

## Symposium Tutorials

### ورش عمل الملتقى

**Day1: Tuesday, April 11, 2017 /Rajab 14, 1438**

**اليوم الأول: 11 ابريل 2017 الموافق 14 رجب 1438**

### Tutorial I - 3:30 - 5:30 PM

#### Insights for ArcGIS and ESRI ArcGIS 10.5 Technology Update

Firas Ghandour; Esri Saudi Arabia

#### Bio of Firas Ghandour:

- GIS Pre-Sales Consultant at Esri Saudi Arabia.
- 8+ years of experience dealing with ArcGIS technology.



#### Description:

ArcGIS Platform 10.5 is now released and considered to be a major advancement in terms of Web GIS implementation, enhanced capabilities and new applications and products. With ArcGIS 10.5 release, an organization will explore a new paradigm for implementing a modern GIS that unlocks the full potential of their data and getting the benefits like accelerated analytics with distributed computing, portal collaboration across the enterprise and interactive data exploration using a new application called Insights for ArcGIS. Insights for ArcGIS is a high performing and new innovation in spatial analysis for the ArcGIS Platform that encourages highly interactive spatial data exploration through drag-and-drop analytics experience and the ability to add data from any source. Insights is a fusion of geographic visualization and data analysis that creates a new workflow for doing iterative spatial analysis and knowledge discovery. The ability to share these findings easily with the world, and reuse modeling workflows, further helps a wide range of users take advantage of the ArcGIS platform. Throughout this session, Insights will be demonstrated, working through several workflows and its functionality.

#### Workshop schedule:

- ArcGIS 10.5 Enterprise and Portal updates
- ArcGIS 10.5 Applications and Road Map
- Insights for ArcGIS

#### Objectives:

- Understand the differences between ArcGIS Enterprise and Server for ArcGIS.
- Get to know the major changes and updates of ArcGIS 10.5 Enterprise.
- Illustrate ArcGIS Applications' Road Map.
- Demonstrate how Insights for ArcGIS unlocks the power of GIS with a modernized user experience.

## **Tutorial II - 3:30 - 5:30 PM**

### **Challenges in ortho-mosaic production & Topoflight 3D flight planning**

Jean-Sébastien Bouffard; pre-sales engineer – PCI Geomatics, Canada

Jeffrey Cullano; Business & IT Manager, Aeromap Technology Systems

#### **Bio of Jean-Sébastien Bouffard:**

Jean-Sébastien Bouffard is a pre-sales engineer at PCI Geomatics, a world leading developer of remote sensing and photogrammetric software and systems that helps customers get more from their imagery. He primarily assists customers and the sales team with the technical aspects of products. He earned a diploma in Computer Programming from Algonquin College, and his BA and MS in Geomatics from Carleton University.



#### **Description - ortho-mosaic production**

The aim of this workshop is to discuss and understand challenges encountered in ortho-mosaic production, and how to overcome those challenges with the use of techniques and technology developed by PCI Geomatics. Additionally, live demonstrations will be included to highlight the importance of producing high-quality results for various applications, such as change detection.

\*\* The planned duration of the workshop is about 1.5 hours.

#### **Bio of Jeffrey Cullano:**

Jeffrey Cullano is a Business IT Manager at Aeromap Technology Systems, a well-known company that provides complete mapping solution from Aerial and Satellite data acquisition to Photogrammetry and GIS implementation. He supports the technical aspect of the products, and also manage all the clients of Aeromap in the industry. He earned a Bachelor Degree in Information Technology from the Philippines.

#### **Description - Topoflight 3D flight planning**

The aim of this workshop is to discuss and understand the importance of 3D Flight Planning Software and the benefits you can get by using it. Develop by Topoflight System, this software is one of the best flight mission planner you can get in the market. Live demonstration on how to use this software to plan Photogrammetry and LiDAR mission and supports frame, line and LiDAR sensors

\*\* The planned duration of the workshop is about 0.5 hour.

**GIS**

ملتقى نظم المعلومات الجغرافية  
بالمملكة العربية السعودية  
GIS Symposium  
in Saudi Arabia

# الملتقى الحادي عشر لنظم المعلومات الجغرافية

بالمملكة العربية السعودية

## "The 11<sup>th</sup> GIS Symposium in Saudi Arabia"

April 11 - 13, 2017 / Rajab 14 - 16, 1438

١٦-١٤ رجب ١٤٣٨ هـ / ١١ - ١٣ ابريل ٢٠١٧ م



جامعة الإمام عبد الرحمن بن فيصل  
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

### Tutorial III - 5:30 - 7:30 PM

### ورشة عمل 3 - 5:30 - 7:30 م

#### Regional Workshop on "Environment of Arabian Gulf Basin, Issues and solutions"

Saudi Geographical Society- Group of Climate, Environment and water" in Collaboration with Department of Geography and GIS- College of Arts-Imam Abdulrahman Bin Faisal University

#### الورشة الاقليمية حول "بيئة حوض الخليج العربي، القضايا والحلول"

الجمعية الجغرافية السعودية بالتعاون مع قسم الجغرافيا ونظم المعلومات الجغرافية كلية الآداب جامعة الامام عبد الرحمن بن فيصل

#### Workshop Program

#### برنامج الورشة

Statement	Time - الوقت	البيان
Welcome Statement Dr. Mohamed Shawqi Makki President of Saudi Geographic Society.	17:30 – 17:40	كلمة الترحيب د. محمد شوقي مكي رئيس الجمعية الجغرافية السعودية
Opening Statement : Dr. Hassan Khat, Head of Climate, Environment and Water Group of Saudi Geographical Society.	17:40 – 17:45	كلمة الافتتاح د. حسن خياط رئيس مجموعة المناخ والبيئة والمياه الجمعية الجغرافية السعودية
Documentary	17:45 – 17:50	فيلم وثائقي
Integrated Environmental Assessment of the Arabian Gulf Basin Prof. Asma Abahussin Earth Sciences and Environment, Arabian Gulf University, Kingdom of Bahrain. Dr. AL jwhara Yahya Al Yahya University of Imam Abdul Rahman bin Faisal, KSA	17:50 – 18:05	التقييم البيئي المتكامل لحوض الخليج العربي أ.د. أسماء أبا حسين أستاذ علوم الأرض والبيئة، جامعة الخليج العربي، مملكة البحرين د. الجوهرة بنت يحيى يحيى جامعة الامام عبد الرحمن بن فيصل
The role of governmental Institutions and private sectors in the conservation of the environment of Arabian Gulf Basin. Dr. Taha Zaatari Saudi Arabia's negotiator at IPCC	18:05 – 18:15	دور المؤسسات الحكومية و القطاع الخاص في حماية بيئة حوض الخليج العربي د. طه زعتري مفاوض المملكة العربية السعودية في IPCC
The role of Modern Technologies in monitoring the environmental changes of the Arabian Gulf Basin Dr. Fahd Almotlag Remot Sensing & GIS PhD candidate, King Saud University KSA & University, USA Dr. Ashraf Hamouda GIS specialist, Imam Abdul Rahman bin Faisal University, KSA	18:15 – 18:25	دور التقنيات الحديثة في مراقبة ورصد التغيرات في بيئة حوض الخليج العربي د. فهد المطلق طالب دكتوراه، جامعة الملك سعود - الولايات المتحدة الأمريكية د. اشرف حمودة استاذ نظم المعلومات الجغرافية جامعة الامام عبد الرحمن بن فيصل
Discussion	18:25 – 18:45	النقاش
Prioritizing of Environmental Issues of the Arabian Gulf Basin	18:45 – 18:55	ترتيب الأولويات لقضايا بيئة حوض الخليج العربي
Recommendations	18:55 – 19:05	التوصيات
Voting on the suggestion of organizing an International Symposium on the "Environmental Issues of the Arabian Gulf"	19:05 -19:15	التصويت على مقترح تنظيم ندوة عالمية حول "بيئة الخليج العربي"
Workshop wrap up and closing	19:15 – 19:25	ختام الورشة
Distribution the certificates for Attendances	19:25 – 19:30	تسليم شهادات الحضور

For inquiries and registration please contact the following e-mail: [sustageo2030@gmail.com](mailto:sustageo2030@gmail.com)

**Day2: Tuesday, April 12, 2017 /Rajab 15, 1438**  
**اليوم الثاني: 12 ابريل 2017 الموافق 15 رجب 1438**

**Tutorial I - 3:30 - 5:30 PM**

**The Role of Drones in Expanding Geospatial Data Acquisition Capabilities.**

Dr. Qassim Abdullah; Senior Geospatial Scientist, Woolpert Inc., USA.

**Bio of Dr. Qassim Abdullah:**

**Senior Geospatial Scientist and Associate at Woolpert, Inc., USA.**

Dr. Qassim Abdullah is an accomplished scientist and an innovator with more than 38 years of combined industrial, research and development, and academic experience in analytical photogrammetry, digital remote sensing, and civil and surveying engineering. His current responsibilities include designing and managing strategic programs to develop and implement new geospatial technologies focused on meeting the evolving needs of geospatial users.



Dr. Abdullah is a published author of over 50 technical papers and reports, a professional surveyor and Mapper, leading the American Society and Remote Sensing (ASPRS) efforts in drafting the new Mapping Accuracy Standard for Digital Geospatial Data. Dr. Abdullah serves as an adjunct professor at the University of Maryland. Dr. Abdullah also teaches graduate courses on Unmanned Aerial Systems, Photogrammetry and Remote Sensing at Pennsylvania State University.

**Description:**

The geospatial community is witnessing a revolution in the use of drones or the Unmanned Aerial System (UAS) for aerial data acquisition. Such exponential increase in the use of drones for mapping purposes is creating great opportunities as well as challenges. Geospatial data providers are trying to figure out where products derived from these drones fit in their production workflow while data users are trying to figure out whether such products are accurate enough for their projects.

The tutorial will demonstrate the different types of drones and sensors used for geospatial data acquisition. It will also demonstrate recent studies in analyzing data accuracy and comparative studies to products from conventional platforms and sensors used within the geospatial community.

## **Tutorial II - 3:30 - 5:30 PM**

### **Open Source GIS**

Dr. Rifaat Abdalla King Abdulaziz University, KSA.

#### **Bio of Dr. Rifaat Abdalla:**

Dr. Rifaat Abdalla, Head, Hydrographic Surveying Department, King Abdulaziz University, Jeddah, KSA



#### **Description:**

The significant contributions that open source GIS provide for the GIS user community stem from the user ability to access free online functionality, as well as the capacity to customize and update the source of the program to address the specific needs of the project. Open source GIS is now supported by a wider community and standardized under the umbrella of The Open Source Geospatial Foundation (OSGeo), a volunteer community that is aiming at addressing and advancing the application and development issues related to open source GIS.

This tutorial will provide a general overview of the concepts and trends in open source GIS with emphasis on discussing the capabilities and functionalities of QGIS, one of the commonly used, advanced Open GIS software.