

## CONFERENCE PROGRAM

### ***Geospatial Technologies: Connecting our Industries in Meeting the Region's Challenges***

#### **Welcome!**

The Urban and Regional Information Systems Association (URISA) has previously presented four conferences focused on the effective application of Geographic Information Systems (GIS) and other information technologies within the Caribbean. Previous conferences have taken place in Jamaica (2001), Barbados (2004), the Bahamas (2006) and the Cayman Islands (2008).

URISA is pleased to present the Fifth Caribbean GIS Conference in Trinidad. We hope the conference will be a valuable contribution to your professional development.

Thank you to our hosts!



#### **Objectives of URISA's Caribbean GIS 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

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

## Conference Sponsors

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

### *Platinum Sponsors*



### *Silver Sponsor*



### *Bronze Sponsors*



URISA is pleased to welcome CARILEC, the Caribbean Electric Utility Service Corporation - an association of electric utilities, suppliers, manufacturers and other stakeholders operating in the electricity industry in the Caribbean, as a partner in the 2010 conference! For more information, visit [www.carilec.org](http://www.carilec.org).

## Conference Committee

The Conference relies on the expertise and efforts of the volunteer conference committee members to present an important educational event. 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. URISA is honored to count the following individuals as part of the 2010 Caribbean GIS Conference Committee:

**2010 Conference Chair** - Dr. Jacob Opadeyi, Department of Geomatics Engineering and Land Management, The University of The West Indies

### **Trinidad**

- **National Chair** - Bheshem Ramlal - The University of the West Indies
- Desmond Dougall - GISCAD Limited
- Nicholle Frontin, GISP - Petrotrin
- Gordon Wyke - IBI-MAAK Caribbean

### **Barbados**

Craig Batstone - GeoOrbis

### **Bermuda**

Quinnell Francis - CompuCAD

### **Canada**

Tony Sani – Sani International

### **Cayman Islands**

Alan Jones (2008 Conference Chair) - Cayman Islands Land & Surveys  
Garry Green - Cayman Islands Land & Surveys

### **Dominica**

Lisa-Kay Lewis, GISP, ILS – Dominica

### **Grenada**

Shawn Charles - Grenada Electricity Services

### **Guyana**

Vijay Datadin - CaribbeanGIS.com

### **Jamaica**

Cecille Blake - (2001 Conference Chair) - Jamaica National GIS Coordinator  
Nadine Brown - Planning Institute of Jamaica  
Earl Edwards - CaribAnalytix Consultancy  
Valrie Grant-Harry, GISP - GeoTechVision Enterprises  
Damian Graham - Spatial Innovision

### **Saint Lucia**

Laurena Primus - CARILEC

### **St Kitts**

*Edsel Daniel, PhD, GISP, Byrne Spatial Consulting*

### **United Kingdom**

Alan Mills - Alan Mills Consulting

### **United States**

Edwin Joseph - Grand Valley State University  
Eric Linzey - NOAA  
Peter Rabley - International Land Systems  
Steven Schill -The Nature Conservancy

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 from around the world.



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info@urisa.org, www.urisa.org

### **URISA Staff at the Conference:**

Wendy Nelson – Executive Director, wnelson@urisa.org  
Pat Francis – Meeting Coordinator, pfrancis@urisa.org

## Registration

Registration will take place in the foyer of the Grand Ballroom. At the Registration Desk, you will receive your registration packet (including the Final Program, tote bag, name badge, and other pertinent materials). Registration hours are as follows:

Monday, December 6: 8:00 am - 5:00 pm  
Tuesday, December 7: 8:00 am - 5:00 pm  
Wednesday, December 8: 7:30 am - 4:30 pm  
Thursday, December 9: 8:00 am - 5:00 pm  
Friday, December 10: 8:00 am - 12:00 noon

*Note: It is very important to wear your name badge for access to conference sessions and events. Also, do not leave personal items (laptops, purses, etc.) unattended in meeting rooms.*

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

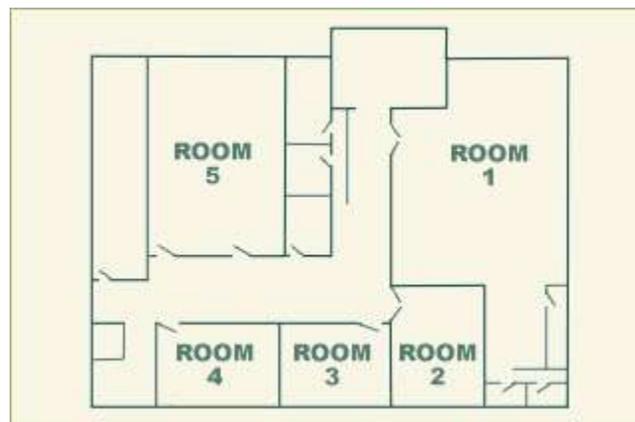
During URISA's Caribbean GIS Conference, you can check out the very latest technology being offered by the top GIS and IT vendors — all in one place. Take this opportunity to compare and contrast the technology and services that are currently available to make your agency work more efficiently and effectively.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

The Exhibition is open during the following hours:

Wednesday, December 6: 10:00 AM – 6:00 PM  
Thursday, December 7: 10:30 AM – 3:30 PM  
Friday, December 8: 10:00 AM – 12:30 PM

## Conference Centre Layout

All General Sessions and the Exhibition are located in the Grand Ballroom (by registration). Breakout sessions will take place on the second level:



**Conference Centre (Upstairs)**

## Monday, December 6, 2010 Preconference Training & Workshops

Hopefully, you registered early to take advantage of specialized training courses being offered by Esri and Spatial Innovation or a full-day URISA Certified Workshop on GIS Program Management on Monday, December 6.

### **ArcGIS Desktop I: Getting Started with GIS Room 4**

This course teaches the fundamental concepts and basic functions of a GIS, the properties of GIS maps, and the structure of a GIS database. In course exercises, you will develop basic software skills by working with ArcGIS Desktop tools to visualize geographic data, create maps, query a GIS database, and analyze data using common analysis tools.

### **Mobile and Server GIS: Field to Finish Room 5**

This course will entail details on Mobile and Server GIS technology and the integration between field to finish. The skills required to accomplish this task will be taught step by step for participants to take advantage of emerging technology to improve their process flow within their respective organization.

### **URISA Certified Workshop GIS Program Management Room 1**

Instructors: *Valrie Grant-Harry, GISP, GeoTechVision Enterprises Limited, Kingston, Jamaica*  
*Tricia McLean, Office of the Prime Minister, Kingston, Jamaica*

Today, most Caribbean government organizations have some type of GIS programs in place. They vary from being in their early stages, to the rebuilding or tuning-up phase, to being completed 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.

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## Tuesday, December 7, 2010 Preconference Training & Workshops

Those who attended on Monday will complete the second day of both of these courses on Tuesday:

- **ArcGIS Desktop I: Getting Started with GIS - Room 4**
  - **Mobile and Server GIS: Field to Finish - Room 5**
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In addition, a number of other **free educational opportunities** will take place on Tuesday:

### **8:30 AM - 12:00 Noon - A Low Cost Solution for Flood Mapping Using PALSAR RADAR Data in GIS**

#### **Room 1**

*Instructors: Kate Malpeli and Pete Chirico, U.S. Geological Survey*

This FREE half-day workshop provides an introduction to ALOS PALSAR RADAR data and highlights the unique advantages and capabilities that this type of remote sensing technology offers. In the Caribbean's tropical environment the benefit of visible satellite imagery is limited due to the presence of dense and frequent cloud cover. RADAR technology, however, has the ability to penetrate cloud cover.

### **1:00 - 5:00 PM - Utilities Asset Management Room 1**

*Instructor: Jason Amadori, GISP, Chief Executive Officer, Earth Eye, LLC A Subsidiary of DTS, Orlando, Florida*

This FREE half-day workshop will focus on comprehensive asset management of utility infrastructure. The instructor will focus on basic asset management principles related to utility infrastructure and will discuss various data collection and data management techniques used in the industry today.

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### **Tuesday Workshop Beverage Break Sponsor: Sani-International**

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### **Free Vendor Workshop - Sponsored by Sani-international and GeoTechVision Enterprises Room 2**

- *9:00 - 11:00 AM: ERDAS Apollo - Delivering Geospatial Information from the Sensor to the Internet*
- *11:00 AM - 12:00 Noon: TerraGo Technologies- Capturing, Sharing, Reusing!*
- *1:30 - 3:30 PM: ERDAS - IMAGINE and LPS Overview*

## Wednesday, December 8, 2010

### Opening Session and Keynote Address

9:00 – 10:00 AM

#### Grand Ballroom

Dr. Bhesem Ramlal, 2010 URISA Caribbean GIS Conference National Chair, will introduce **Senator the Honourable Mary King, Minister of Planning, Economic and Social Restructuring and Gender Affairs, Government of the Republic of Trinidad and Tobago.**

Valrie Grant-Harry, GISP, URISA Caribbean Chapter President, will update delegates on chapter activities and plans. Representatives from our Platinum Conference Sponsors, Esri and Spatial Innovision, will share a few words about the importance of this conference.

#### Keynote Address



We are pleased to welcome **Silburn Clarke**, as our esteemed keynote speaker. Mr. Clarke, President of the Jamaica Computer Society and Founder/CEO of Spatial Innovision, will address the conference on *Strategies for Professionals in Reshaping Caribbean Economies for Global Success.*

*Silburn Clarke is the Founder and CEO of Spatial Innovision Limited. Silburn is a Chartered and Commissioned Land Surveyor who served the Jamaican public sector for 22 years before parlaying his expertise into the creation of his pioneering venture in 1998, Spatial Innovision. Headquarters in Kingston with a branch office in Port of Spain, Spatial has been twice recognized as a Champion Services Exporter by the Jamaica Exporters Association. The company was a winner of the inaugural, and highly-competitive, 2009 Pioneers of Prosperity Competition for Caribbean Entrepreneurs. In 2008 Spatial was recognized as the inaugural National Commercial Bank (NCB) Regional Innovation Winner. For his role in shaping the local and regional geospatial industry over the last two decades, Silburn was accorded the GIS Lifetime Achievement Award by the Office of the Prime Minister in Jamaica in November 2009.*

*Silburn holds an MBA (Finance) and an MSc (MIS) from University of the West Indies Mona and an MSc (Eng) from the University of London. He is currently enrolled in the DBA program at Mona School of Business with research interests in Entrepreneurship, Culture, Knowledge and Development. His proposed dissertation will focus on an analysis of those entrepreneurial factors which impact on the ambidextrous activities of the firm and so determine firm competitiveness.*

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#### 10:00 – 10:30 AM

##### Coffee Break in Exhibition

The exhibition is where you will find the answers to your technology questions to help your organization meet its goals. Be sure to discuss your needs with the company representatives during the conference!

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#### 10:30 AM – 12:00 Noon

##### Breakout Sessions

*Breakout Sessions are concurrent educational sessions taking place during the conference. No need to pre-register for these sessions - choose the topic of most interest to you. You may even choose to 'jump' between sessions to suit your needs.*

#### Landuse and Land Cover Mapping

##### Room 2

The sustainable management of land is a very important issue in the planning and maintenance of socio-economic and environmental development of a geographic area. These interesting presentations will examine the methodology to develop a digital map land use / land cover map of the island arc of the Lesser Antilles from Trinidad to the Virgin Islands, the development of an urban classification methodology and the development of an online geographic atlas to monitor the Environment in the Lesser Antilles.

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

- Land Use/Land Cover in the Lesser Antilles Islands: Semantic and Methodological Approaches  
*Antoine Cheula, IRD – Fort de France, Martinique*
- Building a Methodology to Assess Urban Structures and Processes Using Satellite Images  
*Yuji Kato and Jean Doucet, IRD – Fort de France, Martinique*
- The Cluster Agglomerations of the Southern Martinique Space, From Scientist to Operational Purposes  
*Sebastien Tollis and Rafaele Gutton IRD – Fort de France, Martinique*

#### Multi-Purpose State Land Management

##### Room 4

These presentations explore the development of a GIS based solution for coordinating reforestation agencies; incorporation of satellite imagery and aerial photography in assessing changes along the coastline for land use monitoring and enforcement; and the development of a GIS-based Land Bank to support increased food production.

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

- Reforestation and Watershed Rehabilitation on the Southern Slopes of Trinidad's Northern Range  
*Asif Khan and Paula Drakes, Land Management Division, Port of Spain, Trinidad and Tobago*

- Using Imagery to Monitor Illegal Occupation of Coastal Land on the Northwest Peninsula of Trinidad  
*Asif Khan and Paula Drakes, Land Management Division, Port of Spain, Trinidad and Tobago*
- Improving State Land Information Reliability: A Case Study of Agricultural Land in the County of St. Patrick West  
*Shawn Baldeosingh and Paula Drakes, Land Management Division, Port of Spain, Trinidad and Tobago*

### **Successful GIS Implementation Room 1**

Local government administrations and utility companies worldwide are gaining benefits from using GIS technology and spatial analysis. Don't miss this session which discusses the challenges experienced in the implementation of GIS in local government offices to support service delivery, one utility company's GIS journey - benefits, achievements and lessons learnt, and the implementation of a LIS in support of the governance structures on family land in Tobago.

*Moderator: Shawn Charles, Grenada Electricity Services Ltd., St. George, Grenada*

- Empowering Local Government Through GIS Technology  
*Clive Too-Chung and Krishan Seecharan, GISCAD LTD, Laventille, Trinidad and Tobago*
- VIWAPA's GIS Project: Lessons Learned, New Workflows and Loss Reduction Support  
*Niel Vanterpool, US Virgin Islands Water and Power Authority, Charlotte Amalie, US Virgin Islands*
- Using LIS to Examine the Governance Structures on Family Land in Tobago  
*Sunil Laloo and Charisse Griffith-Charles, University of the West Indies, Trinidad and Tobago*

### **Flood Hazard Room 5**

For many Caribbean countries, flooding is considered the most prevalent natural hazard, having both socio-economic and environmental impacts. This session presents a GIS-based approach to the modeling of inundation factors for the development of flood susceptibility models, sediment transport and deposition from flash floods, and the use of GIS to map and analyze coastline changes due to erosion and accretion.

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

- 1D-2D Modeling of Sediment Transport and Deposition from Flash Floods  
*Kerice Masters, Urban Development Corporation, Kingston, Jamaica*
- Development of a GIS-Based Flood Risk Model for the Caribbean  
*Jacob Opadeyi, Gabrielle Thongs, and Shelly Bradshaw, The University of the West Indies, St. Augustine, Trinidad and Tobago*

- An Integrated Approach for GIS-Based Flood Risk Assessment Within Trinidad  
*Stephen Boodhram, Ministry of Local Government, Trinidad and Tobago*

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### **12:00 Noon-1:00 PM**

Lunch is sponsored today by Platinum Conference Sponsors, Esri and Spatial Innovision.

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### **1:00 - 2:30 PM Breakout Sessions**

#### **Watershed Management Room 4**

GIS serves as a valuable tool for assessing and managing watersheds. This session will present several case studies that demonstrate how GIS can serve to identify risks within watersheds and use model output to mitigate potential health problems. The first paper offers an innovative use of a GIS-based tool to evaluate the impacts of land use/cover for improving watershed management. The second paper presents a GIS-based approach to the assessment of factors that are likely to increase the vulnerability of ground water in Trinidad and offer recommended actions for the future. The final paper looks at mapping and analysis of changes along the Cedros coastline and which phenomenon resulted in the greatest impact.

*Moderator: John Knowles, The Nature Conservancy, Vero Beach, Florida USA*

- Evaluating the Impact of Land Use/Cover on Watersheds Using AGWA  
*Carlene Boodoo, Spatial Innovision Ltd, Trinidad and Tobago*
- Conceptual and Logical Design of a GIS-based Watershed Risk Assessment Application  
*Jacob Opadeyi, Rehanna Jadoo, and Wayne Rajkumar, The University of the West Indies, St. Augustine, Trinidad and Tobago*
- Evaluation of Coastline Changes Along Cedros Peninsula  
*Camele Gopaulsingh and Raid Al-Tahir, The University of the West Indies, Trinidad and Tobago*

#### **Remote Sensing Technology for Planning Applications**

##### **Room 1**

Come and enjoy stimulating presentations on the use of LIDAR and other remote sensing technology for a variety of applications including asset infrastructure inventory, planning and preservation activities, and the production of inundation maps for flood hazard mapping scenario. If you want to learn more about LIDAR and its role and benefits as a mapping tool in the Caribbean, then this is the session for you.

*Moderator: Craig Batstone, GeoOrbis Inc, St James, Barbados*

- Airborne and Mobile LiDAR to Support Infrastructure Planning and Preservation  
*Jason Amadori, GISP, EarthEye LLC, Orlando, Florida USA*

- LiDAR, A New and Emerging Technology in the Caribbean  
*Jeff Schramm, Survey Solutions Inc, Georgetown, Guyana*
- A Low Cost Solution for Flood Mapping Using PALSAR RADAR Data in GIS  
*Peter Chirico and Katherine Malpeli, U.S. Geological Survey, Reston, Virginia USA*

**Disaster Preparedness and Climate Change Adaptation  
Room 5**

The issue of climate change continues to be the subject of heated discussions among environmental professionals and laymen alike. Whether one argues that it is fact or fiction, one thing is certain the proposed measures for climate change adaptation leads to an ultimate position of "no regrets". This blend of presentations explores various aspects of this important topic.

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

- Rapid Storm Surge Forecasting With A Storm Atlas  
*Ries Kluskens, Royal Haskoning, Metairie, Louisiana USA*
- Developing a Predictive GIS Model of Sea Level Rise for a Selected Coastal Community  
*Amit Seeram, The University of the West Indies, Trinidad and Tobago*
- The TeraScan Satellite Ground Station at the Institute of Marine Affairs, Trinidad and Tobago: A Regional Asset  
*Deanesh Ramsewak, Institute of Marine Affairs, Carenage, Trinidad and Tobago*

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**2:30-3:00 PM  
Break in exhibit hall**

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**3:00 - 4:30 PM  
Breakout Sessions**

**Environment  
Room 4**

Caribbean islands are known worldwide for their unmatched natural beauty and rich biodiversity. The existence of the marine and coastal habitats of these islands, however, is often threatened by land-based pollution and degradation. This session will focus on the use of GIS-based decision support tools to identify the most important areas in the Caribbean and the progress being made by some islands in their effort to protect these natural habitats. Learn about the development of a multi-use marine zoning plan which meets multi-sectoral objectives, the use of GIS and remote sensing in the monitoring and management of carbon emissions and challenges arising from the sharing and updating of resource maps for monitoring wetlands.

*Moderator: Alan Mills, Alan Mills Consulting Ltd, Maidstone Kent, United Kingdom*

- The Caribbean Challenge: Protecting Nature For Tomorrow's Needs  
*Steven Schill, The Nature Conservancy, Orem, Utah USA*
- Marine Spatial Zoning St. Kitts and Nevis  
*John Knowles, The Nature Conservancy, Vero Beach, Florida USA*
- GIS for the Environment: Carbon Management for Trinidad  
*Donnell Nurse, Jillian St. Bernard, and Avinash Ramcharitar, The University of the West Indies, Trinidad and Tobago*
- A Framework for Sharing and Updating Resource Maps  
*Stevie Henry, University of the Virgin Islands- Eastern Caribbean Center Conservation Data Center, St Thomas, US Virgin Islands*

**Web and Mobile GIS  
Room 1**

Mobile Internet has revolutionized the entire framework of communication technology and has opened up a world of options for the capturing and sharing of spatial data. Come and hear how a major telecommunications company is using the Blackberry service and ArcGIS to improve field operations, the use of OGC to visualize socio-economic information and how improving cache mechanisms on mobiles can improve access latency, reduce battery power consumption, and reduce bandwidth usage in the wireless Internet.

*Moderator: Troy Lewis, Compu-CAD Training & Services Limited, Hamilton, Bermuda*

- Development of Online Visualization of Socio-Economic Information using OGC WMS  
*Dornet Hull, Physical Planning Unit, Kingstown, St. Vincent*
- Innovative Mobile GIS- The Case of LIME Jamaica  
*Valrie Grant-Harry, GISP, GeoTechVision Enterprises Limited, Kingston, Jamaica*
- Advancement in Mobile GIS Applications  
*Natalie Dobbs, Spatial Innovision Limited, Kingston, Jamaica*

**Education  
Room 2**

Come to this session and join the discussion on the need for formal GIS education in the region and some of the current approaches being taken to fill this gap. Learn how interactive GIS workshops were used to determine the effectiveness of GIS, GPS, multimedia, to integrate spatial and internet technologies for extension, marketing, and land management and on the achievements and challenges of the LICJ GIS training programme.

*Moderator: Edsel Daniel, PhD, GISP, Byrne Spatial Consulting, St Kitts*

- Building Spatial Information Management Capacity Through Education  
*Venessa Elliot, COSTAATT, Port of Spain, Trinidad and Tobago*

- Integrating Spatial and Internet Technologies into Extension, Land Management, and Marketing  
*Edwin Joseph, Grand Valley State University, Allendale, Michigan USA*
- Meeting the Challenges of Providing GIS Training  
*Simone Lloyd, National Spatial Data Management Division, Land Information Council of Jamaica, Kingston, Jamaica*



URISA is pleased to welcome **Bill Meehan, Esri's Director of Utility Solutions**, as our Thursday morning Keynote Speaker.

### Emergency Management Room 5

One of the key elements of emergency response is timing. With the increasing occurrence of extreme weather events in the Caribbean, the capacity to respond effectively and efficiently to emergency situations is critical to timely recovery and restoration. These presentations explore the development of a GIS-based decision support system for evacuation and shelter management, an investigation of the correlation between the intensity of a hurricane season and the risk to the various Caribbean nations and the use of enabling technologies that could eventually lead to an early earthquake monitoring system.

*Moderator: Nicholle Frontin, GISP, San Fernando, Trinidad and Tobago*

- Using GIS to Plan for Evacuation and Sheltering Operations on Islands  
*Timothy Ledet, PBS&J, Houston, Texas USA*
- Modeling Atlantic Basin Hurricane Tracks: A Unique Approach to Buffer Analysis  
*Desmond Carroll, Penn State University, Nassau, Bahamas*
- Real-Time Seismic Monitoring Network Utilizing Wide Area GNSS Networks  
*Gregory Peake MSc., Spatial Innovision Ltd., Kingston, Jamaica*

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### 4:30-6:00 PM Networking Reception in Exhibition

Join your fellow attendees, new acquaintances and exhibitors in a relaxed atmosphere over light refreshments.

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## Thursday, December 9, 2010

### 9:00 – 10:00 AM Grand Ballroom

Mr. Kelvin Ramsook, Assistant General Manager (AGM) Distribution for the Trinidad and Tobago Electricity Commission, will greet attendees on behalf of the CARILEC Community, followed by our Keynote Address.

### **Building a Knowledge Infrastructure with GIS**

Infrastructure is more than buildings, pipes, wires and conductors. It consists of the accumulated knowledge of the people who build, operate and maintain the infrastructure. Many infrastructure companies like electric utilities have older workers. Many will retire. It is difficult to capture their accumulated knowledge and experience. As utilities adopt more automation, like Smart Grid, utilities will need to institutionalize that knowledge with technology. GIS provides a convenient way to capture that knowledge, to organize information by location and perform complex spatial analysis. A GIS fully integrated with other corporate systems helps companies create new knowledge from many sources for the purpose of better decision making. This presentation will outline how GIS can contribute to a knowledge infrastructure using spatial data management, analytics, mobility and situational awareness.

*As the director of Esri utility solutions since 2002, Bill has overall corporate direction for utility, transportation and telecommunication business development and marketing activity and he is responsible for business results in this worldwide sector. During this period, Esri moved from 3rd place among competition for electric and gas utility GIS to a dominant role today. Bill is a leading authority on the application of GIS to utility work flows. He has authored numerous articles. He has delivered many keynotes and papers around the world and has won several speaking awards. Bill is the author of two books, Empowering Electric and Gas Utilities with GIS and Power System Analysis by Digital Computer.*

*Prior to joining Esri, Bill was the vice president of electric operations for Boston Edison. He provided executive-level leadership for all aspects of electric transmission, substation, and distribution operations, including maintenance, construction, vegetation control, system operations and GIS. While at Boston Edison, Bill was a pioneer of GIS in utilities having successfully built one of the earliest ESRI based GIS's in the industry. Bill has extensive experience in nearly all aspects of the utility business. In 1999, Bill managed the merger of the Boston Edison Company with Commonwealth Energy. In 1998, senior management tapped him to restructure systems and processes in anticipation of electric utility deregulation. Bill spent many years as manager of engineering at Boston Edison.*

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**10:00-10:30 AM**  
**Coffee Break in exhibit hall**

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

**Cadastre and Land Administration**  
**Room 4**

Land information is crucial for planning and development. Recording and disseminating information about ownership, value, and use of land is an integral part of government, non-profit, and private sector activities. These papers discuss a wide variety of topics that include alternate approaches to cadastral mapping, using GIS-based mathematical models to assist in managing land resources, and the use of imagery to improve spatial accuracy.

*Moderator: Stevie Henry, University of the Virgin Islands-Eastern Caribbean Center Conservation Data Center, St Thomas, Virgin Islands*

- An Alternative System of Cadastral Mapping for Trinidad and Tobago  
*Anesh Gopee, Sigma-Square Geo-Solutions, Trinidad and Tobago*
- Estimating Land Availability for Development Programs in Trinidad  
*Jacob Opadeyi and Gabrielle Thongs, The University of the West Indies, St. Augustine, Trinidad and Tobago*
- Confirming Accuracies from the GeoEye-1 Sensor  
*Anthony P. Sani, Sani-International Technology Advisors Inc, Canada*

**Unified Land Information**  
**Room 5**

Accessing, sharing and using spatial data are the essence of a spatial data infrastructure. Developing spatial data infrastructure (SDI) include the coordinated use of spatial data, metadata, users, and other tools all working together to achieve some defined objective. The following presentations examine technologies, policies, standards, and human resources, needed for maintaining and preserving spatial data.

*Moderator: Desmond Dougall, GISCAD Ltd, Port of Spain, Trinidad*

- Unified Land Information System in Dominica  
*Lisa Kay Lewis, GISP, International Land Systems (ILS) Inc, Silver Spring, Maryland, USA*
- Evolution of Spatial Data Infrastructures Through Land Administration Projects  
*Norval Young, Land and Survey Department, BVI Government, British Virgin Islands*
- Using Geographic Information Technology to Improve the Land Use Planning Process: A Case Study in Trinidad and Tobago  
*Sheryl-Anne Haynes, Town and Country Planning Division, Trinidad and Tobago*

**Public Health/Disease Surveillance**  
**Room 2**

This session explores the use of geospatial technologies for epidemiological studies. GIS is seen as a tool for mapping disease occurrences and progression through customized interfaces and creative address geocoding schemes. Presentations range from developing community-level base maps and custom GIS applications for disease mapping in rural communities, to investigating the distribution of diseases and the pattern of occurrences in forest conditions.

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

- Establishing a Framework for Community Level Disease Mapping in Rural Jamaica Using GIS  
*Hugh Semple, Eastern Michigan University, Ypsilanti, Michigan USA*  
*Hank Williams and Hector Bourrowes, Ministry of Health, Jamaica*
- Space-time Assessment of Dengue Cases in Trinidad Using Geostatistical Analysis  
*Sarah Hosein, Raid Al-Tahir, and Dave Chadee, The University of the West Indies, Trinidad and Tobago*

**Platinum Sponsor Session – Esri & Spatial Innovation**  
**Room 1**

Overcoming Regional Challenges - Towards the Creation of a Caribbean Spatial Knowledge Infrastructure  
*Damian Graham, Senior GIS Specialist, Spatial Innovation, Kingston, Jamaica*

**Overcoming Regional Challenges - Towards the Creation of a Caribbean Spatial Knowledge Infrastructure**

The past several centuries has witnessed several fundamental economic transformations which have had significant impacts on society. Society has seen shifts from an agriculture economy where land is the key resource to an Industrial economy where natural resources such as coal, bauxite and labour are the main resources. In the latter part of the 20th century changes in technology and the development of the computer thrust society into the era of information technology. This era has been characterized by the proliferation of information across all geographic boundaries. At the close of the last century, society started to undergo another major shift where the principal component of value creation, productivity and economic growth is increasingly dependent on the generation and exploitation of knowledge resources. In this new knowledge economy, geographic products and services are becoming more important, integrated, pervasive and intelligent. The ability of the Caribbean region to overcome many of today's challenges will increasingly rely on how well the region shifts from being knowledge followers and consumers to becoming knowledge leaders and providers. Essential to the realization of this vision will be the creation of an information/knowledge framework that allows for the access, development, use and dissemination of this knowledge.

**Bill Meehan, Esri's Director of Utility Solutions:**

**Part 1 – Building a Business Case for Electric Utility GIS**

Utilities have justified GIS for network management, improved productivity, and accurate record keeping. Sadly, many of these implementations have not provided significant return on investment. Why? Narrow focus, viewing GIS as a mapping system, emphasis on engineering applications, lack of solid business case methodology, and failure to see GIS as an enabler for business transformation. The key to a successful deployment is the creation of solid enterprise GIS business cases and its relationship to critical utility business metrics. This presentation describes the underlying process of creating those business cases, common mistakes, and exposing what utility executives look for in successful business cases

**Part 2 – Is Your GIS Smart Grid Ready?**

Many utilities will implement Smart Grid. GIS plays a critical role. Some utilities have not fully built out their GIS, nor put in place solid processes to keep their GIS current. This presentation details the results of a benchmark study that shows where many utilities' GIS stand for Smart Grid readiness. It describes how to measure and what is needed of their GIS to meet the demands of Smart Grid.

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**12:00 Noon - 1:00 PM**

Today's lunch is sponsored by Silver Conference Sponsor, **Manatron**.

**1:00-1:30 PM Break**

Then spend some more time getting your questions answered in the exhibition!

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

**A Discussion for Natural Resource GIS Managers: Coordinating Conservation Action in the Caribbean  
Room 2**

The Nature Conservancy's Caribbean Program invites you to attend a discussion on what challenges exist in your position, ideas you have implemented, and effective solutions you have used to protect and manage natural resources in the Caribbean. Part of this discussion will present the latest conservation datasets and tools that have been developed and how they are being applied across the Caribbean. Participants will review on-going conservation GIS initiatives, identify data gaps, coordinate collaboration efforts, and discuss challenges and opportunities for advancing natural resource management in the Caribbean.

*John Knowles and Steve Schill, The Nature Conservancy, Vero Beach, Florida, USA*

**Digital Elevation Models  
Room 4**

Digital Elevation Models (DEMs) are constructed in a number of ways, with varying use limitations. DEMs are useful for modeling land surfaces, ocean floors, and other important structures in the landscape. The following presentations will explore the problems encountered by NOAA with regard to their source elevation data sets and DEM development and how it was resolved; examine the current status of elevation data in Trinidad and Tobago and the possibilities for improving them through conceptual designs; and report on the utilization of ocean modeling to manage and preserve our fragile marine ecosystems.

*Moderator: Deanesh Ramsewak, Institute of Marine Affairs, Carenage, Trinidad and Tobago*

- Digital Elevation Models: How They Can Go Wrong  
*Barry Eakins, University of Colorado at Boulder, NOAA's National Geophysical Data Center, Boulder, Colorado USA*
- Development of Topographic Information Systems for the Island of Trinidad  
*Jacob Opadeyi, Gabrielle Thongs, and Alisia Williams, The University of the West Indies, St. Augustine, Trinidad and Tobago*
- Utilizing Three-Dimensional Ocean Model Maps of Buccoo Reef for Marine Park Management.  
*Juel Paul and Cherece Wallace, Buccoo Reef Trust, Tobago*

**SDI and Metadata  
Room 5**

GIS without metadata is similar to reading a presentation without an abstract and author name. The quality of the information is not affected, but nothing is known of its origin and originator. Metadata describes other data, and provides information about an item's content. This session looks at geospatial metadata and the importance of its proper documentation. Presenters also discuss the importance of developing a comprehensive metadata profile that meets shared needs within the region. Developing a good geodetic infrastructure within each country will benefit users.

*Moderator: Tricia McLean, Office of the Prime Minister, Kingston, Jamaica*

- Regional GIS  
*Gernella Francis, University of the West Indies, St. Augustine, Trinidad and Tobago*
- Developing Data Sharing Policies for the Caribbean Region  
*Bheshem Ramlal, The University of the West Indies, St. Augustine, Trinidad and Tobago*
- Towards the Creation of a Metadata Profile for The Caribbean  
*Valrie Grant-Harry, GISP, GeoTechVision Enterprises Limited, Kingston, Jamaica  
Dr. Earl Edwards, CaribAnalytix Consultancy, Kingston, Jamaica*
- Reconstruction of the Geodetic Network of Trinidad and Tobago  
*Anesh Gopee, Sigma-square Geo-Solutions, Trinidad and Tobago*

## Emerging Technology

### Room 1

Learn about web browser-based GIS in this session. The future of GIS is likely to include geospatial cloud services, in which geographically referenced data is processed and served via remote virtual machines. This can be an attractive option for delivering services to clients, for example, real-time monitoring of assets. The use of Web services such as Flickr, Google Docs, and Jing (video screen capture service) to perform the functions that were traditionally done with software installed on an individual computer make it easy to envisage the use, exchange, and transfer of GIS data as an efficient and economical option using cloud technology. Emerging technologies in some ways, make it convenient for GIS to be deployed, however, data security seems to be of great concern, and may become problematic.

*Moderator: Shawn Charles, Grenada Electricity Services Ltd., St. George, Grenada*

- The Future of GIS – Geospatial Cloud Services  
*Frank Hardisty, Pennsylvania State University, University Park, Pennsylvania USA*
- GIS Will Be The Cornerstone for the Smart Grid  
*Brian Carr, Milsoft Utility Solutions, Abilene, Texas USA*
- Reaching the Enterprise - An Integrated GIS  
*Farrell Christopher and Kelvin Ramsook, Trinidad and Tobago Electricity Commission, Trinidad and Tobago*

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**3:00-3:30 PM**

**Break in exhibit hall**

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**3:30 - 5:00 PM**  
**Breakout Sessions**

## Asset Management

### Room 5

This session discusses varying aspects and advances in database management and planning. GIS providers are faced with increasing costs, while consumers are demanding more and better services. GIS databases are also becoming more effective when integrated with other datasets. In regard to sustainability, GIS is now being used to examine micro purchase choices and the macro policy choices.

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

- Asset Management: Increased Workflow thru Effective Database Management  
*Simone Babb, GISP and David Mulholland, GMB Engineers and Planners Inc., Orlando, Florida USA*
- Utilizing GIS for Capital Asset Management Planning  
*Douglas Culbert, HBA, PMP, BlueWire Systems Inc, Wingham, ON Canada*

- Development of a Web-based GIS: From Design to Implementation

*Renee Babb, GeoOrbis, St James, Barbados*

## GIS Customization and Web Development

### Room 1

One can well appreciate that the greatest users of the geospatial technology are the end users and the need to have the data readily available for their consumption. This group of people accesses GIS data on their respective intranet or the global internet and they facilitate, in some cases, the maintenance of the GIS dataset, by having them update the attribute data for what they interact with mostly on a daily basis. To facilitate this economical updating method, the best user friendly interfaces need to be developed to allow for the easy and efficient retrieval, analysis and display of that spatial data. This session will discuss some ideas regarding the successes in customized interfaces and the advantages of Web Development and Deployment for leveraging the technology and reaching the widest audience.

*Moderator: Shawn Charles, Grenada Electricity Services Ltd., St. George, Grenada*

- Rethinking 'Progress' in the Web-enabling of Geo Spatial Data in the Caribbean  
*Aaron Sani, Sani-International Technology Advisors Inc, Canada*
- Networks and Nodes: Using Web Atlases to Bridge Spatial Information Gaps  
*Sean Padmanabhan, Institute of Marine Affairs, Carenage, Trinidad and Tobago*
- National Geospatial Portal: Sharing GIS Web Services  
*Mark Codling, Office of the Prime Minister, National Spatial Data Management Division, Kingston, Jamaica*

## Health and Health Care

### Room 4

GIS as a tool for addressing environmental health is explored in this session. Many researchers are now using GIS technology to display and analyze demographic data, and research deviant behavior. The use of mobile technology for spatial and temporal health studies is becoming a valuable tool for some Caribbean governments.

*Moderator: Valrie Grant-Harry, GISP, GeoTechVision Enterprises Limited, Kingston, Jamaica*

- Field Force Automation for Environmental Health Officers  
*Valrie Grant-Harry, GISP, GeoTechVision Enterprises Limited, Kingston, Jamaica*  
*Ronald Chapman, Ministry of Health, St. Michael, Barbados*
- Identifying Health Concerns and Health Care Services in the Caribbean: Working Towards a Digital Health Atlas  
*Patricia Boda, Middle Tennessee State University, Murfreesboro, Tennessee, USA*
- Exploring the Correlation Between Alcohol Distribution Centres and Fatal Car Accidents

*Shem Manickchand and Raid Al-Tahir, The University of the West Indies, Trinidad and Tobago*

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## Conference Social Event

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**Friday, December 10, 2010**

**9:00 - 10:30 AM  
Breakout Sessions**

### **Vegetation and Forest Resources**

#### **Room 2**

Classifying and quantifying land cover types are fundamental to many global, regional and local issues including climate change, loss of natural resource, battling against invasive species to protect biodiversity, fair allocation of resources for people's livelihoods and for sustainable development at personal and national level. This session focuses on the continued search for sound GIS theory, classification techniques and use of remote sensing technology to both map forest and other vegetation resources and also measure changes over time, often over large areas.

*Moderator: Gabrielle Thongs, The University of the West Indies, St. Augustine, Trinidad and Tobago*

- Biophysical Characteristics of Land Cover in Trinidad: 1976-2007  
*Jacob Opadeyi and Gabrielle Thongs, The University of the West Indies, St. Augustine, Trinidad and Tobago*
- Use of PCA in the Derivation of an Algorithm for Forest Fragmentation in Trinidad  
*Adam Jehu and Raid Al-Tahir, The University of the West Indies, Trinidad and Tobago*
- Remote Sensing for Detecting and Mapping Invasive Weeds in South Coastal Texas  
*Shobha Sriharan, Virginia State University, Petersburg, Virginia USA*
- Applications of Remote Sensing in Forest Monitoring and Sustainability  
*Raid Al-Tahir, The University of the West Indies, St Augustine, Trinidad and Tobago*

### **Governance**

#### **Room 1**

Countries strive for good transparent governance in their everyday business, whether it is in evaluating land and property for tax, preparing for a regular census or demonstrating a country's profile through its national statistics. GIS is assisting in providing a planning tool to divide land into units and document property, and as a conduit for disseminating results in interactive and interesting ways. The three presentations here will explore these topics for Mauritius, South Africa and Trinidad and Tobago to show how other countries in the region could adopt the techniques as they strive towards e-government.

*Moderator: Edsel Daniel, PhD, GISP, Byrne Spatial Consulting, St Kitts*

- Census and Statistics Mapping for Republic of Mauritius - New Ways to Disseminate  
*Alan Mills, Alan Mills Consulting Ltd, Maidstone Kent, United Kingdom*
- Going Global – Integrated Revenue Systems Drive the Economy of Cape Town, South Africa  
*Ruel Williamson, Manatron Inc, Portage, Michigan USA*
- The Design of a Postal Code System for Trinidad and Tobago Using GIS Concepts  
*Rehanna Jadoo, Chaguanas, Trinidad and Tobago*

### **Utilities**

#### **Room 4**

The utility industries were early adopters of GIS technology where it is used practically throughout their businesses in asset and facility management, work management and customer service. These presentations will show how the industry is now reviewing and updating mature database management systems and GIS, and wholeheartedly adopting methods such as enterprise and web mapping solutions to streamline both their information flows and their overall operations.

*Moderator: Andrew Thorington, CARILEC, Castries, Saint Lucia*

- An Evaluation of NGC's GIS - Rollout Phase  
*Fariyal Khan, National Gas Company of Trinidad and Tobago, Port of Spain, Trinidad and Tobago*
- GIS a Tool for Optimizing the Utility Performance: An Electric Utility Perspective  
*Shawn Charles, Grenada Electricity Services Ltd, St. George, Grenada*
- Reaching the Deploying Web and Mobile Applications to the Utility Enterprise  
*David Stoner, 3-GIS LLC, Decatur, Alabama, USA*

### **Disaster Management**

#### **Room 5**

The catastrophic earthquake in Haiti and flooding events around the Caribbean in 2010 have highlighted once more the vulnerability of the region to natural disasters and the need for addressing the whole disaster management cycle from preparedness and education to response, relief and recovery. In this session, we see how GIS can provide multi-factor hazard and risk assessment to help emergency planners in the early phases of response following a sudden-onset disaster. Be prepared to contribute to the debate!

*Moderator: Craig Batstone, GeoOrbis Inc, St James, Barbados*

- Why Use GIS for Damage Assessments?  
*Valrie Grant-Harry, GISP, GeoTechVision Enterprises Limited, Kingston, Jamaica*
- Development of a GIS-Based Landslide Risk Model for Caribbean  
*Jacob Opadeyi, Gabrielle Thongs, Leah*

*Fouchong, and Roxanne Smith, The University of the West Indies, St. Augustine, Trinidad and Tobago*

- A Spatial Analysis Approach to Studying Mud Volcano Distribution in Trinidad  
*Nadine Pitamber and Raid Al-Tahir, The University of the West Indies, St Augustine, Trinidad and Tobago*

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### 10:30 - 11:00 AM

Coffee Break in exhibit hall

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## 11:00 AM -12:00 Noon

### Closing Keynote Address

#### Grand Ballroom

**Haiti Disaster Response and Lessons Learnt**  
*Desmond Dougall & Vijay Datadin, MapAction*

GIS is seen as a valuable tool for responding to disasters. It is anticipated that Climate Change, which is predicted to involve warmer sea temperatures and higher mean sea levels in the Caribbean Sea, could result in an increase in the number and severity of natural disasters in the Region. So far this year, the Caribbean has experienced 19 named tropical storms/hurricanes, double that experienced in 2009, and well above an average season as defined by the US NOAA Climate Prediction Centre based on past records.

The immediate emergency and longer term effects on the citizens of a country affected by hurricanes and similar disasters are distressing, as demonstrated by the ongoing situation in Haiti following the January 12, 2010 Earthquake. The question for GIS professionals to consider is what might be done, in the practice of GIS in the Region, to mitigate the effects of such disasters, and bring emergency assistance to and shorten the suffering of affected fellow citizens.

MapAction operates on the ground in disaster zones providing GIS mapping support for humanitarian relief. This important keynote address will discuss what was experienced and learnt on missions in the Latin American & Caribbean (LAC) Region and globally, such as the during the 2006 Suriname Flood, the 2007 Mexico Flood, the 2007 Hurricanes in Jamaica and Dominican Republic, the 2008 Bolivia Flood, the 2009 El Salvador Flood, 2010's Hurricane Tomas in Saint Lucia, and particularly the missions that responded to the 2008 Haiti Flood and 2010 Haiti Earthquake.

The presenters examine the use of GIS for providing a Common Operational Picture (COP) for administrators and field personnel responding to these recent hurricane and earthquake events. They describe issues encountered with data fragmentation, data sharing, etc. and suggest better frameworks and approaches for improving disaster

preparedness and response, to truly leverage the full power of GIS to more swiftly alleviate human suffering and save lives.

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Following this session, spend the last few minutes collecting the information you need from exhibitors prior to lunch.

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### 12:30 -1:30 PM

#### Closing Lunch

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## Afternoon Options

There are a number of opportunities to continue your conference experience this afternoon.

### 1:30 PM

#### Roundtable Discussion - *The Future of GIS in Trinidad and Tobago*

#### Room 5

The Geographic Information Systems Society of Trinidad and Tobago (GISSTT) is sponsoring a roundtable discussion on 'The Future of GIS in Trinidad and Tobago'. This roundtable will take place on Friday afternoon, beginning at 1:30 pm. We invite your participation at this forum because of the vital role that each individual has played and continues to play in the development of GIS in the country. Discussion on any aspect of the theme "The Future of GIS in Trinidad and Tobago" is welcomed; however, some key issues that may be pertinent include data sharing policies, maintenance costs, and integration issues. Attendance to this event is free of charge and as such, you are also invited to send representatives from your organization to participate in the discussions.

#### Offsite Tour: Town and Country Planning Department

Date/Time: 2:00 PM

Transportation: Courtesy of Spatial Innovision

Cost: Free

Be sure to stop by the Spatial Innovision booth during the conference to reserve your place on this tour to the Town and Country Planning Department!

## Exhibitor Directory

### 3-GIS LLC

350 Marget Street NE, Suite C, Decatur, AL 35601  
T: (256) 560-0744 / Fax: (256) 560-0746  
www.3-GIS.com, dsutton@3-GIS.com

3-GIS is a premier GIS software development and services company that provides an ArcGIS Server-based suite of thin-client asset management products to companies in the Utilities, Telecommunications and Emergency Management markets. We build, interface, and integrate asset management systems, work management systems, analysis packages and other specialized software. The 3-GIS "Express Solution" is a suite of products developed around ESRI's ArcGIS Server. Through our integrated suite we can collect, manage and disseminate geospatial data across an enterprise with an ease and simplicity never believed possible.

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### GENEQ Inc

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Since 1972, GENEQ specializes in providing state-of-the-art scientific instrumentation to the industry. In 2003, GENEQ introduced its own brand of realtime GPS receivers with the SXBlue GPS family. The SXBlue GPS is the first GIS/Mapping grade receiver to achieve sub-meter <60cm 2dRMS (95%) in realtime. The SXBlue receivers use WAAS, DGPS Beacon, Omnistar or local differential signals to full potential without the need to post-process.

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www.geoorbis.com, info@geoorbis.com

GeoOrbis, Inc. is a Barbados-based geospatial technologies firm that provides GIS and Remote Sensing consulting services, products and solutions to both private and public sector clients. Our services include geospatial project management, environmental analysis, application development,

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GISCAD Ltd. and its principals have developed some of the largest and most successful GIS implementations in Trinidad & Tobago and Barbados with other projects in the Eastern Caribbean.

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<b>CONFERENCE AT A GLANCE</b>				
<b>Monday, December 6, 2010</b>				
8:30 AM-5PM	ArcGIS Desktop I: Getting Started with GIS (Monday & Tuesday) Room 4	Mobile and Server GIS: Field to Finish (Monday & Tuesday) Room 5	URISA Certified Workshop - GIS Program Management Room 1	
<b>Tuesday, December 7, 2010</b>				
8:30 AM-5PM	ArcGIS Desktop I: Getting Started with GIS (Monday & Tuesday) Room 4	Mobile and Server GIS: Field to Finish (Monday & Tuesday) Room 5	Free A Low Cost Solution for Flood Mapping Using PALSAR RADAR Data in GIS (8:30 AM-12:00 Noon) Room 1	Free Vendor Workshop sponsored by Sani-International and GeoTech Vision Enterprises Room 2
			Free Utilities Asset Management (1:00 - 5:00 PM) Room 1	
<b>Wednesday, December 8, 2010</b>				
9:00 - 10:00 AM	Welcome & Opening Keynote Grand Ballroom			
10:00 - 10:30 AM	Break in exhibit hall (Exhibits open 10:00 AM - 6PM) Grand Ballroom			
10:30 AM - 12:00 Noon	Landuse and Land Cover Mapping Room 2	Multi-Purpose State Land Management Room 4	Successful GIS Implementation Room 1	Flood Hazard Room 5
12:00-1:00	Lunch sponsored by Esri and Spatial Innovision			
1:00-2:30 PM	Watershed Management Room 4		Remote Sensing Technology for Planning Applications Room 1	Disaster Preparedness and Climate Change Adaptation Room 5
2:30-3:00 PM	Break in exhibit hall			
3:00-4:30 PM	Environment Room 4	Web and Mobile GIS Room 1	Education Room 2	Emergency Management Room 5
4:30-6:00 PM	Networking Reception - Grand Ballroom			
<b>Thursday, December 9, 2010</b>				
9:00 - 10:00 AM	Keynote Address Grand Ballroom			
10:00-10:30	Coffee Break in exhibit hall (Exhibits open 10:00 - 3:30 PM)			
10:30-12:00	Platinum Sponsor Session - Esri & Spatial Innovision Room 1	Cadastre and Land Administration Room 4	Unified Land Information Room 5	Public Health/Disease Surveillance Room 2
12:00-1:30	Lunch sponsored by Manatron & exhibit time			
1:30-3:00	A Discussion for Natural Resource GIS Managers Room 2	Digital Elevation Models Room 4	SDI and Metadata Room 5	Emerging Technology Room 1
3:00-3:30	Break in exhibit hall			
3:30-5:00		Asset Management Room 5	GIS Customization & Web Development Room 1	Health & Health Care Room 4
	Social Event			
<b>Friday, December 10, 2010</b>				
9:00-10:30	Vegetation and Forest Resources Room 2	Governance Room 1	Utilities Room 4	Disaster Management Room 5
10:30-11:00	Coffee Break in exhibit hall			
11:00-12:00	Closing Keynote Session - Haiti Earthquake Response and Lessons Learnt Grand Ballroom			
12:30-1:30	Conference sponsored lunch			
Afternoon	1:30 PM - Roundtable Discussion - The Future of GIS in Trinidad and Tobago - Room 5		2:00 PM Offsite Tour - Town & Country Planning Department	