

SAFEMINE HELPS SOUTH AFRICAN MINES MEET NEW SAFETY REGULATIONS

South Africa's Department of Mineral Resources is now enforcing new regulations compelling surface mines to enhance safety for all **Trackless Mobile Machinery**, (TMM) such as trucks. To meet the new requirements, South African mines continue to choose **Hexagon Mining's** safety technology, **SAFEmine**. Central to SAFEmine's appeal is its world-leading **Collision Avoidance System**, (CAS) which helps mines improve safety and efficiency, by protecting both human and mechanical assets. Via local distributor, Trysome, **SAFEmine CAS** is at work in more than 9,000 mining vehicles across South Africa. In recent months, five additional mine sites have committed to installing the new, fully compatible, third-generation **SAFEmine CAS** onto their fleets. **SAFEmine CAS** is proven to significantly reduce mining accidents and save millions of dollars by reducing the risk of business disruption and maintenance costs. www.hexagonmining.com

GLOBAL MAPPER AND GM LIDAR SDKS V16.2 RELEASED

Blue Marble Geographics has released version 16.2 of the **Global Mapper Base Software Development Kit (SDK)** along with the **Global Mapper LiDAR Module SDK**. This update, released in conjunction with version 16.2 of the standard version of **Global Mapper**, includes numerous performance improvements, support for several new and updated file formats, expanded online data availability, and much more. **Global Mapper** is an affordable and easy-to-use GIS application capable of displaying, converting, and analyzing virtually any type of geospatial data. The **Global Mapper SDK** provides software developers with a toolkit for accessing much of this functionality from within an existing or custom-built application. **Blue Marble's** geospatial data manipulation, visualization and conversion solutions are used worldwide by thousands of GIS analysts at software, oil and gas, mining, civil engineering, surveying, and technology companies, as well as governmental and university organizations. www.bluemarblegeo.com



CGG GEOSOFTWARE DONATES GEOPHYSICAL SOFTWARE TO STANFORD UNIVERSITY

CGG GeoSoftware has donated its **Hampson-Russell** and **Jason** geophysical software suites, covering all aspects of reservoir characterization, to **Stanford University, California**. The donated software suites, worth over \$3 million, will enable students to better explore reservoir characterization and conduct further research on seismic inversion. **Kamal al-Yahya, Senior Vice President, CGG GeoSoftware** said, "CGG and Stanford University share the same commitment to technical excellence and innovation. The technical in-

novations we see year after year from the SRB team are very beneficial to CGG and the rest of the industry." **Tapan Mukerji, Associate Research Professor of Energy Resources Engineering and Geophysics department, Stanford University**, said, "A great benefit of such a donation is that the students can focus on their research rather than on the algorithms since these have already been well-tested by developers of the software. The researchers are very grateful for this opportunity provided by CGG." www.cgg.com

ORBIT GT ESTABLISHES ESRI PARTNERSHIP

Orbit GT is proud to announce that it has been established as **Esri Partner**. "Orbit GT has been providing tools to integrate **Mobile Mapping** and **Oblique** data into **Esri** software for 2 years already", says **Peter Bonne, CEO of Orbit GT**. "The Esri Partnership recognises this significant effort that has been made and opens the road to more intense co-operation regarding the disclosure of complex and large datasets throughout

the **Esri ArcGIS®** platform." Orbit GT provides plugins for ArcGIS to support huge volumes of Mobile Mapping and/or Oblique content throughout any organization, without limits on data size or number of users, and with high performance. More generic and dedicated integrations will be made available, providing the worldwide ArcGIS user base with high end capabilities in exploiting Mobile Mapping and Oblique content. www.orbitgt.com

HEXAGON SMART M.APP®

While maps are beautiful to look at, even interact with, they are static. Maps reflect "what was". Maps don't provide answers to the complex questions we face in the world today. **Hexagon Geospatial** help make sense of the dynamically changing world. Geospatial data is like the wind, it can be confusing, exciting, fleeting, even devastating. Maps need to reflect "what is", and "what can be". **Hexagon Smart M.Apps®** are targeted, lightweight market applications that solve real business problems.

They deliver a fresh and powerful way to gain insight into the dynamically changing world. Each **Hexagon Smart M.App** combines multi-source content, sophisticated analytics, and tailored workflows, fused together into a dynamic user experience. **Hexagon Smart M.App** breaks down the walls between geospatial content, software, and solutions, fusing them together to form an insightful experience for the end user. www.hexagongeospatial.com/smartmapp

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RiCOPTER ready for take off



RIEGL VUX-1 UAV scan data



The RiCOPTER: First fully integrated LiDAR system solution
for professional UAS surveying missions!

The RiCOPTER is a high-performance UAS equipped with RIEGL's VUX-1 UAV survey-grade LiDAR sensor to offer a fully integrated turnkey solution.

The robust and reliable platform design integrates the RIEGL VUX-1 UAV LiDAR sensor, IMU/GNSS unit with antenna, control unit, and digital cameras. The turnkey system provides remarkable measuring characteristics: 230° Field of View, 350,000 meas./sec., range up to several hundred meters, and multiple target capability.

RiCOPTER is ideally suited for applications such as precision agriculture, topography in open-cast mining, terrain and canyon mapping, cultural heritage documentation, corridor mapping, and many more.

RiCOPTER marks the first complete UAS LiDAR solution from one manufacturer!



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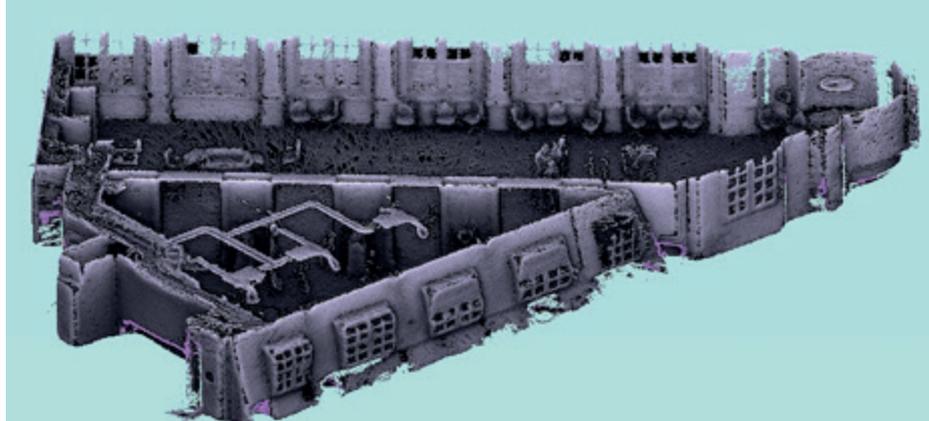
EVERBRIDGE AND IDV SOLUTIONS ANNOUNCE TECHNICAL PARTNERSHIP, INTEGRATION

IDV Solutions LLC has formed a technical partnership with Everbridge, the worldwide leader in unified critical communications. Through the partnership, Everbridge's Mass Notification platform is now available as an integration into IDV Solutions' Visual Command Center® Enterprise Risk Visualization (ERV) software. The new integration empowers organizations to protect employees, facilities and business continuity by instantly communicating with selected contacts who could be threatened by severe weather, disease outbreaks, acts of terrorism, cyberattacks, IT incidents and other risk events. The cloud-based Everbridge platform offers a level of security, performance and availability that ensures that the right messages get delivered to the right people, at the right time. When a risk is detected near an asset or employee location, Visual Command Center automatically generates an alert and provides tools to assess whether the risk is a threat and take immediate action to mitigate the impact of the threat. www.idvsolutions.com
www.everbridge.com

ORBIT GT AND AERODATA INTERNATIONAL SURVEYS SIGN RESELLER AGREEMENT

Orbit GeoSpatial Technologies is proud to announce that Aerodata International Surveys, Belgium has been selected as Reseller of Orbit GT Oblique software products. "We are pleased to have signed a Reseller Agreement with Aerodata International Surveys", says Peter Bonne, CEO of Orbit GT. "We look forward to a great co-operation, spread the use of oblique content and bring better quality, tools and workflows to our joint customers"

"The solutions from Orbit GeoSpatial Technologies, especially the Oblique software products are leading edge and complementary to the services of Aerodata International Surveys" says Bart Tuyteleers, Group Sales Director of Aerodata. "Clients all over the world look more and more for high resolution oblique imagery together with a robust tool allowing the visualize, measure, plan in Oblique and create objects." www.orbitgt.com
www.aerodata-surveys.com



PROTEUS ANNOUNCES EXCLUSIVE PARTNERSHIP WITH GEOSLAM

Proteus has signed a distribution agreement for the Middle East region with Geoslam Ltd for the latest ZEB1 handheld laser scanning technology. Proteus will also provide laser scanning services globally with focus on providing a complete package, including scanning and modelling. "We are very excited about this new offering. The ZEB1 laser scanner is revolutionary in its mobility, providing accurate data of previously difficult to survey locations" states Paul Crisp, Director at Proteus. Geoslam's Neil Pollock

adds "Proteus was an obvious distributor, they are currently a recognised industry leader within the geospatial community and have the perfect experience to champion this innovative technology and enable its' successful resell." The ZEB1 is a handheld 3D laser scanner, suitable for indoor, outdoor and underground use. It is lightweight and compact, providing the flexibility to capture detail wherever and whenever an accurate laser survey is required.

www.proteusgeo.com/laserscanning

URBAN CHALLENGE LOOKING FOR INNOVATORS

The quality of satellite imagery is improving year by year, to the point where it is now possible to read signage and see line markings clearly. Not only has there been an improvement in visual resolution now satellites like WorldView-2 and WorldView-3 are delivering imagery in 8 spectral bands, more than the eye can see. To take advantage of these developments European Space Imaging is offering the High-Res Urban Challenge as part of this year's Copernicus Masters focused on European Large Urban zones. Participants could potentially win a valuable data package of satellite imagery worth 20,000 Euro. This year's Challenge is looking for innovators who want to use satellite imagery in their ground-



breaking product or solution. To help creators test and prove their ideas a sample data package of almost cloud-free, 40 cm, 8-band, WorldView-2 imagery is available for registered participants. www.euspaceimaging.com

EOMAP PROVIDES SHALLOW WATER BATHYMETRY FOR THE SOUTH CHINA SEA

EOMAP Asia Pacific has launched the most up-to-date and detailed data set for the islands in South China Sea, generated by groundbreaking Satellite Derived Bathymetry techniques. The islands of the South China Sea are several hundred km away from the nearest coast and are surrounded by water deeper than 1000m, which is assumed to hold extensive of oil and gas reserves. The area is a disputed territory of several countries within the Asian region. Data about the underwater

topography are outdated or not accessible. Instead of relying on acoustic or airborne methods to map the over 250 islands, EOMAP used satellite image technologies, a rapid and cost effective solution. With EOMAP having mapped the Great Barrier Reef of Australia, the Mexican Riviera Maya and the Persian Gulf this is the next big step towards an increasing and updated bathymetric database, which is offered to commercial and governmental clients both alike. www.eomap.com

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hexagongeospatial.com/smartmapp



ALTUS-PS MERGES INTO SEPTENTRIO SATELLITE NAVIGATION

Septentrio Satellite Navigation has completed the acquisition and integration of **Altus Positioning Systems**, forming a global leader in the provision of highly accurate and reliable GPS/GNSS positioning equipment. The integrated company will continue to focus on developing emerging markets across the globe and increase advancements in the field of GIS. "At the heart of this fusion are our customers" stated **Antoon de Proft, CEO and President of Septentrio**, "They will benefit from this unique opportunity which combines the knowledge and experience of Septentrio in GNSS positioning with experience of Altus-PS in survey, mapping and GIS; and from an expanded offering of products and services under one group." This partnership is now even stronger as the acquisition brings key capabilities and synergies in other areas such as testing, manufacturing and delivery which will now be based from Septentrio's corporate HQ located outside the Belgian city of Leuven. www.septentrio.com

CLARK LABS AND NASA DEVELOP NATIONAL PROGRAM

Clark Labs and the **NASA DEVELOP National Program** have recently signed an agreement for the provision of the **TerrSet** software for 9 of their research and application nodes. The NASA DEVELOP program fosters an interdisciplinary environment where applied science research projects integrating NASA Earth observations are conducted with the guidance of NASA and partner science advisors. Such research projects span the globe with their focus on local scale environmental issues and include such applications as agricultural monitoring, ecological forecasting, and water resource management. **James Toledano, Executive Director of Clark Labs**, states, "The TerrSet software gives scientists the means to assess human impacts on the environment and plan for future interventions. Clark Labs is proud to provide these tools for the research projects in the NASA DEVELOP program." Clark Labs maintains a variety of agreements with non-profit organizations to assist in the cultivation of **Earth Science** research. www.clarku.edu



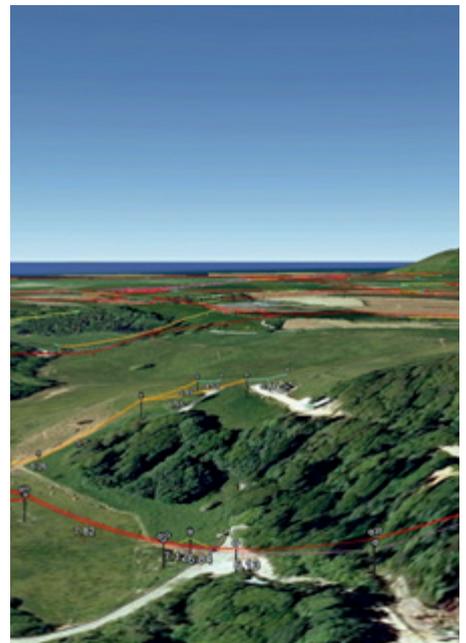
PRINCE HARRY CELEBRATES ACHIEVEMENTS OF HUMANITARIAN MAPPING CHARITY, MAPACTION

Prince Harry attended a special reception in June to celebrate the achievements of humanitarian mapping charity, **MapAction** - a charity of which His Royal Highness has been patron since 2007. Prince Harry joined a select gathering of key supporters to celebrate the charity's recent achievements, with particular focus on its vital role in the response to the **Ebola outbreak in West Africa** and the recent **Nepal earthquakes**. Prince Harry gave a speech at

the event and reflected on what he had heard, "I'm sure everyone here will share my admiration for the courage shown by MapAction's volunteers in responding so readily to the Ebola outbreak - this is nothing less than I have come to expect of them over my years as patron." Prince Harry continued, "Sadly, as the global context becomes increasingly unpredictable and volatile, the need for MapAction's service is growing." www.mapaction.org

FUGRO AWARDED PROJECT TO DEPLOY ROAMES SERVICE IN UK

Fugro has been contracted by **SP Energy Networks** (an Iberdrola company) to deploy the **Roames** service over 13,200 circuit kilometres of the utility company's overhead power line network in Scotland and Wales as an integral part of their **Virtual World Asset Management** innovation project. By implementing Roames on close to one third of its overhead distribution network, SP Energy Networks will work with Fugro to quantify the operational and business benefits of virtual world asset management solutions to UK distribution network operators. As part of this project, Fugro will deliver vegetation and conductor clearance services built upon a centimetre accurate 3D model of the real world environment, to assess and monitor the network's condition and performance. Fugro monitors more than one million spans of network on a yearly cycle through Roames, with the service available in Australia, Europe and the USA. www.fugro.com



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UTILITIES BENEFIT FROM THE INTERGRAPH SAP INTEGRATION MODULE

Multiple utility companies around the world, including **Sacramento Municipal Utility District (SMUD)**, have successfully deployed **Intergraph's SAP integration module**. The integration module connects **Intergraph G/Technology**, a geographic information system (GIS) specifically designed for utility companies, to SAP applications, improving the integration and management of core IT processes and business functions, including asset and work management. The Web Services-based integration module removes the need for point-to-point interfaces between systems, which are costly to implement, maintain and upgrade. It enables enterprise application integration through any Service Oriented Architecture based integration platform, such as SAP PI, Software AG webMethods, Microsoft BizTalk and Oracle SOA Suite. "Leading companies are leveraging Intergraph's SAP integrations to achieve a fundamental goal: seamless connection between core and complementary systems, which overcomes the challenges of manual input and redundant data," said **Maximilian Weber, senior vice president, EMEA, Intergraph SG&I**. www.intergraph.com.

GEODECISIONS' GEOILS INTELLIGENT LOCATION SERVER USED TO TRACK ICEBERGS

A Canadian expedition team used **GeoDecisions' GeoILS** platform to help track icebergs during a voyage to better understand how icebergs drift. An intelligent location server using the **Esri ArcGIS** platform, GeoILS enables users to monitor and locate assets and facilitate quick and coordinated responses. **GeoDecisions** partnered with **Solara Remote Data Delivery Incorporated, Canada's Carleton University**, and **Esri** during the project. Led by University of Manitoba Scientist David Barber, the crew of Canadian Coast Guard Icebreaker Amundsen sailed off the coast of Newfoundland and Labrador to research ice hazard mitigation, the effects of climate change, and polar region technology requirements. GeoILS location intelligence helped crew members visualize, analyze, and leverage project-pertinent data. During the expedition, researchers and scientists used GeoILS to assess drifting through sensor monitors attached to the icebergs, and provided the project team with tailored maps that selected desired iceberg information and the user defined geographic area of interest. www.geodecisions.com



HERE EXPANDS ITS LEADING REAL-TIME TRAFFIC COVERAGE TO 50 COUNTRIES

HERE has announced the expansion of its **Real-Time Traffic** service to 50 countries, from the current 44. **HERE** will add **Bahrain, Kuwait, Oman** and **Qatar** adding to live traffic data in the Middle East, providing the most comprehensive traffic coverage in the Gulf region. **HERE** also has expanded its European coverage by adding **Bulgaria** and **Romania**. "The expansion of **HERE's** traffic coverage to 50 countries confirms its position as one of the key global players in the traffic

market," said **Stephen Longden, the author of automotive consultancy SBD's annual Traffic Guide**. **HERE** also continues to add innovative features to enhance the product, including reversible express lane coverage and traffic safety warnings. **HERE Real Time Traffic** is the only traffic service on the market that updates the direction of traffic flow on metropolitan reversible express lanes, allowing drivers to make more intelligent routing choices. <http://360.here.com>.

GEOCUE NOW OFFERS ONLINE TRAINING COURSES

GeoCue Group, Inc. is now offering **Online Training** courses for the LP360 point cloud data processing product suite. Offered courses will cover a variety of topics appealing to a broad range of users of various skill levels. Each course will be a hands on, interactive instructor led training session focused on a particular workflow or topic. The first session, **How to QA/QC LIDAR Data Using LP360**, is designed for anyone receiving **LIDAR** data to

be able to determine that the data being delivered is within specification by using the quality assessment tools in LP360. **Introduction to Breaklines**, familiarizes users with the LP360 breakline and conflation tools commonly used to enforce breaklines for cartographic DEM production, as outlined in the **USGS LIDAR Base Specification**. These online courses will be a convenient alternative to those with time or travel restrictions. www.geocue.com

GSSI ANNOUNCES COMPLETION OF NEW STATE-OF-THE-ART HEADQUARTERS



GSSI, the world's leading manufacturer of ground penetrating radar (GPR) equipment, announces the completion of its state-of-the-art new headquarters, which feature a modern work environment and ample space to accommodate the company's rapid growth. The new building provides an updated, modern work

environment for **GSSI's** 80 current employees, and provides space to accommodate future growth to 200 employees. "As an industry leader, we have seen our growth accelerate over recent years as the need for effective underground imaging and infrastructure assessment solutions increases," said **Chris Hawekotte, President of GSSI**. "The new **GSSI** Headquarters provides world-class office, manufacturing and R&D space, as well as a unique indoor training and test area that allows us to imitate real-world situations where GPR can be used." The new location features an open R&D environment with flexible laboratory space to maximize collaboration among employees and drive innovation. www.geophysical.com



UAV SPECIAL - LATEST NEWS REGISTRATION IS NOW OPEN FOR UAS MAPPING 2015 RENO

The second annual technical UAS symposium sponsored by the **American Society for Photogrammetry and Remote Sensing (ASPRS)** is taking place on September 29-30 in Reno, Nevada. The second annual UAS technical symposium will showcase UAS in operation including flights of UAS mapping calibration test courses for the validation and accuracy assessment of UAS sensor payloads. General technical sessions will focus on the mapping and remote sensing aspects of unmanned acquisitions with the goal to provide practical information on UAS flight planning, acquisition, data processing and map production. National and international speakers will address current-day and developing UAS applications. Survey, mapping, and engineering firms will be on-hand to share their experience and further their UAS implementation strategies. Government agencies will share information on the development of national and international mapping programs. Last year's event included over 560 participants and 60 exhibitors; this year our numbers are expected to grow. www.uasreno.org www.asprs.org



CUTTING-EDGE DRONES PUT TO THE TEMPERATURE TEST

Northumbria University's state-of-the-art environmental chamber has been used to test how drones respond under extreme temperature conditions for a leading UK drone supplier. **Colena Ltd** provides drones for a number of clients across the world in locations as diverse as the Arctic to the United Arab Emirates. Under the supervision of **Dr Martin Barwood, Research Fellow and Environmental Physiologist** at **Northumbria**, tests were carried out on the drones in three key areas - battery performance, drone

performance and pilot performance. Drones can be remotely controlled by pilots and use cutting-edge technology to gain access to places where humans can't. This often means operating in extreme conditions, which can be easily recreated in Northumbria's environmental chamber. Drones carrying cameras have even become the latest tool for emergency responders - most recently used to help aid relief operations in Nepal by photographing and mapping areas affected by the earthquake. www.northumbria.ac.uk/business

CHC INTRODUCES THE INDUSTRY'S FIRST UAV GROUND CONTROL SPECIFIC GNSS SYSTEM



CHC Navigation has made available its **UAV Ground Control (UAV GC)** and **Post Processing** kit for all high precision UAV systems. This industry first is designed to bring an easy to operate, complete system, which is also cost-effective for producing cm level control for all UAV projects. The **CHC UAV GC** system is a rugged and flexible multi-application **GNSS** kit delivering state-of-the-art positioning features in an ultra-rugged package. The standard kit includes five GNSS receivers with

easy expansion of additional receivers in pairs. The core of the system is the photo identifiable X900+OPUS which is a dual frequency, triple constellation GNSS receiver capable of cm positioning of the project at 200 km in absolute geodetic space. The secondary X20+ receivers (also photo identifiable) are then the cost effective project ground control points for ortho-rectification, project verification, and other high accuracy positional tasks. www.chcnav.com.

UAV SENSORS

QuestUAV explore the differences between the typical kinds of cameras and sensors that are being carried on modern small **UAV (sUAV)** and the science behind them. The primary function of an aerial drone is to collect high quality imagery in order to obtain a higher level of detail and accuracy when compared to just using the naked eye. This data can then be further processed to make good business decisions, obtain higher level of accuracies, detect trends and predict future changes or potential issues that might arise. Achieving this level of detail requires using the best quality of **UAV sensors** and optics that are available, and optics that will deliver the required quality of data. **QuestUAV** explore the differences between the various kinds of cameras and sensors that are being carried on modern **sUAV's** and the science behind them



and provide insight into the factors that help decide the sensor to use for application needs. www.questuav.com

1ST INTERNATIONAL UAV HUMANITARIAN AWARD TO BE AWARDED AT UK DRONE SHOW



Today's **UAVs** are faster, safer and cheaper to fly which makes them hugely appealing and effective candidates for humanitarian ventures. This has been highlighted in the recent Nepal earthquake disaster, where volunteer UAV pilots played a huge part in the search and rescue operation following the devastat-

ing earthquake. For a fraction of the cost of their satellite counterparts, **UAVs** generate real time information, situation monitoring, public information and advocacy, search and rescue, mapping and more. UAVs have played a key role in the disaster relief efforts and the **International UAV Humanitarian Award (UAVHA)** exists to celebrate the efforts of humanitarian drone projects, search and rescue, not for profit initiatives and recognize some of the industry's most inspirational role models. The **UAVHA** will be presented at the **UK Drone Show** in **December 2015**, with hugely respected industry greats **Dr. Patrick Meier of UAViators.org**, and **Patrick Egan of AirVid** on-hand to present the award. www.ukdroneshow.com

DRONE USED TO STUDY RIVERBEDS

The **University of Brighton** is using a drone in **Western Canada** to map a river-bed both above and below water level, and then model how sandy rivers respond to human interference and environmental change. The radio-controlled quadcopter gives scientists an aerial view of the river at such a high resolution that is possible to see a 10p coin on the ground. **Phil Ashworth, Professor of Physical Geography**, is leading the technological development of the drone following a Natural Environment Research Council grant of £742,000 to a team of researchers from Brighton, Exeter, Hull, Birmingham and Illinois universities. The three-year project will map changes in river bed morphology on the sandy-bed **South Saskatchewan River**, six hours travel-time from Calgary, Western Canada. **Professor Ashworth** said: "The research project will use the drone to make daily maps



of channel change to allow calculation of the direction and rate of sediment movement." www.brighton.ac.uk

UAV SPECIAL - LATEST NEWS



REMOTE AERIAL SURVEYS IS FIRST UK BASED UAV OPERATOR TO OFFER LIDAR SERVICE

Remote Aerial Surveys is the first UAV operator in the UK to offer a **UAV mounted LiDAR** survey service. The UAV mounted LiDAR combines the latest UAV technology with a state of the art LiDAR pod to capture survey grade positional accuracy together with a very high point cloud density. **Operations Manager Tom Gravett** said: "Combining LiDAR with UAV technology will revolutionise the surveying industry with the improvements it will bring in data quality where accurate mapping is essential but has previously been difficult to achieve." The Company uses a **Routescene LidarPod**, which has been specifically developed for use on UAVs, being the most compact and lightest offering currently on the market. Mounting the Pod on a UAV is an invaluable and safe way to survey awkward, dangerous and hostile environments such as landslips or disaster zones, where access is difficult. www.remoteaerialsurveys.co.uk