

Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter from the [Global Spatial Data Infrastructure Association \(GSDI\)](#) which is available in both English and Chinese language versions. The newsletter is produced for people interested in Spatial Data Infrastructure, GIS, remote sensing and geospatial data issues in Asia and the Pacific. It aims to raise awareness and provide useful information to strengthen SDI initiatives and support synchronising these activities across the region. Support for the newsletter is also provided by the [Permanent Committee on Geographic Information for Asia and the Pacific \(PCGIAP\)](#), a regional forum to enhance cooperation in the development of a regional geographic information infrastructure. The newsletter is currently being produced for GSDI by the [Centre for Spatial Data Infrastructures and Land Administration](#) at the University of Melbourne.



To subscribe to SDI-AP use [this link](#). Back issues of the newsletter are at the [GSDI website](#). You can also sign up for [GSDI News List](#) to receive alerts of special news and announcements as well as notification of new issues of the SDI-AP newsletter. To subscribe and access archives of thematic or regional discussion lists [please visit](#).

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## Message from the editors

Welcome to the May issue of the newsletter.

If you have news or information related to SDI, GIS, RS or spatial data that you would like to share with the community (e.g. workshop announcements, publications, reports, websites of interest etc.), kindly [send us](#) the materials by the 25<sup>th</sup> of the each month for your contribution to be included in the next newsletter.

Malcolm Park and Serryn Eagleson ([Editors](#)), at the [Centre for Spatial Data Infrastructures and Land Administration](#), The University of Melbourne.

## Contributions

Thank you to the following people and organisations for their contributions to this issue:  
Kate Lance, and Baek Wonkug for news feeds, Jeremy Shen and Bruce Lan and colleagues for the Chinese translation as well as Shivani Lal, *GIS Development*, *GeoSpatial World* and *Asia Surveying & Mapping* magazine for directly contributing to the newsletter.

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## GSDI News

### [GIM International Interviews Abbas Rajabifard](#)

The Global Spatial Data Infrastructure Association (GSDI) promotes international cooperation and collaboration in support of local, national and international spatial data infrastructure (SDI) developments that will allow nations to better address social, economic and environmental issues of pressing importance. Current president of the GSDI is Associate Professor Abbas Rajabifard, director of the Centre for SDIs and Land Administration at the Department of Infrastructure Engineering at the University of Melbourne. His research interests include planning, management and implementation of spatial data infrastructures (including marine and seamless SDI), spatially-enabled government and society, SDI and concepts of virtual jurisdictions, SDI and enabling platforms, and SDI capacity building. GIM International spoke to him about the trends and challenges in SDI

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## SDI News, Links, Papers, Presentations

### [National Spatial Data Infrastructure Take Root in Asia](#)

National Spatial Data Infrastructures (NSDI) continue to expand and grow across Asia. This article provides a brief discussion of countries now immersed in raising geospatial awareness, developing spatially enabled economy's and supporting their government efforts with enriched content aligned with citizen and business interests.

Source: Asia Surveying Mapping Magazine

### [The third episode of the Geospatial Revolution Project has been released](#)

The latest episode focuses on geospatial intelligence and crime analysis. The first segment entitled "Mapping the Road to Peace" looks at the use of PowerScene to create a peaceful division of former Yugoslavia that would be acceptable to Croats, Bosnians and Serbs. The software was used to delineate Muslim-Croat territory and Serb territory. PowerScene was also used to solve the tricky problem of developing a corridor to connect the muslim enclave of Goradze with the rest of by the Muslim-Croat territory. By combining satellite images, aerial photographs, maps, topographical data with flyover capabilities, PowerScene was used to convince Milan Milosevic to accept the delineated corridor. The second segment looks at the use of geospatial technology in modern warfare, looking not just at spatial analysis in combat but also the humane geography uses of the military. The third segment focuses on crime analysis including hot spot analysis and parolee GPS tracking. The fourth and final segment takes an alarmist look at the use of geospatial technology to illicitly track individuals and reminds individuals to be aware of those dangers.

**Fourth episode due for release on May 3.**

Source: GIS Lounge [Thanks to Wonkug Baek for this item]

### [The emergence of spatial cyberinfrastructure](#)

Abstract: Cyberinfrastructure integrates advanced computer, information, and communication technologies to empower computation-based and data-driven scientific practice and improve the synthesis and analysis of scientific data in a collaborative and shared fashion. As such, it now represents a paradigm shift in scientific research that has facilitated easy access to computational utilities and streamlined collaboration across distance and disciplines, thereby enabling scientific breakthroughs to be reached more quickly and efficiently. Spatial **cyberinfrastructure** seeks to resolve longstanding complex problems of handling and analyzing massive and heterogeneous spatial datasets as well as the necessity and benefits of sharing spatial data flexibly and securely. This article provides an overview and potential future directions of spatial cyberinfrastructure.

Source: [Geodata Policy](#)

### [Philippines Launches Regional GIS Centre](#)

The National Economic Development Authority of the Philippines has just recently launched its Regional Geographic Information Systems Centre in the Caraga Region which aims to encourage sharing of spatial information among government, private, and academic institutions in the region.

Source: [Asia Pacific Future Gov](#)



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### [Spatial Data - Key to Landscape Modeling](#)

The ability to analyze, model and simulate natural disaster events and their consequences is unique to the geospatial and geomatics sector. No other tools provide data management, analysis and the associated visual output, useful for decision-making purposes as spatial data tools do. Surveying data, remote sensing (RS), geographic information systems (GIS) and computer-aided design (CAD) are at the forefront in developing risk analysis and impact assessment capabilities.

Source: Asian Surveying & Mapping

### [Bahrain Spatial Data Infrastructure](#)

The National Spatial Data Infrastructure (NSDI) for Bahrain was officially implemented in February 2005 by the GIS Directorate of the Central Informatics Organisation (CIO), Kingdom of Bahrain. This was in compliance with a Government decree, in accordance with which the Bahrain Spatial Data Infrastructure (BSDI) Portal serves both public and private sectors, academic institutions, and the Kingdom of Bahrain.

Source: GIM International

### [A geo-spatial approach to urban development](#)

According to this article there has been a general tendency of non 'geo-spatial' approach to urban planning in India, be it at the National or at the lowest level of hierarchy. No concentrated attempts are in place to plan or recommend an urban settlement pattern in the country, spatially. Urban development, by Constitution, is a state subject. As a result, planning for metropolitan cities and their regions also remains a 'local' initiative, though having national ramifications. Absence of a Ministry of Regional (Planning and) Development further contributes to a 'non geo-spatial' vision at the National level.

Source: [Coordinates](#)

### [Thailand to launch NSDI portal by 2012](#)

The Thai government has laid down plans to launch the country's National Spatial Data Infrastructure (NSDI) portal by 2012 which will serve as the national gateway for spatial information and pave the way towards "Spatially Enabling" Thailand.

Dr. Chaowalit Silapathong, Director of the Geo-Informatics office at the Geo-Informatics and Space Technology Development Agency (GISTDA), told FutureGov Asia Pacific that upon the project's inception, the portal will act as a repository of metadata generated by data producers which will gradually provide services such as access to metadata of the Fundamental Geographic Data Set (FGDS) and well as other spatial data in the country. "Eventually, and when it is fully operational, the "ThaiSDI" (<[http://thaisdi.gistda.or.th/index\\_en.asp](http://thaisdi.gistda.or.th/index_en.asp)>) will be fully networking with distributed portal nodes operated by collaborative efforts of cooperating public and private agencies to accommodate the sharing of geospatial information over this enabling portal or internet platform" he added.

Thanks to Kate Lance for this item

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## SDI Spotlight

This month's "Spotlight" feature is from Maryam Saydi, a PhD candidate at the University of Melbourne who is investigating a regime for measuring the sustainability of a modern city. While her research is based upon Melbourne as the city for her case study she proposes that the results of her research should be applicable to any city.

### **Assessing and Mapping the sustainability of a modern city**

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In the next one hundred years, cities will rapidly grow in size and complexity as more people leave rural areas to live in the cities adding to normal urban growth. The effects of climate change on the urban environment also add complexity to urbanization with rapid population growth and urban sprawl. This increases the needs for supporting urban infrastructure, energy supply, transportation, water, sanitation, social services as well as reducing pollution generation. Community expectations are to live in a 'healthy' urban environment and to ensure that the urban environment remains sustainable for our next generations. Just as medical practitioners conduct diagnostic tests (to measure blood pressure or blood sugar etc.) to assess their patients' health, urban planners need to assess the health of an urban environment by measuring and assessing future impacts both of

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and on the urban environment. This is a key policy instrument for decision makers to make sure whether environmental, social and economic urban sustainability bottom-lines are balanced or not.

To ensure a city works well, urban planners should select and apply sustainability indicators carefully and appropriately. Indicators help in assessing the performance of urban development with different sustainability levels as well as improving community awareness of urban environment problems by visualizing, simplifying and quantifying urban environment complexities. Taking into account the inter-linkage between different urban environment disciplines, indicators facilitates urban sustainability monitoring by analyzing urban trends and estimating urban resource consumption and waste generation.



Studies on urban environment issues show that a variety of urban environment indicators such as energy consumption, water usage, and pollution production are necessary to assess the future of cities. Although these urban environment indicators are not independent from each other, they are typically considered separately. This contributes to the failure to appreciate the connections and interactions between indicators necessary to properly and fully assess urban sustainability. For example, a business area could be considered as an unsustainable area according to the energy usage indicator because the area is well lit to attract people and to provide security.

However, the same area could be seen as a sustainable area according to the water usage indicator. These different issues confuse urban environment sustainability assessment. Thus it is important to seek an integration of the many interconnected urban environment indicators such as energy and water consumption or waste production. Integrated indicators bring the assessment of the sustainability of an urban environment closer to the real world. This would assist urban planners to make better decisions.

Research to enhance our understanding of the sustainability of urban environmental issues requires the collection and integration of spatial and non-spatial data on the critical measures of economic, social, natural, and physical activities. Devising an integrated spatial indicator, helping to show the distribution of sustainability in urban areas now as well as estimating the future burden on the urban environment for any changes in land use, population or structural development is required. Providing technical solutions for better spatial data management is now recognized by government and local authority managers as an essential aid to informed decision-making and designing of spatial models for the urban inhabitants.

As with all the world's cities, Australian cities are also of great concern. The population of Melbourne (currently 3.8 million) is projected to grow by 1.2 million over the next 20 years and by 3 million over the next 50 years. Building and managing such a city in a sustainable fashion poses a significant challenge. Further complicating future forecasting is climate change. By the year 2030, Melbourne could experience an increase in temperatures over 35°C for longer periods of time: currently 9 days per year but expected to increase to 11-13 days. So, where does Melbourne go next? How can the problems of such a growing city be dealt with into the future?

My research reviews three urban environmental indicators: energy, water and waste. Based on these indicators, an integrated spatial model will map the current sustainability status of an Australian city, Melbourne being the subject of my case study, suburb by suburb or block by block, assessing the distinct roles of parklands, residential, commercial and industrial areas and the potential differences within urban land use types which come from differences in vegetation, population densities, and the sustainability measures which are part of contemporary planning, design and building methods. Using this base, it should be possible to forecast future urban sustainability levels under a range of potential urban population or growth model development scenarios. The results will be projected on a visual platform.

However, many challenges are evident in developing a Melbourne sustainability platform. These include spatial and non-spatial data availability, compatibility between different data sources and the various geographical scales, and issues of access to data. The diversity of approaches to urban sustainability modeling is another challenge that makes an integrated spatial model, combining different environment indicators, problematic. My

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present research seeks to present an overview of the opportunities and difficulties in designing an integrated spatial model for a sustainable city. I hope to overcome at least some of these difficulties, and realize the opportunities, through purposeful data collection and statistical modeling.

The editors remind our subscribers and readers that we welcome contributions for the *Spotlight* feature.

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### GIS Tools, Software, Data

#### **[Emergency Mapping Team supplies resources for Japan Disaster](#)**

ESRI announced that more than a dozen organizations have come together to provide mapping support for the Japan earthquake and tsunami disaster. The group, known as the [Emergency Mapping Team \(EMT\)](#), is supplying [maps and web services](#) that are being used to make better decisions for relief and recovery efforts related to the recent Tohoku, Japan, earthquake and resultant tsunami. EMT-produced maps are enhanced with information generated by disaster management experts that helps supply updated status reports on the overall situation. According to the announcement, EMT maps and services give people information on shelters, highway and traffic conditions, infrastructure, and more. For example, EMT-produced resources have been used by the Japanese government to understand conditions on the ground, develop a list of recovery and relief priorities, and deploy personnel and equipment. These resources are available online as both static maps and dynamic map services available for mashup capability. As new maps and services are created, they are made available online at the [EMT website](#).

Source: Esri.com [Thanks to Wonkug Baek for this item]

#### **[GIS is a mission critical application](#)**

GIS has become a mission critical application for many government departments, according to Dr. Kadir Bin Taib, Director General at the Department of Survey and Mapping in Malaysia. In an interview with [FutureGov](#), Dr. Taib agreed that GIS has the capacity to transform decision making within the government by way of using it to enhance and streamline business processes, and ensure precious resources are used wisely.

...

“At the national level, spatial information is crucial not only for national security, but even for the socio-economic development of the nation. For example, detailed utilities mapping will not only provide service providers with a tool to manage utilities but will also be an important tool as a location-based service in time of emergencies” he said.

Government agencies need proper asset management for the effective streamline of services such as utilities, telecommunications, and healthcare, and this can be satisfactorily handled by using geospatial information system and integrating it in government decision making.

Source: Geospatial World Weekly

#### **[Chinese city tracks officials through GPS-enabled phones](#)**

The local government of a major Chinese city, Chongqing, is now tracking down the whereabouts of its officials using GPS-enabled phones. Chongqing is a major city in southwest China. It is one of China's four direct-controlled municipalities - the other three being Beijing, Shanghai and Tianjin. Each government official has been provided with a GPS enabled 3G mobile phone to ascertain his location. Officials are required to keep the phone 24 hours a day and report their location whenever they are contacted. If their report differs from the GPS reading, disciplinary action is taken against them. The system has also come under criticism from the community. Lin Zhe, a law professor, said that while strengthening the inspection of officials outside working hours was necessary, tailing them with a GPS-equipped phone was the worst way of doing it.

Source: [NDTV](#) [Thanks to Wonkug Baek for this item]

#### **[The Australian Government has released to the mining and exploration industry new pre-competitive data collected from the most extensive single survey of its kind in Australia.](#)**

The survey commenced in May 2010, and collected pre-competitive airborne electromagnetic (AEM) data over 32,300 line-kilometres covering 95,450 square kilometres in South Australia's outback

The area covers almost ten percent of South Australia's total area - that's around half the size of Victoria - from the Frome Embayment to the northern Murray Basin, east and north of the Flinders Ranges in South Australia.

Source: Geoscience Australia

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### **Abu Dhabi launches GIS portal**

The Municipality of Abu Dhabi City has launched the initial phase of "Makani" service to serve as a Geographical Information Systems (GIS) Portal and a focal point of information and spatial data-related assets. The Portal is set to provide easy access to a vital pool of information that helps cut short transactions processing time and cost besides eliminating any overlapping or duplication of processes. It also supports taking informed decisions in a speedy & dynamic manner using latest technological systems in a process that echoes the Municipality's Mission of delivering top quality, effective and customer-centric services.

Source: [Municipality of Abu Dhabi City](#) [Thanks to Wonkug Baek for this item]

### **Protection for Koala Goes Online**

An innovative new online mapping portal that will mobilise communities to help protect koalas and their habitats was launched today by Esri Australia and the Australia Koala Foundation (AKF). The AKF's KoalaMap lets visitors be part of efforts to protect Australia's cutest national treasure by providing the ability to add to research on koala sightings and habitat quality into easy to navigate maps of their local areas.

Source: Asian Surveying and Mapping Magazine



### **Philippine unveils 3-D mapping project**

President Benigno Aquino III of Philippines announced on April 8 that the Government allocated PHP (Philippine Currency) 1 billion for three-dimensional mapping of the entire country. It is designed to minimise damage during natural disasters. The President said, "One of our proposals is the development of a comprehensive 3-D mapping of the whole Philippines. We will release P1 billion for this. With this mapping, our perspective of every corner of the country will widen, resulting in an improved capability to know which areas are vulnerable to floods."

Source: [newsinfo.inquirer.net](#) [Thanks to Wonkug Baek for this item]

See also [Philippines President Commits to 3D Map to Combat Natural Disasters](#) (Asian Surveying & Mapping)

### **US EPA released new Metadata Editor**

U.S. Environmental Protection Agency (EPA) announced the release of the newest version of its EPA Metadata Editor (EME) at <http://geogateway.epa.gov/EME/>. The EME is a simple geospatial metadata editor that allows users to create and edit records that meet the EPA Geospatial Metadata Technical Specification and Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM) requirements. This newest version (EME 3.1) runs in ArcGIS 10. It can be used as an ArcGIS extension or as a standalone tool and provides ArcGIS 10 users with FGDC synchronization capabilities.

Source: [www.epa.gov](#) [Thanks to Wonkug Baek for this item]

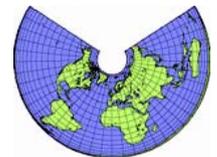
### **Web Mapping to rebuild Queensland after Floods and Cyclone**

The Queensland Reconstruction Authority (QRA) has prepared maps of the destruction caused by the floods in Queensland and Cyclone Yasi using aerial images from across the state, accompanied by ground level images.

Source: GEO: International

### **Datums, Projections and Measurement with Earthquakes** by Jeff Thurston (Asian Surveying & Mapping)

The average person working with geospatial data knows about or has heard about datums and projections. Most others have not. Try putting a Canadian datum and coordinate system (NAD83) into your field GNSS Receiver in Singapore (SVY-21) - and see what happens.



### **US Geospatial Platform Roadmap Version 4 released**

U.S. Federal Geographic Data Committee (FGDC) has completed the Geospatial Platform Roadmap Version 4 and posted at: <http://www.geoplatform.gov/Geospatial%20Platform%20Roadmap%20v4%20Final.pdf>. The Geospatial Platform, an initiative based in the Fiscal Year (FY) 2011 Presidential Budget, with the goal of "ultimately increasing access to geospatial data," is designed to become a component of the National Spatial Data Infrastructure. The contents of the Roadmap v4 describe the vision for the Geospatial Platform and its offering of data, services, applications, and infrastructure. Concepts and approaches put forth in the Roadmap will be further clarified and refined by supplemental documents that may include implementation plans, business

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plans, technical documents, project plans, and best practice examples. This final version of the Roadmap follows a stakeholder engagement process intended to share the vision for the Platform and gather feedback from the geospatial community regarding concepts discussed in the Roadmap.

Source: [www.fgdc.gov](http://www.fgdc.gov) [Thanks to Wonkug Baek for this item]

### **New final version of gvSIG available: gvSIG 1.11**

A new final version of gvSIG Desktop has been released: gvSIG Desktop 1.11.

It's available at the [Downloads](#) section of the gvSIG website.

The main new features of gvSIG 1.11 are:

- New features sponsored by Landeshauptstadt München, Referat für Gesundheit und Umwelt.
- [Copy/paste geometries between layers](#).
- [Lateral buffer](#).
- [Split line in equidistant sections](#).
- [Add consecutive numbers to attribute tables](#).
- [Find duplicates records in attribute tables](#).
- Add-ons installer (beta).
- [NavTable new version](#).
- gvSIG user manual included (available in the help menu).
- [Bugfixes contributed by the developers community](#).

The [improvements](#) from the previous version, known problems, and other notes are available.

### **Cloud-Based Mapping Tools Emerge to Appeal to Enterprise Users**

The move to cloud-hosted Geographic Information Systems seems to be on in full force following announcements made at last week's Where 2.0 Conference, hosted by O'Reilly Media. The event saw the debut of Google Earth Builder from Google, a new geospatial data hosting service, as well as an announcement from Esri that they will be offering hosting services via ArcGIS Online for a new paradigm of 'living maps'.

Source: Asian Surveying & Mapping

### **How Do Geophysical Data and Geographic Information Systems (GIS) Relate to Each Other?**

Geophysical data and geographic information systems (GIS) are tightly connected to each other. Data arising through geophysical endeavors involves earth science, mining, archaeology, seismic, hydrological, energy exploration, geology, marine and engineering. Many different kinds of sensors can be used to capture this kind of data. That information supports the development of 2D, 3D and 4D techniques related to spatial analysis, visualization and display. A large amount of geophysical work today is related to understanding earth processes relating to earthquakes, volcanoes and flooding - all involving geological and ground survey information.

Source: Vector 1 media

### **Knowing What You Are Building Before You Build It**

Building Information Management (BIM) is a process. It's not really software. It's really a process that lets you explore a project from its physical perspective and characteristics, as well as its functional characteristics; and be able to do that digitally before 'the something' is built.

Source: [PubSector.com](http://PubSector.com) and [V1 Magazine](http://V1 Magazine)

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## News from abroad

*"This section has been included to highlight some of the developments happening outside the region which demonstrate SDI in action.*

### **UC Berkeley launched Transportation Injury Mapping System**

Transportation researchers at University of California, Berkeley U.S. on April 6 launched a powerful new internet tool for sorting through and mapping all of California's fatal and serious traffic collisions. Anyone can register for a free account to access the Transportation Injury Mapping System (TIMS), which has mapped 130,000 fatal and serious crashes in the state from 2000-2008 by county, city, neighborhood and traveling routes. The database will be updated with the past three years as soon as the data becomes available. "This tool is meant

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to provide professionals and the general public with data to identify traffic safety problems and potential solutions," said John Bigham, the lead researcher for TIMS.

The site can be found at <http://tims.berkeley.edu>.

Source: [UC Berkeley](#) [Thanks to Wonkug Baek for this item]

### [The Open Geospatial Consortium \(OGC®\) and Special Interest Group \(SIG\) 3D](#)

(<http://www.sig3d.org/index.php?catid=5&themaId=7613525&language=en>) recently signed a memorandum of understanding (MOU) to cooperate in standards development and promotion of standards for the exchange and visualization of 3D geospatial content using Web-based technologies.

Source: einnews

### [Best Practices for Local government geospatial programs](#)

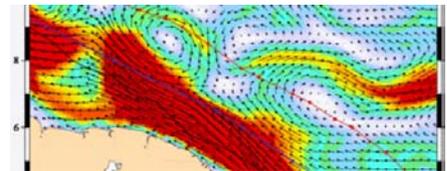
The U.S. [National Geospatial Advisory Committee \(NGAC\)](#) published a simple [Best Practices paper](#) for Local government geospatial programs. The paper will allow city and county governments to quickly assess their geospatial programs. CIOs and GIS managers can use this to explain that they are doing a good job and should keep their funding or that they have improvements to make and need more resources. For local governments that haven't yet figured out why they need a geospatial program, there is also a [flyer](#) that lists many of the ways that local governments use geospatial technology to save money and provide better service.

Source: [www.fgdc.gov/ngac](http://www.fgdc.gov/ngac) [Thanks to Wonkug Baek for this item]

### [Routing Ships Based on Waves and Weather](#)

A significant amount of research is conducted with a view to routing ships more efficiently. In some cases this includes scheduling or path selection, in others it can mean monitoring the ocean, including wave topography and the development of suitable models. DORIS is a satellite sensor that is based upon making such measurements using Doppler techniques.

Source: Vector 1 media



### [Mapping the History of Ordnance Survey's Trig Point](#)

A handful of fans visited Northamptonshire to mark the 75th anniversary of the Ordnance Survey's first trig pillar, the triangular post used by surveyors, near Cold Ashby.

More than 11,000 were built across the country and by measuring angles and using trigonometry, surveyors could calculate distances between the pillars. It resulted in maps accurate to just a few metres.

Sources: [BBC News](#) and Vector 1 media

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## Articles

### [Metadata, The Freedom of Information Act, and Government Hypocrisy](#) by Ben Kerschberg

Until recently, no federal court had considered the important issue of whether metadata is part of a public record and must thus be preserved by the federal government when responding to requests for information filed under the Freedom of Information Act ("FOIA"). FOIA (effective 1967) requires federal agencies to make records and documents publicly available unless they fall within one of several statutory exemptions, none of which is at issue here. FOIA further requires that the government provide requested records in any form or format requested by the person if the document is readily available in that form or format.

Source Forbes magazine blog

[Kaid Benfield](#) is the director of the Sustainable Communities and Smart Growth program at the Natural Resources Defense Council, co-founder of the LEED for Neighborhood Development rating system, and co-founder of Smart Growth America & writes a blog for the *Atlantic Monthly* magazine.

Some of his recent postings are:

[What does a sustainable community actually look like](#)

[How history killed the suburb](#)

[Sustainable cities: what makes an urban area successful](#)

[The better way to know if a building is green](#)

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### [Measurement to Modeling - Hydrological and Meteorological Monitoring](#) by Jeff Thurston (Asian Surveying & Mapping)

Water is important to all living systems and the management of this valuable resource is becoming increasingly important. In addition, boundary layer measurements obtained through meteorological observation provide an integral connection to the hydrologic cycle. The range of geospatial and geomatic technologies used in this work is wide ranging and includes data loggers, dam management tools, water level recording, flood forecasting, flowmeters, topographic measurement, vegetation analysis tools and location technologies. The collection and integration of this data improves the potential for sustainable water management and enables simulation and modeling.

### [Online Imagery Continues to Improve](#) by Matt Ball (Asian Surveying & Mapping)

Aerial digital cameras and satellite imagery sensors continue to improve their resolution, with more frequent visits, and increasingly these inputs are becoming available online, and as base layers for mapping mashups. The improvements that the ever-increasing imagery layers have on mapping is profound, with the ability to greatly increase the currency and accuracy of our maps, as well as to track change over time

### [The Case for Real Estate GIS in China](#) by Yao Yongling and Li Yao

In order to accommodate the growth in housing and adapt to the increasingly complex ownership register situation, the Yancheng government officially proposed building a real estate GIS at the end of 2008, and completed construction of the system in November 2010. This system involves 420 square kilometers of land, 14 million residents and 26 million data records.

Source: Directions Magazine

### [The World of Geographically Referenced Information is Facing a Paradigm Shift](#) by Erik Kjems

One of the biggest issues or discussion subject within the whole geographic information domain at the moment is the ever-changing demands for handling information in a better and more efficient way. The domain is expanding in all kinds of directions. What remains is geo-referenced information handled with a computer. We are seeing applications and demonstrators showing off in 3D and the wonderful things one can experience here. We are seeing an ever-growing number of applications that handle online information for example traffic or flight control.

Source: Vector 1 media

### [How Do Sustainable Design and Geospatial Technologies Relate To Each Other?](#) by Jeff Thurston

The principles of sustainable design can be traced to the growing awareness about the world from an environmental perspective. Biology, ecology, earth processes and human geography all entered into the design sphere. While many architects and design professionals connected with the design in terms of the landscape, the notion of sustainable design was strongly oriented toward the underlying processes that led toward sustainability. Accordingly, geospatial are not of design, they are for design - acting primarily at the process level across lifecycles.

Source: Vector 1 media

### [What Lies Beneath](#) by Joseph D. Fenicle PS – Part I of a 2 part series

The references that accompany a land corner are not much different than a list of references when you fill out a job application--they deem the corner valid and ascertain its position. These references include the shiny tags set in power poles, the chiseled crosses in headwalls and the modern concrete monuments. Equally important as the references or accessories to a monument (now called connections in the 2009 Manual of Surveying Instructions) are the memorials that go with it. These are the broken pieces of brick or charcoal (sometimes even glass) that surround the corner monument.

Source: Point of Beginning

### [The South African measurement system and its origin](#) by Tomasz Zakiewicz

The history of the South African measurement system is, without doubt, somewhat confusing, as is the relationship between old South African units of length, English measure, and the legal and international metre. The English and metric systems have influenced the establishment of the "commercial" Cape units, and, also, of the unit of the Geodetic Survey of South Africa.

Source: Position IT

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### [Using old photographs in Boundary Research](#) by Kenneth T Mills

A number of months ago I began a personal search for the two meridian monuments set in Marshall, North Carolina in 1898 by the U. S. Coast and Geodetic Survey. The monuments were used by local land surveyors to test their surveying compass on a true North-South line. Additional research on the North Carolina Geodetic Survey website showed three additional meridian monuments were set on the Island in the French Broad River in Marshall. One was placed in 1912, then another one in 1923 and the last one in 1928. These three monuments were single monuments with bearing to visible buildings the surveyors could use to check their compass. All five of these have been removed or buried due to grading and construction.

...

I studied photography for more than 20 years and had a part time photography business for most of that time, which gave me considerable knowledge of how and where pictures are taken. Also, earlier in my land surveying career I studied aerial photographs and how to measure objects seen in the pictures. So using my knowledge of photographs and the same forensic procedures I use during the land surveys I work on, I've been able to locate approximately where these two monuments were placed.

Source: The American Surveyor

### [Using Google Earth](#) by Kenneth T Mills

I'm sure many surveyors like myself have downloaded and played with Google Earth. I have virtual map pins stuck in places where I've lived and worked, and pins placed at Air Force bases where I was stationed in the United States, Europe and North Africa. There are pins in the area around Asheville, North Carolina where I now live and a bunch in and around Wilson where I grew up—like the first house my folks rented in Wilson more than 50 years ago, which is still standing. With streets that have photo bubbles, I can pop in and see what the area looks like today.

Source: The American Surveyor

### [Knowing your Limitations](#) by Stephen Clancy

Any time a new technology - whether hardware or software makes its way onto the market and into our tool box, we are always quick to determine what it does and how it works. We take our new shiny toy around and show it to our clients and tell them all the great things that it does – how it will save them money, help them do something great or change the game. Equally (if not even more so) important, we should also know the limitations of our tools – a common mis-step.

By knowing the limitations we don't oversell/misrepresent our new toys' capabilities, or mislead our customer. In the case of Mobile LiDAR we can mitigate system limitations by effective augmentation of the collection methodology, or by supplementing collections with traditional surveying (or other means) to meet project requirements or expectations. Clients will respect us more when we are truthful about what we can, and cannot deliver.

Source: LiDar News

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## Books and Journals (including Videos and Web publications)

### [John Speed proof maps - Atlas.2.61.1](#) – AVAILABLE ONLINE

Cambridge University Library has one of five known sets of proof maps prepared for John Speed's Theatre of the Empire of Great Britaine, which was published in 1611/12.

The maps were printed from copper plates which had been engraved, in reverse, by Jodocus Hondius in his workshop in Amsterdam. Maps printed from the plates - proofs - would have been sent back to England for checking.

The maps in Cambridge University Library's set of proofs are in a late state of preparation, but many were altered before being published. The map of Cheshire, which had been produced as early as 1603 by English engraver William Rogers, was completely replaced following the death of Rogers in 1604.

Source: Cambridge University Library



### [LiDAR News, Vol 1, No 5](#)

### [SERVIR-Africa community news - entries posted in March 2011](#)

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### [The third episode of the Geospatial Revolution Project has been released](#)

**Fourth episode due for release on May 3.**

Source: GIS Lounge [Thanks to Wonkug Baek for this item]

### [Audio slideshow: Mapping Africa](#)

Source: BBC News World and [V1 Magazine](#)

### [The American Surveyor newsletter](#) (2 March) and [30 March](#)

### [GISuser - GIS and Geospatial Technology News](#)

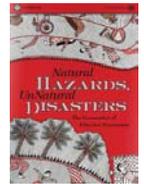
[Think Quarterly](#) – Google’s new on-line magazine

### [World Bank-UN Report on Natural Disasters](#)

Earthquakes, droughts, floods, and storms are natural hazards, but unnatural disasters are the deaths and damages that result from human acts of omission and commission. Every disaster is unique, but each exposes actions by individuals and governments at different levels that, had they been different, would have resulted in fewer deaths and less damage. Prevention is possible, and this book examines what it takes to do this cost-effectively.

The Report is available from <http://www.gfdr.org/gfdr/node/281>

- OR - <http://issuu.com/world.bank.publications/docs/9780821380505>



### [The Atlas of SOUTH AUSTRALIA](#)

The Atlas of South Australia is an initiative of the South Australian Government to provide a common access point to maps and geographic information about South Australia in an interactive atlas format. The Atlas has been sponsored by GSEC which is made up of representatives across government. GSEC nominated Planning SA as the lead agency in this initiative in the early stages of its development.

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## Just for Fun!

### [The Kayak Surveyor](#) by Fernando Biascochea

Hydrographic surveying in shallow water requires a unique approach.

Surveyors at RLDA Surveying & Mapping are experienced at working in deep water.

Established in 1954 in the Commonwealth of Puerto Rico, the firm has successfully

completed thousands of projects for clients in both the private and public sector, and hydrographic surveys are a mainstay of its business. But when an engineering and architectural firm contracted the company in 2010 to perform pre- and post-construction hydrographic surveys for a new maritime police pier, RLDA surveyors encountered a new challenge. Would their traditional methods work in shallow water?

Renán López de Azúa, PLS, president and owner of RLDA, knew the answer.

“Conventional survey vessels, usually 20 to 30 feet long, are not an option in small rivers, creeks and lagoons,” he says. “To provide our clients with the most reliable hydrographic data in extremely shallow and soft-bottom water, we recognized that we needed to enhance our traditional surveying platform.”

Led by de Azúa, RLDA’s surveying team modified a kayak to handle data acquisition in water as shallow as 1 foot deep. The resulting vessel has proven useful far beyond the initial police pier project.

Source: Point of Beginning



### [Arctic Sundial](#)

How do you make a clock that has a four-foot dial, a seven-foot hour hand, no moving parts and is solar powered? Make it a heliochronometer and it'll tell time all year long except on cloudy days and at night. But will a sundial work near the Arctic Circle in the winter? That was my project goal in 1992, but it took me until winter solstice 2010 to actually call it finished. Why so long? From inception to the moment when 300 pounds of steel, aluminum and bronze finally synchronized to tell the time of day in Fairbanks, Alaska, here is the story.

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Source: The American Surveyor

**QUESTION from the editors:** How do you read an arctic sundial in the middle of an arctic winter?



### [San Diego Zoo puts tracking devices on tortoises](#)

Thirty-six tortoises meandering in the arid desert landscape outside Las Vegas are never really alone, thanks to small radio transmitters and GPS devices attached to their green and brown shells.

The San Diego Zoo placed the tortoises in the wild Wednesday after they were nurtured at the Desert Tortoise Conservation Center, a partnership between the zoo and federal and state agencies. This is the first time a high-tech tracking device has been affixed to the exoskeletal creatures to monitor their movements.

Source: SignOnSanDiego News and [V1 Magazine](#)

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## Training Opportunities

### [Summer School “Advanced Spatial Data Infrastructures”, Leuven, Belgium](#)

This event will take at the Irish College in Leuven between 8 and 15 July 2011, and is organised by the University of Melbourne (Australia), Leuven University and Brussels University (both Belgium), and supported by Global Spatial Data Infrastructure (GSDI) Association. The key objective of this Summer School is to enhance the knowledge about the current developments in the field of spatial data infrastructures.

### [gvSIG Training platform opens with a first course for gvSIG users](#)

The gvSIG Association tries to increase its learning offer through online courses, publishing a new learning platform: gvSIG Training. In parallel, the gvSIG Association launches its official certification program.

It's a step forward in the training processes in free geomatic, creating an online training centre, that contributes to the spreading as well as to the sustainability of the gvSIG project. Training without geographic barriers, and with the best professionals.

In this platform, you will find courses in several languages to learn to use the different applications of the gvSIG project, in a user level as well as in a developer one. The courses list will be extended gradually with different gvSIG and free geomatic specialization courses (databases, map servers...), with the objective of covering the different needs of the Community.

The courses offered by gvSIG Training are part of the training routes that are required to obtain the gvSIG official certification.

For further information:

- gvSIG Training: <http://gvSIG-training.com/>

- gvSIG Certifications: <http://www.gvsig.com/services/certification>

### **GIS Courses by Distance Education**

#### **NSW Riverina Tafe**

The courses listed below are all full Geographic Information Systems courses which can be studied over a number of semesters by distance study pathways.

[Certificate III in Spatial Information Services \(GIS\)](#)

[Certificate IV in Spatial Information Services \(GIS\)](#)

[Diploma of Spatial Information Services \(GIS\)](#)

Source: [NSW River](#)

### [Participatory Spatial Information Management and Communication Training Kit now available on-line](#)

Co-published by CTA and IFAD in English and Spanish, the Training Kit is a unique product that can be tailored to meet user needs, ensuring that employees get the best training available on Participatory Spatial Information Management and Communication.

The online version was launched at the beginning of March 2011. The DVD version was launched in December 2010. The Training Kit contains 15 Modules, each presented through a series of Units. Modules cover the entire spectrum of good developmental practice – from mobilising communities to developing a communication strategy based on the outcome of participatory mapping activities. The Modules touch on topics such as the fundamentals of training, ethics and community groundwork and processes as well as the more technical low-,

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mid- and high-tech participatory mapping methods.

Users decide what they want to cover and when. The product has been developed using the Multimedia Training Kit (MMTK) approach – which allows you to pick and choose those Modules, Units and components that best suit your particular requirements and develop a curriculum to suit your specific needs.

**Publishers:** Technical Centre for Agricultural and Rural Co-operation ACP-EU (CTA), Wageningen, The Netherlands and International Fund for Agricultural Development (IFAD), Rome, Italy

Source: [The Centre for Agricultural and Rural Cooperation](#)

### [Safe Software FME free One Day Event - Sydney CBD - Friday, 13 May 2011](#)

FME (Feature Manipulation Engine) is an integrated collection of Spatial ETL (Extract, Transform, and Load) tools for spatial data transformation and data translation produced by Safe Software Inc. of Surrey, British Columbia, Canada. It greatly assists users convert data between formats, as well as process data geometry and attributes.

Thanks to Ross Johnson for this item

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## Funding Opportunities, Awards, Grants

### [Google Anita Borg Memorial Scholarship: Asia](#)

Through the Google ICT Scholarship, women are encouraged to excel in computing and technology and become active role models and leaders. Multiple scholarships will be awarded based on the strength of candidates academic performance, leadership experience and demonstrated passion for computer science. Each scholarship recipient will receive a \$3500 scholarship.

Eligibility requirements - candidates must:

- be a female student enrolled in full-time undergraduate or postgraduate study at an university
- be enrolled at an University in any of the following countries: Korea, Japan, Singapore, Thailand, Malaysia, Indonesia, Philippines, Vietnam.

Citizens, permanent residents, and international students are eligible to apply.

- be studying Computer Science, Software Engineering, or a closely related technical field.
- maintain an excellent academic record

**Deadline for applications for the 2011 Anita Borg Memorial Scholarship: June 1, 2011.**

[Contact.](#)

### [Google Anita Borg Memorial Scholarships also are offered in Australia and New Zealand](#)

**Deadline for submitting an application will be late May 2011.**

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## Conference Proceedings

### ["Nurturing 1 Malaysia through GIS" 17 March 2011](#)

GIS Day is an annual program which is jointly organized by Malaysian Remote Sensing & GIS Society Student Chapter (MRSGISSC), Universiti Putra Malaysia (UPM) and also Malaysian Remote Sensing Society (MRSS).

[Speaker Biographies](#)

### [2010 Esri Survey and Engineering GIS Summit Proceedings](#)

## Conferences, Events

For upcoming events of global or major international interest, please visit the [upcoming conference list](#) on the GSDI website – as this conference list will be reserved for conferences within or with specific interest to the Asia Pacific Region.

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**The editors welcome news of conferences & events from the newsletter subscribers**

**[Call for Expression of Interest to host AARSE 2014 and future Conferences](#)**

Call for Expression of Interest to host the 10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE) in October 2014 and future Conferences. The 9th conference will be held in Morocco in October 2012.

| Date  | Location   | Event   |
|---|--|---|
| <b>May 2011</b>   |  |   |
| <b>3 – 8 May</b>  | Antalya, Turkey  | <b><u><a href="#">Gi4DM 2011 – Geoinformation for Disaster Management.</a></u></b><br><a href="#">Contact</a>   |
| <b>10-11 May</b><br>(GIS Workshop)<br><b>12-13 May</b><br>(User Conference) | Lakewood<br>(GIS Workshop);<br>Golden (UC)<br>Colo., USA | <b><u><a href="#">USGS holds National Map Users Conference</a></u></b><br>The U.S. Geological Survey's (USGS) National Geospatial Program (NGP) and the Office of Enterprise Information announced The National Map (TNM) Users Conference, and the Geographic Information Science Workshop to be held May 10-13, 2011 in Lakewood, Colo. According to the announcement, this inaugural event will assemble a wide range of participants including scientists, managers and geospatial professionals from government, industry, academia and other organizations. A goal of TNM UC is to share accomplishments and progress, acknowledge best practices, and exchange innovative ideas concerning The National Map in supporting science initiatives. The role of the GIS Workshop will be learning specific techniques for using GIS in support of science. Interactive dialog will be encouraged through panel and lightning sessions, poster presentations, workshops, and demonstrations. |
| <b>12-13 May</b>  | Isle of Capri, Italy                                     | <b><u><a href="#">Workshop on Global Scientific Data Infrastructures: the big data challenges</a></u></b><br>This Workshop will be held at the "Hotel La Palma" in the island of Capri, Italy.<br><b>Registration</b><br>The participation is free and the organizers will be able to offer the coffee- breaks, working lunches, and a social dinner. The participants have to cover their own travel and lodging expenses. To register to the Workshop, fill in the <a href="#">online form</a> .<br>Upon registration, you will receive an email confirmation message. Registration for the workshop is limited by the venue capacity. Early registration is strongly recommended.<br>Organizing Committee - <a href="#">Costantino Thanos</a> , CNR-- ISTI, Italy and <a href="#">Yannis Ioannidis</a> , University of Athens, Greece<br>Secretariat support - <a href="#">Catherine Bosio</a> , CNR--- ISTI, Italy  |
| <b>17 – 18 May</b>  | Essen, Germany   | <b><u><a href="#">Faro 3-D Documentation Conference</a></u></b>   |
| <b>18 – 22 May</b>  | Marrakech, Morocco                                       | <b><u><a href="#">FIG Working Week</a></u></b>  |
| <b>19 – 20 May</b>  | Almaty, Kazakhstan                                       | <b><u><a href="#">Annual Central Asia GIS Conference - GISCA 2011</a></u></b><br><b>Geoinformatics: Managing Environment, Resources and Risk</b><br>May 1 – Fully formatted copy of full papers uploaded (see authoring instructions!)<br>May 1 – Registration for poster exhibit<br>Local organisation: <a href="mailto:gisca11-info@aca-giscience.org">gisca11-info@aca-giscience.org</a><br>Program enquiries: <a href="mailto:gisca11@aca-giscience.org">gisca11@aca-giscience.org</a>  |
| <b>26 – 29 May</b>  | Nanjing, CHINA,  | <b><u><a href="#">LIDAR and Radar Mapping: Technologies and Applications</a></u></b><br>Full paper submission deadline - CLOSED<br><a href="#">Contact</a>  |
| <b>31 May – 2 June</b>  | Cape Town, South Africa                                  | <b><u><a href="#">AfricaGEO 2011</a></u></b>  |

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| <b>June 2011</b>                        |   |   |
|---|---|---|
| <b>4 June</b>                           | Sydney, Australia                                     | <b>"whereNSW" Camp</b> -The all day spatial camp will be held Sydney on Saturday, 4 June 2011.<br><a href="#">NSW Location Intelligence Strategy</a><br>The NSW Government is developing a high level, whole-of-government strategy to plan and manage spatial information, infrastructure and services across NSW. The team will be encouraging participation and consultation through a range of channels, including • Engagement with NSW Spatial Council • Online consultative tools • <b>"whereNSW" Camp</b> • Targeted one-on-one stakeholder interviews • NSW Location Intelligence Strategy Thought Leadership Forum. |
| <b>6 – 9 JUNE</b><br><br><b>"NEW"</b>   | Orlando, USA  | <a href="#">Hexagon 2011</a><br>Session titles and speaker names for more than 50 timely presentations are now posted online for the mapping and positioning industry's most anticipated conference of 2011.  |
| <b>14 June</b>                          | Washington, D.C                                       | <a href="#">Forum On Earth Observations V</a>   |
| <b>15 – 17 JUNE</b>                     | Munster, Germany                                      | <a href="#">GEOINFORMATIK 2011</a>  |
| <b>20 – 23 JUNE</b>                     | University of Cantabria, Santander, Spain.            | <a href="#">"Cities, Technologies and Planning" CTP 11</a><br>in conjunction with<br><a href="#">The 2011 International Conference on Computational Science and its Applications (ICCSA 2011)</a>   |
| <b>21 – 22 JUNE</b><br><b>"UPDATED"</b> | University of Nottingham, UK                          | <a href="#">Third Open Source GIS UK Conference - OSGIS 2011</a><br>The <a href="#">Provisional agenda</a> for the Conference is now available.   |
| <b>21 – 23 JUNE</b>                     | Dijon, France   | <a href="#">The International Conference on Digital Information and Communication Technology and its Applications (DICTAP2011)</a> Université de Bourgogne<br>For inquires, please send email to <a href="mailto:di@sdiwc.net">di@sdiwc.net</a>   |
| <b>22 – 24 JUNE</b>                     | Kuala Lumpur, Malaysai                                | <b>SEASC and ISC 2011</b><br>The 11th South East Asian Survey Congress and the 13th International Surveyors' Congress.<br>The theme "Innovation towards Sustainability", in conjunction with the Institution of Surveyors Malaysia's 50th year celebrations.  |
| <b>27 – 29 JUNE</b>                     | <a href="#">Universiti Malaysia Pahang</a> , Malaysia | <a href="#">ICSECS 2011 (Malaysia)</a><br>The Second International Conference on Software Engineering and Computer Systems (ICSECS2011)   |
| <b>28 June - 7 July</b>                 | Melbourne, Australia                                  | <a href="#">XXV IUGG General Assembly</a><br><b>Earth on the Edge: Science for a sustainable Planet</b><br>The IUGG 2011 Scientific Program Committee invites the submission of abstracts on original work to be considered for oral or poster presentation at the IUGG 2011 General Assembly<br><a href="#">Contact</a> <span style="float: right;"><a href="#">Download Brochure</a></span>   |
| <b>28 June - 7 July</b>                 | Melbourne, Australia                                  | <a href="#">IAG General Assembly</a><br><a href="#">Download Brochure</a>   |
| <b>29 June - 1 July</b>                 | Fuzhou, China   | <a href="#">ICSDM 2011 &amp; BJ-IWGIS 2011</a><br><b>IEEE International Conference on Spatial Data Mining and Geographical Knowledge Services (ICSDM 2011) – AND - Beijing International Workshop on Geographical Information System (BJ-IWGIS 2011)</b><br>The conference theme is "Bridging the Gap Between Spatial Information Technology and Geoscience Research".<br>One of the keynote addresses is titled <a href="#">"SDI and Digital Asia as Information Commons."</a>   |
| <b>July 2011</b>                        |   |   |
| <b>3 - 8 July</b>                       | Paris   | <a href="#">25th International Cartographic Conference.</a>   |

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|                                     |   |   |
|-------------------------------------|---|---|
|                                     |   | <b>15th General Assembly of the International Cartographic Association (ICA)</b><br>Contact: <a href="mailto:regist-icc2011@europa-organisation.com">regist-icc2011@europa-organisation.com</a>   |
| <b>5 – 8 July</b>                   | Salzburg, Austria                           | <b><a href="#">GI Forum 2011</a></b>  |
| <b>6 – 8 July</b>                   | Islamabad, Pakistan                         | <b><a href="#">Call for papers at the 3rd International Conference on Advances in Space Technologies (ICAST)</a></b><br>This conference will focus on the use of space technologies for hydrologic disasters & climate change research. ICAST will raise awareness on the applications of space-borne sensors for hydro-meteorologic extremes, water resources management and climate change studies. This conference will improve international collaboration on scientific and technical research on emerging issues of the region.<br><a href="#">Contact</a> – OR – <a href="#">Contact#2</a><br><a href="#">Registration</a>   |
| <b>7 – 9 July</b><br><b>“NEW”</b>   | Ostrava, Czech Republic                     | <b><a href="#">The International Conference on Digital Information Processing and Communications</a></b><br>Registration: May 03, 2011  |
| <b>7 – 12 July</b>                  | San Diego                                   | <b><a href="#">Esri and ACSM - Event for Surveyors and Mapping Professionals</a></b>  |
| <b>11 – 15 July</b>                 | San Diego                                   | <b><a href="#">ESRI International USER CONFERENCE</a></b>   |
| <b>11 – 13 July</b>                 | Macau                                       | <b><a href="#">3rd International Conference on Networked Digital Technologies (NDT 2011)</a></b>  |
| <b>19 – 22 July</b>                 | Ulaanbaatar, Mongolia                       | <b><a href="#">17th Meeting of the Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP)</a></b><br>- held in conjunction with 4th International Land Administration Forum<br>The aims of <a href="#">PCGIAP</a> are to maximize the economic, social and environmental benefits of geographic information in accordance with Agenda 21 by providing a forum for nations from Asia and the Pacific to: <ol style="list-style-type: none"> <li>a. cooperate in the development of a regional geographic information infrastructure;</li> <li>b. contribute to the development of the global geographic information infrastructure;</li> <li>c. share experiences and consult on matters of common interest; and</li> <li>d. participate in any other form of activity such as education, training, and technology transfer.</li> </ol> For further information, contact host, <a href="#">Mr. Ariunbold</a> or <a href="#">Jane Hong</a> . |
| <b>19 – 22 July</b>                 | Mayagüez, Puerto Rico                       | <b><a href="#">Surveying and Geomatic Educators Society Biannual Conference</a></b>   |
| <b>20 - 22 July</b><br><b>“NEW”</b> | London, UK                                  | <b><a href="#">The International Conference on Digital Enterprise and Information Systems(DEIS2011)</a></b><br>Registration: May 5, 2011  |
| <b>21 – 22 July</b>                 | Rio de Janeiro, Brazil                      | <b><a href="#">THE THIRD INTERNATIONAL CONFERENCE ON CLIMATE CHANGE: IMPACTS AND RESPONSES</a></b>  |
| <b>28-29 July</b>                   | National University of Singapore, Singapore | <b><a href="#">Remote sensing, natural hazards and environmental change 2011</a></b><br>This conference is organized by the Centre for Remote Imaging and Sensing (CRISP), National University of Singapore; Laboratoire Magmas et Volcans (LMV), Université Blaise Pascal; and the Working Group for Large Rivers and Climate Change, International Association of Geomorphologists.<br>The conference is designed to initiate informal discussion and paper presentation in two areas that are significant for the Asia Pacific Region and especially Southeast Asia. First of these involve natural hazards with emphasis on volcanoes, earthquakes,   |

|                          |                        |  |
|--------------------------|------------------------|--|
|                          |                        | <p>tsunamis and large floods. The second concerns environmental changes including climate change, modification of hydrological and geological processes and urbanization. The application of remote sensing in both observing such phenomena and ameliorating their non-beneficial effects will be emphasized. The conference provides a forum for exchange of views among researchers currently working in this area and for designing research strategies for the future.</p> <p><a href="#">Liew Soo Chin</a>, CRISP, NUS; <a href="#">Jean-Claude Thouret</a>, LMV, Blaise Pascal; <a href="#">Avijit Gupta</a>, Large Rivers and Climate Change, IAG</p>  |
| <b>August 2011</b>       |                        |  |
| <b>3 – 4 August</b>      | Kampala, Uganda        | <p><a href="#"><b>1st Conference on Advances in Geomatics Research</b></a></p> <p>The Department of Geomatics and Land Management, Makerere University invites you to the 1st Conference on Advances in Geomatics Research to be held from the 3rd – 4th of August 2011 at the CEDAT Conference Hall – Makerere University Kampala, Uganda. The theme of the conference is “Geomatics Research for Sustainable Development”. The theme seeks to bring to the fore Geomatics research and practice taking place internationally, regionally and locally in Uganda. The conference essentially seeks to highlight, promote, share and encourage scholarship in the various Geomatics sub-disciplines such as Geographical Information Systems (GIS), Remote Sensing, Engineering Surveying, Global Navigation Satellite Systems (GNSS) Geodesy, Land Management etc.</p> <p>The conference will include preconference workshops, plenary and technical sessions.</p> <p>Contact: <a href="#">Moses Musinguzi</a> - Head Geomatics and Land Management Department – <b>OR</b> – <a href="#">Anthony Gidudu</a> - Organising Committee Chair</p> |
| <b>5 - 7 August</b>      | Washington, DC USA     | <a href="#"><b>THIRD INTERNATIONAL CONFERENCE ON SCIENCE IN SOCIETY</b></a>  |
| <b>8 - 10 August</b>     | Taipei                 | <a href="#"><b>AOGS 2011 Geosciences World Community Exhibition</b></a><br>The Geosciences World Community Exhibition will be held in conjunction with the <b>8th Annual Meeting of the Asia Oceania Geosciences Society (AOGS)</b>  |
| <b>15 - 19 August</b>    | Nairobi, Kenya         | <a href="#"><b>AGSE 2011</b></a>   |
| <b>17 - 19 August</b>    | Rio de Janeiro, Brazil | <a href="#"><b>Latin American Geospatial Forum</b></a>   |
| <b>23 – 25 August</b>    | Perth, Australia       | <a href="#"><b>7th International Symposium on Digital Earth (ISDE7)</b></a><br>Held in conjunction with <b>WALIS Forum 2011</b> and the <b>2011 NRM Conference</b> . Registration is now <b>OPEN</b> .<br>The <a href="#">Australia Brazil Canada China Consortium</a> will convene a workshop, as will the <a href="#">CRC for Spatial Information</a> .  |
| <b>“UPDATED”</b>         |                        |  |
| <b>September 2011</b>    |                        |  |
| <b>9 – 11 September</b>  | Denver, Colorado       | <a href="#"><b>State of the Map (SotM)</b></a>   |
| <b>12 – 16 September</b> | Denver, Colorado       | <a href="#"><b>FOSS4G 2011</b></a>   |
| <b>28 – 30 September</b> | The Delft, Netherlands | <a href="#"><b>UDMS 2011</b></a>   |
| <b>October 2011</b>      |                        |  |
| <b>20 - 21 October</b>   | Guilin, China          | <p><a href="#"><b>ISPRS Workshop on Geospatial Data Infrastructure: From data acquisition and updating to smarter devices 2011</b></a></p> <p style="text-align: right;"><a href="#">Contact</a></p> <p><b>Deadline for abstracts: CLOSED</b></p>  |

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|  |                                    |   |
|--|------------------------------------|---|
|  |                                    | The objective of the workshop is to provide a platform for scholars and professionals in relevant areas to exchange research ideas and interests, to present the newest research results, to discuss the cutting-edge technology, and to promote the development and application of SDI and the international collaboration.  |
| <b>24 - 27 October</b><br><b>"NEW"</b> | Seoul, Korea                       | <a href="#">United Nations Forum on Global Geospatial Information Management (GGIM)</a>   |
| <b>November 2011</b>                   |                                    |   |
| <b>14 – 18 November</b>                | Santiago, Chile                    | <a href="#">UGI 2001 International Geographic Union "Regional Geographic Conference"</a> <a href="#">Contact</a><br><a href="#">Brochure &amp; Call for Papers</a>  |
| <b>15 – 17 November</b>                | Canberra, Australia                | <a href="#">Spatial@Gov2011</a>   |
| <b>21 – 25 November</b>                | Wellington, New Zealand            | <a href="#">Surveying &amp; Spatial Sciences Conference 2011</a>  |
| <b>29 November – 2 December</b>        | University of Melbourne, AUSTRALIA | <a href="#">The State of Australian Cities</a><br><b>Key Dates</b><br>Full papers due <b>06 MAY 2011</b><br>Reviewed papers returned <b>01 JUL 2011</b><br>Early registration closes <b>29 JUL 2011</b><br>Final papers due <b>31 OCT 2011</b>  |
| <b>December 2012</b>                   |                                    |   |
| <b>5 - 7 December</b><br><b>"NEW"</b>  | Hue City, Vietnam                  | <a href="#">The 9th @WAS International Conference on Advances in Mobile Computing and Multimedia (MoMM2011)</a><br>15 July 2011: Full Papers (8 pages), Short papers, Demos and work in progress (5 pages)<br>15 September 2011: Acceptance Notification<br>15 October 2011: Camera-Ready Papers and Authors Registration<br>The submitted papers should not exceed 8 pages and must follow the <a href="#">ACM guidelines</a> . <a href="#">Contact</a>  |
| <b>May 2012</b>                        |                                    |   |
| <b>13-17 May</b>                       | Quebec City, Canada                | <b>2012 Joint World Conference</b><br><a href="#">GSDI 13</a> and <a href="#">Canadian Geomatics Conference (CCC)</a><br>hosted by <a href="#">GEOIDE</a> Network<br>GSDI 13 invites presentations/papers covering the full range of practice, development and research experiences that advance the practice and theory of spatial data infrastructure development and spatial enablement of society. GSDI 13 will support three primary forms of publication:<br>(1) a normal conference proceedings with abstracts and full articles (non-refereed and refereed), published on a CD,<br>(2) a pre-conference published book of fully refereed articles, and<br>(3) a post-conference special edition of the International Journal of Spatial Data Infrastructures Research (IJSDIR) with full articles selected from the proceedings and then fully refereed and revised after the conference. |
| <b>August 2012</b>                     |                                    |   |
| <b>25 August – 1 September</b>         | Melbourne, Australia               | <a href="#">XXII International Society for Photogrammetry &amp; Remote Sensing Congress</a><br>Email: <a href="mailto:isprs2012@icms.com.au">isprs2012@icms.com.au</a>  |
| <b>October 2012</b>                    |                                    |   |
|  | Morocco                            | <a href="#">10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE)</a>  |

| 2014 |          |   |
|------|----------|---|
|      | Malaysia | Malaysia will be hosting the (International Federation of Surveyors) FIG Congress in 2014. The decision was taken at the recently concluded FIG Congress 2010 in Sydney, Australia. |

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