



**4th Caribbean GIS Conference**  
***Evolution and Next Steps***  
**August 25-29, 2008**  
**Grand Cayman**

The Urban and Regional Information Systems Association (URISA) is pleased to welcome you to its fourth conference focusing on the effective application of Geographic Information Systems (GIS) and other information technologies within the Caribbean. We are pleased to be hosting this year's gathering in the Cayman Islands. Previous conferences have taken place in Jamaica (2001), Barbados (2004) and the Bahamas (2006).

***Objectives of the Conference***

- To inform broad cross-section of Caribbean users about GIS technology and applications
- To share experiences regarding GIS implementation and management issues
- To establish new relationships with the vendor/consultant community
- To provide workshops and sessions that are application driven, and are relevant to the Caribbean community of GIS users
- To foster a Caribbean GIS network
- To assess the state of readiness of national and regional Spatial Data Infrastructures

**We hope the conference will be a valuable contribution to your professional development.**

**GISCI points earned for attending one workshop and this conference = .6 Education Points**

**Thank you to our hosts:**



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**CAYMAN LAND INFO**

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## URISA's 4<sup>th</sup> Caribbean GIS Conference Schedule

<b>Monday, August 25, 2008</b>					
8 AM – 5 PM	ESRI ArcGIS Course Room: Alsons – Monday & Tuesday				
<b>Tuesday, August 26, 2008 – Preconference Workshops</b>					
8:30 AM – 5:00 PM	GIS Program Management Room: Rembro	GIS Enterprise Architecture & System Integration Room: Kirk B		An Overview of Open Source GIS Software Room: Wilson	
5:00 – 6:30 PM	Opening Reception & Poster Session – Grand Cayman Ballroom & Foyer				
<b>Wednesday, August 27, 2008</b>					
9:00 – 11:00 AM	Opening Session , Keynote Address: Dave Maguire, ESRI - Room: Cayman Brac & Little Cayman				
11:00 -12:00	Refreshment Break				
12:00-1:00 PM	Sponsored Lunch				
1:00-2:30 PM	Land Registry and Cadastral Databases Room: Alsons	National and Regional Case Studies in Disaster Management Room: Little Cayman	Building Street Addressing Room: Wilson	View From Above Room: Rembro	
2:30 – 3:00PM	Refreshment Break				
3:00 – 4:30 PM	Land Use Planning Techniques Room: Rembro	Metadata Room: Alsons	Establishing a Successful GIS Room: Wilson	International Land Systems (ILS) Sponsor Session Room: Little Cayman	Cayman Land Info Sponsor Session Room: Cayman Brac
6:30 -10:00 PM	Reception at Ritz Carlton North Pool				
<b>Thursday, August 28, 2008</b>					
9:00 – 10:00 AM	Keynote Address: Vanessa Lawrence, Ordnance Survey - Room: Cayman Brac & Little Cayman				
10:00 -10:30AM	Refreshment Break				
10:30 – 12:00 Noon	Coastal and Marine Environment Room: Alsons	GIS-based Models for Disaster Management Room: Wilson	The Building Blocks for a Successful GIS Room: Rembro	Enterprise GIS Systems and Their Profitability Room: Little Cayman	
12:00-1:00 PM	Sponsored Lunch				
1:30 – 3:00 PM	Natural Resource Inventory and Management Room: Wilson	GIS for Disaster Preparedness & Post Disaster Reconstruction Room: Rembro	Spatial Data Infrastructure (SDI) Room: Little Cayman	Innovative Teaching: GIS in Schools Room: Alsons	
3:00 – 3:30 PM	Refreshment Break				
3:30 – 5:00 PM	GIS Integration for Planning and Project Design Room: Wilson	Effective Web-Based Delivery of Geospatial Data Room: Little Cayman	GIS Project Implementation Room: Alsons	Private Sector Advancements in the Use of GIS Data Room: Rembro	Digicel Sponsor Session Room: Cayman Brac
6:30 – 9:00 PM	Experience Cayman Islands Finest – Pedro St. James (Buses will leave the Ritz Carlton beginning at 5:45 PM)				
<b>Friday, August 29, 2008</b>					
9:00 – 10:30 AM	Conservation Planning Room: Wilson	Strategic Approaches to Disaster Management Room: Little Cayman	Metadata Jumpstart Room: Alsons	Blom Aerofilms Sponsor Session Room: Rembro	
10:30 –11:00AM	Refreshment Break				
11:00 AM – 12:30 PM	Conservation Planning: Systems and Methods Room: Wilson	GIS in Health Applications Room: Alsons	ESRI Sponsor Session Room: Little Cayman	HP/KirkISS Vendor Session Room: Rembro	
12:30– 1:30PM	Sponsored Lunch				
1:30 – 3:00 PM	Copyright Issues, Public Access and Privacy Room: Little Cayman		GIS Professional Certification Room: Wilson	GIS in Education and Training Room: Alsons	
3:00 - 3:30	Refreshment Break				
3:30 – 5:00 PM	Closing Session – Town Hall Meeting – Room: Little Cayman				

## *Welcome to URISA's 4<sup>th</sup> Caribbean GIS Conference*



*Alan Jones*

*This year's event promises to be one of the most comprehensive events of its type ever to be held in the Caribbean. As conference hosts, the Cayman Islands' Government and Cayman Land Info are pleased to support URISA in bringing together GIS professionals from around the region and further afield. We sincerely look forward to welcoming all conference participants to the Cayman Islands.*

*Our theme is "Evolution and Next Steps" and it is one which was deliberately intended to promote extensive open dialog and discussion on the current state of GIS development in the region and worldwide. Delegates are encouraged to focus on the ways in which a conceptual framework can be created to assist in enhancing regional collaboration between countries. This seems to be something which has been missing in the past. All too often it is easy to look at the "big picture", whereas it could be argued that what the region really needs are signs of concrete advancement on a smaller scale.*

*One particularly hot topic at the moment is how to obtain the requisite funding for development of a National GIS in countries with only limited economic resources. Is it possible, for example, for other countries to adopt and develop the GIS business model utilized by Cayman Land Info or the National Land Agency in Jamaica, whereby GIS applications, products, data and services are sold in order to generate much needed revenue?*

*The conference programme is extensive and includes a variety of pre-conference workshops and a specially developed ESRI ArcGIS training course on Monday and Tuesday. This year's event also offers two keynote addresses, one by David Maguire from ESRI on Wednesday, and one by Vanessa Lawrence of the UK's Ordnance Survey on Thursday.*

*In addition to the myriad of quality delegate speakers, the conference also offers a number of presentations by industry leading organizations. The exhibition hall is also completely sold out. There will be a raft of new technologies on display and experts available to provide delegates with answers to specific technical questions. Delegates are encouraged to register for and enter the map and poster competition. There will be many prizes for entrants with the overall winner taking home a new HP KırkıSS.*

*All-in-all a busy and most productive working week can be expected.*

*To help wind-down after a busy day, two landmark social events have been arranged by the hosts' Cayman Land Info team. On Wednesday, delegates are invited to the "Zebra Lounge" – a social and networking evening poolside at the Ritz, featuring food, drink and entertainment as well as some surprise giveaways. Come prepared to participate in the "black and white" dress theme.*

*On Thursday evening delegates will be transported to the Pedro St. James National Historic site. Featuring local and international cuisine, entertainment and fireworks, plus more surprise giveaways, another great evening is in store!*

*For the other evenings, delegates will benefit from discounts negotiated with a number of local restaurants.*

*Considerable investment from the Cayman Islands Government and Cayman Land Info has helped ensure that delegates are exposed to minimal additional cost during the conference and attendees are encouraged to avail themselves of the numerous sponsored refreshment breaks and lunches, as well as enjoy the evening socials. At various stages of the conference, generous sponsor donations have enabled some lucky attendees to go home with a brand new laptop (2 are donated by HP/KırkıSS), a Blackberry (2 donated by Digicel), or a specially commissioned custom painted laptop from the hosts Cayman Land Info.*

*On Friday afternoon there will be a unique opportunity to participate in a town hall style debating session during which all topical GIS matters will be addressed. Particular emphasis will be placed on the issue of whether organizations should charge for GIS data. Copyright protection will also be covered. Both keynote speakers will be in attendance and it is anticipated that a lively discussion will ensue. A "not to be missed" session in many ways, it will also be the session in which the lucky Cayman Land Info laptop winner will be announced.*

*I would like to thank the conference organizing committee and my dedicated team at Cayman Land Info for the hard work done over the last twelve months.*

*Welcome again to the Cayman Islands and enjoy the conference!*

*Alan Jones, Director of Lands & Survey, Cayman Land Info - Conference Chair*

## Conference Sponsors

URISA could not have hosted this event without the generous contributions of our sponsors:



**SPATIAL INNOVISION**



## URISA 2008 Caribbean GIS Conference Committee

As in previous years, the conference committee is comprised of a well-known group of GIS professionals representing government, academia and the private sector from across the region and the world.

### **Cayman Islands**

- Conference Chair: Alan Jones, Cayman Land Info, Grand Cayman, Cayman Islands
- Co-Chair: Garry Green, Cayman Land Info, Grand Cayman, Cayman Islands

### **Bermuda**

- Quinell Francis, CompuCAD

### **British Virgin Islands**

- Lisa Kay S. Lewis, GISP, National GIS Coordinator, Office of the Premier, Tortola

### **Guyana**

- Vijay Datadin, GIS Consultant, RedSpider

### **Jamaica**

- Cecille Blake, National GIS Coordinator, Ministry of Agriculture and Lands
- Valrie Grant-Harry, GISP, GIS Consultant

### **Trinidad & Tobago**

- Desmond Dougall, GISCAD Limited
- Jacob Opadeyi, University of the West Indies, Centre for Geospatial Studies

### **United Kingdom**

- Alan Mills, GIS Specialist, Alan Mills Consulting Ltd.

### **United States**

- Edsel B. Daniel, PhD, Vanderbilt University, Nashville, Tennessee
- Edwin Joseph, Grand Valley State University, Allendale, Michigan
- Peter Rabley, International Land Systems, Inc., Silver Spring, Maryland
- Steven R. Schill, PhD, The Nature Conservancy, Richmond, Utah

**The conference would not have been possible without the dedication and expertise of the Conference Committee!  
Thank you to you all!**

The Urban and Regional Information Systems Association (URISA) is a non-profit professional and educational association that promotes the effective and ethical use of spatial information and information technologies for the understanding and management of urban and regional systems. It is a multidisciplinary association where professionals from all parts of the spatial data community can come together and share concerns and ideas.

Since 1963, URISA has been the professional home of choice for Public Sector GIS and IT Executives.



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*The URISA Conference welcomes participants of any sex, age, race, color, nationality, and ethnic origin. It does not discriminate on the basis of sex, age, race, color, nationality, or ethnic origin in the administration of its policies. The URISA conference complies with the American with Disabilities Act. Educational programs planned and presented by URISA provide attendees with relevant and rewarding continuing education experience. However, neither the content (whether written or oral) of any course, seminar or other presentation, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any party coincident with the educational event, should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by URISA, or by its committees, Special Interest Groups, Chapters or other commissions.*

## Registration

Registration will take place in the foyer of the Ballroom Foyer during these hours:

Monday, August 25:	7:30 – 10:00 AM & 3:00 – 5:00 PM	Thursday, August 28	8:00 AM – 5:00 PM
Tuesday, August 26	7:30 AM – 6:30 PM	Friday, August 29	8:00 AM – 5:00 PM
Wednesday, August 27	8:00 AM – 4:30 PM		

*Note: It is very important to wear your name badge for access to conference sessions and events.  
In addition, be sure to bring the appropriate ticket to conference events (luncheons, etc).  
Also, do not leave personal items (laptops, purses, etc.) unattended in meeting rooms.*

**Thanks to Cayman Land Info, International Land Systems (ILS) , and Digicel for co-sponsoring the conference tote bags!**

## Solutions Exhibition - An Exhibitor Directory appears in this program.

During URISA's Caribbean GIS Conference, you can check out the very latest technology being offered by the top GIS and IT vendors — all in one place. Take this opportunity to compare and contrast the technology and services that are currently available to make your agency work more efficiently and effectively. Challenge the representatives to offer solutions and go home with the answers to your technology needs. The Exhibition is open during the following hours:

Tuesday, August 26:	5:00 – 6:30 PM
Wednesday, August 27:	11:00 AM – 3:30 PM
Thursday, August 28:	10:00 AM – 3:30 PM
Friday, August 29:	10:00 AM – 2:00 PM



## Internet Lounge

Several stations are set up in the exhibit hall for conference attendees to access their email and check in with the office and family during the conference. The Internet Lounge is available during exhibit hall hours only (for security reasons).

Thanks to our Telecommunications Sponsor, Digicel, and to HP/KirkiSS for providing this valuable service to the conference!

## Program Topics

The conference was organized via an abstract submission process. More than 100 submissions were received for the committee's review. The abstracts were submitted within the following topical categories and the sessions are organized according to these program tracks:

- Disaster Management, Law Enforcement, Public Health and Safety
- Standards, Policy and Management
- Land, Environment, Planning and Natural Resources
- Utilities, Business and Organizational GIS
- Hot Topics

Attendees may choose to go to all sessions in one program track or go to sessions in a variety of program tracks to meet your educational needs. In addition there are several sessions that are noted as SPONSOR Sessions. These are opportunities for our key sponsors to demonstrate products and services within a session format.



### ESRI ArcGIS Course

#### Room: Alsons

As part of ESRI's long-time commitment to URISA's Caribbean GIS Conference, ESRI is offering their ArcGIS Desktop II: Tools and Functionality course to conference attendees. Normally a three-day course, the instructor has consolidated the content to two full days. If you registered for the course, it will take place on Monday and Tuesday, from 8:00 AM – 5:00 PM each day. The course sold out quickly! If you missed it, be sure to get your questions answered at ESRI's exhibit booth or during the ESRI Sponsor Session.

## Conference Proceedings

Attendees will receive instructions to download the conference proceedings approximately 4-6 weeks after the conference.

**Thank you to GeoOrbis and CIREBA, our Bronze Sponsors, for sponsoring this important educational resource.**

**Thank you to Digicel for arranging for complimentary wireless access for conference attendees within the conference areas!**

## TUESDAY PROGRAM

### Pre-Conference Workshops

8:30 AM – 5:00 PM

For over forty years, URISA has been the center for information exchange among professionals dealing with urban and regional issues. URISA Certified Workshops have been and are considered some of the best real-world and practical learning experiences for attendees. There is an additional fee to attend a workshop. Workshops are full-day courses designed to be classroom experiences and are limited in size. If you did not pre-register for a workshop, check at the registration desk for availability.

#### GIS Program Management

**Room: Rembro**

*Instructors: Peter Crowell, GISP, Crowell-Schulte Information Technology Consultants, Frankfort, Kentucky USA (URISA Past President)  
Valrie Grant-Harry, GISP, GIS Consultant, Jamaica (URISA Caribbean Chapter President)*

Today, most government organizations have some type of GIS programs in place. They vary from being in their early stages, to rebuilding or tuning up phase, to completely being changed as new technologies and applications emerge. This workshop is designed to provide guidelines for managing your GIS program. It will look at the various organizational and technical issues program managers must address in order to develop a successful GIS program. The discussions will include managing all aspects of a GIS program from staffing and budgeting to procuring technology and working with vendors. A variety of real world examples will be presented showing a range of GIS programs and their implementations. This workshop presents an overview of successful and unsuccessful techniques for implementing GIS.

*Specific topics include:*

- Program development
- Project management techniques
- Budgeting
- Staffing
- Sustaining program support
- Managing consultants and vendors

#### GIS Enterprise Architecture & System Integration

**Room: Kirk B**

*Instructor: Tom Pattison, Senior Enterprise GIS Consultant, ESRI, Redlands, California USA*

The objective of this workshop is to examine both GIS enterprise architecture and the integration between various systems (GIS included) in an organization. Workshop instructors will examine the past, current, and future of GIS within an enterprise context, and apply the experience, discipline, and future direction of the Information Systems (IS) profession to Geographic Information Systems (GIS). This workshop will provide GIS professionals with an understanding of some of the complex technical and specific technical management issues that must be addressed when developing a corporate GIS.

*Specific topics include:*

- Definitions of Enterprise GIS
- Definitions of System Integration
- Architecture design and development
- Management and phasing of enterprise environments
- Staffing and maintenance of enterprise environments
- Network, data and web architectures and roles in the enterprise
- Open systems and standards
- Future issues and trends

#### An Overview of Open Source GIS Software

**Room: Wilson**

*Instructor: Sara Yurman, GISP, Spatial Focus, Decatur, Georgia USA*

Free and open source software (FOSS) has been offering choices to computer users for a number of years. Over the past few years the open source choices in GIS have been broader and more capable than ever before. This workshop will focus on GIS open source software. It will give an overview of current developments from technical and management perspectives. Selected packages and their applications in various projects will be demonstrated and discussed.

*Specific topics include:*

- Open Source GIS background and development
- Overview of Open Source GIS spatial functionalities
- Live demonstration
- Interoperability: The Open Source GIS spectrum
- Planning and implementation issues

#### Networking Reception & Poster Session

5:00 – 6:30 PM



Connect with fellow attendees during the Networking Reception taking place in the Exposition. Check out the technology products and services being offered by the exhibiting organizations and enjoy some refreshments in an informal atmosphere. Take this first opportunity to compare and contrast the technology and services that are currently available to make your work more efficient and effective. Challenge the representatives to offer solutions and go home with the answers to your technology needs.

Also, spend some time reviewing the poster submissions for this year's conference. The winner of the Poster Competition will be announced during the Opening Session tomorrow morning.

Thanks to **Re/MAX** for co-sponsoring the Poster Session and to **Digicel** for sponsoring the reception.

#### Poster Session Participants (as of August 18):

- Mehmet Zeki Coskun, Istanbul Technical University Turkey  
*Disaster Information System & Meteorological Early Warning System for City of Rize, Turkey (RABIS &EUS)*
- Jeremy Olynik - Department of Environment – Cayman Islands Government  
*Marine and Terrestrial Habitat Mapping to Develop a Biodiversity Action Plan for the Cayman Islands*
- Justin Moat - Arnaud Mansat, Alan Mills, Martin Hamilton  
*Montserrat Vegetation Mapping*
- Edmarine Lowe-Ching, National Works Agency  
*GIS Chronicles at National Works Agency*
- Darren Enns, MCIP, Cayman Islands Government  
*Using GIS to Inform Agricultural Land Use Policy on Grand Cayman*
- Miguel Garriga, Geographic Systems LLC  
*Anguilla Critical Infrastructure*

**Then head out to explore Grand Cayman for the evening!**

## CONFERENCE PROGRAM — WEDNESDAY

Morning Coffee/Tea Co-Sponsored by Cayman National Bank

Wednesday, August 27, 2008

9:00 – 11:00 AM

### Opening Session & Keynote Address

#### Room: Cayman Brac & Little Cayman

Alan Jones, Chairman of this year's conference will welcome attendees to the conference and introduce some distinguished guests. Mr. Jones will have the pleasure of introducing the Honourable Kurt Tibbetts, Cayman Government Business Leader, who is a great advocate of GIS for the Cayman Islands.

Peter Crosswell, GISP, will greet attendees in his capacity of URISA Past President, and Valrie Grant-Harry, GISP will address the conference as President of URISA's Caribbean Chapter. She will then recognize Jacqueline daCosta for her accomplishments and insight as a champion of GIS in the Caribbean.

**Cayman Land Info**, Diamond Sponsor of the conference this year, will provide opening remarks to welcome conference attendees.

Garry Green, Co-Chair of the 2008 conference will then interview a number of key GIS professionals in the region to determine the "Status of Caribbean GIS" and explore where the technology is heading.

We will then have the pleasure of meeting Dr. David Maguire, Chief Scientist and a corporate director for ESRI in Redlands, California. Dr. Maguire will deliver the keynote address:

### Keynote Address

#### Spatial Analysis and Modeling in a GIS World

GIS software systems contain many tools for spatial analysis and modeling. Many of them have easy-to-use graphic user interfaces and it has become relatively simple to analyze and model spatial data. However, without a clear understanding of the scientific context for using GIS, it is possible that any results obtained will be incorrect, misunderstood, or misused. This keynote presentation will provide an overview of the main toolsets available in contemporary GIS software for spatial analysis and modeling. It will also highlight the importance of understanding the science behind the tools. Finally, a number of demonstrations will illustrate how spatial analysis and modeling methods are being used in geographic information science applications.



David Maguire - Chief Scientist, ESRI

*Dr. Maguire is the Chief Scientist and a corporate director for Environmental Systems Research Institute, Inc. (ESRI). He joined the ESRI family in 1990 as the technical director, later becoming the managing director for ESRI's international office in the United Kingdom. Dr. Maguire has authored or co-authored over 100 books and publications on GIS, including the industry recognized Geographical Information Systems and Geographic Information Systems and Science. He received his doctorate degree in Geography from the University of Bristol in 1983.*

Coffee/Tea Co-Sponsored by GISCAD LTD

11:00 AM – 12:00 Noon – Exhibit Hall Break

12:00 Noon – 1:00 PM

Conference Luncheon – Co-Sponsored by ILS

### Educational Sessions

1:00 – 2:30 PM

#### Land, Environment, Planning and Natural Resources

##### Land Registry and Cadastral Databases

###### Room: Alsons

The basemap of land parcels and cadastral management for a range of countries will be discussed in this session.

*Session Moderator: Theresa Anduze-Parris, Office of the Lieutenant Governor, St Croix, US Virgin Islands*

- MultiCadastre - Towards Coherent Parcel Information for The Bahamas  
*Tex Turnquest, Department of Lands and Surveys, Nassau, Bahamas*  
*Daniel Heiner, Nickolay Gnidenko, and Peter Rabley, International Land Systems (ILS) Inc., Silver Spring, Maryland, USA*
- Integrating LRS and GIS at the NLA, Challenges and Successes  
*Mark Samuels, International Land Systems Inc., Silver Spring, Maryland, USA*
- Creating a Cadastral Dataset for the British Virgin Islands  
*Norval Young and Michael Potter, Land & Survey Department, Road Town, British Virgin Islands*

#### Disaster Management, Law Enforcement, Public Health and Safety

##### National and Regional Case Studies in Disaster Management

###### Room: Little Cayman

This session will look at examples of Disaster Management Applications using GIS around the region.

*Session Moderator: Valrie Grant-Harry, GISP, GIS Consultant, Kingston, Jamaica*

- The Caribbean GIS Community and its Response to Disasters: Lessons Learnt from MapAction LAC  
*Vijay Datadin, Caribbean GIS, Georgetown NIL, Guyana*
- A Case Study: Tropical Storm Noel, The Bahamas  
*Sharon Griffith and Howard Barrett, Ministry of Works & Transport, Nassau, Bahamas*
- Geographic Information Systems and Their Employment In The Management for Risks Reduction of Disasters in Cuba  
*Silvio Rodríguez Hernández, GEOCUBA Investigation and Consultancy, Playa, Havana, Cuba*

#### Standards, Policy and Management

##### Building Street Addressing

###### Room: Wilson

The Caribbean, as is true of many emerging markets, lacks a consistent and complete street address database. This database is essential for efficient use of GIS and the sharing of information. This session highlights several examples of implementations in the Caribbean as well as a best practice example.

*Session Moderator: Edsel Daniel, Vanderbilt University, Nashville, Tennessee, USA*

- Street Addressing in the British Virgin Islands  
*Lisa Kay S. Lewis, GISP, National GIS Coordinator, Office of the Premier, Tortola, British Virgin Islands*
- Global Address Standard  
*Sara Yurman, GISP, Spatial Focus, Decatur, Georgia, USA*
- Street Addressing in the Cayman Islands  
*Garry Green and Michael Ponder, Cayman Land Info, Grand Cayman, Cayman Islands*

## CONFERENCE PROGRAM — WEDNESDAY

### Hot Topics

#### View From Above

##### Room: Rembro

Aerial photography, satellite imagery and LiDAR are all fundamental components of a quality GIS. This session examines some technical issues and new developments in the field.

*Session Moderator: Edwin Joseph, Grand Valley State University, Allendale, Michigan, USA*

- The Impact of Mapping Operation Using LiDAR to Enhance a Fiscal and Legal Cadastre: A Grenada Case Study  
*Raphael Stephen, University of Ulster, Grenada*
- Automatic Utility Feature Extraction from High Resolution Imagery  
*Anthony Sani, SANI-International Technology Advisors, Inc., Markham, Ontario, Canada*
- Capacity Assessment of Geographic Information Systems Capabilities of the Caribbean  
*Jacob Opadeyi, University of the West Indies, Centre for Geospatial Studies, St Augustine, Trinidad and Tobago*

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### Afternoon Refreshments Co-Sponsored by Cayman National Bank

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### 3:00-4:30 PM Educational Sessions

#### Land, Environment, Planning and Natural Resources

##### Land Use Planning Techniques

##### Room: Rembro

In this session, strategic planning applications will be demonstrated and how GIS data and techniques can assist the process.

*Session Moderator: Lisa Kay S. Lewis, GISP, National GIS Coordinator, Office of the Premier, Tortola, British Virgin Islands*

- Grand Cayman: A Land Use Analysis in Support of the Development Plan  
*Darren Enns, Cayman Islands Planning Department, George Town, Cayman Islands*  
*Haroon Pandohie, Cayman Island Government, George Town, Cayman Islands*
- Manchester Long Term Sustainable Development Plan  
*Ryan Wallace, Manchester Parish Council, Mandeville, Jamaica*  
*Phil Rodrigues, Manchester Parish Development Committee, Mandeville, Jamaica*
- Grand Cayman: Lands for Public Purposes (LPP)  
*Darren Enns, Cayman Islands Planning Department, George Town, Cayman Islands*

#### Standards, Policy and Management

##### Metadata

##### Room: Alsons

An important but overlooked element of constructing and maintaining a successful GIS is the need to describe information about the GIS data being used. This session will explore the ways in which metadata can be easily stored and used to maintain an efficient GIS.

*Session Moderator: Alan Mills, Alan Mills Consulting, UK*

- Metadata Development – The Big Picture  
*Valrie Grant-Harry, GISP, GIS Consultant, Jamaica*
- Metadata Profile Implementation in the Cuban Spatial Data Infrastructure  
*Dalia Carrillo, Institute of Geology & Paleontology, Havana, Cuba*
- Metadata for Managers  
*Lynda Wayne, GISP, Federal Geographic Data Committee-GeoMaxim, Asheville, North Carolina, USA*

### Hot Topics

#### Establishing a Successful GIS

##### Room: Wilson

This session discusses the fundamentals and the possible pitfalls. It further outlines options for data sharing and collaboration.

*Session Moderator: Quinell Francis, Compu-CAD Training & Services Limited, Hamilton, Bermuda*

- A Guide to Beginning a GIS  
*Douglas Culbert, Barkley Caribbean, Teeswater, Ontario, Canada*
- Geospatial Open Source: An Alternative Business Model  
*Neal Niemiec, Autodesk, Westminister, Massachusetts USA*
- Sharing Geospatial Data across the Enterprise  
*Jason Briley, TerraGo Technologies, Atlanta, Georgia USA*  
*Scott Lee, TerraGo Technologies, Atlanta, Georgia USA*

### Sponsor Session

#### International Land Systems (ILS) - Platinum Sponsor

##### Room: Little Cayman

ILS will present its low cost integrated land information solutions which combines proven document management technology for land offices along with ILS's new ESRI based cadastral management tools.

ILS staff will present live processing of data and show working examples from the Bahamas and elsewhere in the Caribbean to demonstrate its applicability to land offices throughout the Caribbean.

30-day licenses of all products will be provided to all attendees.

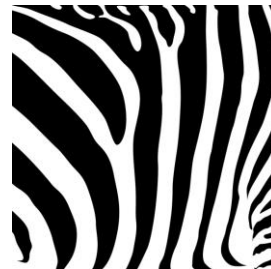
### Sponsor Session

#### Cayman Land Info- Diamond Sponsor

##### Room: Cayman Brac

Cayman Land Info will present several current projects that demonstrate a range of the key services and technologies that are available. The EMMA and ELRA applications will be demonstrated along with the Cayman Land Info website.

Central to these presentations will be the ability to demonstrate the ability to deliver bespoke real world solutions to a variety of customers with a variety of needs and budgets. Regional collaboration with associated consultancy, training and general assistance right through to a formal Government to Government agreement will all be discussed. GIS, mapping, database and systems specialists will be available for technical questions.



**6:30 - 10:00 PM**  
**A Black & White Evening at the Zebra Lounge**  
**North Sound Pool**  
**Ritz Carlton**

- Full Dinner Buffet
- Cocktails • DJ • Prizes •
- Smart Casual Black & White Attire Preferred •

Join your fellow attendees for a 'cool' night at the Zebra Lounge. Get into the spirit and wear black and white to the party!

The social events at the URISA Caribbean Conference are always the best opportunity for networking and strengthening your professional connections. Looking forward to seeing you there!

**Sponsored by Cayman Land Info, HP/KirkiSS, RE/MAX and Blom!**

## CONFERENCE PROGRAM — THURSDAY

*Morning Coffee/Tea Co-Sponsored by Scotiabank*

**9:00 – 10:00 AM**

**Room: Cayman Brac & Little Cayman**

This morning's program will begin with a few announcements followed by a keynote address from Vanessa Lawrence.

### Keynote Address

**Spatial Information: Powering Informed Decision-Making in an Information-Rich Society**



**Vanessa Lawrence CB,**

**Director General and Chief Executive, Ordnance Survey**

The information under-pinning decision-making is changing. All across the world, the value of 'location' is being recognised as a major contributor to enhancing the accuracy of decision-making. For generations, both the public and the private sector have used revenue, time and cost as basic building blocks on which to make decisions. Now the dimension of 'location' can be added to that list.

It is more than 150 years since a contaminated water pump was identified as the source of a major cholera outbreak in London, England. Dr John Snow illustrated the cause by plotting the locations of cholera deaths on a map which clearly showed a cluster among properties near the pump in Broad Street, Soho. It was an early example of spatial analysis supporting incident detection. However the concept of using location, universally as a key driver to decision-making, was overtaken by the use of financial analysis. It is only in the last five years that 'location' has become more widely used in decision-making.

Ordnance Survey is a household name in England, Scotland and Wales synonymous with mapping every corner of Great Britain. It is embedded within the digital information industry and plays a major part in underpinning decision-making in both the public and private sector in Great Britain. In addition to traditional paper maps, Ordnance Survey provides definitive and intelligent digital geographic data, benefiting tens of millions of people every day. It is pervasive in crucial public sector activities such as locating suitable derelict sites for house building; planning new access to the countryside; controlling the flow of urban traffic; helping the police detect crime; identifying areas of deprivation and social exclusion; and locating public services more effectively. In the private sector, the uses are perhaps even wider, ranging from customer profiling; calculating insurance premiums for flood-risk properties; under-pinning in car navigation systems and many other mobile applications; to identifying pollution-prone sewers before they pollute.

Together with over 500 private sector partners, Ordnance Survey has taken a positive and proactive position in supporting the widespread adoption and maturing use of spatial information across all sectors of society. Ordnance Survey provides the national consistent maintained georeferencing and geodetic infrastructure for Great Britain. Ordnance Survey partners produce the software solutions that use the spatial information for decision-making. Spatial information is now acknowledged in Great Britain as becoming increasingly important in today's society. However, increased usage of spatial information requires users to now understand 'the provenance of the content' of that information upon which they are making key decisions; both in terms of how the content was collected, and is now stored and

maintained. In Great Britain, the Government has recognised that spatial information is more than geographical information from the National Mapping Agency, Ordnance Survey. It is now recognised that many Departments of State and Local Government create and maintain spatial information and that a coordinated policy to drive increased understanding of the 'content' of the data is required. It is expected that this work will increase the power of informed decision-making in already information-rich public and private sector societies. An update on this work will be provided at the conference.

*Vanessa Lawrence is the first woman to head Great Britain's national mapping agency and one of the youngest Director Generals in Ordnance Survey's 217-year history. She is a world-renowned expert in how geographic information systems (GIS) can improve decision making at all levels of government and business. She is the official adviser to the British Government on mapping, surveying and geographic information.*

*Vanessa is the Honorary Vice-President of The Geographical Association and a member of the Council of the Royal Geographical Society and of the University of Southampton. Vanessa is a Visiting Professor at the University of Southampton and Kingston University.*

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Following Ms. Lawrence's presentation, a representative from **Digicel** (Emerald Sponsor of this conference) will provide some remarks.

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**10:00-10:30 Refreshment Break in Exhibit Hall**  
*Coffee/Tea Co-Sponsored by Cayman National Bank*

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**10:30 AM -12:00 Noon**  
**Educational Sessions**

### **Land, Environment, Planning and Natural Resources**

#### **Coastal and Marine Environment**

**Room: Alsons**

Coastal and marine zones are of prime importance to the Caribbean and this session will look at mapping, evaluating and assessing their future at a country and regional scale.

*Session Moderator: Steven Schill, The Nature Conservancy, Orem, Utah, USA*

- Utilizing GIS in an Economic Valuation of Shoreline Protection Services  
*Sean Padmanabhan, Institute of Marine Affairs, Trinidad and Tobago*
- Caribbean Marine Atlas  
*Sean Padmanabhan, Institute of Marine Affairs, Trinidad and Tobago*
- Using GIS Data and Tools to Build Community Consensus and Facilitate Coastal and Marine Conservation Planning in the US Virgin Islands  
*Shawn Margles, The Nature Conservancy, US Virgin Islands*

### **Disaster Management, Law Enforcement, Public Health and Safety**

#### **GIS-based Models for Disaster Management**

**Room: Wilson**

During the last decade, there has been tremendous development in Modeling using GIS. This session will look at the use of GIS in Disaster modeling in the different islands of the Caribbean.

*Session Moderator: Haroon Pandohie, Cayman Island Government, George Town, Cayman Islands*

- Modeling Sea Level Rise Scenarios In the Cayman Islands  
*Nick Robson, Cayman Institute, Grand Cayman, Cayman Islands*  
*Jim Knapp, Butterfield Bank (Cayman) Limited, Grand Cayman, Cayman Islands*
- A GIS-based Approach to Coastal Risk Mapping and Impact Quantification  
*Jacob Opadeyi, University of the West Indies, St Augustine, Trinidad and Tobago*
- Hurricane Modeling Preparation and Response in the Cayman Islands  
*James Hemphill, Cayman Land Information, Grand Cayman, Cayman Islands*  
*Ryan Pream, Cayman Land Information, Grand Cayman, Cayman Islands*

## CONFERENCE PROGRAM — THURSDAY

### Standards, Policy and Management

#### The Building Blocks for a Successful GIS

Room: Rembro

With all of the discussion swirling around metadata and SDI, the need for a national spatial reference system (NSRS) is almost always overlooked. Yet many nations in the Caribbean are constrained due to an outdated NSRS that is out of step with modern GPS infrastructure and equipment. This session explores what can be done to implement a modern NSRS.

Session Moderator: Desmond Dougall, GISCAD Limited, Port of Spain, Trinidad and Tobago

- Building An Accurate GIS  
*Eric Linzey, NOAA - National Geodetic Survey, Geodetic Standards and Application Branch, Silver Spring, Maryland, USA*
- Improving Access to an Accurate Geodetic Reference Frames in the Caribbean/Central America Region Using GPS  
*David Doyle, NOAA - National Geodetic Survey, Silver Spring, Maryland, USA*
- GPS Infrastructure and the Development of the Spatial Data Infrastructure  
*Gregory Peake, Spatial Innovision Limited, Kingston, Jamaica*

### Hot Topics

#### Enterprise GIS Systems and Their Profitability

Room: Little Cayman

Developing a successful Enterprise GIS is not an easy task and it certainly requires significant investment. This session examines how to put the right systems in place and how to leverage the same in order to generate self-sustaining revenue.

Session Moderator: Craig Batstone, GeoOrbis, St James, Barbados

- The Issues Involved in the Establishment of a National Clearinghouse for Jamaica  
*Damian Graham, Spatial Innovision Ltd, Kingston, Jamaica*
- Towards an Enterprise GIS System for the BVI  
*Kyron Adams, Town and Country Planning Chief Ministers Office, Tortola, British Virgin Islands*  
*Lisa Kay S. Lewis, GISP, National GIS Coordinator, Office of the Premier, Tortola, British Virgin Islands*
- Making Geographic Information Systems (GIS) Profitable  
*Karen Edwards and Sharon Patterson, National Land Agency, Kingston, Jamaica*

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12:00-1:00 PM

Conference Luncheon Co-Sponsored by Blom, HP/KirkISS & ReMAX

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1:30-3:00

### Educational Sessions

#### Land, Environment, Planning and Natural Resources

##### Natural Resource Inventory and Management

Room: Wilson

Techniques for distinguishing natural resources, managing those resources using GIS and displaying them to managers will be discussed.

Session Moderator: Steven Schill, The Nature Conservancy, Orem, Utah, USA

- GIS & Citizen Science for Watershed Management in Tobago, West Indies  
*Vijay Datadin, Caribbean GIS, Georgetown, Guyana*
- Web-Enabled Application in Water Resources  
*Bernard Williams, Water Resources Authority, Kingston, Jamaica*
- Mapping Spiny Aster Infestations with QuickBird Imagery  
*Shobha Sriharan, Virginia State University, Petersburg, Virginia, USA*

#### Disaster Management, Law Enforcement, Public Health and Safety

##### GIS for Disaster Preparedness & Post Disaster Reconstruction

Room: Rembro

This session argues for the need to benchmark disaster risk management efforts and provides examples on the use of GIS for vulnerability assessment and scenario modeling. The session is geared to those who need to justify the investment in GIS technology as a tool for managing socio-economic development.

Session Moderator: Alan Mills, Alan Mills Consulting, UK

- GIS in Hazard Mapping and Vulnerability Assessment on Montserrat  
*Lavern Rogers-Ryan, Government of Montserrat, Physical Planning Unit, Montserrat*
- Modeling Floods with GIS for the Prevention of Disasters in the Dominican Republic  
*Quinta Ana Pérez Sierra, Lic. Dimitri Herrera, Dr. Lucio Colaiacomo, Instituto Tecnológico de Las Américas (ITLA), Santo Domingo, Dominican Republic*
- Disaster Risk Management Benchmarking Tool: A Mechanism for Disaster Risk Reduction in the Caribbean  
*Jacob Opadeyi, University of the West Indies, St Augustine, Trinidad and Tobago*

### Standards, Policy and Management

#### Spatial Data Infrastructure (SDI)

Room: Little Cayman

SDI is being touted as the new “hot thing” in GIS. This session will explore ways in which SDI might work for the Caribbean and provides two examples of SDI projects underway in the region.

Session Moderator: Sergio Hernandez, Trimble, Tampa, Florida USA

- In Search of Policies to Support the Implementation of SDIs in the Caribbean  
*Garfield Giff, Delft University, Delft, The Netherlands*
- Spatial Data Infrastructure for the Republic of Cuba – IDERC  
*Dalia Carrillo Delgado, Institute of Geology & Paleontology, Havana, Cuba*
- Creating a Framework for Data Sharing and Access with the Jamaican National Spatial Data Infrastructures (NSDI)  
*Damian Graham, Spatial Innovision Ltd, Kingston, Jamaica*

### Hot Topics

#### Innovative Teaching: GIS in Schools

Room: Alsons

This session examines the role of GIS in improving students’ understanding of geographic concepts.

Session Moderator: James Barton, P.E, Chen and Associates, Fort Lauderdale, Florida USA

- Strategies to Improve Geographic Literacy in K12 Using GIS, GPS and Multimedia  
*Laurel Walker and Kendell Joseph, Grand Valley State University, Allendale, Michigan, USA*
- GIS in Schools Pilot Project - St. Kitts and Nevis  
*Edsel Daniel, Vanderbilt University, Nashville, Tennessee, USA*
- GIS in Schools  
*Lisa Kay S. Lewis, GISP, National GIS Coordinator, Office of the Premier, Tortola, British Virgin Islands*  
*Nancy Woodfield-Pascoe, BVI National Parks Trust, Tortola, British Virgin Islands*

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Afternoon Break Co-Sponsored by GISCAD LTD

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**3:30-5:00**

**Educational Sessions**

**Land, Environment, Planning and Natural Resources  
GIS Integration for Planning and Project Design**

**Room: Wilson**

This session explores how emerging GIS technologies can be implemented in a variety of disciplines for both planning and project design. Case studies will be presented on how GIS is being integrated in agriculture extension programs as well as how the technology is being used to enhance project planning and design in the engineering and mining sectors. These case studies demonstrate how flexible GIS is for improving the speed, accuracy, and execution of projects in a variety of disciplines.

*Session Moderator: Lisa Kay S. Lewis, GISP, National GIS Coordinator, Office of the Premier, Tortola, British Virgin Islands*

- Integrating GPS, GIS, and Multimedia Technology for Extension Program Planning  
*Edwin Joseph, Grand Valley State University, Allendale, Michigan, USA*
- GIS in Engineering  
*James Barton, P.E, Chen and Associates, Fort Lauderdale, Florida USA*
- The Role of GIS & GIS-Based Technologies In Modernizing Mine Planning in the Bauxite Industry - A Jamaican Case Study  
*Tanya Hay, St. Ann Jamaica Bauxite Partners, Discovery Bay, St. Ann Jamaica*

**Hot Topics & Disaster Management**

**Effective Web-Based Delivery of Geospatial Data**

**Room: Little Cayman**

Web-based GIS is becoming increasingly popular. This session will highlight disaster management applications and the role of the Internet in making these more effective. It will also discuss the delivery of geospatial information via the Web.

*Session Moderator: Edsel Daniel, Vanderbilt University, Nashville, Tennessee, USA*

- The Use of WebEOC and GIS in HMCI's All Hazard Planning  
*Donald Druitt, Hazard Management Cayman Islands, Grand Cayman, Cayman Islands*
- Web Based Delivery of Government Geospatial Information and Services  
*Carleen Ghio and Ryan Pream, Cayman Land Info, Grand Cayman, Cayman Islands*
- Use of GIS-Based Internet Technology to Facilitate Project Coordination, Delivery of Workproduct, and Access to Spatially Referenced Information for Infrastructure Facility Operations  
*Larry Newman, P.E., President, Spatial Systems Associates, Inc., Columbia, Maryland USA*

**Standards, Policy and Management  
GIS Project Implementation**

**Room: Alsons**

Effective planning and management of GIS projects is often overlooked, yet best practices have shown it is essential to a successful implementation. This session will explore these themes as well as present the experience from the USVI.

*Session Moderator: Jason E. Briley, GISP, TerraGo Technologies, Inc, Atlanta, Georgia, USA*

- A Project Management Approach to GIS  
*Douglas Culbert, Barkley Caribbean, Teeswater, Ontario, Canada*
- A Roadmap for Effective Mainstreaming of GIS in the Caribbean  
*Jacob Opadeyi, University of the West Indies, Centre for Geospatial Studies, St Augustine, Trinidad and Tobago*
- Virgin Islands Geospatial Information Council: Background, Overview and Update  
*Theresa Anduze-Parris, Office of the Lieutenant Governor, St Croix, US Virgin Islands*

**Hot Topics**

**Private Sector Advancements in the Use of GIS Data**

**Room: Rembro**

GIS data is often used in products developed by the private sector. This session focuses on some important regional examples.

*Session Moderator: Sean Rowe, Manchester Parish Council, Mandeville, Manchester, Jamaica*

- GeoTrac Vehicle, Asset and Personal Tracking Service  
*Desmond Dougall & Sudesh Botha, GISCAD Limited, Port of Spain, Trinidad and Tobago*
- From Ledgers to Real Time with AVL  
*Craig Batstone, GeoOrbis Inc, St James, Barbados*
- Capturing Field Data with Video: A New Approach  
*Tom Powers, Osmose Utilities Services Inc, East Syracuse, New York, USA*

**Sponsor Session**

**Digicel - Emerald Sponsor**

**Room: Cayman Brac**

**Come and hear about Digicel's products and services during this session.**



**Experience Cayman Islands Finest  
6:30 - 9:00 PM  
(Leave Ritz at 5:45 PM)**

Attendees will be transported via buses (provided by the National Roads Authority) to Pedro St. James , the National Historic Site of the Cayman Islands!

*At a time in the Cayman Islands when most people lived in tiny, thatch-covered houses, a wealthy Englishman, created an astonishing 3-story building called Pedro St. James. In the 1990s, the Government of the Cayman Islands purchased Pedro St. James and painstakingly restored the Great House to the splendor of its 18th century heritage. Today, visitors can stroll through the imposing edifice with its period furniture and authentic artifacts to experience what life was like so long ago in Cayman's history.*

Highlights of this sure-to-be memorable event:

- Pedro Castle will be open for guided tours by staff dressed in period costumes
- Audio/visual show in the theatre
- An exhibition of local arts and crafts by the Cayman Visual Arts Society
- A full dinner buffet will be presented with a mixture of traditional Caymanian cuisine and also International dishes
- Free bar with wine and beer (sponsored by Caybrew)
- Free rum tasting and rum/coke bar courtesy of Tortuga Rums
- Old time reggae and soca/calypso music provided by live performances by the North Side Kitchen Band and a DJ
- Prizes provided by HP KirkiSS and Digicel
- An exciting surprise will finish off the evening

*The evening is sponsored by the Ministry of District Administration, Planning, Agriculture and Housing and Cayman Land Info.*



## CONFERENCE PROGRAM – FRIDAY

*Morning Coffee/Tea Co-Sponsored by Cayman National Bank*

### 9:00-10:30 AM Educational Sessions

#### **Land, Environment, Planning and Natural Resources**

##### **Conservation Planning**

**Room: Wilson**

In order to be successful, conservation plans require that action be taken at a variety of scales while working with a variety of partners. This session explores methods for mapping benthic habitats and presents strategies for working with partners to produce key conservation datasets. This session will also provide an overview of the Caribbean Conservation Decision Support System, reviewing a few of the supporting GIS tools and data that were developed for conservation planning in the Insular Caribbean.

*Session Moderator: Vijay Datadin, Caribbean GIS, Georgetown NIL, Guyana*

- Dominant Benthic Habitats for Lagoons of the Cayman Islands  
*James Gibb, Cayman Environment Centre, Grand Cayman, Cayman Islands*
- Working with Partners to Produce Regional Datasets for Conservation in the Insular Caribbean  
*John English Knowles, The Nature Conservancy, Miami, Florida, USA*
- The Status of Conservation in the Caribbean  
*Steven Schill, The Nature Conservancy, Orem, Utah, USA*

#### **Disaster Management, Law Enforcement, Public Health and Safety** **Strategic Approaches to Disaster Management**

**Room: Little Cayman**

GIS is a powerful tool for Disaster Management. This session will look at strategic approaches to disaster management that incorporate geospatial technology. It will also demonstrate the need for the integration of mitigation and recovery efforts.

*Session Moderator: Nigel (Ricky) Marshall, GeoVersal, Barbados*

- Strategies and Examples: The Four Phases of Emergency Management  
*Tom Powers, Osmose Utilities Services Inc., East Syracuse, New York, USA*
- Synchronizing Mitigation with Disaster Recovery in the Eastern Caribbean Using GIS  
*Leonard Huggins, University of Pittsburgh, Pittsburgh, Pennsylvania, USA*
- Towards a Standardized Methodological Approach for GIS in Disaster Management  
*Stephen Boodhram, Ministry of Local Government, Regional Planning Unit, Trinidad And Tobago*

#### **Standards, Policy and Management**

##### **Metadata Jumpstart**

**Room: Alsons**

Metadata is a fundamental component of effective geospatial data and project management. Many organizations, however, struggle to build the skills and methods necessary to incorporate metadata into the data development process. Join this full morning session to learn more about the value, content, and format of geospatial metadata as well as the tools and other resources that can support you as you adopt metadata creation, a GIS best practice.

*Session Moderator: Valrie Grant-Harry, GISP, GIS Consultant, Kingston, Jamaica*

- Lynda Wayne, GISP, Federal Geographic Data Committee-GeoMaxim, Asheville, North Carolina, USA

#### **Sponsor Session**

**Blom - Gold Sponsor**

**Room: Rembro**

Blom Aerofilms will present the results of their recent Pictometry and LiDAR survey of the Cayman Islands. A summary of how the survey was planned, acquired and processed to deliver these unique products, for the first time in the Caribbean, will be provided. A live demonstration of the final Pictometry library will also be given. This will provide the delegates with the opportunity to see how this unique technology combines aerial imaging with state of the art software solutions to provide visual intelligence unlike any other system available. In addition, Blom Aerofilms will also hi-light some of the other complementary survey technology that they have recently used in the Caribbean. This will include a review of recent topographic mapping, hydrographic charting and other projects where spatial data solutions have been provided.

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**10:30-11:00 Refreshment Break in Exhibit Hall**  
*Coffee/Tea Co-Sponsored by Cayman National Bank*

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### 11:00 AM -12:30 PM Educational Sessions

#### **Land, Environment, Planning and Natural Resources**

##### **Conservation Planning: Systems and Methods**

**Room: Wilson**

In this session, a non-governmental organization and national governments will present innovative systems and methods that are being developed and employed for conservation planning.

*Session Moderator: Edwin Joseph, Grand Valley State University, Allendale, Michigan, USA*

- Conservation Information System in the Meso America and the Caribbean  
*Steven Schill, The Nature Conservancy, Orem, Utah, USA*
- GIS and Conservation in Bermuda: Challenges and Solutions  
*Mandy Shailer, Bermuda Government, Flatts, Bermuda*
- Using GIS to Conserve the British Virgin Islands' Marine Environment  
*Nancy Woodfield-Pascoe, National Parks Trust, Tortola, British Virgin Islands*

#### **Disaster Management, Law Enforcement, Public Health and Safety**

##### **GIS in Health Applications**

**Room: Alsons**

This session will explore how geospatial tools can be used in health planning and disease monitoring.

*Session Moderator: Garfield Giff PhD, Delft University, Delft, The Netherlands*

- Use of GIS to Develop Environmental Health Indicators  
*Sacoby Wilson, University of South Carolina, Columbia, South Carolina, USA*
- Geographic Information Assessment of Toxic Waste Exposure & Lupus Development  
*Edith Williams, University of South Carolina, Columbia, South Carolina, USA*
- Alternative Futures: Opportunities and Challenges with a Seamless Health Record  
*Christopher Michell-Viret, University of Alberta Dept of Medicine, Edmonton, Alberta, Canada*

**Sponsor Session**  
**ESRI – Gold Sponsor**  
**Room: Little Cayman**

ESRI staff will present on new capabilities provided in ArcGIS 9.3, which was released to customers in July 2008. With the ArcGIS 9.3 release, ESRI has implemented many of your enhancement requests and addressed a significant number of common technical support issues to help make you more productive. ArcGIS Server 9.3 focuses on improved support for KML and other standards as well as creating GIS Mashups with the new ArcGIS JavaScript APIs. ArcGIS Server 9.3 also provides enhanced caching, security, and imagery support. These capabilities will be discussed and demonstrated as well as some additional discussion on future vision and direction for ArcGIS.

This session will also provide the opportunity to address your comments regarding future needs and uses with ESRI's Chief Scientist, Dr. David Maguire, and other ESRI staff.

**Sponsor Session**  
**HP/KirkiSS - Gold Sponsor**  
**Room: Rembro**

**Hewlett Packard – BladeSystem as a Strategy**

With the advent of Blade Server and Virtualization technologies in recent years, new opportunities abound for users of GIS. By consolidating Server and Workstation computing power to the datacenter, organizations can better manage, secure and protect their key data while enabling their users the flexibility to interact with their key applications from almost any device.

At this session Hewlett Packard will be sharing information on the latest developments in their industry-leading BladeSystem platform as they relate to the GIS community.

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**12:30-1:30 PM**

**Conference Luncheon Co-Sponsored by Spatial Innovation & ESRI**

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**1:30-3:00 PM**  
**Educational Sessions**

**Hot Topics**

**Copyright Issues, Public Access and Privacy**

**Room: Little Cayman**

GIS data can be a valuable asset. Government agencies worldwide are faced with the choice of providing spatial data sets at cost or charging market rates for accessing and using these data. Which approach is the most appropriate for the developing world and is there a third way? This session will explore different viewpoints of licensing and charging for spatial data.

*Session Moderator: Garry Green, Cayman Land Info, Cayman Islands*

- GIS Data: Protection, Infringement and Enforcement  
*Reshma Sharma, Senior Crown Counsel, Attorney General's Chambers, Cayman Islands Government*
- Point/Counterpoint Panel Discussion  
*Edwin Joseph, Grand Valley State University, Allendale, Michigan, USA*  
*Alan Jones, Cayman Land Info, Grand Cayman, Cayman Islands and others*

**CONFERENCE PROGRAM – FRIDAY**

**Hot Topics**

**GIS Professional Certification**

**Room: Wilson**

Learn about the GIS Certification Institute's (GISCI) program for GIS professionals, something that you may consider for your own professional development and recognition.

*Session Moderator: Lynda Wayne, GISP, Federal Geographic Data Committee-GeoMaxim, Asheville, North Carolina, USA*

- Lynda Wayne, GISP, Federal Geographic Data Committee/GeoMaxim, Asheville, North Carolina, USA (GISCI Past-President)
- Valrie Grant-Harry, GISP, GIS Consultant, Kingston, Jamaica

**Hot Topics**

**GIS in Education and Training**

**Room: Alsons**

This session identifies real-world applications and training needs for sustainable GIS integration.

*Session Moderator: Miguel Garriga, Geographic Systems LLC, Orlando, Florida, USA*

- GIS and Multimedia Integration: Opportunities for Improving Geographic Literacy  
*Edwin Joseph, Grand Valley State University, Allendale, Michigan, USA*
- The Evolution of GIS Education in Jamaica (1998 -2008)  
*Simone Michelle Lloyd and Tricia McLean, Ministry of Agriculture, Kingston, Jamaica*
- Regional Impact of Twenty Years of GIS Education at UWI  
*Bheshem Ramlal, University of the West Indies, St Augustine, Trinidad and Tobago*

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**3:00-3:30 PM Afternoon Refreshment Break**  
**Co-Sponsored by ReMAX**

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**3:30-5:00 PM**  
**Closing Session – Town Hall Meeting**  
**Room: Little Cayman**

This session will strive to be interactive and inclusive with participation from all attendees. Both keynote speakers, David Maguire and Vanessa Lawrence, will serve as panelists along with GIS leaders from across the region.

Some topics of discussion:

- Caribbean SDI coordination and policy
- Regional collaboration opportunities on projects and system/application development
- Securing funding for ongoing GIS development
- Selling GIS - how to attract new markets and applications in the region
- Capacity building - GIS training and education
- Developing trends in the region

*Session Moderator:*

- Alan Jones, Cayman Land Info, 2008 Conference Chair

*Panelists to include:*

- Valrie Grant-Harry, GISP, Caribbean URISA President
- Vanessa Lawrence, UK Ordnance Survey
- Lisa Kay S. Lewis, GISP, National GIS Coordinator, BVI
- David Maguire, ESRI
- Jacob Opadeyi, University of the West Indies

Also, hear closing remarks from Conference Platinum Sponsor, **International Land Systems**, an organization that has been a major supporter of URISA's Caribbean GIS Conference since the first program in Jamaica in 2001.

# URISA 2008 Caribbean GIS Conference Exhibit Directory

AeroGeoNautics Inc.  
Blom Aerofilms Limited  
Cayman Land Info  
Digicel  
ESRI  
Fugro BKS Limited  
GeoOrbis

Government of Jamaica  
HP/KirkiSS  
International Land Systems (ILS), Inc.  
Leica Geosystems Inc.  
NOAA's National Geodetic Survey  
Osmose Utilities Services, Inc  
Pinnacle Mapping Technologies, Inc.

RICS Americas  
Sani – International Technology Advisors Inc.  
Spatial Geo-Link Limited & ERDAS  
Spatial Innovation Limited  
Spatial Systems Associates, Inc.  
TerraGo Technologies, Inc.  
URISA Caribbean Chapter

**aerogeonautics**  
UNMANNED AERIAL REMOTE SENSING SERVICES

www.aerogeonautics.com  
Contact: Scott McTavish, (250) 448-7519,  
scott.mctavish@aerogeonautics.com or info@aerogeonautics.com

*AeroGeoNautics provides Unmanned Aerial Vehicle (UAV) remote sensing, geospatial aerial imagery and GIS services to a variety of both commercial and government clientele including Oil and Gas, Mining, Land Use Development, Construction, Agriculture, Environmental and Engineering sectors. Our products include georeferenced, orthorectified and near-infrared (NIR) geospatial imagery with resolution of up to 5cm. AeroGeoNautics provides these services at a fraction of the cost and in a fraction of the time when compared to current satellite and manned aerial services.*



**Blom Aerofilms Limited**  
www.blomaerofilms.com  
Contact: David Critchley +44 (0) 1934 745820,  
dcritchley@blomaerofilms.com

*BLOM Aerofilms is one of the UK's leading providers of aerial photography and digital map solutions for civil engineering design, environmental assessment and land information management. We provide a complete range of mapping services including aerial photography, GIS base mapping, orthophoto production, geo-spatial solutions and airborne laser-scanning. BLOM Aerofilms Limited joined the Blom ASA group of companies in 2005. Numerous international contracts have been undertaken by the company over the past ten years, many on-going for several years, with continuous repeat projects in Bahamas, Denmark, Iceland, Netherlands, Sweden and the UK.*



www.caymanlandinfo.ky  
Contact: Alan Jones, (345) 244-3421, alan.jones@gov.ky  
*Cayman Land Info will showcase ELRA (Electronic Land Registry Application) our fully customizable computerized Land Registry application as is presently being installed in the Turks and Caicos Islands and EMMA (Emergency Management Mapping Application), our Disaster Management GIS interface. The latter incorporates the world-leading TAOS hazard modeling predictive tool developed by KAC. (Cayman Land Info is the regional distributor for TAOS and a business partner of KAC).*

*The recently completed 3D model of George Town and the 7 Mile Beach area will also be on show as well as many other GIS applications and invaluable business tools.*

*Programmers and technicians will be on-hand to demonstrate our full range of GIS and related services and provide tips and advice to delegates. There will be lots of free giveaways and delegates are reminded not to miss their opportunity to win a brand new custom painted Sager note book c/o Cayman Land Info!*

**Digicel**  
The Bigger, Better Network.

Digicel Cayman Ltd  
www.digicelcayman.com  
Phone: 623-3444; For corporate sales support dial: 623-CORP  
For 24 hour customer care support dial 100 from your Digicel phone.

*After launching in the Cayman Islands in 2004, Digicel is now renowned for competitive rates, unbeatable coverage, superior customer care, a wide variety of products and services and state-of-the-art handsets. By offering innovative wireless services and community support, Digicel has become a leading brand in the Cayman Islands and has placed the region at the cutting-edge of wireless communications.*

*Digicel is incorporated in Bermuda and has operations in 23 markets, including Anguilla, Antigua & Barbuda, Aruba, Barbados, Bermuda, Bonaire, Curacao, the Cayman Islands, Dominica, El Salvador, French Guiana, Grenada, Guadeloupe, Guyana, Haiti, Jamaica, Martinique, St Kitts & Nevis, St. Lucia, St. Vincent & the Grenadines, Suriname, Trinidad & Tobago and Turks & Caicos. With new launches planned for the British Virgin Islands (BVI), Honduras and Panama, Digicel expects to be in 26 markets in the next 12 months. The Caribbean company also has coverage in St. Martin and St. Barths.*

*Digicel Group is the lead sponsor of Caribbean sports teams including the West Indies Cricket Team and Special Olympics teams and is title sponsor of the Digicel Caribbean Football Union Cup and the Copa De Naciones, the Caribbean and Central American qualifiers to the CONCACAF Gold Cup.*

Visit [www.digicelgroup.com](http://www.digicelgroup.com) for more information on Digicel.



www.esri.com  
Contact: (909) 793-2853

*With annual sales of more than \$660 million, ESRI remains the world leader in the geographic information system (GIS) software industry. Our business involves the development and support of GIS software for all types of organizations--from the one-person office to multinational corporations to innovative Internet GIS solutions.*



**Fugro BKS Limited**

www.bks.co.uk

Contact: John McNally, +44 (0) 28 7035 2311, jmcnally@bks.co.uk

*Fugro BKS Limited (formerly BKS Surveys) is one of the foremost providers of spatial data, airborne imagery and survey solutions. Operating within the geospatial division of Fugro, the company can provide start-to-finish services for the creation of customized, high resolution mapping products from airborne imagery. Operating globally, with a resource of over 20 aircraft, Fugro's airborne mapping capabilities serve a wide range of applications; natural resources management, urban planning, economic development, defence, environmental and engineering activities.*

*Fugro BKS has been involved in providing mapping services in the Caribbean since the 1970s and has undertaken mapping of the Bahamas, St Lucia, Jamaica, Barbados, Honduras and Guyana. In 2004 BKS undertook mapping of the Cayman Islands and assisted the Government's recovery programme after Hurricane Ivan by providing high-resolution satellite imagery.*



www.georbis.com

Contact: Craig Batstone, cbatstone@georbis.com or info@georbis.com, (246) 425-1360

*GeoOrbis is a Barbados based consulting firm focusing on the Caribbean Region. Geographical Information Systems Consulting is the core aspect of our practice which allows GeoOrbis to serve a very diverse client base. With a client base that ranges from Real Estate Developers to Security Firms and Local Governments to the United Nations, GeoOrbis utilizes GIS and related technologies to serve our clients needs. GeoOrbis is the Caribbean Distributor for DigitalGlobe Imagery Products, Grey Island Systems AVL Solutions, an Authorized ESRI Business Partner and a Trimble Reseller.*



**Government of Jamaica**

Find out what various government agencies are doing with GIS and information technology at the Government of Jamaica booth. These agencies are participating:

Spatial Data Management Division  
www.licj.org.jm

National Land Agency  
www.nla.gov.jm

Statistical Institute of Jamaica  
www.statinja.com

National Works Agency  
www.nwa.gov.jm

Manchester Parish Development Committee  
www.manchesterpdc.org



www.kirk.ky

Contact: Geoffrey Cuff, gcuff@kirk.ky

*KirkISS is a Cayman Islands-based provider of World-Class IT Infrastructure solutions to the Caribbean. By partnering with Industry-leading innovators such as Hewlett Packard, Microsoft, Cisco, Citrix Systems, RSA Security, Symantec and Mitel Networks, we are able to offer technology solutions that address the challenges faced by Public Sector GIS Executives in the region. Visit our booth to learn how we provide efficient and secure Remote Access to your GIS Applications from almost any device, anywhere.*



**International Land Systems (ILS), Inc.**

www.landsystems.com

Contact: Frank Pichel, Project Coordinator, (301) 587-7531, fpichel@landsystems.com

*ILS focuses on software and systems design and implementation for land administration including Land Titles Office management, land registration systems, land titling, legal, cadastres, estate management systems (terriers), Geographic information systems (GIS), and Land Information Systems (LIS). Our state-of-the-art software is developed according to the Software Engineering Institute's CMM standards.*

*ILS also provides a full range of professional consulting services to support land administration systems worldwide. These services include: business process analysis, system design, system installation, data conversion and a full range of training programs.*



www.leica-geosystems.us

Contact: Jennifer Bumford - jennifer.bumford@leica.us.com

*With close to 200 years of pioneering solutions to measure the world, Leica Geosystems products and services are trusted by professionals worldwide to help them capture, analyze, and present spatial information. Leica Geosystems is best known for its broad array of products that capture accurately, model quickly, analyze easily, and visualize and present spatial information.*



www.ngs.noaa.gov  
 Contact: ngs.infocenter@noaa.gov  
 Submittal via the NGS Suggestion Box -  
<http://www.ngs.noaa.gov/MailForms/comments.shtml>  
 Telephone: (301) 713-3242

NOAA's National Geodetic Survey (NGS) defines, maintains and provides access to the National Spatial Reference System which determines latitude, longitude, height, gravity and shoreline throughout the United States. NGS develops and promotes standards, specifications and guidelines related to surveying, mapping and remote sensing.

## Osmose

Osmose Utilities Services, Inc  
 www.OsmoseUtilities.com  
 Contact: Glen Andrew, Director – Sales, Caribbean Business Development,  
 (205) 613-7269, gandrew@osmose.com

Osmose is the leading provider of inspection, maintenance and repair services addressing aging T&D infrastructure. If you are concerned about the costs and reliability of an aging pole plant, Osmose has solutions. If you are concerned about corrosion, aging steel towers and the structural integrity of your transmission system, Osmose has solutions. If the data describing your T&D assets - their location, condition and connectivity - are not supporting GIS, OMS, joint use or engineering requirements, Osmose has solutions. Osmose works hard to help more than 800 customers throughout North America & Caribbean optimize the safety, economy and reliability of their T&D systems by combining the skills of its people with unique, innovative technology



www.pinnaclemapping.com  
 Contact: Gary Kulick, gkulick@pinnaclemapping.com, (561) 963-5914

Established in 2002 Pinnacle Mapping Technologies, Inc. provides big company solutions combined with small company pricing to all our clients worldwide. We provide digital image acquisition, control surveying, analytics, scanning, compilation, editing and plotting services. In addition, our quality assurance program incorporates many of the ISO 9000 elements including in-house training, calibration, maintenance, document control, procedure standards and statistical analysis. Pinnacle Mapping Technologies, Inc., with the DiMAC (digital modular aerial camera), provides simultaneous digital RGB and CIR aerial image acquisition for photogrammetric mapping and environmental applications. Please visit our booth for additional information on our services.



**RICS Americas**  
 www.ricsamericas.org  
 Contact: Matthew Bruck, RICS Managing Director, mbruck@rics.org (212) 847-7400

The Royal Institution of Chartered Surveyors (RICS), with headquarters in London, is the largest organization for professionals in property, land, construction and related environmental issues worldwide. We promote best practice, regulation and consumer protection to business and the public. Over 145,000 members in more than 146 countries operate across 17 disciplines, from development, brokerage and construction to environmental issues, valuation and geomatics. RICS is the preeminent source of real estate-related knowledge, providing independent, impartial advice to governments and global organizations. RICS Americas, based in New York and covering North, Central and South America and the Caribbean, has over 2,800 members.



**SANI -  
 INTERNATIONAL  
 TECHNOLOGY  
 ADVISORS INC.**

www.sani-ita.com  
 Contact: Anthony Sani, (905) 943-7774, tsani@sani-ita.com

SANI - INTERNATIONAL TECHNOLOGY ADVISORS INC. (SANI-ITA) is a privately owned Canadian corporation with its head office located in Ontario, Canada. SANI-ITA provides services in geomatics and consulting and training in geographic information systems, remote sensing, and softcopy photogrammetry in Canada and throughout the Caribbean. Since its inception, the Corporation has specialized in performing independent, non-affiliated quality control and quality assurance (Third Party Audits), and Project Management Services for local and international clients. The Corporation is ISO-9001:2000 registered.



www.spatialgeolink.com  
 Contact: Anthony Sani, 905-470-5990, tsani@spatialgeolink.com

Spatial Geo-Link Limited is the sole ERDAS Inc. (formerly Leica Geosystems Geospatial Imaging) distributor in Canada. The company distributes and supports the ERDAS enterprise, web-based, mobile and desktop software solutions throughout Canada; distributes, integrates, and supports geomatics systems internationally; provides Information Technology and geomatics integration throughout North America, Europe, Asia, and Caribbean countries through business partnerships. Spatial Geo-Link Limited also provides integration services in the geomatics and information technology areas as well as architecture design and development services to meet our clients' requirements.

## SPATIAL INNOVISION



www.spatialvision.com

Contact: Silburn Clarke, silburn@spatialvision.com, Telephone: (876) 969-2239 or (876) 941-1085

*Spatial InnoVision Limited founded in 1998, is the Caribbean's leading Global Positioning System (GPS) and Geographic Information Systems (GIS) solutions centre. SPATIAL is the regional distributor for Environmental Systems Research Institute (ESRI), the global leaders in the development of GIS solutions with over 95% of the Caribbean regional GIS sales and services. We are the Caribbean business partner for Trimble Navigation Limited the world's leading GPS manufacturer and the Caribbean reseller for the full range of Context scanners, the global leaders in large format scanning solutions.*



www.spatialsys.com

Contact: Larry Newman, lnewman@spatialsys.com, (410) 423-1870

*Spatial Systems Associates specializes in GIS technology as our only business. Since its inception in 1995, we have offered GIS implementation and support services to federal, state, and local government organizations. Our services include consulting, conversion services (scanning, registration, vectorization, attribution), data acquisition and QA/QC services (digital orthophotography and LIDAR), custom programming, training, web site services (development, hosting, and data maintenance), as-needed analysis, and map production. We have recently begun providing complete facility management (FM) implementation services to some of our clients, including integration of CADD technology with GIS, and use of GIS concepts for space management, lease management, furniture and equipment management, energy use management, and emergency preparedness.*



www.terragotech.com

Contact: Jason Briley, (678) 391-9790, jbriley@terragotech.com

*As the pioneer of geo-enabled PDFs, TerraGo Technologies removes technology barriers to broaden the access and application of geospatial data. TerraGo's advanced tools and technology leverage PDF and the Adobe platform to enable geospatial applications that meet the needs of all types of end users, regardless of GIS expertise. This process enables GeoApps, the use of geospatial PDFs and other portable content formats to create real-world applications of geographic data. Providing complete end-user focus, unmatched GeoApp expertise and geospatial data source independence, TerraGo makes it cost effective to easily build and deliver GeoApps for use by anyone, anywhere.*



www.urisacaribbean.org

*The Caribbean URISA Chapter is a non-profit organization that provides members with a forum to share real experiences in implementing Geoinformatics/GIS technology in organizations, to present one's work, get constructive criticism, discuss concepts and ideas of how Geographical Information Systems (GIS) can make meaningful contribution to society in general and the Caribbean region in particular. This organization will strive to be the leading medium of The Caribbean Geospatial Community providing Geospatial professionals with opportunities for educational development, networking, leadership, coordination and representation.*

### EXHIBITION HOURS

**Tuesday, August 26: 5:00 – 6:30 PM**

**Wednesday, August 27: 11:00 AM – 3:30 PM**

**Thursday, August 28: 10:00 AM – 3:30 PM**

**Friday, August 29: 10:00 AM – 2:00 PM**

**Be sure to set aside enough time to connect with exhibitors in order to get your technology answers!**

# Upcoming Conferences

URISA's 46<sup>th</sup> Annual Conference & Exposition  
October 7–10, 2008 — New Orleans, LA

URISA Leadership Academy  
December 8–12, 2008 — Seattle, WA

13<sup>th</sup> Annual GIS/CAMA Technologies Conference  
February 8–11, 2009 — Charleston, SC

URISA's Second GIS in Public Health  
Conference  
June 5–8, 2009 — Providence, RI

URISA/NENA Addressing Conference  
August, 2009 — Providence, RI

URISA's 47<sup>th</sup> Annual Conference & Exposition  
September 29–October 2, 2009 — Anaheim, CA

GIS in Transit Conference  
November 11–13, 2009 — St Petersburg, FL

[www.urisa.org](http://www.urisa.org)