

# NewsLetter

Issue No.4, Vol. 5 – December 2011



Interview with Dr. Taejung Kim

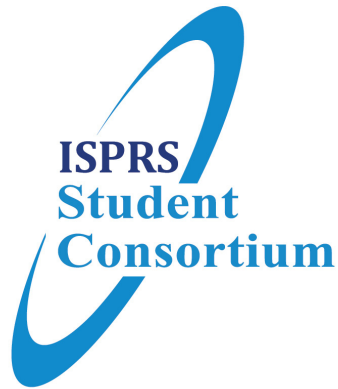
Culture – MERIS

Webcon Awards



Experience

# ISPRS SC Newsletter



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## Contributors:

Hiroyuki MIYAZAKI  
Aleš LAZAR  
Kaja KANDARE  
Vasilis KALOGIROU  
Urša KANJIR  
Chao-Yuan LO  
Artur José Freire GIL

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Frontpage designed by Ayda Aktaş



**Would you like to join SC Newsletter team? Do you want to make a difference? Want to learn new skills?**

SC Newsletter is at a stage where getting broader and better demands more people to be involved in the process of it's formation. That's why SC Newsletter team is looking for the following volunteers:

- More **people who would be willing to prepare articles** for existing or new rubrics,
- Designers of Newsletter,
- **English native speakers** for proof reading.

If you can help us with any of the above, please let us know!

[info@isprs-studentconsortium.org](mailto:info@isprs-studentconsortium.org)

And also...

If you **would like to publish your research work** in the SC Newsletter send us your abstract on email written above. We will soon contact you for further information.

Dear Friends,



2011 has been another productive year for Student Consortium. As part of our various promotional activities, we are proud to have organized two international summer schools in one year. This wouldn't have been realized without passionate organizers, generous supporters and hours (and hours) of volunteer work. Within this year, the number of registered members increased to 700 from all around the world. We also developed collaboration with student organizations of Sister Societies. This had been planned for a long time and started in the beginning of this year.

SC has gone a long way and we will start to count down to the Melbourne Congress. SC will publish a detailed report of the current term during the Congress. In addition to the reports and information available for this, we want to give you opportunity to provide your feedback. Therefore SC will do an on-line survey to get your opinions in the beginning of 2012. We hope you will consider this request and help us to complete the picture for a four year evaluation.

I hope you had a productive year as well and we wish you all the best for a happy and prosperous new year.

Best Regards,  
Cemal Özgür KIVLCIM  
SC Chair

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Let's Come Together  
to Make The World  
Smaller and Smaller,  
While Enlarging  
and  
Powering Our  
Student Consortium  
Network!!

**JOIN US!!!**



### Interview

by Urša Kanjir

Dr. Taejung Kim is an Associate Professor at Inha University in South Korea, giving lectures at Colleague of Engineering in Department of Geoinformatic Engineering since 2003. He received his BSc degree in electric and electronic engineering at Korea Advanced Institute of Science and Technology in 1991 and his MSc degree in spacecraft technology and Phd degree in remote sensing at University College London in 1992 and 1996 respectively. He has worked at Satellite Technology Research Center of the Korea Advanced Institute of Science and Technology (KAIST) as a senior researcher and

### Dr. Taejung Kim

a research professor in charge of satellite ground receiving station development. His research interests include automated quality assessment of satellite images, geometric modeling and calibration of satellite images, automated DEM generation and development of digital photogrammetric workstation. He was a hosted professor at 7th ISPRS SC Summer School where he gave very interesting lectures about Image Quality Assessment.



**Can you explain us what is your research field (what are you working on) at the moment?**

Currently I am studying image quality assessment and automated mapping of high resolution satellite images.

**Why did you decide for this profession in the first place (maybe you can tell us something more about your first steps)?**

My first degree was electric engineering and by the time of graduation, I wanted to do something related to space activities. Therefore, as my master degree, I studied spacecraft engineering. When I decided to study further for my PhD, I chose photogrammetry and remote sensing as my topic.

**What advices would you give to students and young professionals regarding successful career?**

Research is a very tough road. You will feel success one time only after 99 times of frustration. You have to be positive and self-confident. People in this profession often are so proud of their own work and tend to disregard others'. I feel this attitude does not help anybody. Please respect and try to extract lessons from others' work.

**In your opinion how important is participation of young people to international professional events like Summer schools, Congresses, workshops, etc? As an invited speaker to the 7th ISPRS SC Summer School did you find this event interesting?**

Science evolves because younger generations continue to join science. Young people are an essential part of any scientific society. However, it is sometimes difficult for young people to speak out and be active participants due to many reasons. In this regard, ISPRS SC Summer School is a very important forum for young people to learn, make friends and to move forward.

**What is the role of the youth involved in the profession (photogrammetry and remote sensing) in Korea in general?**

In Korea we also try to encourage young people's participation by providing student awards. ISPRS student consortium has set up an excellent model for young people's involvements within a scientific society. Perhaps, Korea should learn from you.

### Student Activities in ACRS 2011 and 7th ISPRS-SC Summer School

By Chao-Yuan Lo



The two main student activities in 2011, both held in Taiwan, were “ACRS (Asian Conference on Remote Sensing)”, and “ISPRS WG VI/5 and Student Consortium Summer School”. In ACRS 2011, there were three events including “WEBCON”, “Student Session” and “Student Night”. In the 7th ISPRS-SC Summer School, local organizers held several social events for all participants. The purpose of these events is to create social networks among Asian students and help them improve their knowledge of remote sensing. The detailed information is as follows.



#### Student Activities in ACRS 2011

ACRS 2011 has three student events during the conference time such as “WEBCON”, “Student Session”, and “Student Night”. “WEBCON” (Web Contest) was organized by Prof. Peter Tian-Yuan Shih and took place from 8:30 to 12:10 on Oct. 5, 2011. The location was Room 101A, TICC, Taipei, Taiwan. Within this session, many students introduced and demonstrated their e-delivery of education services through the internet. “Student Session” was organized by Grega Stavbar, Urša Kanjir, Hiroyuki Miyazaki, and Chao-Yuan Lo, and took place from 13:30 to 15:00 on Oct. 5, 2011. The location was Room 101A, TICC. The number of participants was about 50. The schedule contained four parts: reports of student activities, student presentations, discussions, and announcements. In this time, seven volunteers from five countries introduced their student and research activities in their universities. The discussions focused on how to maintain communication among Asian students. According to the conclusions, the organizers are preparing to establish a “Student Chapter” under the national society to help all Asian students communicate through a specialized website. “Student Night” was organized by Wen-Chi Chang and Chao-Yuan Lo, and took place from 18:00 to 21:00 on Oct. 5, 2011. The location was Room B1 of Taipei City Hall, Taipei, Taiwan. The organizers invited professors and students to attend this event, and the number of participants reached 130. Participants were assigned into different groups with others who come from different countries. This event successfully achieved the object of creating a social network for Asian students.

#### Conclusions

At these activities, the local organizers have invited participants to join a FaceBook group and continue the communication in order to expand the student group. The networks have been successfully established after ACRS 2011 and the 7th ISPRS-SC Summer School.

#### Student Activities in the 7th ISPRS-SC Summer School

ISPRS WG VI/5 and the Student Consortium (SC) held the 7th Summer School at the National Central University (NCU), Jhongli, Taoyuan, Taiwan Oct. 8-12, 2011. The theme of the 7th Summer School was “Spatial Information Sciences for Environmental Monitoring”, with presentations by seven international professors and one post-doctoral student. The number of participants reached 48 who came from 16 different countries. Two student events were held in the summer school, including “Student Paper Session” and “Social Event”. The local organizers encouraged participants to introduce their research activities and compete for awards for best paper and best presentation. Besides lectures, the local organizers also held two social events to welcome all participants. These two events, a visit to a night market and a welcome party, let them enjoy Taiwanese culture and share their life experience.



### Student Paper Session

The 7th ISPRS SC Summer School in Taiwan was really a success and a joy for the participants. The Summer School programme included a student paper session. Of the six participants who submitted and orally presented their research work, two were given awards. Komolratn Chureesempant was nominated as best student paper award and Sang Mendy won best presentation award. We congratulate both winning authors and all who participated in this session. Short abstracts from both winning projects are presented by their authors.

#### **MULTI-TEMPORAL SAR AND OPTICAL DATA FUSION WITH TEXTURE MEASURES FOR LAND COVER CLASSIFICATION BASED ON THE BAYESIAN THEORY**

K. Chureesampant, Dept. of Urban and Environmental Engineering, Kyoto University, Japan  
J. Susaki, Dept. of Civil and Earth Resources Engineering Faculty, Kyoto University, Japan

We present the data fusion classification framework based on Bayesian theory. Within this framework, land cover classification capabilities are addressed for multi-temporal synthetic aperture radar (SAR) data and optical data fusion, both individually and in combination with gray level co-occurrence matrix (GLCM)-based textural measures. Extracted features from multi-temporal SAR data—namely, the average backscattering coefficient, backscatter temporal variability, and long-term coherence—and reflectance values from optical data, are integrated with GLCM textural data in the framework. We selected Osaka City, Japan, as the study area. The selected major classes were built-up areas, fields, forests, and water bodies. Finally, we found that mean SAR and optical images produced the best textural measurement results, because of the smoothing effect on the images. Moreover, the correlation results for textural measurements with mean texture showed that the use of highly correlated textures lowers the classification accuracy.

To read the whole article click [here](#)

#### **APPLICATION OF TERRESTRIAL LASER SCANNING IN 3D RECONSTRUCTION OF BUILDING MODELS**

Sang Mendy and Walter W. Chen  
Dept. of Civil Engineering, National Taipei University of Technology, Taiwan

The reconstruction of building models has grown very popular nowadays. Initial methods of modeling involved the use of ground outline of buildings obtained from photographic plan views and then developing it into 3D. Recently, more accurate and time efficient methods are evolving, one of which is laser scanning. This method involves the use of a scanning machine which collects and records data as point clouds. Using computer software, this data can be manipulated together with photographic images obtained by a high resolution camera to produce building models. A major advantage of this method is that it is not only applied in buildings, but also on landscape, vegetation and any visible object. It is also accurate and fast. This paper presents the application of this method in the scanning of a university campus in Taipei into a 3D model. This result can be used to generate video images in any desired path in the model.

To read the whole article click [here](#)

### Webcon

In order to promote activities for students and young scientists AARS (Asian Association on Remote Sensing) again organized a web contest WEBCON at the 32nd ACRS that was held from November 3-7, 2011 in Taipei. The main objective of the contest was to promote the development of web materials that may give us a future vision of the web related to geo-information sciences. It was open only to students and young scientists under 35. Awards for the best entries were given to Ernest Macalalad, Philippines (Gold Award), Hirotoishi Kishi, Japan (Silver Award) and Sarah Brugger, Switzerland (Bronze Award). Congratulations! A short summary of their work is listed below.

#### **Online Application of TaiWan Ionosphere Model (TWIM) in Single-frequency GPS Positioning**

ERNEST MACALALAD, LUNG-CHIH TSAI

Ionosphere Sounding Laboratory, Center for Space and Remote Sensing Research,  
National Central University, Taiwan

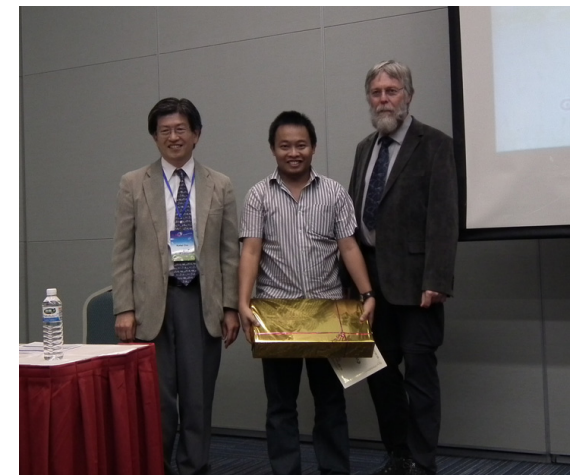
This web application is an implementation of a global 3-dimensional phenomenological ionosphere model based on the Formosat3 / COSMIC radio occultation observations, called the TaiWan Ionosphere Model (TWIM); it is used in mitigating the ionospheric delay in GPS single-frequency pseudorange observations.

This application uses a single-frequency GPS receiver situated in the Ionosphere Sounding Laboratory at the Center for Space and Remote Sensing Research in National Central University, Taiwan, that is connected to a web server. When the webserver retrieves the real-time GPS raw data, upon the command of the user, it calculates the estimated receiver position (longitude, latitude and height) and GPS satellite coordinates. This is passed to a remote server that houses the TWIM, through SFTP, in which the receiver-to-satellite ionospheric delay is calculated. This is then returned to the web server, which calculates the updated position of the receiver. The webserver also generates the residual position error with respect to a reference position for each calculation and displays it in the webpage. The resulting position is also plotted in an embedded Google Maps display.

It was shown that the TWIM has a better performance as compared with the Klobuchar model by about 10-20% RMS. Moreover, the performance of TWIM was evident in the vertical direction.

Other features of the web application includes display of the basic GPS positioning parameters such as GPS satellite elevation and azimuth, dilution of precision, and ionospheric delay for each satellite in view. It also displays the past positions and their average. One can also get the current data in text format.

In the future, the team intends to develop this web application further by including RINEX offline processing, display of an hourly global ionospheric map retrieved using TWIM, and mobile services.



[\*See more on next page\*](#)



### Application of spatial information in the reaction to the huge earthquake -Supporting recovery activities for the 2011 earthquake off the Pacific coast of Tohoku

by Hirotoishi Kishi

Authors: Hirotoishi Kishi, Ryotaro Takeda, Dai Yamazaki, Kanya Tokunaga, Yoshito Sawada, Shiro Ochi, Takahiro Endo and Haruo Sawada, Department of Civil Engineering, The University of Tokyo, Japan



I sincerely appreciate this chance to introduce our project which was presented at WEBCON, ACRS2011 in this ISPRS Newsletter. In our project, spatial information products for the response to the 2011 Tohoku earthquake were developed and distributed through our project website.

First, our project members considered what might be necessary information for governmental sectors and field investigators working in the hazard area in response to the earthquake. We concluded that the important points were the applicability and accessibility of the spatial information.

Second, remote sensing datasets such as aerial photos distributed by Geospatial information authority, Japan, and GIS datasets were processed to share on Google Earth (GE). In this process, the Tsunami inundation line was interpreted and digitized comparing these aerial photos to satellite images taken before the earthquake on the GE.

Finally, the Tsunami line aerial photo map was published to show the damaged area to governmental sectors, field investigators, researchers and volunteers. This map will be republished using new aerial photo taken a few months after the earthquake to support recovery activities.

All of these products were distributed through our project website : [http://stlab.iis.u-tokyo.ac.jp/eq\\_data/index\\_e.html](http://stlab.iis.u-tokyo.ac.jp/eq_data/index_e.html)

For further information, please contact to : [kisshi@iis.u-tokyo.ac.jp](mailto:kisshi@iis.u-tokyo.ac.jp)

### Multimedia, web-based learning material for GIS repetition – The GRAPE project

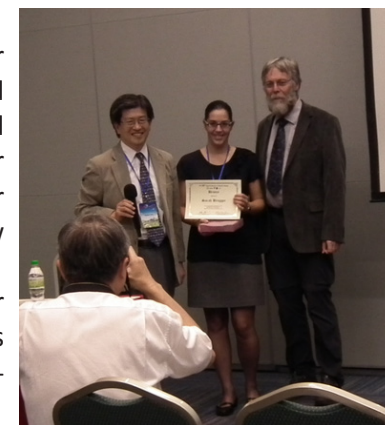
Monika Niederhuber & Sarah Brugger

ETH Zurich, Institut of Terrestrial Ecosystem, Switzerland

At the Department of Environmental Science at ETH Zurich (Switzerland), a new audio-visual learning medium has been developed for the geo-information science (GIS) courses. This new medium, presented in the form of Repetition Units, allows students to review and consolidate the most important learning concepts on an individual basis. The new material consists of 1) a short podcast (recorded and spoken slide show) with a maximum duration of 5 minutes, which includes only one important aspect of a lecture's theme; 2) one or two relevant exercises, covering different levels of learning objectives and with a maximum duration of 10 minutes; and 3) solutions for the exercises. This project is accompanied by a 5-year study (2009 – 2013) that investigates the learning effectiveness using this new material.

During a pilot phase in 2010, six repetition units were produced by the lecturers. These units were used and evaluated by bachelor students during the 2010 autumn semester and by master students during the 2011 spring semester. Shortly summarized, the students accepted and welcomed this new learning medium to supplement their regular coursework. Twenty more Repetition Units will be produced by our students during the fall semester of 2011 and 2012.

For further information, please contact: [gisteam@env.ethz.ch](mailto:gisteam@env.ethz.ch)





### International Symposium on Remote Sensing (ISRS) 2011

by Jyun-Ping Jhan, Department of Geomatics, National Cheng Kung University (NCKU), Taiwan

Date / Location: 2nd – 4th November, 2011, The Ocean Resort, Yeosu, Korea

Hosted by: Korean Society of Remote Sensing (KSRS)

Sponsored by: Ministry of Environment

Event Scale:

- Participants: Approximately 400 (120 international)
- Publications: 232 papers (120 Oral Presentation, 112 Poster Presentation, of which 98 foreign papers a day)



NCKU members in front of conference building

The ISRS 2011 was the 18th international meeting since the first meeting was held under the umbrella of the Environment Monitoring from Space in East Asia (EMSEA) meeting and the KSRS fall conference in 1994. Since then the ISRS has become a small but strong regional remote sensing symposium in East Asia. Especially this year ISRS 2011

had very interesting topics ranging from the first geostationary ocean observation sensing to regional land cover change monitoring, regular subjects of sensor development, data analysis and application. In addition we held a Student Award competition for young scientists. The award winners were Jeong-Won Park from South Korea (Accelerated ice thinning of the Pine Island Glacier), Ding Yan from Japan (Evaluation of offshore wind energy resource in Chinese coastal sea using QuikSCAT data), Supanee Tanathong from South Korea (A Fast and Automated Image Matching based on KLT Tracker for a Real-time Image Georeferencing System) and Jyun-Ping Jhan from Taiwan (A Four-stage Object-based Segmentation and Classification Scheme for Landslide Detection).

We hope that young students and scientists have a better chance to develop their professional friendship through this symposium.

#### Attending ISRS 2011 by Jyun-Ping Jhan

This was my first time attending ISRS, which provides such a nice learning atmosphere for students. Prof. Lee invited us to a welcome party with Korean students on the first night when we arrived. I met many friends from different countries at the welcome party. We shared knowledge with each other and had lots of fun at the party. I was impressed by the hospitable students and delicious food.

During the conference session, I was interested in some topics of remote sensing which I had never dealt with before. In the student competition, eight students were chosen to share their research outcomes and only four of them could win the award. During the session, many people gave feedback to me, and some students came to me to ask for more details. At this moment, I realized the meaning of international activity. That is, we can share different opinions with different students from different cultural backgrounds. The most important is to improve our global perspective through these activities. Although the conference has ended, we should keep going and study for the future. Winning the best student award lets me realize that “no pain, no gain”.



Student award winners

## Geospatial Information Forum for Students and Young Engineers in Kansai 2011

by Hiroyuki Miyazaki, University of Tokyo, Japan

On 21st and 22nd November 2011, the Geospatial Information Forum for Students and Young Engineers in Kansai (the middle-west part of Japan) was successfully held within Kansai G-Spatial Forum at Osaka, Japan, with support from the Kansai branch of Japan Society of Photogrammetry and Remote Sensing. The forum has been held yearly since 2009 to promote communication and networking by geospatial-information students.

It originates from the Geoinformation Student Forum in Tokyo region, which has been conducted since 1999. The forums are held in each region every year; however, due to significant disturbances caused by the East Japan Great Earthquake, the Tokyo forum was called off this year. In the face of this disappointing situation, the Kansai forum played an important role in keeping up annual opportunities for meetings of students and youths.

This year, 96 people, including undergraduate, masters' and PhD students and young engineers, came from 25 schools and companies. 47 papers were presented orally and in posters, videos, and demonstrations. The topics ranged from basic techniques (sensor network, web-based geographical information systems, land cover classification, global datasets, microwave remote sensing, close-range photogrammetry, population datasets) to applied research (archaeology, linguistics, landscape engineering, volunteered geographical information, history education, climate change, urban management, urban heat islands, environmental management, disaster management, landscape ecology, geology, socio-economical studies, seismology). It gave a great opportunity to exchange seeds from technologies and needs from applications. In addition, the stimulating atmosphere attracted some young students to the students' committee to create their forum. I hope that the growing community of Japanese students will actively cooperate in the international student activities of the ISPRS Student Consortium.

Visit the website at: <http://sites.google.com/site/kansaiwakategis/home>

## Culture-MERIS: Weekly Envisat MERIS data ready for use

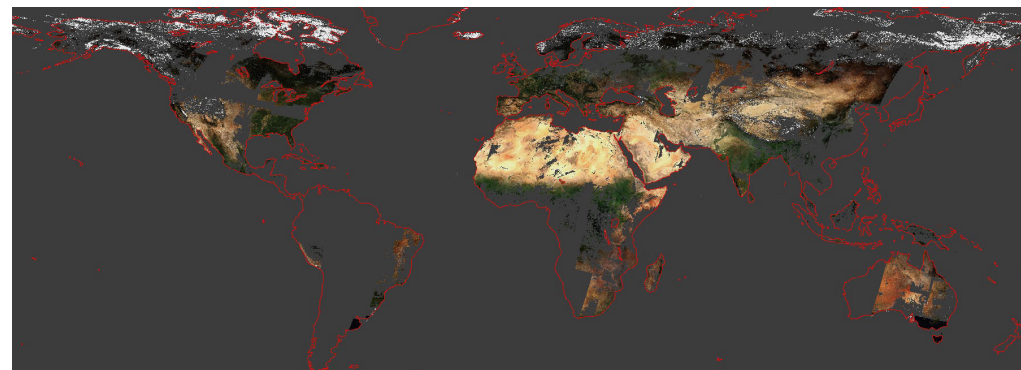
by Vasileios Kalogirou (RSAC Ltd. c/o ESA-ESRIN)

The European Space Agency (ESA) has announced a service called Culture-MERIS, providing weekly land surface reflectance composites of Envisat's Medium Resolution Imaging Spectrometer (MERIS) in Full Resolution (300 m). The composites are provided in tiles of 5x5 degrees and HDF format. The service is provided for free and without any registration. Culture-MERIS is targeting agricultural activities; however users will find it useful for many other derived land applications too.

More information can be found in the recently published paper:

<http://www.tandfonline.com/doi/abs/10.1080/01431161.2011.625052>

or in the Culture-MERIS website <http://due.esrin.esa.int/culturemeris/>







# We are simply the

By Urša Hribernik

Two years ago I attended a BEST summer course about satellite engineering in Liege. Back then I didn't understand how someone could organize a 14-day course including accommodation, meals, lectures from experts, company visits, sightseeing trips etc. for only 30 euros. I was certain there was some kind of "mafia" behind it. After a year and a half working for BEST I figured out who is in charge of it. Believe it or not, this is the achievement of hardworking students, who are not only studying, but also putting in daily effort to make that kind of event feasible.

### What is BEST?

Board of European Students of Technology (BEST) is a non-profit non-governmental organization with a bright history since 1989. We are almost 4000 students of engineering, natural sciences and other technical studies. Working in an international environment helps add another perspective to our personality. BEST consists of local groups, which are present at 91 Universities in 30 countries all over Europe. Our vision is empowered diversity, i.e. we are a big European family, which welcomes members and participants regardless of their nationality, religious or political views.



Regional meeting, Zagreb, Croatia (by LBG Zagreb)

### What do we do?

BEST's main objective is to carry out and strengthen the connection among companies, universities and their students. We want to give students complementary education which is not taught at universities, in order to give students higher values and qualifications that will prepare them for work-life.

Apart from BEST courses in technology, we also organize a lot of short-term exchanges, such as educational and leisure events. Moreover, one of our biggest events is the European BEST Engineering Competition (EBEC). In order to participate in the EBEC, a team of students has to win case study and team design at local, national and regional BEST Engineering Competitions. Students must be studying at a BEST-member University in order to attend these events.



Summer course, Company's visit - CSL, Liege, Belgium (by Katerina Koutsonikoli)



Team design at Local Engineering Competition, Ljubljana, Slovenia (by LBG Ljubljana).

Furthermore, there is a large number of BEST internal events, such as meetings regarding BEST's recent issues, training and workshops on soft skills, which can be attended solely by BEST members.

Regarding our educational involvement, we are collaborating with different thematic networks such as EU-GENE, EU-VIP and ESTIA-EARTH, and we are in touch with other organizations,

such as SEFI and IFEEES. We were involved in the organization of the 1st World Engineering Education Flash Week. We also have a platform called BEST University Centre which can provide you with all the information you need about universities where BEST is present.

### What can a surveyor gain from BEST?

As a student of Geodetic Engineering I can say that BEST has genuinely helped shape my personality and improved my skills, including ones that I had never paid attention to and was unaware of. I have learned a lot about interpersonal skills in international environment. If I hadn't joined BEST, I would have never met so many great, open-minded people from all around Europe who



Workshop at President's meeting, Copenhagen, Denmark (by Wieke Villerius)



have managed to make most European countries closer to mine. Even though I was certain that my schedule was completely full, combining my studies and work with BEST taught me how to manage my time and make the best out of it, not to mention the flexibility I learned as a result of frequent travelling. Last but not least, one of the best things about BEST is that you can have personal input into the decision making process. You can always contribute to projects with your ideas and opinions on discussed topics. Since we are organizing events, I have also developed organizational skills. Who would have thought that I would spend a week cooking for 40 people?!

### What is BEST spirit?



Team building, Valencia, Spain (by Beatriz Martinez)

“BEST Spirit is the inspiration for all our actions.”

We seek flexibility, friendship, fun, improvement, and knowledge. Nowadays it is very important to keep up with rapidly changing situations and to be open to new challenges which can be obtained through BEST’s dynamic working attitude. We learn through experiences and use all our creativity to

enhance our way of working. The fun we have at team-work is another aspect which contributes to an even better working atmosphere.

From my personal point of view, the best way to become familiar with the spirit of BEST is to attend one of the seasonal events, where it will definitely get under your skin.

For more information please visit: <http://BEST.eu.org/>

### GIS Ostrava 2012 - Surface models for geosciences

Ostrava, Czech Republic, 23-25 January 2012

For more info visit: <http://gis.vsb.cz/gisostrava/>

### 12th International Lidar Mapping Forum

Denver, USA, 23-25 January 2012

For more info visit: [www.lidarmap.org/ILMF.aspx](http://www.lidarmap.org/ILMF.aspx)

### Defence Geospatial Intelligence 2012

London, UK, 23-26 January 2012

For more info visit: <http://www.wbresearch.com/dgieurope/>

### Imagina 2012

Monaco, 7 - 9 February 2012

For more info visit: <http://www.imagina.mc/2012/content/Home/homeUK.php>

### EuroCOW 2012

Castelldefels, Spain, 8-10 February 2012

For more info visit: <http://www.ideg.es/page.php?id=1094>

### 16th GIS/CAMA Technologies Conference

San Antonio, USA, 12-15 March 2012

For more info visit: [http://www.urisa.org/conferences/2012gis\\_cama](http://www.urisa.org/conferences/2012gis_cama)

### ASPRS 2012 - Imaging and Geospatial Technologies Into the Future

California, USA, 19-23 March 2012

For more info visit: <http://www.asprs.org/Annual-Conferences/Sacramento-2012/>

### 3rd International Conference on Machine Control Guidance (MCG)

Stuttgart, Germany, 27-29 March 2012

For more info visit: <http://www.uni-stuttgart.de/ingeo/mcg2012/>

### International Training course on “Application of Space Technology for Disaster Risk Reduction”

Dehradun, India, 9 April – 4 May 2012

For more info visit: <http://www.cssteap.org/>

## PointCab

PointCab is fast laser scanning software for the analysis and interpretation of laser scanner data (FARO, Leica, Riegl, Z-F etc.). The PointCab results are compatible with all common CAD solutions.



The PointCab tools:

- **Layout Tool** ... PointCab creates a simple, easily understandable plan out of the millions of single points of a laser-scanning point cloud.

- **Section Tool** ... A section through a point cloud which is accurate to size is worth a thousand sketches. Define the desired sections simply and visually through your point cloud.

- **Merger Tool** ... With the merger, you conflate the single detailed plans into one conclusive plan. By means of the corner co-

ordinates, this plan can be loaded true to scale and in the correct position in your CAD software.

- **Sketch Tool** ... With the sketch tool, you can measure and document the PointCab plans completely without CAD software. And the best is: You can interactively call up the respective panoramic views of the single laser-scanner positions for a better understanding.

- **WebExport Tool** ... With PointCab WebExport, you create informative documentation in the form of a website in just a few steps. The website displays the chosen floor plan as well as panoramic views of the scanner positions. Everything runs offline and online in your standard browser.

Source: <http://www.pointcab-software.com/en>

## BlomSTREET

BlomSTREET™ is a highly accurate, street level image, geographical product powered by CyCloMedia technology. It offers a collection of georeferenced, high-resolution, 360 degree panoramic images that are photographed on street-level. Image quality is high and boasts a high resolution of 4,800 x 2,400 pixels. Hence, users have the ability to take measurements directly from the imagery. The camera equipment is mounted on the roof of a specially equipped car taking an image every five meters on average in the collection process. Images are systematically collected using mobile mapping techniques and after capture stitching of the images ensures an “intelligent” product. It is suitable for street asset inventory, automatic road sign detection or digitalization of information using imagery as data source. BlomSTREET™ is delivered as a cloud service where the customer receives images and functionality delivered via a web service, fully integrated with other Blom data models.



Source: <http://blomasa.com/>

## STUDIES AND PRACTICAL WORK

This column serves as a guide for the students who are thinking or are willing to go studying or doing practical work abroad. We have searched for new opportunities in different faculties, schools and other learning programs all over the world in order to encourage as many students as possible to take new steps towards new horizons.

1) Applications are invited for an ESRC-funded 3-year DPhil studentship based in the University of Oxford's School of Anthropology and Museum Ethnography (UK) to begin in October 2012. The student will be supervised by Professor Harvey Whitehouse (Oxford) and Dr Quentin Atkinson (University of Auckland). A strong background in statistics and computational modeling is desirable, as is proficiency in MS Access and SQL and in the use of GIS and other spatial analysis software to organize and analyze the data. Although the project is based in Oxford, preparedness to spend extended periods at overseas universities and research sites is essential. The studentship will form part of a larger project entitled 'Ritual, Community, and Conflict' funded by the ESRC under the direction of Professor Whitehouse and involving the collaboration of an international network of anthropologists, historians, archaeologists, psychologists, political scientists, and evolutionary theorists. The deadline for applications will be 20 January 2012. Candidates can read the application guidelines and submit an application online at:

[http://www.ox.ac.uk/admissions/postgraduate\\_courses/apply/index.html](http://www.ox.ac.uk/admissions/postgraduate_courses/apply/index.html)

2) GEOSYS (France) is seeking a research scientist for its Research and Innovation department, to help design new products, improve existing ones, and develop its skills. He/she will report to the research manager. The successful candidate will have the opportunity to study and test remote sensing solutions to satisfy future customer needs and/or marketing goals. The scientist will be involved in building prototypes and writing specifications for the products to be built. Applications should be received by January 27th, 2012. Read full announcement at:

<http://ec.europa.eu/euraxess/index.cfm/jobs/jobDetails/33750111>

3) The University of Newcastle (UK) is pleased to offer one funded studentship for doctoral research on the area of city carbon and energy modeling to begin in January 2012. The student is expected to develop models of Newcastle to facilitate the creation of spatially referenced carbon scenarios at multiple-scales and different timeframes. The work builds on an existing partnership between Newcastle City Council and Newcastle University so the selected candidate will be working with real-world policy constraints and will be expected to liaise with NCC officers involved in the development and implementation of low carbon projects and Industry. Applicants must have an interest in a research career and PhD; hold a Bachelor's degree in a suitable field (Engineering, Geography, Environment, Mathematics, Physics, and Spatial Sciences); be numerically minded;

be computer literate; and have good communication skills. A Masters in a suitable discipline, experience with statistics, experience of working with Energy models, experience in working with GIS and experience in computer programming are desired. Applications should include a covering letter, a brief and edited portfolio of work, a statement of research interests, a CV and the names of two academic referees. The portfolio should be in PDF format and saved at screen resolution and should not exceed 8MB in size. Applications should be submitted by email to Marian Kyte, Postgraduate Research Secretary ([marian.kyte@ncl.ac.uk](mailto:marian.kyte@ncl.ac.uk)). Please indicate clearly the reference number "APL12" in your letter/email header. The closing date for applications is Sunday 15 January 2012. For further details, please contact Dr Calderon, [carlos.calderon@ncl.ac.uk](mailto:carlos.calderon@ncl.ac.uk) or Mr. Philip James, [philip.james@ncl.ac.uk](mailto:philip.james@ncl.ac.uk).



## INTERESTING LINKS

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### LIDAR DATA

<http://www.lidardata.com/>

GITA- The Geospatial Information & Technology Association

<http://www.gita.org/>

### RESOURCES

#### PANGAEA

<http://www.pangaea.de/>

### EDUCATION

#### USGS

<http://education.usgs.gov/>

### FREE SOFTWARE

#### Quantum GIS

<http://www.qgis.org/>

### JOBS, CAREER OPPORTUNITIES

#### GISJOBS

<http://gisjobs.ca/>

#### USAJOBS

<https://my.usajobs.gov/>

### JOURNALS

Italian Journal of Remote Sensing

<http://www.aitjournal.com/>

### NIKON

[http://www.nikonmetrology.com/news/nm\\_news\\_magazine/](http://www.nikonmetrology.com/news/nm_news_magazine/)

### RELATED ORGANIZATIONS, ASSOCIATIONS

MAPPS - The Management Association for Private Photogrammetric Surveyors

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



Let's Come Together  
to Make The World  
Smaller and Smaller,  
While Enlarging  
and  
Powering Our  
Student Consortium  
Network!!

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