should have university degree in one of the above-mentioned fields of specialization, working experience in Arabic countries, ten years experience in executing similar projects. No deadline given.

Research Scholar/Technology Analyst



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International Institute for Applied Systems Analysis (IIASA)'s Air Pollution Program (TAP) is offering a position for an analyst to join the team to model the interactions between air pollution control and greenhouse gas mitigation. The incumbent will join the team to prepare and apply the prototype GAINS model for practical policy analyses. He/she will have responsibility for maintaining the model databases for individual European countries through close interaction with national and industrial stakeholders. The candidate should have a degree in environmental engineering, environmental economics or related fields. He/she should have practical experience in quantitative techno-economic assessments of emission control options in an international context, preferably for greenhouse gases. Preference will be given to applicants who are nationals of [IIASA member countries](#). Applications from women are encouraged. Deadline for applications: 15 July 2005.

[Assistant Professor / Associate Professor](#), Chinese University of Hong Kong, Shatin, Hong Kong

Applicants should have (a) a PhD degree in Earth Science, GeoInformation Science, Oceanography, Geography, Environmental Science, or a related field; (ii) expertise in one or more of the following areas: geological disaster and radar remote sensing, ocean environment and coastal erosion modeling, climate change and data mining, ecosystem function and restoration, climate and environmental impact on human health; and (iii) experience in quantitative remote sensing and geographic information science. The appointees will (a) teach courses in GeoInformation Science and supervise postgraduate students; (b) develop his/her independent research programme and show strong leadership; and (c) undertake administrative duties. Appointments will initially be made on a fixed-term contract basis for up to three years, with prospect for renewal or re-appointment on a longer-term basis thereafter subject to mutual agreement. Closing date: 30 June 2005.

[Regional Adviser on ICT Policies and Strategies](#), Bangkok, Thailand

Under the direct supervision of the Chief of the Information Division of UNESCAP, The Regional Adviser will be required to provide advisory services upon request to the governments of the UNESCAP member and associate member countries on formulation and adoption of information and communication technology. Applicants should have advanced university degree, preferably Ph.D., in information and communication technology, economics, engineering, or business administration, with a minimum of 10 years of experience in national, regional and/or international organizations dealing with designing, planning, formulation and implementation of policies, strategies and measures in the area of ICT development and applications especially for countries in the Asia and Pacific region. Deadline for applications: 15 June 2005.

[Professor of Earth Surface Systems Analysis](#), ITC, Netherlands

The professor leads a chair-group (15 staff and 8 promovendi) that is responsible for initiating, coordinating and executing research, education and advisory services in geo-information science and earth observation applied to the understanding of surface geologic processes and related geohazards (e.g. earthquake, volcanic, landslide, flooding, soil erosion, land degradation) and the generation of risk scenarios. The professor is required to develop and maintain excellence in the application of earth observation for geohazard assessment and monitoring, support the other research topics in the chair-group and to assure the scientific quality of the academic output of the chair-group. Successful candidate profile is PhD in a relevant field; Considerable research experience in the application of Earth Observation in geohazard assessment demonstrated by a strong publication record and a record of fund raising; A vision on the application of earth observation applied to geohazard studies. Deadline for applications: 1 July 2005.

[IT Technician](#), Geoscience Australia

The IT Technician works under general guidance to provide repair, diagnosis, monitoring, analysis and installation of equipment, software, and systems. This position covers maintenance and technical support of electronic and computer-based systems used in control and data processing at ACRES. Technical or professional IT qualifications are required. Minimum 1 year of relevant experience. This position is part of ACRES Infrastructure and Engineering team and requires contribution to the planning, project management and execution of jobs across projects, groups and divisions within Geoscience Australia. Deadline for applications: 10 June 2005.



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[South Korean Linux developer's involvement should help the spread of linux in Asia](#)

South Korean Linux developer Haansoft has joined Open Source Development Labs Inc. (OSDL), a nonprofit industry group that promotes the use of the Linux operating system in enterprises, and will participate in OSDL's Carrier-Grade Linux working group, the group said Thursday. The company's involvement should help the spread of linux in Asia, OSDL said. For example, Haansoft is also a developer of Asianux 2.0, the second version of the Asianux Linux distribution. Other companies behind Asianux are Red Flag Software, one of China's leading Linux developers, and Japan's Miracle Linux. Asianux 2.0 should be available in South Korea and China in July and in Japan in October. Haansoft claims it is the largest software maker in South Korea and that its software accounts for 70 percent of the South Korean office productivity software market. OSDL has been expanding its involvement in East Asia over the last 16 months as governments in the region have said they will support Linux and open-source software. In March, South Korea's government-funded Electronics and Telecommunications Research Institute joined the group. [Source: InfoWorld]

[National Tsunami Warning System](#)

Following the tragic events of the Indian Ocean tsunami in December last year, the Australian Government has announced a major initiative to establish an Australian National Tsunami Warning System. This initiative will provide a comprehensive tsunami warning system for Australia, support international efforts to establish an Indian Ocean tsunami warning system and will contribute to the facilitation of tsunami warnings for the South West Pacific. The Government will provide \$68.9 million over four years to establish a national tsunami warning centre, to be managed jointly by the Bureau of Meteorology and Geoscience Australia. It will be one of the first Indian Ocean regional warning systems, and will join the planned network of national systems which collectively will form the Indian Ocean Tsunami Warning System. The Government also will establish national tsunami education and training programmes to be implemented by Emergency Management Australia. A National Tsunami Emergency Management Plan will also be developed and exercised through EMA. Technical assistance programmes will help build the capacity of scientists and technicians in the South West Pacific and Indian Oceans. The initiative also includes a contribution to UNESCO's Intergovernmental Oceanographic Commission, the coordinating body for the establishment of an Indian Ocean Tsunami Warning System.

[ABS and ANZLIC Join Forces to Produce Better Information for Australian Communities](#)

A new strategic partnership between the Australian Bureau of Statistics (ABS) and ANZLIC - the Spatial Information Council will help to make local area and small community statistics more readily available and more meaningful. Signing the partnership today, the Australian Statistician, Mr Dennis Trewin and the Chairperson of ANZLIC, Mr Warwick Watkins, said the partnership aims to meet the increasing demand for statistical information about Australia's progress at the local level through map-based (spatial) portrayal of information. ANZLIC, through its jurisdictional members, will assist the ABS with the ongoing mapping of those 250,000 small areas. The organisations will also work together using Geographical Information Systems (GIS) to improve statistics, increasing their relevance and use through spatial referencing. The partnership is another step in the long-standing working arrangements between the two organisations. ANZLIC provides the ABS with detailed digital mapping data to conduct the Population and Housing Census and without this data the Australian census would not be ranked, as it now is, among the best in the world. ANZLIC - the Spatial Information Council is the peak inter-governmental Council for spatial information in Australia and New Zealand (<http://www.anzlic.org.au>).

Conferences, Events

Items newly added to this listing of events since the last SDI-AP issue are marked * **NEW** *

Date	Location	Event
June 2005		
4-5 June	Gifu Prefecture, Japan	<u>13th Environment Congress for Asia and the Pacific (ECO ASIA 2005)</u>
5-8 June * NEW *	Abu Dhabi, UAE	<u>A symposium on Integrated Coastal Zone Management in the United Arab Emirates</u>
6-10 June	Stockholm, Sweden	<u>ISO/TC 211 20th Plenary</u> Contact: Jörgen Wyke, Swedish Standards Institute, jorgen.wyke@sis.se
8-17 June	Vienna, Austria	<u>Committee on the Peaceful Uses of Outer Space: 2005</u>



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9-11 June	Istanbul, Turkey	2nd International Conference on Recent Advances in Space Technologies (RAST 2005) Contact: rast2005@hho.edu.tr
13-15 June	Dushanbe, Tajikistan	Second Regional Meeting on Integrated and Transboundary Initiative on Sustainable Land Management in the High Pamir and Pamir-Alai Mountains, Central Asia Contact: pachova@hq.unu.edu
13-16 June	Ottawa, Canada	5th International Conference on 3-D Digital Imaging and Modeling (3DIM2005) Contact: 3DIMconf@nrc-cnrc.gc.ca
16-18 June	Minneapolis, MN USA	Open Source Geospatial '05 – MUM3/EOGEO Call for Presentation Deadline: April 15, 2005
19-25 June * NEW *	Madison, Wisconsin USA	Commission 7 Annual Meeting and Symposium on Innovative Technologies for Land Administration
20-24 June	St. Petersburg, Russia	31st International Symposium on Remote Sensing of Environment "Global Monitoring for Sustainability and Security"
20-24 June	Singapore	ISPRS WG IV/7 Meeting with AOGS2005 Deadline for abstracts: February 15, 2005. Contact: info@asiaoceania-conference.org
21-22 June	Yinchuan, Ningxia, China	Rural and Sustainable Development in West China . Deadline for abstracts: April 10, 2005.
21-22 June	Bonn, Germany	First International Workshop on Next Generation 3D City Models
21-23 June * NEW *	Kuala Lumpur, Malaysia	Knowledge & ICT 4D 2005
21-25 June	Hong Kong	5th Conference on Protected Areas of East Asia - "Sustainable Management of Protected Areas for Future Generations" (second circular)
23-24 June * NEW *	Seoul, Korea	WSIS Thematic meeting on Multi-Stakeholder Partnerships for Bridging the Digital Divide
23-25 June	Pathumthani, Thailand	International Symposium on Floods in Coastal Cities Under Climate Change Conditions Contact: Dr. Dushmanta Datta, < rnus@ait.ac.th >
26-28 June	Abbottabad, Pakistan	ESDev-2005 - First International Conference on Environmentally Sustainable Development Abstracts due: January 31, 2005.
26-29 June	Bangalore, India	Bringing Space Benefits to the Asia-Pacific Region organized by the the Indian Space Research Organisation and the International Institute of Space Law . Contact: ISRO, lochan@isro.org , IISL, secretary@iafastro-iisl.com .
27-29 June	Nanchang, Jiangxi, China	International Workshop on Advanced Watershed Modeling, Water Resources Management, and Complex Environment System Studies
27-29 June	Honolulu, Hawaii, USA	2005 AWRA Summer Specialty Conference - Institutions for Sustainable Watershed Management: Reconciling Physical and Management Ecology in the Asia-Pacific
29 June 2005	Alghero, Sardinia	11th EC GI & GIS Workshop Theme: "ESDI: Setting the Framework"
30 June – 2 July	Ubon Ratchathani, Thailand	International Conference "Transborder Issues in Greater Mekong Sub-region" Deadline for abstracts: April 20, 2005. A total of 15 scholarships will be available to presenters from Lao PDR, Vietnam, Cambodia, Thailand and China's Yunnan province. Scholarships include accommodation, transportation, and per diem.
July 2005		
2-7 July	Auckland, New Zealand	SRTL-4: The Fourth International Research Forum on Statistical Reasoning, Thinking, and Literacy - The Forum's theme is "Reasoning about Distribution".
3-6 July	Southampton, UK	Cambridge Conference: The Exchange – to be held at Ordnance Survey's head office in Southampton, UK. With a greater emphasis on networking and round-table discussions, CC:The Exchange is designed to strengthen relationships between national mapping organization senior representatives and to complement the 2007 Cambridge Conference. Contact: nmonetwork@ordnancesurvey.co.uk
4-7 July	Darwin, NT, Australia	The North Australian Remote Sensing and GIS - NARGIS 2005 – Applications in Tropical Spatial Science Contact: gmesser@norgate.com.au . Deadline for abstracts has been extended; it is now 4 March 2005.



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5-8 July * NEW *	Koahsiung, Taiwan	IEEE 3rd International Workshop on Technology for Education in Developing Countries (TEDC 2005)
6-8 July	London, United Kingdom	9th International Conference Information Visualization Contact: IV05@graphicslink.demon.co.uk
9-16 July	La Coruña, España	XXII ICA International Cartographic Conference.
10-15 July	Sydney, Australia	IWSM 2005-20th International Workshop on Statistical Modelling
17-22 July	Budapest, Hungary	IHC (International Conference on the History of Cartography) 2005 "Changing Borders"
18-22 July	Vancouver, Canada	GML and Geo-Spatial Web Services Conference 2005 Deadline for abstracts: 27 May 2005.
18-23 July	Tours, France	International Union for the Scientific Study of Population - XXV International Population Conference
23-26 July	San Diego, CA, USA	Third Annual Survey and GIS Summit This conference bridges the gap between surveying, engineering, and GIS practitioners.
24-29 July	San Diego, CA, USA	ESRI International User Conference
25-29 July	Seoul Korea	IEEE/IGARSS 2005 The Geoscience and Remote Sensing Society annually sponsors the International Geoscience and Remote Sensing Symposium (IGARSS). Deadline for abstracts: 21 January 2005. IEEE GRSS Student Prize Paper competition application due: 21 January 2005.
26-28 July	Xiamen, P. R. China	4th International Conference on Environmental Informatics (ISEIS2005) Deadline for abstracts: December 30, 2004; Contact: xwang@ryerson.ca
26-29 July	Beijing, China	International Conference on Computer Graphics, Imaging and Visualization (CGIV05) Contact: cgiv05@graphicslink.demon.co.uk
31 July – 2 August * NEW *	Monterey, California	Society for Conservation GIS Annual Conference
31 July – 2 August	Cleveland, Ohio, USA	4th Annual Public Participation GIS (PPGIS) Conference. Deadline for abstracts: March 11, 2005.
August 2005		
3-6 August * NEW *	Kuala Lumpur, Malaysia	International Science Congress 2005
8-13 August	Brisbane, Australia	22nd International Union of Forest Research Organizations (IUFRO) World Congress
17-19 August	Toronto, Canada	13th International Conference on Geoinformatics Theme: "Coping Disasters across Continents". Jointly organized by the International Association of Chinese Professionals in Geographical information Science (CPGIS) and the International Association of Chinese Professionals in Globe Positioning Systems (CPGPS).
22-24 August	Mestre-Venice, Italy	International Workshop 3D-ARCH'2005 3D Virtual Reconstruction and Visualization of Complex Architectures
22-26 August	Cairns, Australia	Dynamic Planet 2005: "Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools" A Joint Assembly of the IAG, IAPSO and IABO. Deadline for submission of abstracts: 23 April 2005.
22-26 August	Copenhagen, Denmark	2nd International Workshop on Geographic Information Management (GIM '05) in conjunction with DEXA 2005 and EGOV 2005. Submission of full papers: March 04, 2005.
22-25 August	Jakarta, Indonesia	Map Asia 2005 Theme: "Empowering people through Geospatial Information" Deadline for abstracts: 30 May 2005. Contact: info@mapasia.org
25-26 August	Beijing, China	ISPRS WG II/7: 4th International Symposium on Spatial Data Quality Deadline for abstracts: February 28, 2005.



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26-29 August * NEW *	Seoul, Korea	The 13th International Conference of Women Engineers and Scientists: Main Force to Reshape the Future World
27-29 August	Beijing, China	ISPRS WG II/1,2,7, VII/6 International Symposium on Spatial-temporal Modeling, Spatial Reasoning, Spatial Analysis, Data Mining & Data Fusion (STM'05) Deadline for abstracts: <u>February 28, 2005</u> .
29-30 August	Vienna, Austria	Joint Workshop of ISPRS and the German Association for Pattern Recognition 'Object Extraction for 3D City Models, Road Databases and Traffic Monitoring - Concepts, Algorithms, and Evaluation'. Deadline for papers: <u>April 15, 2005</u>
30 August-2 September	Vienna, Austria	27th Annual Meeting of the German Association for Pattern Recognition (DAGM2005) Deadline for papers: <u>April 4, 2005</u> Contact: dagm05@prip.tuwien.ac.at
September 2005		
5-9 September	Stuttgart, Germany	50th Photogrammetric Week
6-8 September	Bologna, Italy	River Basin Management 2005 River Basin Management 2005 is the third conference in the series which marks the growing international interest in the planning, design and management of river basin systems -- including all aspects of hydrology, ecology, environmental management, flood plains and wetlands.
7-9 September	Brno, Czech Republic	EnvirolInfo 2005 - Informatics for Environmental Protection - Networking Environmental Information Deadline for abstracts: <u>February 1, 2005</u> .
7-9 September	Trier, Germany	1st International Conference on Remote Sensing & Geomatics in the Assessment and Monitoring of Land Degradation & Desertification (RGLDD) Deadline for papers: <u>March 31, 2005</u> , Contact: rglidd@uni-trier.de
7-10 September	Nairobi, Kenya	Mapping for Change: International Conference on Participatory Spatial Information Management and Communication Contact: pgis2005@itc.nl
7-11 September	Zaragoza, Spain	6th International Conference on Geomorphology Deadline for abstracts: <u>March 1, 2005</u> .
11-14 September	Penang, Malaysia	8th International Asian Planning Schools Association Congress . The theme for this conference is Cities for People. Abstracts due <u>1 March 2005</u> .
12-13 September * NEW *	Cairo, Egypt	Arab Map 2005 - ITI 6th Arab GIS Conference
12-14 September	Enschede, the Netherlands	ISPRS Workshop - Laser Scanning 2005 Deadline for paper submission: <u>April 15, 2005</u> .
12-16 September	Mumbai, India	Global Forum for Health Research 2005 (Forum 9) . The theme of the forum will be poverty, equity and health research. Abstracts should highlight research to reduce inequities in health, and health research through effective action on the social determinants of health. Deadline for abstracts: <u>31 March 2005</u> .
12-16 September * NEW *	Isfahan, Iran	International Conference on Human Impacts on Soil Quality Attributes in Arid and Semiarid Regions
15-16 September	Montreal, Canada	ISO/TC 211 21st Plenary http://www.isotc211.org/
16-17 September	Cambridge, U.K.	GEOMED 2005 is the fifth international, interdisciplinary conference on geomedical systems. GEOMED brings together statisticians, geographers, epidemiologists, computer scientists, and public health professionals to discuss methods of spatial analysis, as well as present and debate the results of such analyses. Deadline for abstracts: <u>15 May 2005</u> .
19-20 September	Beijing, China	The 42nd CCOP (Coordinating Committee for Geoscience Programs in East and South East Asia) Annual Session and the 46th CCOP Steering Committee Meeting
20-22 September	Tel Aviv, Israel	6th International Local Authorities Confronting Disasters and Emergencies (LACDE) Conference



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25-26 September	Kathmandu, Nepal	International Symposium on Landslide Hazard in Orogenic Zone, Himalaya to Island Arc in Asia
25-27 September	Magdeburg, Germany	Second International ICSC Symposium on Information Technologies in Environmental Engineering (ITEE'2005) The deadline for submission of papers is: <u>February 28, 2005.</u>
26-28 September	Kuwait	Kuwait First International Remote Sensing Conference & Exhibition Deadline for abstracts: <u>June 30, 2005</u>
27 September – 1 October	Torino, Italy	XX CIPA (International Scientific Committee for Documentation and Architectural Photogrammetry) Symposium “International cooperation to save the world’s cultural heritage”
30 September – 2 October	Adelaide, Australia	Australian and New Zealand Association of Planning Schools (ANZAPS) 2005 Conference
October 2005		
3-5 October	Vienna, Austria	7th International Conference on Optical 3-D Measurement Techniques Contact: conf@pop.tuwien.ac.at
6-8 October	Hong Kong	The First International Symposium on Cloud-Prone and Raining Areas Remote Sensing (CARRS 2005) will be held at the Chinese University of Hong Kong, Organized by the Joint Laboratory for GeoInformation Science of Chinese Academy of Sciences and the Chinese University of Hong Kong. Abstract Deadline: <u>February 1, 2005.</u>
9-12 October	Kansas City Missouri, USA	URISA's 43rd Annual Conference Abstract deadline extended to: <u>February 11, 2005</u>
9-13 October	Bonn, Germany	6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community
11-13 October	Kitakyushu, Japan	12th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-12)
14-15 October	Kitakyushu, Japan	UN/IAF Workshop on Space Education for Sustainable Development To review a number of education and capacity building initiatives that are being carried out by various entities through international cooperation and to look for ways to build synergies among them.
14-16 October	Hangzhou, China	ISPRS International Workshop on “Service and Application of Spatial Data Infrastructure” The workshop is a joint workshop of ISPRS working groups, i. e. WG IV/ 1 “Spatial Data Infrastructure”, WG IV/ 8 “Spatial Data Integration for Emergency Services” and Inter- Commission WG II/ IV “Dynamic and multi-dimensional Systems and Applications”, together with Permanent Committee on GIS Infrastructure (PCGIAP) WGs, The CEOS Working Group on Information Services and Systems (CEOS- WGISS), Global Spatial Data Infrastructure Association (GSDI) and ISO/ TC211 AG on Outreach.
15 October	Beijing, China	ISPRS Workshop in conjunction with ICCV 2005 - "Towards Benchmarking Automated Calibration, Orientation and Surface Reconstruction from Images" ICCV 2005
16-21 October	Fukuoka, Japan	56th International Astronautical Congress “Space for the Inspiration of Mankind”
17-20 October	Bilbao, Spain	41st Annual International Society of City and Regional Planners (IsoCaRP) World Congress Expected deadline for papers: <u>end of April 2005.</u>
17-21 October	China, P. R.	27th ICSU Assembly . Organised by the International Council for Science (ICSU).
23-27 October	Sioux Falls, South Dakota, USA	Pecora 16 - "Global Priorities in Land Remote Sensing" Deadline for abstracts: <u>February 15, 2005.</u>
25-29 October	Kusadasi, Turkey	MEDCOAST 2005 (7th International Conference on the Mediterranean Coastal Environment) Coastal systems and conservation issues; Integrated coastal management; Sustainable development of coastal areas; and Coastal engineering, modelling, decision support systems and data management.



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31 October - 2 November	Wuhan, China	4th International Symposium on Multispectral Image Processing & Pattern Recognition Abstract Deadline: February 15, 2005
November 2005		
3-4 November	Sofia, Bulgaria	International Symposium on Modern Technologies, Education & Professional Practice in Geodesy & Related Fields Contact: milev@bas.bg
14-16 November * NEW *	Doha, Qatar	2005 Qatar GIS Conference and Exhibition
19-23 November	Kuwait	7th Gulf Water Conference - Water in the GCC - Towards an Integrated Water Resources Management (IWRM) (Arabic) Contact: gwater7@kISR.edu.kw
21-25 November		
	Bandar Seri Begawan, Brunei Darussalam	8th South East Asian Surveyors Conference (SEASC) . Contact: survey@brunet.bn Full paper submission: 2 September 2005 . Contact: secretariat@seasc2005.org.bn .
23-25 November	Jakarta, Indonesia	Asia Europe Environment Forum (ASEF) Conference - "1/3 of Our Planet: What Can Asia and Europe Do for Sustainable Development?"
29-30 November	Maxico City, Maxico	First International Conference on Geospatial Semantics (GeoS 2005) Deadline for paper submissions: 25 May 2005 .
28 November – 2 December	Khon Kaen, Thailand	First international symposium on the Management of Tropical Sandy Soils for Sustainable Agriculture - a holistic approach for sustainable development of problem soils in the tropics Submissions of abstracts due by 28 January 2005 .
30 November – 2 December	Moscow, Russian Federation	2nd International Conference Earth from Space – the most effective solutions Abstract deadline: August 1, 2005 .
December 2005		
8-10 December * NEW *	Macres, malaysia	ISPRS Workshop On Spatial Planning & Decision Support Systems
12-14 December	Kuwait	Gulf First Urban Planning and Development Conference Abstract deadline: June 30, 2005 . Contact: Gulf Urban Planning
12-15 December	Dubai, UAE	Gulf Traffic 2005 The use of GIS in transportation planning is now an essential part of the design and implementation of successful transport networks across the Middle East. There will be a dedicated one-day conference stream on the use of GIS/ Location based services within the field of traffic and transportation. To submit a suggested paper for review and possible inclusion, email Davyd Farrell – davyd.farrell@iirme.com . Gulf Traffic 2005 Brochure .
27-31 December	Kuala Lumpur, Malaysia	International Statistics Conference “Statistics in the Technological Age” Deadline for abstracts: September 15, 2005
January 2006		
February 2006		
19-22 February * NEW *	Orlando, Florida	Integrating GIS & CAMA 2006 Conference
24-25 February	Cesky Krumlov, Czech Republic	International Map Trade Association (IMTA) Global Conference and Trade Show 2006
March 2006		
16-22 March	Mexico	4th World Water Forum The main theme of the Forum will be "Local actions for a global challenge". A series of regional meetings will be held throughout the preparatory phase in order to identify good practices and learn lessons from shared experiences, as well as to support and encourage local commitments. Guiding principles, main objectives, framework themes and topic sessions available for comments in the concept paper .
April 2006		



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May 2006		
25-26 May	Orlando, Florida, USA	ISO/TC 211 22nd Plenary http://www.isotc211.org/
June 2006		
July 2006		
13-17 July	Wollongong and Sydney, Australia	COAST - GIS 06 - 7th International Symposium on GIS and Computer Cartography for Coastal Zone Management. GIS for the coastal zone: Spatial Data, Modelling and Management; Extending the Spatial Data Infrastructure. Collaboration between the International Cartographic Association's Commission on Marine Cartography and the International Geographical Union's Commission on Coastal Systems
31 July – 4 August	Denver, Colorado, USA	IEEE/IGARSS 2006
August 2006		
September 2006		
18-22 September	Yokohama City, Japan	7th International Conference on Geosynthetics (geotechnical engineering, environmental engineering, civil engineering, hydraulics, geology, etc.). Deadline for abstracts: <u>31 March 2005</u> .
October 2006		
9-13 October	Santiago, Chile	9th International Conference on Global Spatial Data Infrastructure organized by GSDI Association & Instituto Geográfico Militar Contact: gski9@igm.cl
October	Beijing, China	20th CODATA (Committee on Data for Science and Technology) Conference Contact: codata@dial.oleane.com .
November 2006		
14-15 November	Riyadh, Saudi Arabia	ISO/TC 211 23rd Plenary http://www.isotc211.org/
November	Singapore	2006 International Map Trade Association (IMTA) Global Conference and Trade Show Contact: imta@maptrade.org

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