Spatial Data Infrastructure Asia & the Pacific Newsletter

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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 October 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 25th 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

International Geospatial Society (IGS) Free Memberships

At its recent meeting, the GSDI Board of Directors passed a motion that allows individuals in low and very low income nations to join the International Geospatial Society (IGS) by providing specific information of value to the global community in lieu of annual cash dues. To join, simply add your professional profile to the growing interconnected network of geospatial specialists across the globe. Benefits of membership in IGS are listed at http://www.igeoss.org/benefits. For further information, contact Harlan Onsrud, Executive Director, GSDI Association.

Call for proposals: GSDI Small Grants Program 2011-2012

The Global Spatial Data Infrastructure (GSDI) Association, the FGDC, and GISCorps have announced the Small Grants Program for the year 2011-12.
Application deadline: 31 October 2011. See under "Funding Opportunities, Awards, Grants"

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SDI News, Links, Papers, Presentations

Malaysia Geosarnas - Spatial Data for Natural Resource Management

Natural resources have a limit. For that, people need to manage those resources to be used on an ongoing basis. One way is by utilizing the data and geospatial information. geospatial data that can later be processed into information that can be used as a tool in policy formulation. Thus, the policy is beneficial to the prosperity of the people in a sustainable manner. It was described by Deputy Remote Sensing Lapan, Drs. Taufik Maulana, MBA, at the International Seminar on Geospatial and Human Dimension on Sustainable Natural Resource Management, on Monday (12 / 9). The seminar took place at IPB International Convention Center.
Source: geosarnas and Asia Surveying and Mapping Magazine

What are some 'where's my jetpack?' promises related to geospatial technology?

This wishful thinking hasn't escaped the geospatial technology industry, where so much of the work involves an assessment of our planet's existing state so that we may project our plans of development and policy into the future. We like to pin the hopes and dreams of tomorrow onto the people or organizations that shared their vision. There have been a number of noteworthy visions from visionaries in the geospatial realm, and below are a few that stand out.
Source: SpatialSustain

Design of NGIS: one size fits all type

This article provides a review of the National Data Sharing and Accessibility Policy (NDSAP) announced by the Department of Science and Technology (DST), Government of India in May 2011. This initiative is a bold step. However there are a number of restrictions and challenges which need to be addressed.
Source: Coordinates

India to launch National GIS Portal

In the last decade, India has made considerable progress in laying out the foundation for a sound knowledge-base and a strong user-base for GIS activities in the country. The public and private sectors, in particular, have been working hand in hand in developing GIS-based planning solutions, urban management solutions, power distributions solutions, location-based services and applications which have contributed to increase in internal capacity and capability of GIS in India.
Source: FutureGov India

National Spatial Data Infrastructure: The Case of the Republic of Korea

This report, part of the Spatial Data Infrastructure for Development (SDI4MDGs) project, explores the potential use and long-term sustainability of SDI in the Republic of Korea and the lessons for the developing world. This report proposes a strategic NSDI model for developing countries based on the South Korean lessons highlighted in the paper and on the opinions of Korean GIS experts. This model includes 4 strategies: including

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strategies for geospatial data; GI capacity building; GI portal enabling access platforms; and cost-effective management of GI with partnerships- all of which can be established for the development of SDIs at the national and local levels.
Thanks to Kate Lance for this item

Indonesia developing NSDI using cloud

Indonesia's National Coordinating Agency for Survey and Mapping, BAKOSURTANAL, is taking its GIS initiatives to a whole new level by developing its NSDI using cloud computing technology - an initiative which stemmed from the agency's thrust to provide accurate and reliable geospatial information to government agencies and the general public.

Dr. Asep Karsidi, Chief of BAKOSURTNAL, told FutureGov that at the moment they are currently collaborating with Esri, a worldwide leader in GIS, to develop Indonesia's Spatial Data Infrastructure (Ina-SDI) using cloud. "Cloud computing can provide seamless sharing of information between different agencies, and also provide various opportunities for BAKOSURTANAL to become more cost-effective, productive, flexible, and efficient. In order to be spatially enabled, Indonesia will make spatial data acquisition complete on every scale as mandated in Indonesia's geospatial Information Laws - thus the development of the Indonesian Spatial Data Infrastructure is very critical," he said. "For the next three years we will continue to develop the NSDI to focus more on geospatial data and as well as build on capacity building for our human resources who will be custodians of our geospatial data."

Thanks to Kate Lance for this item [see also Geospatial World Weekly]

Educational Portal for Spatial Planning

In 2007 the European directive INSPIRE was approved. This directive affects also spatial planning. The spatial planners (architects and public servants) from the partner's countries have difficulties to adopt the INSPIRE directive into their work. The problem of sustainability planning is now a challenge for all levels of society including stakeholders and policy makers. The importance and the interest in Spatial Data Infrastructure (SDI) are growing.

European Project SDI-EDU

The full name of the project is 'SDI-EDU for regional and urban planning' (with the acronym SDI-EDU). The SDI-EDU project belongs to the framework of the Leonardo da Vinci Lifelong Learning Programme. In particular it is a multilateral project – transfer of innovations. The knowledge stated in the created educational content is transferred mainly from the projects Plan4all, Humboldt and Naturnet Redime. The SDI-EDU project started on October 1st, 2009 and its duration is 24 months. The keywords for the presented project are 'SDI' as Spatial Data Infrastructure and 'EDU' as Education. One of the main aims of the project is to establish a geoportal which will serve for vocational education of spatial planners. The spatial planners could find here information, educational material and documents which will provide them with the knowledge about the INSPIRE related topics which will influence their daily work in very close future.
Source: Vector1Media

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Asia & the Pacific Newsletter

SDI Spotlight

This month's "Spotlight" feature is from Hamed Olfat who is a PhD candidate and member of the Centre for Spatial Data Infrastructures and Land Administration (CSDILA) in the Department of Infrastructure Engineering at the University of Melbourne. Hamed's main focus is on "Spatial Metadata Automation" research project which is currently under investigation by the researchers at CSDILA. In fact, this "Spotlight" feature is an update to the one previously published in December 2009 (Vol.6, No.12).

**A Critical Need for any SDI Initiative:
"Automatic Spatial Metadata Updating and Enrichment"**

Introduction

Metadata is a vital tool for spatial data management, retrieval and distribution. It is also a critical component for any spatial data sharing platform which provides users with information about the purpose, quality, actuality and accuracy of spatial datasets. With the huge amount of spatial data created and updated in short time frames and exchanged frequently through the Web environment, the demand for automatic spatial metadata "updating" and "enrichment" to easily describe, discover and retrieve such resources is increasing dramatically. In this regard, the latest developments from "Spatial Metadata Automation" research project to address these current needs have been explored in this article.

Automatic Spatial Metadata Updating

Automatic spatial metadata updating or "*synchronisation*" is a process by which properties of a spatial dataset are read from the dataset and written into its spatial metadata at the same time with any modification of the dataset. This automatic function aims at supporting the spatial metadata to be current with its relevant dataset changes. Accordingly, it will benefit the organisations associated with spatial metadata to save time and effort while updating their large number of metadata records, and will also reduce the risk of inconsistency and redundancy in their spatial data and metadata.

To address the aim of automatic metadata updating, a new approach based on different technologies and standards such as Geography Markup Language (GML), Extensible Stylesheet Language (XSL), Web Feature Service (WFS) and Catalogue Service for the Web (CSW) has been designed and developed. This approach has been prototyped by the research team and the system is now up and running which contains the following major features:

1. An integrated data model for storing metadata and dataset;

2. A user-friendly interface integrated with GeoNetwork opensource interface to view and modify dataset and metadata;

3. A synchronisation process to automatically update the ISO 19115 core metadata elements in GeoNetwork opensource database which are affected by dataset modification;

Automatic Spatial Metadata Enrichment

Automatic spatial metadata enrichment involves improving content of metadata through monitoring tags and keywords that are utilized by users for finding datasets. Creating metadata by monitoring user interaction is based on the Folksonomy concept – that is, the process by which many users add metadata in the form of keywords to shared content.

With this in mind, to implement the automatic spatial metadata enrichment concept based on tagging, two models have been designed. The first model is "*indirect tag generation*" for spatial datasets based on system

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oriented approach and the second model is "*direct tag generation*" by engaging the spatial data users in tagging process.

These models have been also implemented by the research team as the prototype system within Model Information Knowledge Environment (MIKE) system, which has been developed by the Victorian Department of Primary Industries (DPI) for management and registry of instances of biophysical and socio-economic modeling work in Victoria, Australia. In addition to this, based on the enrichment concept three plug-ins tilted "Suggestion List", "Tag Cloud" and "Tag Monitor" have been developed to be applied in GeoNetwork opensource.

Metadata Workshop

A metadata workshop will be held by the research team in conjunction with the "4th UN Sponsored PCGIAP Land Administration Forum, Collaborative Research Workshop & Ten Year Celebration for the CSDILA" event in Melbourne on Wednesday 5th October 2011. This workshop aims at discussing latest outcomes of the research project. Specifically, the research team will be presenting a live demonstration of the prototype systems and technologies which have been developed to automate spatial metadata creation and maintenance. This will be followed by a discussion on possible improvements to the prototype systems and future directions. For more information about the event, please visit:

http://csdila.unimelb.edu.au/BeyondSpatialEnablement/Home.html

More Information

For more information about this research project, please visit: http://csdila.unimelb.edu.au/projects/metauto/

Also, you may find a list of publications related to this research project as following:

- Rajabifard, A., Kalantari, M., and Binns, A. (2009). *SDI and Metadata Entry and Updating Tools*. In B. v. Loenen, J. W. J. Besemer and J. A. Zevenbergen (Eds.), *SDI Convergence. Research, Emerging Trends, and Critical Assessment* (pp. 121-136). Delft.
- Kalantari, M., Rajabifard, A., and Olfat, H. (2009). *Spatial Metadata Automation: A New Approach*. Refereed Paper presented at the Spatial Science Conference 2009 (SSC2009), Adelaide, Australia.
- Olfat, H., Rajabifard, A., and Kalantari, M. (2010). *Automatic Spatial Metadata Update: a New Approach*. Refereed Paper presented at the XXIV FIG International Congress 2010, Sydney, Australia.
- Olfat, H., Rajabifard, A., and Kalantari, M. (2010). *A synchronisation approach to automate spatial metadata updating process*. Coordinates Magazine, *Vol. VI,* Issue 3, pp. 27-32, March 2010.
- Kalantari, M., Olfat, H., and Rajabifard, A. (2010). *Automatic Metadata Enrichment: Reducing Spatial Metadata Creation Burden through Spatial Folksonomies*. In A. Rajabifard, J. Crompvoets, M. Kalantari and B. Kok (Eds.), *Spatially Enabling Society* (pp. 119-129): Luven University Press.
- Olfat, H., Kalantari, M., Rajabifard, A., Williamson, I. P., Pettit, C., and Williams, S. (2010). *Exploring the Key Areas of Spatial Metadata Automation Research in Australia*. Refereed Paper presented at the GSDI-12 World Conference, Garden city, Singapore, 19-22 October.

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

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GIS Tools, Software, Data

Geoscience Australia offers two new services
Geoscience Australia released a collection of 28 digital maps and an online gallery featuring overlaid or 'swipe comparison' satellite images. The collection of maps will give oceanographers, scientific researchers, resource exploration companies, tourism operators and the public a greater understanding of Australia's maritime jurisdiction. On the other hand, the online gallery depicts urban growth and landscape changes over the past 30 years.
Source: Geospatial World Weekly & www.investinAustralia.com

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GIS tool to improve car pooling

A new online service in Australia is using GIS technology to help commuters share transport options. GreenRide Connect was developed to reduce single-passenger journies. The web-based platform identifies individual options for carpools, vanpools, bicycling, park-and-ride facilities and public transport.
Source: SpatialSource

Western Australia maps sustainability strategy

Western Australia's *Committee for the Economic Development of Australia* (CEDA) are using a planning mega-map to plan the state's development and sustainability for the next four decades.
CEDA, an economic and social policy thinktank worked in close collaboration with leading GIS specialist, Esri Australia, to construct a map exclusively for its *Inventing the Future: Shaping WA from 2010 to 2050* discussion series which consisted of 12 forums where key policy makers discussed key issues facing Western Australia such as resource management, employment, and infrastructure.
Thanks to Kate Lance for this item

NZ gets new rule for unit title boundaries

The Surveyor-General of New Zealand (NZ) issued Ruling LINZR6531 to allow permanent structure boundaries to be used for rights under the Unit Titles Act 2010. The new Ruling clarifies that permanent structure boundaries can continue to be used for unit title developments.
Source: Geospatial World Weekly and Land

Where are you calling from?

The most important thing an emergency service dispatcher needs to know is a caller's exact location. But what if callers are unsure of where they are? authorities in the State of Victoria, Australia, have come up with a novel solution.
Source: GEOconnexion International

Shareable Safety Maps Made Easy With Safety-Maps

Safety-Maps is an interesting resource that helps the end user create custom maps to share with family, friends, or colleagues in case of an emergency. Using a simple to use, familiar interface, the application is quick and easy, providing an efficient customizable and sharable experience for the user. Once completed, the application enables the creator to specify recipients to receive the map and instructions or the maps can be printed easily in a number of pre-configured sizes. The service takes all care of all the guessing work and map creation issues that a user might typically encounter.
See http://safety-maps.org/make-a-safety-map.php
Source: GISuser

Bhutan embraces GIS in healthcare

Orange Business Services, an enterprise communications arm of France Telecom, entered into a partnership with the Royal Government of Bhutan and Regal Information Technology to deliver real-time healthcare services to the people of Bhutan. Citizens can easily avail this service by dialling the toll free number 112. In an interview with Express Healthcare, Bala Mahadevan, CEO, Orange Business Services, India, explained that the new communication infrastructure set-up is integrated with GIS and GPS which take care of ambulance allocation, location identification, shortest path identification and dispatch. In addition, healthcare helpline provides readily available medical advice, health information and counselling services for the citizens of Bhutan. The company also added epidemic surveillance and reporting and an integrated disease management system as part of the services.
Source: Geospatial World Weekly & ExpressHealthCare News

New Zealand launches digital soil map

Researchers at Landcare New Zealand, a government-owned corporation overseeing the sustainable development and the management of land-based natural resources, has launched an online map service that will make it easier for decision makers to understand New Zealand's land use and ecology.
The online map service, which they call S-map Online <http://smap.landcareresearch.co.nz/home>, is based on a Google Earth style user friendly navigation. It has excellent, high quality base maps including maps based on the Land Information New Zealand (LINZ) topographic data, which allows users to not only locate an area of interest with a high degree of accuracy but also provide a geographic context for the soils data.
S-map Online is based on a digital soil spatial information system that is being populated with data to provide

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consistent and comprehensive national soil data layers to support applications at local, and regional to national scales.

In addition, the S-map Online also allows users to explore interactive maps of soil properties, learn about soil in their backyard or paddock, view detailed information about soil classes or attributes, and download soil factsheets for more detailed knowledge on soil properties.

Thanks to Kate Labnce for this item

Seabed Mapping and Surveying in Asia

China has announced that it will increase its level of seabed mapping and surveying. These operations aim to describe seabed geology, water depths and the location of features and objects. Surveying of the waters and coastlines throughout Asia is expanding for numerous reason including, territorial interests, navigation and charting, mineral resource identification and energy related opportunities.

Source: Asian Surveying & Mapping

Taiwan planning agency launches Web GIS platform

The Construction and Planning Agency (CPA), the central government authority responsible for the national spatial resource planning in Taiwan, launched its web GIS platform about Non-Urban land development and evaluation to improve data management and to accelerate the convenience of using its query system.

The web GIS platform which they aptly called the "Examination System of Non-Urban Land Development Permission" (ESNULDP) was launched in order to deal with large quantities of cases CPA receives each year.

Source: www.futuregov.asia & thanks to Kate Lance for this item

Fugro to conduct AUV survey in Australia

Fugro Survey Pty Ltd. in Perth, Australia, will soon commence a deepwater survey by autonomous underwater vehicles (AUV) as part of the Woodside-operated Browse LNG Development.

Source: Geospatial World Weekly & Fugro press release

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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.

Loveland city to discuss its Road Map for Successful Enterprise GIS Implementation

The City of Loveland, Colorado, will present at the Esri Public Works Executive Networking Social during the American Public Works Association (APWA) Congress in Denver, Colorado. Each year, the APWA Congress draws thousands of public works professionals, who come from all over the world to learn about best practices in the public works arena.

The Esri Public Works Executive Networking Social, hosted by Esri and Esri Canada Limited, will take place on Monday, September 19, 2011, at the Hyatt Regency Hotel across from the Colorado Convention Center, where the APWA Congress will be held. The Esri event provides decision makers with a forum for discussing with peers and industry experts how to integrate GIS technology throughout a public works department. Shannon Smith, senior GIS specialist, will be the City of Loveland's presenter for this event.

After initially implementing GIS for water and power utilities more than 20 years ago, Loveland progressively expanded its use of the technology throughout the city, including the public works department, until it ultimately developed a citywide, enterprise-level system.

According to Brent Shafranek, senior GIS specialist, City of Loveland, the city's presentation will focus on the use of GIS as a shared resource throughout the city and how GIS benefits the entire municipal operation.
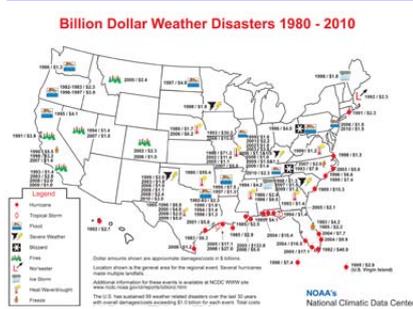
Source: GISuser.com

Arctic ice nearing record low

A new record low could soon be set for ice in the Arctic. The past five years have seen the lowest extent of sea ice since satellite measurements began in the 1970s.

Source: Geospatial World Weekly & ESA News

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NOAA's National Weather Service taking action to build a Weather-ready nation

Billion Dollar Weather Disasters 1980 - 2010

NOAA (The National Oceanic and Atmospheric Administration) is launching a comprehensive initiative to build a "Weather-ready" nation to make America safer by saving more lives and protecting livelihoods as communities across the country become increasingly vulnerable to severe weather events, such as tornado outbreaks, intense heat waves, flooding, active hurricane seasons, and solar storms that threaten electrical and communication systems.

NOAA is also announcing that the United States has so far this year experienced nine separate disasters, each with an economic loss of $1 billion or more — tying the record set in 2008. The latest event to surpass the $1 billion price tag is this summer's flooding along the Missouri and Souris rivers in the upper Midwest. This year's losses have so far amounted to more than $35 billion.
Source: GISuser.com

Spy Satellites, Google Earth Now Guarding World's Great Ancient Sites

Conservationists are using spy satellites, cutting-edge computer technology, and an expert human network to build an "early warning system" for some of the planet's greatest—and most threatened—archaeological sites.
Source: Geospatial World Weekly & National Geographic Daily News

Setting up a GIS system just got simpler thanks to cloud computing

Setting up a GIS system just got simpler thanks to cloud computing. Cloud computing furnishes technological capabilities - commonly maintained off-premise that are delivered on demand as a service via the Internet such that cloud computing makes setting up the GIS system simpler, because the system is built into the servers.
Source: GISuser.com

Geospatial Preservation at Society of American Archivists

A full spectrum discussion of "Geospatial Data Preservation" ranging from the Library of Congress' $10 million acquisition and access to the infamous Waldseemüller 1507 map *Universalis Cosmographia* of 'America' USGS's environmental conditions for storing historic satellite imagery to GeoMAPP's work in gathering time-stamped state geospatial data.
Source: Andrew Turner's High Earth Orbit blog

Investigators Use FARO Laser Scanner to Recreate the Circumstances Surrounding Boxer's Death

It was murder, not suicide, that caused the death of former junior welterweight boxing champion Arturo Gatti two years ago, according to a team of forensic experts. Gatti was found dead outside the kitchen of his luxury Brazilian hotel condo by his wife Amanda Rodrigues Gatti in July of 2009. Brazilian authorities ultimately determined Gatti hung himself from a strap taken from his wife's purse after a drunken argument, but a team of experts utilized detective work – and the FARO Laser Scanner Focus3D – to declare his death a homicide.
Source: LiDAR News

Lithuania city first in Europe to launch touch-map

Vilnius in Lithuania became the first European city to unveil touch sensitive digital maps in bus shelters. These interactive maps offer information about bus and trolley-bus routes and schedules in five languages: Lithuanian, English, Russian, Polish and German.
Source: Geospatial World Weekly

Laser Scanning Used to Document Murder Scene in Jersey

4DMax is one of the newest and most innovative companies working within Film & TV VFX and Forensic Geomatics. Drawing on many years of experience in all aspects of 3D data capture and presentation, we provide time and cost effective solutions across many markets. We are the complete 3D spatial data capture, analysis, interrogation and presentation specialists.

In Jersey we are tasked with undertaking the full digital documentation of the scene of the six deaths to enable the full analysis of all the spatial data associated with the scene, including location of victims, blood spatters, forensic exhibits and forensic samples. Potentially this will be used in a number of ways, including investigative analysis of the scene and evidence presentation in court.
Source: LiDAR News

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Space to certify organic crops

Organic agriculture provides healthy food and protects the environment by practicing methods that avoid the widespread dissemination of chemicals. ESA is now helping to develop the use of satellite images for certifying crops as organic. Products can be labelled as organic only if they are produced according to a set of standards, undergo an evaluation and pass a yearly inspection. Since organic and conventional crops are treated differently, their characteristics are also different. Source: Geospatial World Weekly & www.redorbit.com

Examining Our Past: Historical Map Collection Now Online

Nearly 90,000 high resolution scans of the more than 200,000 historical USGS topographic maps, some dating as far back as 1884, are now available online. The Historical Topographic Map Collection includes published U.S. maps of all scales and editions, and are offered as a georeferenced digital download or as a scanned print from the USGS Store.
Source: GISUser

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Articles

What Was the Most Important Year in the History of the Geospatial Industry? 1969 according to Carl Reed
Source: Directions Magazine (Thursday, August 24th 2006)

What Was the Second Most Important Year in Geospatial History? 1993 according to Carl Reed
Source: Directions Magazine (Monday, September 12th 2011)

Northern Lights: Opportunities in Forensic Mapping by Bob Galvin

Traditionally, field surveying has been the domain of the total station. But savvy surveyors, whether they're independent consultants or a large surveying firm, are finding a new application for this trusted tool: law enforcement—more specifically, forensic mapping at crash scenes. Although crash-scene investigators aren't surveying with this tool, they're mapping points of physical evidence.
Because the total station is the mainstay of nearly every forensic investigation in Canada, it is increasingly essential for investigators without a lot of forensic-mapping experience to learn how to use a total station, along with the data collector, evidence-collection software, and diagramming program that comprise the standard crash-scene documentation process. Helping them learn the methods of forensic mapping is the Canadian Traffic Safety Education Centre (CTEC) in Edmonton, Alberta, Canada.
Surveyors are occasionally tapped to help with instruction on the use of total stations. Canadian police agencies, much like the U.S. law-enforcement agencies, have hired surveyors for unique situations, some of which include assisting with forensic mapping.
Source: Professional Surveyor

Feature: Remembering 9/11 by Frank John Hahnel

The author was in Atlanta, Georgia on September 11, 2001. The next day the U.S. Army Corps of Engineers required assistance with determining how much debris at the site of the twin towers remained above ground, which would provide them with a more concrete idea of how much of the buildings penetrated below the ground. As there was still a raging fire at the site and planes were not allowed to fly overhead, his 3D laser scanner was considered as the only viable option. He was given the task to drive to New York City, rendezvous with two coworkers, and coordinate workable locations to collect information on the debris piles.
Source: Professional Surveyor

Flood Identification from Radar Imagery - Mapping Flooded Urban and Rural Areas in Slovenia

Time series of satellite radar images are very useful for monitoring the extent and dynamics of floods and the devastations caused. A time series of four medium resolution radar images (ENVISAT, RADARSAT-2) captured after heavy rainfalls scourged Slovenia early autumn 2010, revealed overestimations and underestimations of the extent of flooded area in and around Ljubljana, the capital of Slovenia. The authors examined the sources underlying the deficiencies to gain insight into the possibilities of radar imagery for mapping flooded areas covered with a great diversity of land use types.
Source: GIM International

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Making surveying education relevant by Garfield Young, Martin J Smith, & Roger Murphy
Surveying education has been 'playing' catch up with changes in the surveying/geomatics industry and some individuals are of the opinion that the lag is substantial and demands immediate attention. Not only has technology impacted the surveying industry but the modernisation brought on by information and computer technologies has considerably impacted educational methods used in surveying/geomatics programmes. This paper examines how selected surveying/geomatics programmes address the issue of making their courses relevant to industry needs, student characteristics and one particular trend within higher education. The discussion is based on empirical data from a research that involved fifteen surveying/geomatics programmes from thirteen countries. The study investigated curriculum architecture and pedagogical alternatives within the discipline and the impact these have on students' preparedness for work.
Source: Co-ordinates magazine

Surveyors Report: The Face of Surveying
The fable of The Six Blind Men and the Elephant tells of the 6 mutually exclusive opinions describing an elephant. So it has been with surveying. For thousands of years the profession has included any and all technologies available. Leading observers from different perspectives have come up with individual descriptions of Surveying. It makes any surveyor sympathize with the elephant.
Source: The American Surveyor

Surveying Education: A view from FIG
by CheeHai TEO, President, FIG & Steven Frank, FIG Commission 2 (Professional Education)
There is the continuing need to raise the next generation of professionals that is not only educated and competent but also agile and able to respond responsibly to the growing demands from humanity. Humanity is facing a series of challenges ranging from adequate food and shelter; environmental degradation, natural disasters and climate change; growing income chasm and economic crises. The profession cannot just measure but also need to manage, to mitigate, to meaningfully deploy its sciences and technologies, its knowledge and practices for the betterment of humanity so that the profession remains relevant. Against this backdrop, surveying educators have the unenviable task of educating and shaping our next generation of professionals.
Source: Co-ordinates magazine

Subsurface Modeling - Utilities Can't Be Seen... Can They Be Surveyed? by Les MacFarlane and Jim Waite
The accuracy and detail of above-ground surveying continues to be enhanced by satellite-based positioning, and optical technologies like LiDAR and laser scanning. Software is now available to greatly ease the reduction of large amounts of 3D geospatial data into useful digital models. Planners, engineers, architects, and analysts can then easily manipulate these models on a computer, viewing existing infrastructure in the context of a proposed design or redevelopment. With databases of 3D models increasingly available for infrastructure projects, virtual representations are possible early in the planning stage, presented in a context that is readily understandable to all project stakeholders.
This richness of data has revolutionized the standard of care in our profession. Surveying practices and deliverables acceptable in the days before widespread use of GNSS, robotics, and scanning have been displaced by higher expectations, whether by statute or competition.
Below-ground however, today's expectations are not much different from times past. Accurate modeling of 3D position data from underground utility assets lags what is available from optical and satellite-based positioning systems, and hence 3D model data for such infrastructure is lacking.
Source: The American Surveyor

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Books and Journals (including Videos and Web publications)

Atlas of Canada Archives, Over 1,000 Historical Map

Natural Resources Canada (NRCAN) has a nice online resource where visitors can access a digital archive of the Atlas of Canada.

Maps dating back to 1906 are available as scanned digital files, or can be viewed online using a handy web map viewer. Made up of over 1,000 maps, the archive include all five past editions of the Atlas of Canada, 1906 to 1995, the Canadian sector of the International Map of the World, 1956 to 1987, and the first Glacier Atlas of Canada, 1969 to 1972. Topics of maps include maps themed on: Population, culture, aboriginal peoples, economics, transportation, environment, and historical themes. Scanned maps are available as a high-res PDF or JPG download, typically 1-3 MB in size

Applied GPS for Engineers and Project Managers by Dr. Clement A. Ogaja

Applied GPS for Engineers and Project Managers covers GPS basics, including positioning and measuring principles, techniques to improve accuracy, and an analysis of low-cost versus high-precision systems. Subsequent chapters explain the considerations for selecting and implementing a GPS system and then demonstrates specific applications of GPS in a variety of engineering situations, including monitoring the health of structures, robotics and machine control, maritime operations, material tracking in large construction sites, site control and design, and monitoring geohazards. Published by The American Society of Civil Engineers (ASCE.) To purchase online visit:

http://www.asce.org/Books-and-Journals/Books—Personify/ASCE-Press-(PAP)/Applied-GPS-for-Engineers-and-Project-Managers/

For more information contact: Kevin Higgins 703-295-6266 khiggins@asce.org

Maphead by Ken Jennings

For several millenia, maps were basically a static medium. The content changed as Europeans discovered the width and breadth of Asia and Asia plotted the lands surrounding the Indian Ocean, but cartography did not. A compass rose was a compass rose was a compass rose.

Not so anymore. Today we are blessed with a plethora of maps that run the gamut from the interactive equivalent to what Columbus used to theaugmented reality apps that layer information over city views on smart phones. This cartographic revolution provides the backdrop to Ken Jenning's new book *Maphead*, in which he charts a path through all manner of geographic wonkery, meeting many eccentrics who share his curious obsession.

The book is filled with curious anecdotes -- cartographers snuck into France before D-Day -- and exactly the sort of detail -- the largest island in a lake on an island in a lake on an island is in the Philippines -- that you'd expect from someone as trivia-oriented as Jennings, who arrived in the pop culture zeitgeist as a twitchy, funny and likable Jeopardy champion. There is some serious discussion of the geography education in America, but the book is at its best when Jennings is geeking out with a fellow enthusiast, talking about historical maps with the head of the Library of Congress's cartographic section or fantasy maps with a childhood friend.

It is very hard not to enjoy Jennings company, especially if you happen to be of the map- or travel-oriented persuasion. His is a world where every place possesses some hidden trait that marks it as unique and fascinating, where picayune detail doubles as revelation.

[from the Huffington Post]

Thoughts on the Geospatial industry, Open Standards and Open Source Cameron Shorter's blog

SDI Magazine

Mother Pelican: A Journal of Sustainable Human Development

The August 2011 issue has been posted:

LiDAR News, Vol 1, No 17

Think Quarterly – Google's new on-line magazine

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**Spatial Data Infrastructure
Asia & the Pacific Newsletter**

Coordinates monthly magazine

SERVIR-Africa community news

The American Surveyor newsletter (20 July)

GISuser - GIS and Geospatial Technology News

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Just for Fun!

The Augmented City video - Source: LiDAR News

The Vignelli Subway Map Goes Digital by Paul Goldberger
For most of the nineteen-seventies, the official route map of the New York City subway system was a beautiful thing. In fact, it was more than beautiful: it was a nearly canonical piece of abstract graphic design, the work of the celebrated modernist designer Massimo Vignelli, who decided that the only way to make the spaghetti tangle of subway lines comprehensible on paper was to straighten them out. On Vignelli's map, subway lines were enticing ribbons of color that ran straight up, straight down, or at a perfect forty-five degree diagonal.

The linked article at the New Yorker provides more interesting links; see particularly musician's Alexander Chen, a conductor (of music, not trains) who turned it into an "interactive string instrument" and the MTA's own interactive "Weekender" map & trip planner.
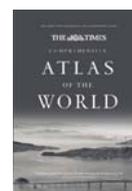Source: the New Yorker magazine

Climate Change Forces the 'World's Most Authoritative Atlas' to Redraw Maps

The Times Atlas publishers apologized through a press release for their "incorrect" statement suggesting that the Greenland ice sheet had melted by 15 percent since the 1999 edition. Though they stand behind the accuracy of the maps themselves, the publishers acknowledge the error in the press releases and publicity campaign.

Source: www.OneEarth.org/blog

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Training Opportunities

Large-Scale 3D Laser Scanning: The Complete Process
Don't worry if you missed the live webinar, "Large-Scale 3D Laser Scanning: The Complete Process". It's now available online for you to watch any time!

REGISTRATION FOR COURSES IN THE ACADEMIC YEAR 2012-2013 NOW OPEN:
University of Twente - ITC Faculty of Geo-Information and Earth Observation
You can now apply online for courses starting in the academic year 2012-2013. Browse by programme (degree, diploma, and certificate), course domain (disaster management, earth sciences, geoinformatics, governance, land administration, natural resources, urban planning, water resources) or location in the course finder at www.itc.nl/CourseFinder. If you prefer a printed copy of the study brochure 2012-2013, let ITC know by sending us an email: <alumni@itc.nl>.

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Short Course: Remote Sensing and GIS for Geological and Mineral Exploration, 2 weeks (Dar es Salaam, Tanzania)

The two-week course Remote Sensing and GIS for Geological and Mineral Exploration provides an introduction into the application of GIS, remote sensing and airborne geophysics to geologic mapping and mineral resources exploration. The course will start on 7 November 2011 at the SEAMIC premises in Dar es Salaam, Tanzania. Registration deadline: **1 November 2011**. The following will be covered: 1) The analysis and interpretation of geological data sets, such as ASTER satellite imagery, aeromagnetics and gamma-ray spectrometry and geochemistry, 2) the integration of different data sets to enhance geologic interpretations, and 3) mineral prospectivity modelling with GIS to generate exploration targets. Concepts and theories are explained in interactive lectures and their application will be practiced in hand-on exercises of East-African and other case studies.

Target group: Geologists who are working in the field of geological mapping and/or mineral resources exploration who want to deepen their knowledge of the use of digital data sets in a GIS environment to increase the efficiency of geologic mapping and exploration campaigns.

For more information and registration: www.itc.nl/Pub/study/Courses/C11-ESA-TM-05.html.

e-Learning for the Open Geospatial Community

We are pleased to inform that the course repository for the ELOGeo (An e-Learning Framework for Using Geospatial Open Data, Open Source and Open Standards) project is ready.

ELOGeo is a JISC-funded project based at the Centre for Geospatial Science, the University of Nottingham in partnership with the Mimas Centre of Excellence at the University of Manchester. ELOGeo main collaborators are Open Source Geospatial Foundation, Open Geospatial Consortium (OGC), Ordnance Survey, Open Nottingham, International Cartographic Association (ICA) and gvSIG Association.

More details of ELOGeo.

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

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fundamentals of training, ethics and community groundwork and processes as well as the more technical low-, 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

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Funding Opportunities, Awards, Grants

Award to encourage young geospatial scientists

To encourage young researchers working in the areas of geospatial science and technologies, Rachapudi Kamakshi Memorial Trust has instituted the Rachapudi Kamakshi Memorial Gold Medal for 'Young Geospatial Scientist™.' The award, consisting of a gold medal, citation plaque and a certificate of merit, will be awarded annually during the biggest congregation of geospatial community in the country, India Geospatial Forum (previously known as 'Map India') during 8-9 February 2012.

Source: Geospatial World Weekly

Call for Proposals for Individual Research Grants: East Asian Development Network (EADN)
Deadline: 10 October 2011

The East Asian Development Network (EADN), a network of research institutions in developing countries of East Asia, invites research organizations and independent researchers to submit proposals for the EADN Individual Research Grants. This program aims to strengthen the capacity of institutions and independent researchers in East Asia to undertake high quality, development-focused and policy-relevant research in the social sciences.

Research proposals related to economics, human development, political and social dynamics, gender issues, international relations and other topics within the social sciences will be considered. Proposals which are development-oriented and which have implications for policy will be given preference. Topics related to the research priority areas of the Global Development Network (GDN) are encouraged (see annex for details). It should also be noted that GDN will be sponsoring a Global Research Project on the topic of Urbanization this year.

The grants are awarded on a competitive basis. Proposals will be accepted at any time until 10 October 2011.

Who are eligible to apply? Researchers who are nationals and residents of any East Asian developing country are eligible to apply. Applications can be made by individual researchers or by research teams.

Europe's earth monitoring competition

The Global Monitoring for Environment and Security (GMES) has opened this year's competition for the best new ideas and services for the best use of Earth observation data from Europe's Global Monitoring for Environment and Security program. Initiated by the European Space Agency (ESA), the Bavarian Ministry of Economy, the German Aerospace Center (DLR) and T-Systems, the competition is open to students, researchers, entrepreneurs, start-up companies and small and medium enterprises to develop new applications for data from the GMES initiative. Proposals can be submitted by September 15, 2011 in five categories: Best Service, Ideas, ESA App, DLR Environmental, and T-Systems Cloud Computing. Prizes are awarded for the winners of each category. And, an overall winner will be awarded the GMES Master which comes with an additional cash prize of 20,000 Euros.

Source: GMES Masters and Thanks to Wonkug Baek for this item

Call for proposals: GSDI Small Grants Program 2011-2012

The Global Spatial Data Infrastructure (GSDI) Association, the FGDC, and GISCorps have announced the Small Grants Program for the year 2011-12.

The Small Grants Program provides awards of $2500 US in cash and/or contributed volunteer professional services for a technical or institutional projects. A list of typical projects follows - but this list is not exhaustive: Convening of national or sub-national seminars or workshops related to SDI

Producing SDI- and EOS-related training manuals and modules (these materials must not duplicate existing

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materials)
Establishing metadata and clearinghouse nodes (catalog services)
Establishing standards-based web mapping and data access services
Accomplishing geospatial data and/or SDI surveys or inventories
Producing and disseminating newsletters and awareness-raising materials about SDI
Drafting policy and legislation related to SDI
Priority will be given to projects in developing nations and countries with economies in transition. Grants can be awarded to SDI coordinating bodies (councils, committees) and GIS user groups, but the GSDI Association asks that one institution take responsibility for receiving/depositing the funds. Grants cannot be used to cover organization overhead expenses.
Application deadline: 31 October 2011

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Employment Opportunities

Postdoctoral Fellow - GIS and Land Use Modeler (PDF-2011-14-AN)
IRRI is seeking a postdoctoral fellow to work on an IRRI-led CPWF project in the coastal zones of the Ganges in Bangladesh, namely Project G1 (Resource profiles, extrapolation domains and land-use plans). G1 is one of 5 projects in the Ganges basin related to more productive, profitable, resilient, and diversified rice-based cropping systems in the coastal zones of BGD. The successful applicant will work closely with team members in all 5 projects to develop resource profiles at selected experimental sites and of the Southwest coastal zone; extrapolation domains to determine where new technologies are most likely to be successful land use plans under current and different hydrological scenarios in the future.
RESPONSIBILITIES
- Work with G1 project partners and data providers in Bangladesh to create a geodatabase of relevant information in the coastal zone of the Ganges Basin, such as soil and salinity profiles, hydrological information, land use / land cover, socioeconomic data and infrastructure at 1:50,000 scale or better.
- Use this geodatabase to derive resource characterization profiles for the experimental sites and polders where the related Ganges projects are working.
- Work with the Project Leader, other senior project members and the basin project partners and stakeholders to develop a robust methodology to determine 'what work's where' by mapping the extrapolation domains for the technologies and policies promoted by the other basin projects.
- Work with project partners to update or develop a current land use plan and maps of future land use change under plausible future hydrological scenarios. This will be conducted in close collaboration with the G4 project responsible for hydrological modeling of the coastal zone of the Ganges basin.
- Consult and work with project partners and stakeholders throughout the duration of the project on matters related to spatial analysis and map provision
- Publish scientific outputs through national and international journals, proceedings, conferences, and workshops.
Based in Dhaka, with frequent field trips to the coastal zone of Bangladesh.
REQUIREMENTS
The successful candidate will have recent PhD in Geography, water or land management or related fields; at least 5-years hands-on experience on GIS, spatial analysis, resource management and rice based cropping systems in South Asia; experienced in working in multi-partner research and development programs; good experience in land use modeling, multi-criteria evaluation methods and statistical analysis tools such as R; good writing skills, and have a good publication record; written and spoken English.
The 3-year position will be based Bangladesh, with a competitive compensation and benefit package. IRRI provides a multicultural work environment that reflects the values of gender equality, teamwork, and respect for diversity. Women are encouraged to apply. Interested candidates should submit their application to IRRIRecruitment@irri.org. Screening will start on 15 September 2011 and will continue until a suitable candidate has been found. Only short-listed candidates will be contacted. The full position description may be found at irri.org

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Conference Proceedings

Webcast presentations of Open Source GIS Conference 2011
The webcasts of presentations of Open Source GIS 2011 Conference (OSGIS 2011) including the plenary presentations from OGC-OSGeo Interoperability day are now available.

INSPIRE 2011 Conference Report
27 June – 2 July, Edinburgh, UK

2011 Esri Asia Pacific User Conference Proceedings

ISDE Working Group Meeting on Digital Earth Vision to 2020
In March 2011, the International Society for Digital Earth held a working group meeting in Beijing on a Digital Earth Vision to 2020. The meeting brought together a diverse group of experts in an attempt to imagine how Digital Earth might evolve over the next decade. The Vision to 2020 is an updated reevaluation of the Digital Earth concept presented by Al Gore in 1998. This new vision takes into account the advances in technology made so far in the 21st century, considers changes in society and the ways people interact with technology, and anticipates the drivers that will affect future development.

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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.

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
October 2011		
3-4 October **"NEW"**	Whistler, Canada	**2011 GITA Pacific Northwest Chapter's 11th Annual Fall GIS Conference**
3-7 October	Taipei, TAIWAN	**32nd Asian Conference on Remote Sensing** "Sensing for Green Asia" (ACRS 2011)
5-7 October	Zanzibar Beach Resort, Tanzania	**6th ESRI Eastern Africa User Conference** **Call for Presentations** ESRI Eastern Africa invites you to share and discuss your GIS experiences by submitting a paper abstract for the upcoming conference in any of the following tracks: * Conference Track Sub-themes * Mapping & Charting and Public Safety Defence & Intelligence, Disaster Management, Law Enforcement, National Mapping & Charting * Government Demographics, Economic Development, Election Services, Land Records, Public Works, Urban Planning * Natural Resources Agriculture, Biodiversity Conservation, Environmental Management, Water Resources * Health Services and Education Higher Education, Public Health,

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		Research * Utilities Electric Generation, Transmission & Distribution, Telecommunications, Water & Sewerage * Transportation & Business Aviation, Highways & Roads, Logistics, Maritime Transportation, Railways, Real Estate **Abstract Submission** The deadline for abstract submission is 30 July 2011. Papers brochure for the guidelines of abstract submission and submit your abstract at http://www.esriea.co.ke/index.php/6th-esri-ea-user-conference or contact events@esriea.co.ke. **Map Gallery** ESRI Eastern Africa invites you to submit posters/banners of your GIS work done with ArcGIS software for display in the Map Gallery during the conference and for inclusion in the keynote presentations. All poster presenters will receive a 30% discount on conference registration. The poster submission deadline is the 24 September 2011. Contact events@esriea.co.ke for more details. **Registration** The Conference registration is now open and the Early Bird Registration deadline is 12 August 2011. ESRI Eastern Africa recommends that you register today and take advantage of the Early Bird Registration. Visit http://www.esriea.co.ke/index.php/6th-esri-ea-user-conference or contact events@esriea.co.ke for more information and registration. .
5 – 7 October	Melbourne, Australia	**Celebrating ten years of research and achievement Celebrating 10 Years (2001-2011)** Established in 2001, the CSDILA has been contributing to national and international knowledge and practise in the domain of Land Administration, SDI and spatial enablement for ten years. To celebrate ten years of research the CSDILA is proud to host a two day event titled "Beyond Spatial Enablement" to be held in Melbourne, October 2011 to discuss the future directions of spatial enablement.
~~10-18 October~~ **"NEW"**	Istanbul, Turkey	**World GIS Summit** **"The World GIS Summit" has been postponed to June 25-30, 2012."**
12-13 October **"NEW"**	Montreal, Canada	**Geomatics 2011** E-mail: info@acsg-montreal.ca
12-13 October **"NEW"**	Maryland, USA	**GeoTech 2011**
16-19 October **"NEW"**	San Antonio, Texas, USA	**GeoInt 2011**
17 – 19 October	Jakarta, Indonesia	Map Asia is now rebranded as **Asia Geospatial Forum**. Contact
20 - 21 October	Guilin, China	**ISPRS Workshop on Geospatial Data Infrastructure:** **From data acquisition and updating to smarter devices** **2011** **Contact** **Deadline for abstracts: CLOSED** 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.
24-26 October	Seoul, Korea	**High level forum on Global Geospatial Information**

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		Management This High level forum on Global Geospatial Information Management is being co-organized by the Korean National Geographic Information Institute (NGII Korea) and the UN Department of Economic and Social Affairs (UN-DESA), and supported by the Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP), the Permanent Committee for Geospatial Data Infrastructure of the Americas (PC-IDEA) and the Committee on Development Information, Science and Technology (CODIST) for Africa. **Draft programme**
24 - 27 October	Seoul, Korea	**United Nations Forum on Global Geospatial Information Management (GGIM)**
25 – 28 October	Paris, France	**FIG Commission 3 Workshop - The Empowerment of Local Authorities: Spatial Information and Spatial Planning Tools Website**
November 2011		
7 – 11 November	Abuja, Nigeria	**AfricaGIS 2011: A Geospatial Technology Revolution in Africa** Sub-themes: · Spatially-enabled Governance; · Enterprise GIS and Land Administration: the building blocks of sustainable development ; · New Trends: crowd-sourcing, volunteered geographic information (VGI), and web services in the cloud; · Business Geographic's: the geospatial advantage Please submit your abstracts to secretariat@eis-africa.org immediately.
14 – 16 November	Kuala Lumpur, Malaysia	**The International Conference on Informatics Engineering & Information Science (ICIEIS2011) Contact** University Technology Malaysia, Malaysia Nov. 14-16, 2011 All the papers will be reviewed and the accepted papers in the conference will be published in the *Communications in Computer and Information Science* (CCIS) of Springer Lecture Notes Series (www.springer.com/series/7899), and will be indexed in many global databases including ISI Proceedings and Scopus. In addition, selected papers after complete modification and revision will be published in the special issues journals. Researchers are encouraged to submit their work electronically. Submitted paper should not exceed 15 pages, including illustrations. Papers should be submitted electronically. All papers will be fully refereed by a minimum of two specialized referees. Before final acceptance, all referees comments must be considered. **Important Dates** ============== Submission Date : Aug. 1, 2011 Notification of acceptance: Aug. 20, 2011 Camera Ready submission : Aug. 30, 2011 Registration : Aug. 30, 2011 Conference dates : Nov. 14-16, 2011
14 – 16 November	Madrid, Spain	**ICERI2011, the International Conference of Education, Research and Innovation** **Abstract submission:** 14th July 2011 **Acceptance notification:** 1st September 2011 **Final Paper submission:** 29th September 2011
14 – 18	Pretoria,	**ISO/TC 211 Plenary**

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November	South Africa	33rd ISO/TC 211 Plenary and associated meetings ISO/TC 211 Geographic information/Geomatics is responsible for the ISO geographic information series of standards. 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.
14 – 18 November	Santiago, Chile	**UGI 2001** International Geographic Union "Regional Geographic Conference" **Contact** **Brochure & Call for Papers**
15 – 16 November	Seoul, Korea	Esri Korea, Inc. is proud to host the **7th Esri Asia Pacific User Conference**
15 – 17 November	Canberra, Australia	**Spatial@Gov2011**
21 – 24 November	Jakarta, Indonesia	**World Delta World Summit**
21 – 25 November	Wellington, New Zealand	**Surveying & Spatial Sciences Conference 2011**
22 – 25 November	Beijing	**United Nations International Conference on Space-based Technologies for Disaster Risk Management [UN SPIDER]** - Applications from interested professionals, experts and decision-makers are now being accepted. Please visit the Conference webpage and register for this event. The deadline for receiving applications: **30 September 2011**. Please note that incomplete applications as well as applications received after the deadline will not be considered so you are requested to take the time to complete all the necessary steps and complete all the required information, particularly if you need **funding support**. The event expects 200 disaster risk management and space-technology experts to participate in Beijing. For specific contributions to the proposed themes/sessions, for proposing a topic for technical presentation and for proposing to provide sponsorship to the event, please contact Mr. Shirish Ravan and/or Ms. Li Suju. For further information, contact: David Stevens, Programme Coordinator, [UN-SPIDER] United Nations Office for Outer Space Affairs.
29 November – 2 December	University of Melbourne, AUSTRALIA	**The State of Australian Cities** **Key Dates** Final papers due **31 OCT 2011**
29 November – 2 December	Suva, Fiji	**Pacific GIS&RS Conference 2011** Contact Since the first Pacific GIS&RS Conference in 1999, this annual event has attracted a lot of participants from as far as the Americas to the sunny islands most of us call home. Each year the range of GIS&RS technologies presented cover an array of applications including the management of resources of the small island Pacific nations. Shallow water bathymetry derived from satellite imagery, forest function maps to identify areas for to be protected, areas identified for developments in flood zones are some of the applications where the development of GIS&RS in the region have been applied in various sectors. As with previous conferences, there are no fees levied for those wishing to attend. Donations however are graciously accepted. This year's theme is Data Sharing, Better Mapping!

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		Send presentation title by 15 September 2011. Abstracts due by 2 November 2011.
December 2011		
5 - 7 December	Hue City, Vietnam	**The 9th International Conference on Advances in Mobile Computing and Multimedia (MoMM2011)** 15 July 2011: Full Papers (8 pages), Short papers, Demos and work in progress (5 pages) 15 September 2011: Acceptance Notification 15 October 2011: Camera-Ready Papers and Authors Registration The submitted papers should not exceed 8 pages and must follow the ACM guidelines . Contact
6 - 9 December	Singapore	**18th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-18)** PDF Brochure Contact APRSAF Secretariat APRSAF serves as an active forum to promote concrete cooperative space-related activities at the regional, Asia-Pacific level. APRSAF also aims to expand the peaceful uses of space technologies and their applications for sustainable development of countries in the region. APRSAF-18 is being jointly organized by the Singapore Space and Technology Association (SSTA), Centre for Remote Imaging, Sensing and Processing (CRISP) of the National University of Singapore, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan and the Japan Aerospace Exploration Agency (JAXA).
11 – 14 December	Abu Dhabi, UAE	**CALL FOR PAPERS** **The 6th International Conference for Internet Technology and Secured Transactions (ICITST-2011)** The ICITST is an international refereed conference dedicated to the advancement of the theory and practical implementation of secured Internet transactions and to fostering discussions on information technology evolution. The ICITST aims to provide a highly professional and comparative academic research forum that promotes collaborative excellence between academia and industry. **Full Paper Submission Date:** June 30, 2011 **Extended Abstract (Work in Progress) Submission:** July 31 Early Registration Deadline (Authors only): September 30, 2011 Late Registration Deadline (Authors only): November 15, 2011 **Participants Registration:** May 01 to December 01, 2011 For more details
January 2012		
10 – 12 January	University of BC, Vancouver, Canada	**Eighth International Conference on Environmental, Cultural, Economic and Social Sustainability.**
16 – 18 January **"AMENDED"**	UCLA, Los Angeles, USA	**EIGHTH INTERNATIONAL CONFERENCE ON TECHNOLOGY, KNOWLEDGE AND SOCIETY** Presenters may choose to submit written papers for publication in the fully refereed International Journal of Technology, Knowledge and Society. If you are unable to attend the conference in person, virtual registrations are also available which allow you to submit a paper for refereeing and possible publication in this fully refereed academic Journal. The **deadline** for the next round in the call for papers (a title and short abstract) is 11October. Proposals are reviewed within two weeks of submission.
February 2012		

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7 – 9 February **"NEW"**	Gurgoan, India	**India Geospatial Forum** **Important Dates to Remember**

India Geospatial Forum
Important Dates to Remember

Abstract Submission	November 11, 2011
Abstract Acceptance	November 30th, 2011
Author Registration	December 9th, 2011
Full Paper Submission	December 16th, 2011

Award to encourage young geospatial scientists

To encourage young researchers working in the areas of geospatial science and technologies, Rachapudi Kamakshi Memorial Trust has instituted the Rachapudi Kamakshi Memorial Gold Medal for 'Young Geospatial Scientist™.' The award, consisting of a gold medal, citation plaque and a certificate of merit, will be awarded annually during the biggest congregation of geospatial community in the country, India Geospatial Forum (previously known as 'Map India') during 8-9 February 2012.

April 2012

11 - 13 April	Lancaster, UK	Call for Papers, **GISRUK2012**, Lancaster University, 2012 ...

Call for Papers, GISRUK2012, Lancaster University, 2012

We are pleased to invite you to submit short (~1500 word) papers for the 20th annual GIS Research UK conference (GISRUK).

We welcome papers covering all aspects of theoretical and applied GIS research, particularly those within the following themes:
• Environmental Geoinformatics
• Open-Source GI
• Web2.0
• Qualitative GIS
• Spatial Ecology
• Health
• Emergency Response
• Landscape Visualisation
• Geospatial Semantics
• Location-Based Services
• Remote Sensing and Photogrammetry

The closing date for submissions is 25th November 2011. All papers will be subject to peer review with accepted papers allocated to oral and poster sessions accordingly. Conference proceedings including all papers accepted for oral and poster presentation will be made available as a free e-book (with ISBN) and as hardcopy for purchase via http://www.lulu.com.

The conference will be proceeded by a Open Source GeoSpatial software workshop and a Young Researchers Forum commencing on Tuesday 10th April 2012.

The keynote speakers for the conference will be:
- Pete Atkinson, University of Southampton, UK
- Mei-Po Kwan, Ohio State University, USA
- Tyler Mitchell, Executive Director, OSGeo, USA

For more information and submission details please visit the conference website: http://www.lancs.ac.uk/gisruk2012 or contact members of the local organising committee via gisruk2012@lancs.ac.uk . We look forward to receiving your submissions and welcoming you to Lancaster in 2012.

23 – 27 April **"NEW"**	Amsterdam, The Netherlands	GEOSPATIAL WORLD FORUM **Geospatial World Forum** **Theme:** Geospatial Industry & World Economy

May 2012

13-17 May	Quebec City,	**2012 Joint World Conference**

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"AMENDED"	Canada	**GSDI 13** and **Canadian Geomatics Conference (CCC)** hosted by **GEOIDE** Network 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: (1) a normal conference proceedings with abstracts and full articles (non-refereed and refereed), published on a USB drive or CD and archived on the web, (2) a pre-conference published book of fully refereed articles titled "Spatially Enabling Government, Industry and Citizens: Research and Development Perspectives" to be distributed to all conference participants and archived on the web, and (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. **In addition**, two separate calls arising from the joint conference are being issued for chapter submissions to two additional books: (1) "The Added Value of Scientific Networking: GEOIDE Network Experiences" to be distributed to all conference participants (Call for chapters at http://www.geoide.ulaval.ca/call-for-chapters.aspx), and (2) "3DGeo Info Conference Proceedings" (Springer) to be mailed after the conference to all 3DGeo Conference participants which will be a single track on Wednesday and Thursday (Call at http://www.3dgeoinfo2012.ulaval.ca/?page_id=48). **IMPORTANT DATES** Deadline for Submission of Abstracts: 15 November 2011 Deadline for Submission of Full Papers for Refereed Outlets: 15 November 2011 Conference Dates: 14-17 May 2012 **IMPORTANT LINKS** Joint Conference Call for Abstracts and Papers:http://www.gsdi.org/gsdiconf/gsdi13/papers.html Conference Website: http://www.gsdi.org/gsdi13 Past GSDI World Conference Proceedings:http://www.gsdi.org/gsdiConferences Past open access Books affiliated with the conference:http://www.gsdi.org/openaccessbooks Other Important Dates:http://www.gsdi.org/gsdiconf/gsdi13/dates.html
June 2012		
25-30 June "NEW"	Istanbul, Turkey	**World GIS Summit** **"The World GIS Summit" has been postponed to June 25-30, 2012."**
August 2012		
25 August – 1 September	Melbourne, Australia	**XXII International Society for Photogrammetry & Remote Sensing Congress** Email: isprs2012@icms.com.au
October 2012		
	Morocco	**10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE)**
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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