

## New Chairman's welcome

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### Executive Committee

Chair:  
David Hodgson

Executive Secretary:  
Gareth Davies

Treasurer:  
David Morten

Vice-Chair:  
Chetan Pradhan

Past Chair:  
Graham Deane

Clive Farquhar  
Jan Jackson  
Iain MacInnes

Welcome to another issue of *Overview*, and my first as BARSC Chairman. I am pleased to report that the BARSC Executive has been very active over the last six months in revaluating and undertaking our priority activities on behalf of members.

To support members' R&D activity on the **EC Framework programme (FP7)** wherever possible, we are providing support to bidders. We arranged for Gill Richards (*space@fp7uk.co.uk*), UK National Contact Point for Space, to talk to members about FP7, and are circulating general information. 2010 will also be a key time for us to put forward our views on FP8.

With Earth Observation a core activity for many members, we are pleased to be represented in the UK government's **Space Innovation and Growth Team (IGT)**. The Space IGT is a joint government and industry initiative which will define a 20-year vision and strategy for the future growth of the space industry. The IGT is a large activity that is expected to publish early findings around the end of 2009, with the full report published in 2010. BARSC is represented within the Commercial EO subgroup of the Markets working group. IGT materials have been circulated to BARSC members and I urge you to make your comments. Contact Nick Veck for more information (*nick.veck@infoterra-global.com*).

In upcoming areas such as the European Space Agency (ESA) **Integrated Application Programme (IAP)**, we

are committed to working with the UK Technology Strategy Board (TSB) to ensure members have access to information about the programme, and understand what makes a successful project. We also confirmed our membership and have re-engaged with the All Party Parliamentary Environment Group (APPEG) - more news to follow on this, and also on our engagement with the Innovation Campus and UK ESA facility at Harwell. BARSC has become a full member of the Association for Geographic Information (AGI), as we build our efforts to place remote sensing in the wider context of spatial information. We also had a valuable meeting with David Williams, DG of the British National Space Centre (BNSC), agreeing to meet regularly to discuss opportunities and issues affecting our industry.

In September, we held the **BARSC Annual Lunch**, and were privileged to hear National Centre for Earth Observation (NCEO) director Alan O'Neill speak on his views of the future for EO in the UK. You can be assured that discussions will continue with NCEO, to ensure we work together to maximise the benefits of a vibrant and healthy UK remote sensing industry. As well as good food, this annual event is the UK remote sensing industry's key

*continued overleaf...*

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networking opportunity attended by both members and industry figures. If you couldn't make it, we look forward to seeing you next year.

BARSC is an organisation run by members for members. If you have any comments on the above, especially about priorities and initiatives you would like to see, I would very much like to hear from you.

Kind regards, David  
[chairman@barsc.org.uk](mailto:chairman@barsc.org.uk)

FP7: [www.fp7uk.dti.gov.uk/site/thematicareas/space](http://www.fp7uk.dti.gov.uk/site/thematicareas/space)

Space IGT: [www.intellectuk.org/content/view/5199/598](http://www.intellectuk.org/content/view/5199/598)

### **New upgrade to PCI's Geomatica software including its Advanced SAR Polarimetry Workstation**

PCI have announced the availability of an upgrade to its remote sensing and image processing software. Geomatica® 10.2.1 is the latest version of the image-centric desktop software which provides users with additional satellite sensor support as well as new functionality for the SAR Polarimetric Workstation (SPW). Additional support for the high resolution X-band SAR imagery provided by TerraSAR-X is also included in this upgrade.

The SPW provides a complete set of tools and applications designed specifically for the processing and analysis of Polarimetric SAR (POLSAR) data, and version 2.1 is now available and compatible with Geomatica 10.2.1. This includes the Touzi Discriminators which make it easier to detect a particular target in a Polarimetric SAR image. The Touzi Decomposition introduces new parameters which remove certain ambiguities not previously understood, and provide vastly superior results as compared to conventional algorithms.

For more information, contact:  
[macinnes@pcigeomatics.com](mailto:macinnes@pcigeomatics.com)

## **New associate members of BARSC**



Dr Wyn Cudlip, who recently left QinetiQ to start up his own consultancy company, GeoSeren Ltd., contributes



*Dr Wyn Cudlip, UK delegate to CEOS WGISS*

to and attends meetings of the Committee on Earth Observation Satellites (CEOS) Working Group on Information Systems and Services (WGISS) on behalf of BNSC.

CEOS provides an international forum to foster coordination between the world's space agencies; and WGISS continues to focus most of its efforts in coordinating such activities, in support of the Group on Earth Observation (GEO) tasks aimed at creating the Global Earth Observation System of Systems (GEOSS).

For more information, contact:  
[wcudlip@geoseren.com](mailto:wcudlip@geoseren.com) or [www.wgiss.ceos.org](http://www.wgiss.ceos.org)

## **QuarryOneEleven**

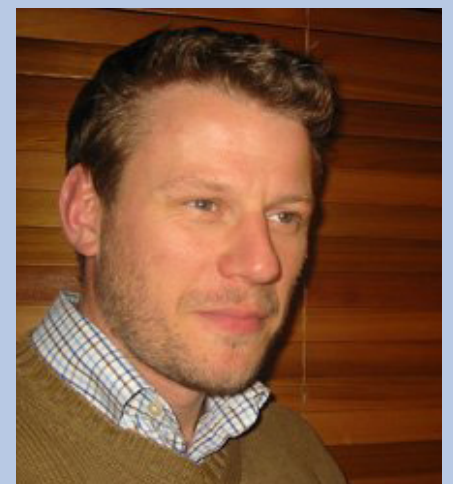
Sales promotion and marketing for the geospatial industry

Quarry One Eleven Ltd. is a 5 year old sales and marketing agency that specialises in promoting 'geo-based' companies' products and services throughout the EMEA marketplaces. The company exists because very often the benefits of using technical products can be difficult to communicate to prospective users and the marketing of these can be overlooked in the belief that they will sell themselves.

Quarry One Eleven marries sales and marketing expertise with knowledge of the ideas and concepts behind the GIS and remote sensing industries. Using this combination of skills, the company has worked to promote

and sell services and products from companies such as LizardTech (MrSID) and TerraGo Technologies.

For more information contact:  
[alastair@quarry-one-eleven.com](mailto:alastair@quarry-one-eleven.com)

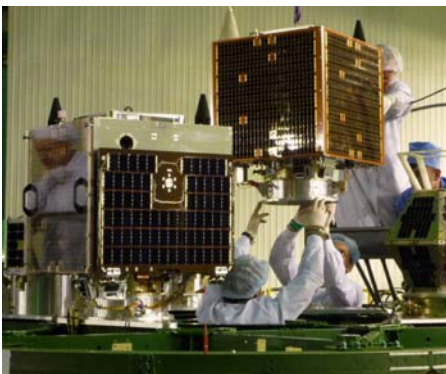


## A New Era for the Constellation

DMCii is pleased to announce the successful launch of next generation DMC imaging satellites UK-DMC2 and Deimos-1. The new satellites increase the DMC imaging capacity twenty-fold and now provide 22 metre optical imagery resolution at the standard DMC 640km swath width, doubling the number of pixels per hectare.

The British-built satellites were launched onboard a Dnepr rocket from the Baikonur Cosmodrome at 18:45 UTC on Wednesday, 29th July 2009.

Both satellites bring significant enhancements to the DMC, which provides Earth Observation imagery for a range of commercial and environmental applications as well as to the International Charter: Space and Major Disasters. The addition of these further two satellites ensures the continuity of the multi-satellite service from DMCii.

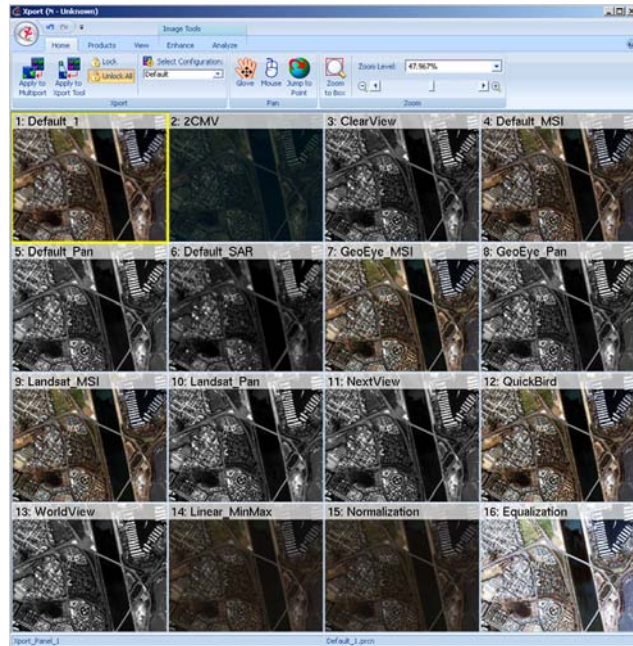


UK-DMC2 and Deimos-1 were designed and built by SSTL at the company's state-of-the-art facilities in Guildford, UK. Deimos-1 was manufactured for Spanish customer, Deimos Imaging, while UK-DMC2 is owned by SSTL and operated by the company's subsidiary, DMCii.

The X-band downlink and enhanced onboard storage, coupled with near real-time imaging capability over partner ground-stations increases the total data throughput significantly.

For more information, contact:  
[d.hodgson@dmcii.com](mailto:d.hodgson@dmcii.com)

## SOCET GXP® v3.1 debuts later this year



*The Xport analysis and visualization window*

The official release of SOCET GXP® v3.1 will take place later this year. Highlights of the new version include:

### Usability

Ease-of-use is a critical component of SOCET GXP and BAE Systems has added many new capabilities in this area.

### Xport

The Xport is a new window in SOCET GXP used for in-depth analysis and quick visualization. Multiple image-processing algorithms are applied to separate panels in real-time.

### Sensors and data

SOCET GXP v3.1 supports TerraSAR-X, RADARSAT-2, EROS-B, and FORMOSAT-2 sensor models, and loads standard data formats.

### Video analysis

The SOCET GXP Video Analysis tool reads and displays live video feeds or saved video files from airborne sensors.

### Hyperspectral and multispectral analysis

Multiple algorithms are added for processing information

from hyperspectral and multispectral image bands.

### Terrain analysis

New tools for slope and aspect analysis add visualization capabilities to complement terrain-shaded relief displays.

### Vector analysis

Use SOCET GXP v3.1 refined vector analysis tools to quickly locate and download critical information to aid analysis.

### Product generation

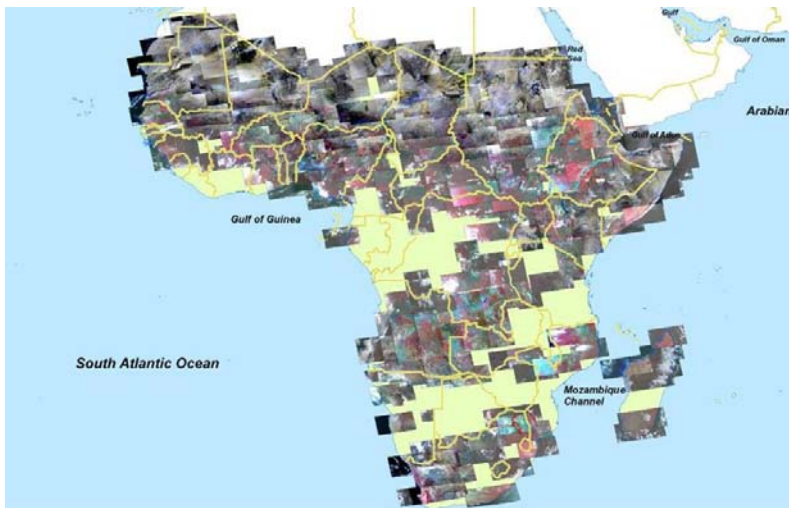
Product generation is one of SOCET GXP's most valuable features. The tool has been restructured to separate the process of creating and editing a template from applying the template.

### Web services

Connect to OGC-compliant Web-content services using standard protocols for requests and responses so that geographic information can be served over the Internet.

For more information, contact:  
[carolyn.gordon@baesystems.com](mailto:carolyn.gordon@baesystems.com)

## Operational GMES data supply from the DMC satellites in 2009



The GMES programme of the European Commission and the European Space Agency (ESA) has stepped up a gear, and is now providing access to imagery for projects from a variety of ESA's Third Party Missions, of which DMCii is a contributor.

Following a consultation process with projects across Europe and associates around the globe, DMC imagery has been selected for a variety of datasets. The datasets will be used for monitoring many different environmental and man-made phenomena including forest fires, cultural heritage, disaster events, desertification and deforestation.

One particularly large project DMCii has commenced for GMES is the acquisition of up-to-date high resolution imagery of the majority of the land area of Africa. Imagery will be acquired over a period of only 12 months, with low cloud cover. Previous attempts to perform such an ambitious data collection have failed, with useable datasets spanning over three years or more. The cloud cover in tropical areas renders conventional optical satellite systems ineffective and requires the rapid revisit of a constellation to achieve regular annual rather than decadal datasets.

This coverage will provide a much needed snapshot of the land cover conditions of Africa, and will reveal important information about our climate and environment.

In addition to the data supply, DMCii will be interfacing its systems with ESA to allow for quicker and more efficient imagery ordering and delivery, and to provide advanced cataloguing facilities for the benefit of all European users.

The GMES initiative has important benefits for all Earth Observation data users and will put into place services moving towards self-sustainability.

Data will be made available by the ESA to licensed users and can also be purchased from DMCii. The remaining African countries will also be imaged to complete the dataset in archive.

*For more information, contact:  
sales@dmcii.com*

## Intergraph sponsors DGI 2010

Intergraph will be sponsoring and exhibiting at Defence Geospatial Intelligence (DGI) in January 2010, showcasing GeoMedia Motion Video Exploitation & GeoMedia 3D.

DGI is Europe's largest annual gathering dedicated to high-level discussion addressing the major challenges of the defence and government geospatial intelligence community.

*For more information, contact:  
richard.goodman@intergraph.com*

## Insurance Users supported in Catastrophe Event Monitoring

Logica are currently leading an ESA VAE project to expand and develop the uptake of EO services in the Insurance market sector. Supported by BARSC member FugroNPA, this exciting 18 month project has built an active community of leading insurance stakeholders & users including claims managers, loss adjusters and underwriters, all with a common focus in catastrophe management.

The team are currently developing a set of realistic service trials in close cooperation with the insurance user community and will aim to deliver these trials during the first half of 2010.

The service trials will focus on the areas of:

- Offshore Asset Monitoring (oil platforms/rigs) following catastrophic events – providing reports on rig positions pre and post event.



- Post Event Land based asset Management - providing information for users on specific asset status following a catastrophic event.

- Subsidence Event Mapping – utilising historical claims data and comparing with current methods, and looking at trends of behaviour to evaluate the benefits of using PSInSAR to the insurance community.

In addition, the team are examining future trends in both the insurance sector and the remote sensing arena and will investigate new methods of aligning data access with licencing models to this community, with the aim of continuing the exciting growth and expansion of EO services into new market sectors.

*For more information, contact:  
gary.timms@logica.com*