



Spatial Data Infrastructure - Asia and the Pacific Newsletter

SDI-AP Newsletter

February 2004

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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.

To subscribe to SDI-AP, please do so online at: <http://fgdc3.er.usgs.gov/Registration/>
To unsubscribe, or change your email address, contact: sdi-ap@godi.org.

Please mention SDI-AP in any correspondence you may have on 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 10th of each month to sdi-ap@godi.org so that we can include them in the newsletter.

We encourage you to forward this newsletter onto colleagues who may find the information useful, and ideally they will subscribe themselves.

This current issue is at : <http://www.godi.org/SDI-AP/SDIAPv1n4.pdf>

Back issues of the newsletter are at the:

GSDI website: <http://www.godi.org/SDI-AP/SDI-APNEWS.html>, and

PCGIAP website: http://www.pcgiap.org/tech_paprs/tech_paprs.htm#GSDI

Best regards, Jaishree Beedasy, Kate Lance, and Oh Sung Kwon

Input to this Issue

Thank you to Mariko Ito, PCGIAP, and to Mohammad Sarpoulaki, National Cartographic Centre of Iran, for their contributions to this issue of the newsletter.

SDI News, Links, Papers, Presentations

[GSDI Conference Concludes](#) [Source: ISRO Press Release]

The 7th International Conference of the Global Spatial Data Infrastructure (GSDI) concluded in Bangalore February 6, 2004. The Conference, which was inaugurated by Dr K Kasturirangan, Member of Parliament, (Rajya Sabha) on February 2, 2004, was attended by about 400 delegates including 115 international delegates from 36 countries. During the four Plenaries and five Technical sessions spread over the last 5 days, the conference focused on spatial data infrastructure for a sustainable future and deliberated on the policies, technologies and applications for making remote sensing and Geographical Information System (GIS) as essential parts of governance and commerce. The conference also addressed the national, regional and global Spatial Data Infrastructure (SDI) initiatives. The 7th GSDI, which was organized by ISRO and Department of Science and Technology with support from several public and private agencies across the world, brought to focus India's achievement in the field of imaging, mapping and GIS applications. The Spatial Expo organized as part of the conference showcased the latest products and applications of GIS, Global Positioning System (GPS) and Remote Sensing. A round table was held February 7, 2004 between the



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Open GIS Consortium (OGC) and ANTRIX of the Department of Space, in which about 20 representatives from the Indian industries participated to discuss the interoperability and common standards for SDI. Another important outcome of the conference was that the GSDI Association has agreed to consider India's offer to host the International Secretariat of GSDI Association at Bangalore. The 8th GSDI Conference will be held at Cairo, Egypt in April 2005.

[Mape 'o Tonga](#)

This web site provides maps of various fields and features of the Kingdom of Tonga. This project is part of the EU funded project implemented by SOPAC: Reducing vulnerabilities in Pacific ACP states. For more information: [SOPAC Mapserver](#).

[ALIS – Attanagalle Land Information System](#) (Sri Lanka). A.L.I.S. aims to realize an exchange of information and know-how between Sri Lankan- and European experts, in order to develop awareness about the multitude of uses of geographic data and geographic information systems as a reference system for the organization of the management of small and large administrative units. The groups targeted by A.L.I.S. are: the Survey Department of Sri Lanka, the Sub Divisions of Sri Lanka classified under the name of Secretariat and among them.

[Dubai Geographic Information Systems Center](#)

Dubai Municipality is committed to building an enterprise GIS that serves the needs of all its departments, citizens, residents and businesses. The Municipality continues to seek innovative and effective means of applying GIS technology to improve municipality's operational and planning capabilities and the quality of life of its citizens & residents. Dubai Municipality established a GIS Center in February 2001. Its purpose is to be a central repository of geographic information of the Emirate of Dubai and to provide GIS related services to departments of Dubai Municipality, other government organizations of the Emirate and the private sector. The Center's mandate, pertaining to geographic information, is described in [Law No. \(6\) of 2001](#) issued by His Highness Sheikh Maktoum Bin Rashid Al Maktoum, Ruler of Dubai.

[Interactive online Internet Mapping](#). "[Explore Dubai](#)" presents geographic data in a format suitable for first-time Internet and/or GIS users, but robust enough for seasoned GIS professionals.

[Syria uses digital power to upgrade disaster preparedness](#)

Syria has set up an online disaster management database in all 14 governorates and trained 350 government staff on how to respond to natural and man-made disasters. The project, implemented by the Ministry of Local Administration in partnership with UNDP, comes after the the Zeyzoun dam in the north collapsed in 2002, affecting more than 40,000 people. Although the Government responded quickly, with support from UN agencies, the calamity highlighted the need to upgrade disaster management. The US\$307,500 two-year initiative began last April, and the partners are sharing the costs. The database uses geographic information systems (GIS) technology that combines data of many kinds — including such features as roads and other transport links, buildings and local institutions and population — to give a comprehensive overview vital to coordinating disaster relief and recovery. The system has a central computer server at the ministry and a web site to enable decision makers and local officials to add or modify data and gain easy access to information. It will include radio communications to coordinate emergency response activities. For further information please contact Kanan Khatib , UNDP Syria, kanan.khatib@undp.org.

[Methodology for Selection of Framework Data: Case Study for NSDI in China](#) Wulan, ITC, The Netherlands, March 2002. Thesis submitted to the International Institute for Geoinformation Science and Earth Observation. The NSDI encompasses policies, standards, and procedures for organizations to cooperatively produce and share geo-spatial data. The framework forms the data backbone of the NSDI. It has three aspects: data, procedures and technology for building and using the data, and institutional relationships and business practice that support environment. The data is the fundamental of the framework, hence is the most fundamental of the NSDI. China is making effort on setting up the NSDI and the framework. The National Spatial Data Infrastructure Coordinate Committee in China was set up in 2001 in order to administrate the design and implementation of the NSDI.



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[Mapping opportunities: scientists who can combine geographic information systems with satellite data are in demand in a variety of disciplines](#)

GIS Tools, Software, Data

Download updated version of [Spatial Data Infrastructure Cookbook](#), v2.0 (PDF) January 2004. Editor: Douglas D. Nebert –Technical Working Group Chair, GSDI. This SDI Implementation Guide or Cookbook, through the support of the Global Spatial Data Infrastructure community, provides geographic information providers and users with the necessary background information to evaluate and implement existing components of SDI. It also facilitates participation within a growing (digital) geographic information community known as the Global Spatial Data Infrastructure (GSDI). For further information, contact: ddnebert@fgdc.gov.

[OGC Interoperability Add-On for ArcGIS Now Available](#)

The OGC Interoperability Add-On for ArcGIS is available as a [free download](#). The add-on extends ArcView, ArcEditor, and ArcInfo 8.3 to act as a client for Open GIS Consortium, Inc. (OGC) WMS-and WFS-based services and to read and write GML.

[Land Resource of Russia](#) CD-ROM

The overall objective of the CD-ROM is to answer the need for a harmonized collection of integrated data on the land resources of Russia, as described in Chapter 10, Agenda 21 of UNCED. Today's dynamic society has been facing increasingly complex, closely interrelated, and rapidly spreading problems. Numerous scientists and policy-decision makers around the world are looking for integrated, holistic information that will enable them to undertake proper, timely, and relevant actions. They are preparing to aim modern and highly advanced technologies at effective management, hoping to help the world adapt to new realities. This CD-ROM is in line with these efforts and proposes new perspectives for encouraging land resources development in Russia.

All of the [data](#) presented on this CD-ROM is available for DOWNLOAD. It has been organized by topic under Socio-Economy, Natural Conditions and Land Endowment. The CD-ROM production was initiated and supported by the Russian Committee of Systems Analysis of the Russian Academy of Sciences and the Forestry project of the International Institute for Applied Systems Analysis (IIASA). The baseline data have been developed at IIASA with considerable contributions from various institutes and organizations within Russia.

At [meetings](#) held at United Nations Headquarters in January 2004, [OGC](#) members approved the [OpenGIS Location Services \(OpenLS\) Specification](#). The OpenLS Implementation Specification defines a set of core interfaces for implementing interoperable location service applications. The core interfaces are for accessing directory services (such as yellow pages), route determination, location determination gateway, geocoding, reverse geocoding, and portrayal services using standard Web protocols. The interfaces allow telecommunications companies, telematics service providers, traditional GIS technology companies, and location-based services (LBS) providers to efficiently implement interoperable LBS applications that seamlessly access multiple content repositories and service frameworks that work across the world's many different wireless networks and devices.

Geospatial Research, Applications, Reference Material

[India to Undertake Satellite Imaging for Maldives](#)

India will undertake the task of providing satellite imaging and aerial services for creating digital mapping of Maldives and for setting up of a Remote Sensing Unit in the Maldives for analyzing and updating the data. A Memorandum of Understanding to this effect was signed on January 22, 2004 in Male, Maldives by Mr S M Gavai, High Commissioner of India in the Maldives on behalf of the Government of India and Mr Hamdun Hameed, Minister of Planning and National Development on behalf of the Government of Maldives.

Integrated Environmental Assessment (IEA)

The IEA sub-project is a joint initiative in the Asia-Pacific region, designed to provide integrated models of the environment and economy, as well as a database, that can be applied to the systematic assessment of innovation



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strategies for sustainable development in the region. The models and database are being developed based on a set of well-known computer simulation models for the region, collectively known as AIM (Asia-Pacific Integrated Model) [Asia-Pacific Environmental Innovation Strategy Project \(APEIS\)](#)

[Developing a prototype of geoinformation system for poverty assessment to support the implementation of poverty alleviation program in Vietnam: Case study of Ha Tinh province](#) (February 2003)

Presently, poverty assessment is formulated at three administrative levels: district, province and national levels to define the list of poor communes for the whole country. For developing a GIS for poverty assessment this study employs the Structured System Development Methodology that includes three phases: problem definition, system design and implementation.

[Modelling Spatial and Temporal Urban Growth](#)

Doctoral Dissertation (2003), Faculty of Geographical Sciences, Utrecht University, Utrecht, The Netherlands
Jianquan Cheng, ITC. This research focuses on improving modelling methods and techniques to analyse urban growth as a complex phenomenon. The broader concept of urban development implies changes, growth or decline. The term includes the physical, socio-economic and environmental dimensions. Since 1949, Chinese cities have undergone two waves of urban growth, the first spurred by the rapid industrialisation from 1953 to 1965 and the second stimulated by land reform from 1987 onwards (chapter 3). Rapid spatial expansion has caused China's cultivated land per capita to decrease significantly from 1800 m² in 1949 to 1133 m² in 1995). The massive loss of agricultural land has evoked the awareness of the central government. The phenomenon threatens its sustainable development strategy. In 1997, a countrywide project under the auspices of the China State Land Administration was implemented to monitor the dynamics of urban expansion in 100 municipalities. Landsat Thematic Mapper (TM) images acquired for 1989/1992 and 1996/1997 were used to examine the scope and the speed of urban expansion in this period (Ji et al., 2001). It can be predicted that an urgent follow-up task will be to model urban expansion for the purpose of decision-making in planning and management at various levels of government, based on the outcome of the monitoring exercise.

Funding Opportunities, Awards, Support

[Intergraph Awards](#)

Each year the Intergraph GeoSpatial Users Community conducts awards programs and competitions that recognize and reward professional excellence and innovative achievements by individuals and organizations in the mapping and geospatial industries, and in the field of education.

[Geospatial Achievement Awards](#)

The Intergraph GeoSpatial Users Community (IGUC) and Intergraph Mapping and Geospatial Solutions invite you to participate in the 2004 Geospatial Achievement Awards program. This program honors organizations that have embraced geospatial technology to better serve their communities or constituencies. The Geospatial Achievement Award program also recognizes users for implementing innovative and technologically advanced solutions, setting the standard for others to follow. For questions regarding the program, contact: iguc@ingr.com. The deadline for submitting entries is April 1, 2004. See [program guidelines and entry form](#).

[Third Annual Awards for Cartographic Excellence](#)

The Intergraph GeoSpatial Users Community (IGUC) and Intergraph Mapping and Geospatial Solutions invite you to participate in the third annual Awards for Cartographic Excellence Program. Recipients of the awards earn professional recognition and acknowledgement of their achievement on the Intergraph Mapping and Geospatial Solutions' Web site and in corporate publications. In addition, the Intergraph Mapping and Geospatial Solutions' public relations department will promote winning entries for possible highlighting in industry publications. All entries will be exhibited and judged during [GeoSpatial World 2004](#), the Intergraph GeoSpatial Users Community international training and management conference, May 12 - 14, in Miami Beach, Florida. The deadline for submitting entries is April 10, 2004. See [program guidelines and entry form](#). For questions regarding the program, contact [IGUC](#).



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[Award for Innovative Raster Analysis](#)

The Intergraph GeoSpatial Users Community (ICUG) and Intergraph Mapping and Geospatial Solutions invite you to participate in this new Innovative Raster Analysis contest. Recipients of the award earn professional recognition and acknowledgement of their achievement on the Intergraph Mapping and Geospatial Solutions' Web site and in corporate publications. In addition, the Intergraph Mapping and Geospatial Solutions' public relations department will promote winning entries for possible highlighting in industry publications. All entries will be exhibited and judged during [GeoSpatial World 2004](#), the Intergraph GeoSpatial Users Community international training and management conference, May 12 - 14, in Miami, Florida. The deadline for submitting entries is [April 10, 2004](#). See [program guidelines and entry form](#). For questions regarding the program, contact [IGUC](#).

[H. J. Heinz Company Foundation Fellowship Program 2004/2005](#) University Center for International Studies, University of Pittsburgh. The Fellowship is offered annually and provides for one year of practical, professional, and non-degree educational experiences through the University of Pittsburgh in Pittsburgh, Pennsylvania, USA. For each round, Heinz Fellowships will be granted to two individuals from developing countries who demonstrate potential as future leaders in the government, non-profit, or private sectors. Applicants for this non-degree program should complete the [Heinz Fellowship Program Application Forms](#). Completed applications must be received no later than [March 15, 2004](#). Late materials will not be considered. University Center for International Studies, 4G29 Posvar Hall, University of Pittsburgh, Pittsburgh, PA 15260, E-mail: heinz@ucis.pitt.edu

[Netherlands Fellowships Programme - Regular Fellowships Programme \(NFP-RFP\)](#)

The NFP Fellowships Programme is intended to deepen and broaden knowledge and professional skills of mid-career people to enable them to make a better contribution to the development of their organizations and their countries. The fellowship is initially granted to cover the [MEng](#) only; in a limited number of cases this can be extended to cover the [MSc](#) period. The application forms can be obtained from the Dutch diplomatic representation in the candidate's home country and should be submitted to the same diplomatic representation. To be eligible for this fellowship, a candidate should be able to submit proof of academic admission to the programme that the candidate is applying for a fellowship for. Besides this a candidate should be working in a developing country in a development-related position; and be nominated by his/her employer, who pledges to continue payment of the candidate's salary and hold the candidate's job for them while they are in the Netherlands.

For the academic year 2004/2005 that will start in October 2004, the deadline for submission of NFP applications to your local Embassy of the Netherlands is [March 1, 2004](#), as applications will need to be received in The Netherlands by April 1 at the latest. So please make sure that your NFP application for the academic year 2004/2005 is received at the Embassy before March 1, 2004. In this respect we advise you to check with the Embassy of the Netherlands in your country if indeed March 1 is the deadline they apply. In some countries Embassies may apply even an earlier deadline.

[Russell E. Train Fellowships Program 2004-2005 Indonesia Program](#)

WWF's Education for Nature Program. Requirements for eligibility include: Applicant must be a citizen or legal permanent resident of Indonesia, have at least two year's work experience in conservation activities, be enrolled, admitted or have applied to a graduate degree program (master's or PhD) at an institution of higher education by the application deadline and must plan to begin studies no later than one year after the application deadline, must commit to working at least two years after the completion of the degree in applicant's home country or another country in the region. Priority will be given to applicants whose fields of study pertain to the following: a natural or social science discipline relevant to conservation in the New Guinea Moist Forest and the Sumatran Lowland Forests and Sundabarn Rivers and Swamps ecoregions (both highlighted in black map) and the Sulu-Sulawesi Seas ecoregion (highlighted in dark gray); additional ecoregions include the Flores Banda Sea and the Nusa Tenggara Dry Forests, a natural or social science discipline relevant to conservation the Wallecea region, endangered species in Indonesia (nationwide), including whales, elephants, sea turtles, orangutans and tigers, cetaceans or cetacean by-catch issues (nationwide), environmental education (nationwide), environmental policy, environmental economics, or environmental law (nationwide) For more information, please visit the [EFN website](#). See [Guidelines](#) for the Indonesia Program. To request an application or if you have any questions about the Russell E. Train Fellowships program, contact the Indonesian International Education Foundation (IIEF) at 021-8317330 ext.18/19 or by email at



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scholarship@iief.or.id. The application deadline is March 1, 2004. All applications must be postmarked by this date. Applications sent after this date will not be considered. Please send your completed application to: Education for Nature Program, Indonesian International Education Foundation (IIEF), Menara Imperium 28th Floor-Suite B, Jl. H. R. Rasuna Said, Jakarta 12980, Indonesia

[Russell E. Train Fellowships Program 2004-2005 Vietnam Program- WWF's Education for Nature Program \(EFN\)](#) Applicant must be a citizen or legal permanent resident of Vietnam, have at least two year's work experience in conservation activities, be enrolled, admitted or have applied to a graduate degree program (master's or PhD) at an institution of higher education by the application deadline and must plan to begin your studies no later than one year after the application deadline, must commit to working at least two years after the completion of the degree in applicant's home country or another country in the region. See [website](#) to determine if you are eligible to apply for a Russell E. Train Fellowship through Education for Nature. Priority will be given to applicants whose fields of study pertain to the following: a natural or social science discipline relevant to conservation in the Lower Mekong Forests ecoregion (highlighted in black on map), endangered species in Vietnam, environmental education, environmental policy, environmental economics, or environmental law. To request an application please or if you have any questions about the Russell E. Train Fellowship program, please contact the Institute of International Education at (84-4) 935-0412 or by email at iiehn@iievn.org. The application deadline for Russell E. Train Scholarships and Fellowship is February 28, 2004. All applications must be postmarked by this date. Applications sent after this date will not be considered. Please send your completed application to: Education for Nature, Institute of International Education, Tung Shing Square, Room 505, 2 Ngo Quyen Street, Hanoi, Viet Nam.

[Joint Japan/World Bank Graduate Scholarship Program \(JJ/WBGSP\)](#)

Each year, the Program awards scholarships to individuals from World Bank member countries (eligible to borrow) to undertake graduate studies at renowned universities throughout member countries of the Bank. The [application](#) together with all supporting documentation as enumerated in the Checklist must be received in the Scholarship Program Office in ONE PACKAGE by the deadline of March 31, 2004. See eligibility criteria.

[Postdoctoral Fellowships to the UK from India](#)

The Royal Society International Fellowships to the UK from India have been established by the Society to strengthen scientific collaboration between the United Kingdom and India. They aim to encourage young and excellent postdoctoral scientists based in India to undertake high quality research in centres of scientific excellence in the UK. Applications must be made by the UK host. The Royal Society runs two annual closing dates for receipt of applications: 31 March, 30 September.

[Postdoctoral Fellowships to the UK from China](#)

The Royal Society's China Fellowships Programme aims to foster science and technology links between the United Kingdom and China, enabling young and outstanding postdoctoral scientists from China to conduct cutting-edge research with their UK counterparts. The Royal Society runs two annual closing dates for receipt of applications: 31 March, 30 September.

[2004 SCGIS International Scholarship Awards Program and 2004 International Leadership Grants](#)

Applicants must be affiliated with a non-profit conservation organization or a university conservation project in their region or country. Applicants must be affiliated with a non-profit conservation organization or a university conservation project in their region or country. Deadline for applications is February 29.

2004 SCGIS International Leadership Intern Grants will provide grants of up to \$10,000 to leaders and advanced GIS activists to help build SCGIS chapters internationally. These interns will also be involved in California and DC to get advanced training and to help teach and participate with the international scholars. If you have leadership experience and a background in conservation activism using GIS and are interested in this program please cc this application to Charles Convis, eCP2@esri.com. Please include at the top an essay on your leadership abilities and your thoughts on the problems and challenges in building a community of activists using technology in your area. The first such grant is available now, but the application procedure has not yet been defined so SCGIS will be borrowing from this application at first. SCGIS hopes to eventually provide 10-20 such grants.



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2004 SCGIS International Scholarship Awards Program enable selected applicants to join SCGIS for advanced GIS software training and the Seventh Annual SCGIS Conference, to be held this coming October, in the Washington DC area (USA). Training, which will occur prior to and following the SCGIS Conference, will be focused on the Environmental Systems Research Institute (ESRI) suite of GIS software. The conference will provide a venue to discuss and promote local and global conservation of natural and cultural resources through geospatial technologies as well as provide a venue to establish long lasting and productive partnerships with fellow conservationists. Conservation GIS users who require financial assistance to enable them to attend the Conference and training can apply for limited, competitive scholarships following the steps below. Scholarship funds will cover all or partial airfare, and waivers for SCGIS conference related fees, as well as pre and post conference training. This year's training curriculum will be dictated by the skill-level of accepted applicants all efforts will be made to accommodate your specific needs.

[Pacific Island Training Institute on Climate and Extreme Events](#)

As part of the APN CAPaBLE Programme, the University of the South Pacific (USP), the East-West Center (EWC) and the New Zealand National Institute of Water and Atmospheric Research (NIWA) will convene a two-week Pacific Island Training Institute on Climate and Extreme Events from 15-28 June 2004 at the Suva campus of the University of the South Pacific. Deadline for submissions is 12 March 2004. Complete [application materials](#) must be received by the Pacific Centre for Environment and Sustainable Development (PACE-SD) at the University of the South Pacific in Suva, FIJI by 12 March 2004.

[GKP SGSIP Fund 2004](#)

The Global Knowledge Partnership (GKP) is pleased to announce its Seed Grant and Small Innovative Projects Fund (SGSIP Fund) for the year 2004. Supported by the Swiss Agency for Development and Cooperation (SDC), GKP invites [Letters of Inquiry](#) for pilot projects or from new or ongoing small-scale initiatives, between US\$10,000 to US\$15,000, with a focus on developing countries. Priority will be given to small or locally-based organizations. Deadline: 29 February 2004. For more information, contact: SGSIP Fund, seedgrant@gkpsecretariat.org.my

[Pan Asia ICT R&D Grants Programme - March 2004 Competition Round](#)

This open theme competition welcomes proposals in the following areas:

- Research and development into innovative ICT applications, with a clear focus on practical and replicable approaches and techniques.
- Research on Internet infrastructure design, performance, management policy and related topics.
- Development of practical solutions based on the application of proven and readily available Internet technologies with minimum basic research.
- Research on the outcomes and social impacts of specific ICT policies and interventions and application of Internet technologies.
- Research on policy matters affecting Internet networking in the Asia Pacific region, especially where linked to areas such as policy impacts, gender equity, social equity, sustainable communities, and technology diffusion/transfer and benefits to rural areas.
- Technology related issues such as Broadband Connectivity, Last mile innovation, Mobile and Wireless technologies for the developing world and Increasing the capacity / efficiency of existing network infrastructures.

Interested organizations/institutions from the Asia Pacific region may apply for two types of grants:

Grants, up to a maximum budget of US\$9,000 will be available over a term not exceeding 12 months.

Grants, up to a maximum budget of US\$30,000 will be available over a term not exceeding 24 months.

Please read the Guide to the Programme to learn more about the [Scope](#), [Criteria](#), [Grants awarded](#) before completing an [Application form](#) with the full details of your proposal. Please note that proposals must satisfy all of the programme requirements in order to be considered for funding. The deadline for submissions is 31 March 2004.

Training Opportunities

[Vespucci Initiative](#) for the Advancement of Geographic Information Science

2nd Annual Summer School on Geographic Information Science, focusing on Spatial analysis, SDI research, and Geodemographics, 5 - 23 July 2004 (three, one-week sessions). The Summer School is aimed at researchers from



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the university, commercial, and government sectors. It provides an inspiring and productive opportunity for peer-to-peer interaction with leading international experts in the field. Attendees will be selected based on merit, and according to space limitations. To insure maximum interaction, the number of participants is limited: so register early! Deadline: 30 April 2004.

[United Nations/European Space Agency/Government of Sudan Regional Workshop on the Use of Space Technology for Natural Resources Management, Environmental Monitoring and Disaster Management](#), Khartoum, Sudan, 4 – 8 April 2004 - This workshop is being planned for participants from Africa and Western Asia and will focus on the use of space technology within the region to support activities in the area of Natural Resources Management, Environmental Monitoring and Disaster Management. Deadline for application is: Friday 27 February 2004.

[United Nations/Islamic Republic of Iran Regional Workshop on the Use of Space Technology for Environmental Security, Disaster Rehabilitation and Sustainable Development](#), Tehran, Islamic Republic of Iran, 8 - 12 May 2004. This workshop is being planned for participants from Western, Central and South Asia and will focus on the use of space technology in areas which have become even more relevant due to the recent earthquake in Bam. Deadline for application is: Friday 26 March 2004. Source: Space Technology and Disaster Management - January 2004 Update

[3rd Workshop on Remote Sensing for Developing Countries](#), Cairo, Egypt, 26-29 September 2004.

The main topics will include : Adapted Mapping Methods, Monitoring Salinisation, Desertification and Erosion and DEM Generation from Remote Sensing Data. The Workshop will include a field trip to the Ismailia Governorate. Deadline for abstracts: 22 February 2004.

[Groundwater Development and Management in Hard Rock Areas](#) Duration: May 3 - May 28, 2004, Location: Göteborg, Tanum, Sweden. Objectives: To provide knowledge and understanding of the occurrence, properties and development of groundwater in hard rock areas. To provide the participants with tools and capabilities to adapt the technology of groundwater abstraction from hard rock terrain to the local conditions of their own organizations. The programme will focus on technical, institutional, social and economic aspects of managing small-scale water supply schemes through a holistic understanding, local application and long-term perspective. Target group: Technical managers or senior officers of public authorities or NGOs, or lecturers at universities and other educational institutions, involved in the development and management of groundwater supplies from hard rock terrain. Closing date for applications: March 15, 2004. [Costs and Financing](#): Costs for this training - which may vary between individual programmes - are divided between participation fee, accommodation. The participation fee covers all training costs such as tuition, literature, documentation, study tours and medical emergency insurance. Accommodation costs include board and lodging while personal expenses are the responsibility of the individual participant. Costs for international travel to and from Sweden are normally not financed by SIDA. [SIDA](#) provides scholarships covering participation fees and accommodation costs for participants from lower and lower-middle income developing countries. For details contact: Programme organiser: Chalmers University of Technology, Department of Geology, International Training Programmes Att: Yvonne Young Address: SE-412 96 Göteborg, Sweden. E-mail: courses@geo.chalmers.se.

Employment Opportunities

[Land Information Officer, Northern Territory Government, Department of Infrastructure, Planning and Environment](#), Darwin, Australia.

Primary Objective: To maintain graphical and textual land information records or produce maps, plans and land information products for internal and external clients. Key Responsibilities: Maintain and improve the graphical and textual data bases of the NT Land Information System, Support Departmental activities through the production of maps, digital data and land information products, using manual and computer based applications and peripherals, Maintain and interpret land records, plans, maps and related databases for the provision of land information reports and advice to government and the public for legal, administrative and private purposes. Selection criteria: Tertiary qualifications in a land-related discipline such as cartography, geography, surveying, or extensive practical



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experience in a field relevant to the position, Sound practical experience with a range of computer based applications and land information systems to maintain or produce plans/maps/reports and other land related data and products. Proven ability to adapt to technical and organisational changes and learn new techniques and systems as they are introduced into the workplace. Knowledge of map production processes, concepts and techniques and developments in computer aided mapping, drafting or database technology. Proven ability to work in a team environment. Applications should be forwarded by one of the following methods -by posting to: The Recruitment Officer DIPE, Department of Corporate and Information Services, GPO Box 2391 DARWIN NT 0821, or faxed to: (08) 8999 1073, or emailed to: recruitment@nt.gov.au. Closing day: 27 Feb 2004

[Academic Position, University of Bahrain College Of Engineering](#), Bahrain. Applications are invited for academic position to teach courses in the following Civil Engineering section Position: Faculty Member- Course to be involved with: Surveying and related disciplines, Minimum qualifications: Master Degree (or equivalent) in Surveying or related disciplines. At least 5 years of practical experience with emphasis on new, emerging technologies in the field. Knowledge and work experience in GPS, GIS, Aerial Photography and Remote Sensing Knowledge and work experience in Conventional Surveying Methods including total stations. Experience with computing and surveying software. Starting date: September 2004. Fluency in English is a must for all the applicants. Closing date for receiving the applications is March 1, 2004. The applicants are required to apply by filling out our standard [Application Form](#). The filled out forms should be mailed (or faxed) to the below address with all the documents specified therein: Recruiting & Scholarship Division, University of Bahrain, P.O. Box 32038, KINGDOM of BAHRAIN, Fax #: +973 44 96 60. IMPORTANT: A second copy of the filled out application form should be attached to an e-mail and directly sent to the Department at the following address: Dr. Despina C. Al Samahiji (Chairperson), University of Bahrain,, College of Engineering, Department of Civil & Architectural Engineering, E-mail: despo@eng.uob.bh If further information is needed, contact the Chairperson of the Department.

[Academic Position, University of Bahrain College Of Engineering](#), Bahrain. Applications are invited for academic position to teach courses in the following Civil Engineering section: Position: Faculty Member -Course to be involved with: Geotechnical Engineering, Minimum qualifications: Master Degree in Civil or Geotechnical Eng., starting date: September 2004. Fluency in English is a must for all the applicants. Closing date for receiving the applications is March 1, 2004. The applicants are required to apply by filling out our standard [Application Form](#). The filled out forms should be mailed (or faxed) to the below address with all the documents specified therein: Recruiting & Scholarship Division, University of Bahrain, P.O. Box 32038, KINGDOM of BAHRAIN, Fax #: +973 44 96 60. IMPORTANT: A second copy of the filled out application form should be attached to an e-mail and directly sent to the Department at the following address: Dr. Despina C. Al Samahiji (Chairperson), University of Bahrain,, College of Engineering, Department of Civil & Architectural Engineering, E-mail: despo@eng.uob.bh If further information is needed, please contact the Chairperson of the Department.

[Environment Advisor](#), Beijing, China
Organizational Unit: UNDP China. Vacancy no: CHI-2003-260. Duration of Assignment: 1 year with possibility of extension. Required Skills and Experience: Postgraduate degree in environmental management/policy or ecological/ environmental sciences or in another relevant field; 10 years relevant work experience in the field of development or environment with national or international organizations; Experience on working with the public sector, and development activities in the area of consulting and advocacy; Experience in programme planning, management, and evaluation; Strong written, verbal, advocacy and listening skills in English; Proven analytical and practical application skills, ability to efficiently seek for information from various sources; Ability to work successfully in a multi-cultural environment and good teamwork spirit; Good inter-personal and communication skills. Fluent reporting and writing skills, ability to meet strict deadlines. No deadline specified.

[Assistant Professor - Remote Sensing](#), University of Waterloo, Canada
The Department of Geography at the University of Waterloo invites applications for a tenure-track position in Geography at the Associate or Assistant Professor level specializing in Remote Sensing. Preference will be given to applicants who emphasize the applied aspects of remote sensing, have experience with the use of remote sensing in environmental modelling, and are knowledgeable in other areas of geomatics (GIS, spatial statistics, cartography,



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GPS). The ability to contribute to teaching and research in physical geography would be an asset. The successful candidate is expected to be a strong contributor to research and teaching at both the graduate and undergraduate levels. The [Department of Geography](#) is part of the Faculty of Environmental Studies, which consists of the School of Architecture, the Department of Environment and Resource Studies, the Department of Geography, and the School of Planning. The review of applications will commence on March 1, 2004 and continue until the position is filled. Applications should be sent to: Chair, Faculty Search Committee, Department of Geography, Faculty of Environmental Studies, University of Waterloo, Waterloo, ON, Canada N2L 3G1. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native persons, and individuals with disabilities. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. This appointment is subject to the availability of funds.

[Urban Researcher/Team Leader](#), New Zealand.

Focusing on low impact urban design and development, Landcare Research is a Crown Research Institute dedicated to high quality research relevant to sustainable use of natural resources, operating at nine locations throughout New Zealand. The institute seeks an outstanding Senior Researcher for a leading position in a new urban research and management programme. Candidates must have the vision and commitment to lead integrated multidisciplinary research that is targeted to overcome the obstacles to sustainable urban development. A commitment to the principles of the Treaty of Waitangi and EEO is required. A knowledge of Maori environmental management issues would be an advantage. This position is based in the institute's Auckland office. Applications close on Friday, 27 February 2004. Written applications (which should contain a full CV, application form and a covering letter describing how your skills and experience would benefit the position) should be sent to Carol Wallace wallacec@landcareresearch.co.nz. See [job application form](#) and [position description](#) files.

[Consultant - Technical Assistance to Draft Spatial Planning Legislation and Amend the Development Control and Building Act of Timor](#), Democratic Republic of Timor-Leste

Interested consultants may obtain additional information from: José Antonio C. Sarmento, Procurement Officer, jasarmento@mopf.gov.tp or Jorge A. Lynch, Advisor on Contract Administration, lynchj@un.org. Deadline: February 27, 2004. The Democratic Republic of Timor-Leste (RDTL) is seeking the services of a qualified Consultant to draft the Spatial Planning Legislation, thus enabling urban and regional land use planning in Timor-Leste, and to amend the Development Control and Building Act, aligning it with the Draft Spatial Planning Legislation. As contemplated in the National Development Plan (NDP), Spatial Planning will provide a mechanism for the coordinated approach necessary for land use decision-making to achieve economic growth, regional and rural development, and cross-sectoral land use development needs at national, regional, city, and local area levels. The performance period of this assignment is fifty five (55) workdays, beginning at the end of March or first week of April 2004. The Procurement Division of the Ministry of Planning and Finance now invites eligible consultants to indicate their interest in the assignment. Interested consultants are required to provide information indicating their qualifications relative to the assignment (curriculum vitae, description of similar assignments, experience under similar conditions, etc.). Expressions of Interest can be sent by email no later than 27 February 2004, at 17:00 hours Dili local time, to: Gregorio Ferreira da Silva, RDTL - Chief of Procurement Officer, GPA Building #5, 1st Floor, Room 2a, Dili, Timor-Leste, Email: gdasilva@mopf.gov.tp.

[Chair in Environmental Informatics](#), Department of Geography Lancaster Environment Centre, UK.

This is a joint venture between Lancaster University and the Natural Environment Research Council. Applications are invited for a new Chair in the field of Environmental Informatics created through expansion of the Geography Department and ongoing development of the Lancaster Environment Centre (LEC). Candidate should have an exceptional record of research at the international level, in an area fitting in with existing strengths and specialisms in environmental informatics within both the Geography Department and the LEC. Ability to provide strategic leadership in multi- and inter-disciplinary developments within the LEC is required. Informal enquiries may be made to: Head of Geography Department, Prof. Barbara Maher Email: b.maher@lancaster.ac.uk or the Director of the Lancaster Environment Centre, Prof. Bill Davies Email: w.davies@lancaster.ac.uk. Closing Date: 26th February 2004. See website for [further details](#).



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[Sub-Contractor for Eco-Tourism and Sustainable Hunting Sub-Project](#), UNDP Uzbekistan

Project Name: Establishment of the Nuratau-Kyzylkum Biosphere Reserve as a Model for Biodiversity Conservation in Uzbekistan UZB00/006 & UZB00/G35. UNDP Uzbekistan is seeking an consulting company/NGO or a consortium of organizations capable of performing services as a Sub-Contractor in respect to tourism and sustainable hunting components within the above project. To this end the Sub-contractor will be responsible for: mobilizing technically experienced and professionally capable national and international staff; effective assessment and planning of actions required to meet sub-contracts aims; efficient implementation of activities in country and within the project area itself; timely delivery of quality reports/outputs as defined in the sub-contract / inception report; effective communication and collaborative work with other project components and active involvement of stakeholders. UNDP Uzbekistan Country Office now invites sealed proposals from consulting companies/NGOs for the assignment. A complete set of RFP documents in English will be available from 09:00 to 17:00 hours (local time) and upon written request through e-mail to the project: UNDP Project UZB00/006 & UZB00/G35. "Establishment of the Nuratau-Kyzylkum Biosphere Reserve as a Model for Biodiversity" E-mail: nuratau@uzsci.net. Any request on bid clarification should be referred to the project address. Proposal must be delivered to the address below at or before 18:00 hours (local time) on March 15 2004. United Nations Development Programme, 4, Taras Shevchenko Str., Tashkent, 700029, The Republic of Uzbekistan

[Water and Sanitation Engineer](#), ACTED, Location: Tajikistan – Kurgan Tepa

ACTED is implementing rural development programs in Khatlon area, addressing several issues, including access to potable water and irrigation, social infrastructure rehabilitation, disaster mitigation interventions. The Water and Rehabilitation Department is in charge of the implementation of those components. Specific objectives of the position: As the head of the department, you will be guarantee that the overall objectives of our programs are met. As such, you will be responsible for: - supervising the technical part of the projects. , - supervising the social part of the projects. , - planning and following the work of the Department. , - following the resources and budget of the Department. , - managing and training the team (more than 30 engineers and technicians). , - guaranteeing the coordination with other departments, such as agriculture and health education. Required Qualifications: BA / MA in Engineering (civil, water, rural) Junior / Senior Professional Experience: 2-3 years min, Humanitarian Development experience Specific skills: Project management experience (management, planning, staff development and training skills) in a related field, preferably in a development context. Good skills in written and oral english Candidates with a previous experience in a post sovietic country will be favoured. Deadline: March 4, 2004. Send applications to: jobs@acted.org.

[Executive Officer](#), START, Beijing, China

The global change SysTems for Analysis, Research, and Training (START) is seeking an Executive Officer for the International Project Office for the project: Monsoon Asia Integrated Regional Studies (MAIRS). The Executive Officer will manage an international office based at the START Regional Center for Temperate East Asia located within the Institute of Atmospheric Physics of the Chinese Academy of Sciences in Beijing, China. The Executive Officer will be responsible for implementing the MAIRS project in close collaboration with the Project Steering Committee and the International START Secretariat based in Washington D.C., USA. The candidate should have a strong background in regional aspects of global environmental change, especially in the monsoon Asia region. Post-graduate qualifications (preferably a PhD) are desirable. Deadline for applications: 18 March 2004.

[Dubai Municipality vacancies](#), Dubai GIS Centre

GIS Systems Analyst

GIS Data Analyst

GIS Senior System Administrator

Contact: gis@dm.gov.ae

Research Expert – GIS and Remote Sensing, Kalimantan, Indonesia

Applicants for this 4-month mission (with a possibility of 2 additional months) must have experience applied to the monitoring and management of tropical forests. Under the supervision of the RS/GIS Advisors, in South and Central Kalimantan, this expert will provide technical assistance to develop and consolidate the existing dedicated applications such as Logging Roads Design and Fire Hot Spot Monitoring. Profile : University postgraduate degree in



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geography, remote sensing, GIS or related field. A minimum of 10 years professional experience is required in RS and GIS, of which 5 should be in GIS dedicated applications developments, including definition and implementation of integrated information systems based on GIS technology, particularly in the ArcView-GIS environment, using Avenue, Visual Basic, Delphi, C programming languages. Experience in implementation of GIS Forestry dedicated applications is necessary. Language : English, knowledge of Indonesian a distinct advantage. Date : starting in March or April 2004; Salary : 8000 - 9000 euros/month depending on experience. Send a CV with clear explanation/details about GIS/remote sensing in tropical forestry to Christian Crepeai, SCOT, christian.crepeau@scot.cnes.fr

Research Staff, Hayama, Kanagawa, Japan

The Institute for Global Environmental Strategies (IGES), a non-profit organization, seeks applicants for the positions of Research Staff to engage in the strategic research projects mentioned below. - Climate Policy Project - Forest Conservation Project - Long-term Perspective and Policy Integration Research Project - Urban Environmental Management Project - Business for Sustainable Society Project. IGES implements policy oriented and practical research ("strategic research") to develop and formulate innovative policy instruments and strategies for sustainable development, aiming at creating a new paradigm for global civilization; and to make the results of its strategic research reflected and applicable to policies of a broad range of entities so that sustainable development can be achieved globally, particularly in the Asia-Pacific Region. IGES is now recruiting research staff, to start in April 2004, who will engage in the following Phase 3(4/2004-3/2007) strategic research projects. Contact Name: Mr. Uchida, recruit-pro@iges.or.jp. Closing Date: 20 February 2004.

GIS Specialist/Staff Associate, CIESIN, Columbia University, Palisades, NY, USA

The [Center for International Earth Science Information Network](#) (CIESIN) of Columbia University is seeking a research associate with experience analyzing household survey data spatially. Candidate should have a strong interest in poverty mapping and environment-development interactions. The candidate will join a team working on global poverty mapping data set production and analysis. Master's Degree in Social Science field related to human-environment interactions and two years experience required including one year work experience carrying out spatial analysis of survey data. Experience with major statistical analysis software (for example, STATA, SPSS, SAS, S-Plus). Experience with ArcGIS also required. Significant independent judgement and initiative is required. Reading proficiency in at least one foreign language relevant to development studies (for example, Spanish, Portuguese, French, Hindi, Chinese). Send cover letter stating the exact title of this position and resume to Ms. M. Mokhtari, Manager of Human Resources, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY, 10964 or email to: personnel@admin.ldeo.columbia.edu

Information Technology: Team Leader: Community Access and Information Technology Development Expert,

Samoa. The objective of the Project is to enhance an enabling environment for poverty reduction in the rural communities of Samoa by improving the quality of education outcomes by strengthening teacher competence training/program through providing ICT connection to local schools and creation of community access facilities. This will assist the Government in increasing social inclusion and reducing poverty in the rural areas by improving connectivity and -- through it -- education, governance, health, and access to the Internet. Closing Date: 27 February 2004. Contact Luke Kiddle at lukek@pinz.co.nz.

Other

In February, the [Asia-Pacific Development Information Programme \(APDIP\)](#) launched the [International Open Source Network \(IOSN\)](#) to serve as a center of excellence on open source technologies and applications. Its objectives are to aid countries in sharing information on open source (OS), assist with the development of needed toolkits and resource materials, support "localization" efforts, and help facilitate and coordinate OS programs and initiatives through networking. The network's [Web site](#) is already operational.

Coordination Failure in Foreign Aid

Halonen-Akatwijuka analyzes the allocation of foreign aid to various sectors in a recipient developing country. Donors tend to favor social sectors over other public expenditure programs. Due to incomplete information, donors may concentrate too much on priority sectors, leaving lower-priority yet important sectors lacking funds. Alternatively there



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may be gaps in services in priority areas because of the information problem. The author finds that the more similar preferences the donors have, the more scope there is for coordination failure. Therefore improving information is particularly important when the parties have similar priorities. A joint database on planned projects and budget allocations in each recipient country would provide such information. The author's point is that such databases should have both information on current projects and forward-looking information on the planned activities needed to improve aid coordination. She also analyzes the aid fungibility problem in an incomplete information setting and finds that incomplete information reduces the fungibility problem. On the other hand, incomplete information introduces coordination failure and the allocation can be inferior for both the recipient and the donor.

Hydrological modeling discussion group

This group aims to provide a forum for discussion of scientific research in modeling of hydrologic systems including: Rainfall-Runoff Modeling, Overland Flow Modeling, Unsaturated Flow Modeling, Groundwater Flow Modeling, Solute Transport Modeling, Sea Water Intrusion Modeling, Water Quality Modeling, Other relevant aspects of Hydrology, and Water Resources Development and Management. It intends to provide a forum for technical discussions; announcement of new public domain and commercial softwares; calls for abstracts and papers; conference and workshop announcements; and summaries of research results, recent publications, and case studies. Exchange of ideas and experiences regarding use and application of hydrological softwares are also welcome.

To subscribe, send a blank email to: hydrologymodel-subscribe@yahoogroups.co.in

Conferences, Events

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

Date	Location	Event
February 2004		
NEW 23-24 February	Kota Kinabalu, Malaysia	<u>Bornean Biodiversity and Ecosystem Conservation International Conference 2004</u> This conference is organized by the Bornean Biodiversity and Ecosystems Conservation Programme and has for its main theme "Biodiversity Conservation: Now or Never." Contact: Kertijah.AbdKadir@sabah.gov.my
23-27 February	Capetown, South Africa	<u>GEO-3</u> . The ad hoc intergovernmental Group on Earth Observations (GEO) will hold its third meeting. The meeting will further the development of a 10-year plan to implement a comprehensive, coordinated, and sustained Earth observation system or set of systems.
24-25 February	Kuala Lumpur, Malaysia	<u>1st Asian Conference on Precision Agriculture</u>
27-29 February	Calcutta, India	<u>IAG Symposium on Geomorphology & Environment</u>
March 2004		
1-6 March	Calcutta, India	<u>International Workshop on Landslides</u>
NEW 2 March	Auckland, New Zealand	<u>GITA (Regional Workshop)</u> <u>GITA</u> brings together asset and infrastructure managers, users and Geospatial Information professionals from utilities, telecommunications and local government in a unique, practical forum. Explore the latest in geospatial technology; widen your network of contacts; share solutions. Email: Therese Stewart therese.stewart@gita.org.au



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<p>9 –31 March</p>	<p>Kunming, China</p>	<p><u>4th International Symposium on Mobile Mapping Technology</u> Sponsor ISPRS- Contacts: Dr. Vincent Tao, Chair, Conference Program, tao@yorku.ca, Dr. Jonathan Li, Conference Secretary, Dr. Gang Deng, Conference Secretary, iep@kmust.edu.cn, The conference committee has decided to extend the deadline for accepting the extended abstracts or full papers by January 15, 2004. Extended abstracts or full papers: Due date: January 15, 2004 Abstracts should be sent to Prof Jonathan Li, junli@ryerson.ca</p>
<p>16-19 March</p>	<p>Tandojam, Sindh, Pakistan</p>	<p><u>10th Congress of Soil Science on Management of Natural Resources for Food Security</u>, rganized by the Soil Science Society of Pakistan (SSSP). Contact: Kazi Suleman Memon at ksmemon@hyd.paknet.com.pk or Nisar Ahmad at nfdc@isb.comsats.net.pk .</p>
<p>* NEW * 17-19 March</p>	<p>Bhopal, India</p>	<p><u>International Conference on Managing Seismic Risk in Developing Countries</u>. Contact: msrdc2004@dmbipl.org</p>
<p>* NEW * 22-26 March</p>	<p>Cha-Am, Thailand</p>	<p>International Conference on Innovative Techniques in Soil Survey Contact: Mr Taweesak Vearasilp, Secretary Organising Committee, Land Development Dept. (Bangkok, Thailand), vearasilp@access.inet.co.th</p>
<p>* NEW * 23-24 March</p>	<p>Sydney, Australia</p>	<p><u>Web-Enabled GIS Strategies 2004 Conference</u></p>
<p>24-26 March</p>	<p>Antwerp, Belgium</p>	<p><u>International SPOT 4/5 - VEGETATION Users Conference</u> under the auspices of OSTC / CNES / SNSB / ASI / EC. This Conference is the second dedicated forum where users of the SPOT4/5-VEGETATION 1 and 2 data have the opportunity to present the results of their research and development efforts as well as their operational applications, and exchange experiences and expectations. Deadline for the submission of abstracts extended) to <u>February 20, 2004</u>.</p>
<p>26-29 March</p>	<p>Washington, DC, USA</p>	<p><u>GDIN2004</u>. Sixth Conference of the Global Disaster Information Network. Global Disaster Information Network (<u>GDIN</u>) is an organization that is dedicated to improving the flow of information before and during natural disasters. Conference themes include: emergency telecommunications, disaster manager needs, the UN International Strategy on Disaster Reduction, information management (including homeland security), urban search and rescue, and many more. [the GDIN Secretariat is pleased to announce that the Government of South Africa has offered to host the 7th GDIN Conference].</p>
<p>* NEW * 28 March – 1 April</p>	<p>Sydney, Australia</p>	<p><u>Enviro 04 Convention and Exhibition</u> will comprise conference streams on: sustainable industry — food and beverage supply, sustainable urban development, contaminated land management, water — planning for the future, waste — finding your place in the brave new “no-waste” world, sustainable energy — markets and programs, technologies and suppliers, projects and case studies, business of the environment — can Australia be a global sustainability superpower?, advances in odour management — towards more liveable communities</p>
<p>* NEW * 29-31 March</p>	<p>Kunming, China</p>	<p><u>4th International Symposium on Mobile Mapping Technology</u> Sponsor ISPRS The International Symposium on Mobile Mapping Technology (MMT) is the premier event being organized jointly by the ISPRS, FIG and IAG. This symposium will reflect the core spectrum of the latest developments in mobile mapping technology, ranging from the algorithm research to the system development, from land-based to airborne systems, from direct georeferencing to sensor integration from mobile data collection to dynamic GIS management</p>



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		The selected conference papers will be edited and assembled for a new book, entitled "Advancements in Mobile Mapping Technology" published by the ISPRS authorized publisher.
April 2004		
* NEW * 4-8 April	Khartoum, Sudan	United Nations/European Space Agency/Government of Sudan Regional Workshop on the Use of Space Technology for Natural Resources Management, Environmental Monitoring and Disaster Management. Organized jointly by the United Nations Office for Outer Space Affairs and the Remote Sensing Authority, National Center for Research - Sudan, co-organized together with the European Space Agency. Deadline for application is: Friday 27 February 2004.
* NEW * 15-17 April	Bruck an der Leitha, Austria	International Symposium on Spatial Data Quality- ISSDQ 2004
20-29 April	New York, USA	The Twenty-second Session of the United Nations Group of Experts on Geographical Names (UNGEGN)
* NEW * 23 – 24 April	Brisbane, Australia	Inaugural Queensland SSI Conference 2004. "Empowering business for tomorrow..." sponsored by Queensland Spatial Information Infrastructure Council (QSIIC) in association with SSI; Brisbane; Contact Pat Taylor ptaylor@isaq.com.au ; visit www.isaqlld.org.au .
* NEW * 25-28 April	Seattle, WA, USA	Geospatial Information and Technology Association (GITA XXVI) - Information, Strategy, Vision... Building Performance for a New Age
May 2004		
4-6 May	Malaysia	Asia and the Pacific regional workshop on marine cadastres as part of PCGIAP-WG3 Workplan. WG3 will host a workshop in May 2004 in Malaysia to develop both guidelines for the establishment and maintenance of marine cadastres and a Future Action Plan for the development of marine cadastres. The project also aims to review best practice, to establish networks and to evaluate the potential for ICT expertise in establishing marine cadastres. The work and activity on this component of the WG3 Workplan started since the 16th UNRCC conference in Okinawa, Japan in July 2003.
* NEW * 9-12 May	Tehran, Iran	Geomatics 83 Role of Maps and Spatial Information in Decision-Making. Hosted by National Cartographic Centre of Iran. Conference contact: geo83con@ncc.neda.net.ir , Exhibition contactL geo83exh@ncc.neda.net.ir
10-12 May	Johor, Malaysia	7th Conference on GIS and Developing Countries: GISDECO 2004 on GIS Capacity Building and Infrastructure. Proposals for papers and posters dealing with the following topics should be sent to the GISDECO Secretariat by November 30, 2003. GISDECO Secretariat: Email: b-haris@utm.my . General information on GISDECO or Details of past events please see: http://www.itc.nl/gisdeco/ or Email Richard Sliuzas, GISDECO Int'l coordinator at GISDECO@itc.nl .
* NEW * 11 - 13 May	Kuala Lumpur, Malaysia	Remote Sensing And Other Smart Farming Technologies For Precision Agriculture In Asia This Asian Conference on Precision Agriculture is the first in a series of similar conferences to be held once in two years rotation among member countries in Asia. This agreement was reached at a meeting of ACPA Promoters in Suwon, Korea in February 2003. In conjunction with this conference, an exhibition on the same theme will be held concurrently.



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* NEW * 11-14 May	Cairns, Australia	<u>Global H2O: Hilltops-2-Oceans Partnership Conference</u>
* NEW * 12-14 May	Miami Beach, FL, USA	<u>Geospatial World 2004</u> Intergraph Mapping and Geospatial Solutions and the Intergraph GeoSpatial Users Community are organizing the fourth annual GeoSpatial World, themed, "Open. Solutions. Exchange." The program for GeoSpatial World will address open technology and standards, demonstrate proven industry solutions, and provide a platform for the exchange of ideas and expertise with users from around the world.
* NEW * 22-27 May	Athens, Greece	<u>FIG 27th Working Week</u> The theme and programme covers all ten FIG Commissions (professional practice; professional education; spatial information and management; hydrography; positioning and measurement; engineering surveys; cadastre and land management; spatial planning and development; valuation and the management of real estate; and construction economics and management).
* NEW * 23-25 May	Bangalore, India	<u>India-United States Conference on Spatial Science, Applications, and Commerce</u> . Bilateral engagement on space cooperation to bring together IS and Indian scientists, policy makers, and the private sector to explore cooperation between the two countries. Contact Program Committee Co-chairs: <u>Mireille Gerard</u> ; <u>Mukund Rao</u> ; or for general information: <u>IndoUS2004@aiaa.org</u>
24-28 May	Kuala Lumpur, Malaysia	<u>18th Plenary of ISO TC 211 Geographic information/Geomatics</u> Scope of ISO TC 211: Standardization in the field of digital geographic information. It aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital/electronic form between different users, systems and locations. The work will link to appropriate standards for information technology and data where possible, and provide a framework for the development of sector-specific applications using geographic data.
* NEW * 30 May – 3 June	Amman, Jordan	<u>International Water Demand Management Conference</u> This Conference will provide a forum for regional and international experts to share concepts, research, technologies and experiences on the most efficient use of water in the domestic, industrial and agricultural sectors.
June 2004		
4-11 June	Taipei, Taiwan	<u>Conference on Applications of Statistics, Information Systems and Computers in Natural Resources Monitoring and Management. (IUFRO Group 4.11)</u> The conference will focus on the following themes: Applications of Spatial Statistics, Merging Process and Statistical Models with Heuristic Systems, Decision Support for Sustainable Forest Management, Statistical Methods in Remote Sensing, Applications of Bayesian Inference, Multi-Criteria Analysis for Modeling and Monitoring Natural Resource Management, Inferences Based on Non- and Pseudo-replicated Experiments, Computer Applications, Tropical Forest Modeling and Biodiversity Conference contact: Dr. Biing T. Guan, E-mail: <u>btguan@ccms.ntu.edu.tw</u>
		<u>GEOINFORMATICS 2004</u> Geospatial Information Research: Bridging the Pacific and Atlantic. 12th International Conference on Geoinformatics: Suggested topics include, but not limited to as long as they address issue



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7-9 June	Gävle, Sweden	related to geoinformatics: Location based services and mobile GIS, GIS and planning support systems, Spatial decision support systems, Information extraction from remote sensing data, data fusion and digital mapping, Multi-scale and multi-media representation, Spatio-temporal modeling/analysis, Geovisualization and virtual environments, Spatio-temporal databases, Geocomputational modeling Uncertainty and spatial data quality control Advances in earth observation technologies GIS in urban and environmental management, Integration of environmental modeling and GIS Remote sensing and geospatial information for transportation planning, Landscape modeling and visualization, Urban modeling and simulation, GPS in geoinformatics, Terrestrial laser scanner for 3D data acquisition.
July 2004		
12-16 July	Seoul, South Korea	International Association of Schools and Institutes of Administration (IASIA) Annual Conference "Building Leadership for Modernisation and Shared Governance". Juan Cabrera-Clerget : iasia@iasiisa.be
12-19 July	Vladivostok, Russian Federation Changchun, Peoples Rep. of China	Intercarto 10 Sustainable Development of Territories: GIS and Practical Experience. Organised by ICA, International Geographic Union etc. Contact: email yermoshin@tig.dvo.ru Deadline for abstracts: <u>15 April 2004</u> .
14-18 July	Seoul, South Korea	Twenty-sixth IIAS International Congress of Administrative Sciences Theme: E-Governance: challenges and opportunities for democracy, administration and law. The sub-topics they will deal with will include: E-Governance: effects on civil society, transparency and democracy, E-Governance: changes in administrative structures and processes, E-Governance: perspectives for countries in transition and development, E-Governance and the evolution of law
15 -17 July	Dalian, China	5th International Conference on Web-Age Information Conference scope: With advances in the Internet and, in particular, various technologies around the World-Wide Web over the past years, research on design, implementation, and management of Internet and Web-based information systems has become increasingly important. The WAIM series of conferences aim to provide a unique forum for researchers, professionals, and industrial practitioners from around the world to share their rapidly evolving knowledge and to report on new advances in Web-based information systems. Paper abstracts (soft deadline): 09 February 2004 Full papers (firm deadline): <u>16 February 2004</u> , Notification: 12 April 2004, Camera-ready papers: 10 May 2004, Contacts: Qing Li: ITQLI@cityu.edu.hk , Guoren Wang: wanggr@mail.neu.edu.cn
August 2004		
* NEW * 3-11 August	Petrozavodsk, Russia	2nd International Conference & Field Workshop on Soil Classification Information: Dr Tatiana Kharkina, soil04@biolo.krc.karelia.ru
* NEW * 9-13 August	San Diego, CA, USA	ESRI International User Conference
* NEW * 18-20 August	Beijing, China	Map Asia 2004 . Contact: info@MapAsia.org
* NEW *	Zaragoza	1st International Workshop on Geographic Information Management



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30 August – 3 September	Spain	(GIM 2004) in conjunction with DEXA 2004 and EGOV 2004. Workshop proceedings to be published by IEEE Press. The aim of GIM 2004 is to present innovative research and development contributions in the context of Geographic Information Management. GIM should inspire a fruitful dialogue between developers, users, expert scientists working in this field. Submission Deadline: <u>March 12, 2004</u> . For further inquiries, contact Michael Gould
September 2004		
* NEW * 5-9 September	Kuala Lumpur, Malasia	28th Congress of International Urban Development Association (INTA) Contacto: INTA - The World Urban Development Forum, Nassau Dillenburgerstraat 44, NL-2596 AE The Hague, The Netherlands. Tel: (31-70) 324.45.26, Fax: (31-70) 328.07.27. Email: intainfo@inta-net.org The INTA28 Congress will focus the debate between world local leaders and practitioners on the critical issues of: Social and Economic Integration of Metropolitan areas; Management of Metropolitan Growth and Sprawl; Mobility for Sustainable Development in Metropolitan Areas; Metropolitan Governance and Financing.
12-14 September	Bangkok, Thailand	Free and Open Source Software for Geoinformatics: GIS-GRASS Users Conference The conference joins GRASS developers and users worldwide to foster closer relations, and to share ideas for improving software and applications.
* NEW * 15-17 September	Agro-Montpellier, France	Global Workshop on Digital Soil Mapping The Workshop (GW-DSM) aims to discuss and further develop new rapid and economic methods for digitally mapping soil classes and attributes (and their uncertainties) particularly at resolutions of 20 metres to 500 metres. The Workshop should be of interest to all those concerned in the future of soil resource assessment. For expressions of interest, and more details, contact Philippe Lagacherie, lagacherie@ensam.inra.fr .
16-18 September	Hanoi, Vietnam	International Symposium on Geoinformation fo Spatial Infrastructure Development in Earth and Allied Sciences (GIS-IDEAS) This is follow-up to the GIS-IDEAS Symposium held in Hanoi, Vietnam in September 2002. The main theme of the GIS-IDEAS 2004 is on Geoinformatics applications (Remote Sensing, GIS, GPS etc.) for monitoring, predicting, managing and mitigation of natural disasters. The symposium will also focus on development of spatial databases and analysis of spatial data for modelling and simulation of processes related to our natural and social environment. Abstracts due by <u>April 30, 2004</u> .
* NEW * 18-22 September	Geneva, Switzerland	40th Annual Congress of International Society of City and Regional Planners (ISoCaRP). Theme: 'Management of Urban Regions'
* NEW * 27-30 September	Damascus, Syria	14th International Symposium on Remote Sensing and Development
October 2004		
* NEW * October	Bathurst, New South Wales	UN Sponsored Toponymy Course . Organised by the Education and Training section of the Asia-Pacific Institute for Toponymy, in conjunction with the New South Wales Geographical Names Board, The Department of Land Administration Western Australia and The Department of Survey and Land



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3-7 October	Jakarta, Indonesia	FIG Regional Conference for Asia and the Pacific Contact: FIG Office, email: fig@fig.net Abstracts are requested to be submitted in electronic format, if possible in MS-Word. The deadline for abstracts is <u>30 April 2004</u> . The authors will be informed by 30 May 2004 of acceptance of their paper. The deadline for full papers (not exceeding 15 pages) is <u>30 July 2004</u> .
* NEW * 13-16 October	Skycity Auckland, New Zealand	4th Trans Tasman Surveyors Conference (TTSC04) - Focus on Business "Thinking outside the triangle". Organised by the New Zealand Institute of Surveyors and the Land and Hydrographic Surveying Commission of the Spatial Sciences Institute, Australia. The conference is dedicated to enhancing the bond between Land and Hydrographic Surveyors from Australia and New Zealand by extending delegates to discover new technology and be more productive as well as to discuss common problems and interests. Deadline for abstracts: <u>April 1, 2004</u> .
* NEW * 18-21 October	Beijing, China	International Conference on Remote Sensing Archaeology .
* NEW * 18-22 October	Fremantle, Perth, Australia	12th Australasian Remote Sensing & Photogrammetry Conference
23-27 October	Singapore	Commonwealth Association for Public Administration and Management (CAPAM) 2004 Biennial Conference. Theme: Networked Government. Sub-themes: Many Agencies, One Government, Engaging Citizens, Networking Beyond Borders
* NEW * 27-29 October	Singapore	International Workshop on Population Dynamics and Infectious Disease in Asia . Contact: popnasia@nus.edu.sg . Deadline for <u>Call for Papers</u> : <u>15 May 2004</u> .
November 2004		
* NEW * 18-20 November	Pitsanulok, Thailand	WG V/6 International Workshop on "Processing & Visualization using High-Resolution Imagery"
22-26 November	Cheng Mai, Thailand	Asian Center for Research on Remote Sensing (ACRS) 2004 Contact: Dr. Suvit Vibulsresth F: +662-561-3035 Email: suvit@gistda.or.th
17-25 November	Bangkok, Thailand	3rd IUCN World Congress People and Nature – Making the Difference http://www.iucn.org
20-24November	Brisbane, Australia	The Fifth International Conference on Web Information Systems Engineering The aim of this conference is to provide an international forum for researchers, professionals, and industrial practitioners to share their knowledge in the rapidly growing area of Web technologies, methodologies and applications. Workshop proposals due by 15 March 2004. Abstract submission due by <u>7 June 2004</u> .
December 2004		
* NEW * 7-9 December	United Arab Emirates	Seventh ESRI Middle East & Africa User Conference



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* NEW * 18-22 January 2005	Kobe-Hyogo, Japan	<u>Second World Conference on Disaster Reduction</u> ISDR Secretariat, in collaboration with several partner organizations, is currently engaged in the ten-year review of disaster reduction activities since the first World Conference on Natural Disaster Reduction, which took place in Yokohama, Japan in 1994. The overall objective of the Second World Conference on Disaster Reduction is to increase the commitment for implementation of disaster risk reduction at all levels and in particular its integration into development planning processes. The review process will culminate in the Second World Conference on Disaster Reduction. Contact: Helena Molin Valdes, Senior Officer, International Strategy for Disaster Reduction, molinvalides@un.org
March (TBD) 2005	Tokyo, Japan	International Symposium on Digital Earth
* NEW * 16-21 April 2005	Cairo, Egypt	FIG Working Week, XXVIII FIG General Assembly, 8th Global Spatial Data Infrastructure Conference, ISCGM Global Map Meeting
* NEW * 9-16 July 2005	La Coruña, España	<u>XXII ICA International Cartographic Conference.</u>
* NEW * 24-29 July 2005	San Diego, CA, USA	ESRI International User Conference
* NEW * 22-26 August 2005	Cairns, Australia	<u>IAG Scientific Assembly</u>
* NEW * 17-21 October 2005	China, P. R.	<u>27th ICSU Assembly.</u> Organised by the International Council for Science (ICSU).
* NEW * 21-25 November 2005	Bandar Seri Begawan, Brunei Darussalam	8th South East Asian Surveyors Conference (SEASC). Contact: survey@brunet.bn

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