



# Second CLGE Students' Contest Awards

The 2013 CLGE Students' Contest prizes were awarded in Essen (INTERGEO – 8th October) and Lisbon (First Young Surveyors Europe Meeting – 17th October). Below you can find the abstracts from the three winning papers. They are available in more detail on our website [www.clge.eu](http://www.clge.eu). The CLGE Students' Contest 2014 is now open for entries. The awards event for this contest will take place during the Berlin INTERGEO on the 7th October 2014.



2 of the 4 winning ladies, Alicia and Caroline, in Essen after their presentations

## Apply now for the 2014 contest!

We cordially invite all the European Bachelor and Master Students to enter the CLGE Students' Contest 2014. The full regulations can be found on our website [www.clge.eu](http://www.clge.eu) (questions: [contest@clge.eu](mailto:contest@clge.eu)). There are many worthwhile prizes on offer. You could win a €1000,- award, supplemented by participation in a major European or Worldwide event organized by one of our main sponsors. Furthermore, the awards presentation will take place during INTERGEO in Berlin and we will sponsor your travel expenses and stay for one night.

Two academic categories are available:

- Geodesy and Topography
- GIS, Mapping and Cadastre

A third category concerns student engagement, or attracting young people to the profession.

In this category, in addition to applications from students, young surveyors will also be considered. This means that all those who are 35 years or younger on 31st December 2014 may submit their proposal.

In this category, there is also an award of €1000,-. In addition, the winner can be appointed for the implementation of the project which he or she has designed.

## This year's winning abstracts:

**Category 1: *Simulations of VLBI observations with the Onsala Twin Telescope.***

*Caroline Schönberger (Austria)*

The VLBI2010 committee of the International VLBI Service for Geodesy and Astrometry

(IVS) developed a concept to achieve an improvement in the accuracy of geodetic very long baseline interferometry (VLBI) to 1 mm for station position and 0.1 mm/yr for station velocity. This so-called VLBI2010 concept includes broad-band observations with fast tracking telescopes and proposes twin telescopes to improve the handling of atmospheric turbulence, which has been identified as a limiting factor for geodetic VLBI. Several international projects, following the VLBI2010 concept, have been started in the last years.

One of these telescopes is the Onsala twin telescope project which is expected to start operating in 2016.

In this study a global VLBI network is scheduled, simulated and analysed. The chosen network is the CONT11 network and a 15 days long continuous VLBI campaign was performed in 2011, which gave the current state-of-the-art geodetic VLBI results. Results derived from simulated observations in this network, including either the legacy 20 m radio telescope at Onsala or the planned Onsala twin telescope, were compared. The comparisons included station positions, earth orientation parameter, atmospheric parameter and clock estimations. A general improvement could be noted with the Onsala twin telescope.

The best results were derived with the twin telescopes operating in continuous mode.

### **Category 2: 3D model of lugo's romen walls (Galicia-Spain using a terrestrail laser scanner and unmanned aerial vehicle**

*Alicia Cañizares (Spain)*

At the present time there is a growing interest in the application and development of new digital spatial technologies for 3D data capture, analysis and visualisation and the subsequent documentation, investigation and conservation of cultural heritage.

We carried out a survey of the wall's boundary, including both internal and external stone facings as well as the parapet. We used mainly modern technologies, such as TLS (Terrestrial Laser Scanner) and UAV (Unmanned Aerial Vehicle). We didn't, however, neglect other technologies, such as classical surveying and GPS, which are

always necessary for providing support for data capture and close range photogrammetry and for getting a real virtual model.

The result was the 3D model of the Roman walls, plus a series of products, like sections and orthophotos, which can be used to provide precise measurements for studying the geometry of the walls and analysing its structural problems, especially in those areas which have suffered a greater degree of degradation.

### **Joining European Forces "Nothing about us without us"**

*Paula Dijkstra (NL) and Eva-Maria Unger (AT)*

Student and young people engagement is a key challenge nowadays in nearly every profession, especially those perceived to lack trendiness. This is particularly true within the surveying community. This is not to say that the profession is not trendy, but simply that it's not really understood or acknowledged by society. Therefore, the profession and its associations, especially in Western Europe, are searching for young surveyors who are active, motivated and interested. This contest, initiated by CLGE for student and young person engagement, is designed to address this issue.

Earlier this year [2013] the first meeting of the key people, who were involved in the European branch of the FIG YSN, took place in Brussels. This happened in association with CLGE and celebrated the day of the Surveyor and aimed to allow professionals to share ideas and experiences on how to start the European branch of Young Surveyors. Initiators and key persons who took part were: Bram van Londerseele (Belgium), Eva-Maria Unger (Austria), Paula Dijkstra (The Netherlands) and Jean-Yves Pirlot (Belgium) with his support CLGE Team.

What could CLGE do to improve the situation and how could it motivate young surveyors to be more active and or more engaged in the association at national and/or international levels? The following were some of the suggestions:

- Inspire young professionals by sharing information on career paths, indicating the benefits of being active.

- Have a national contact point for young surveyors within each member organisation/association.
- Encourage a young professional to join the board of the member organisation.
- Provide special fees for young professionals.
- During meetings and conferences, host special sessions for students and young professionals, which would give an added value for these young members or potential members of the national associations.
- Include a representative of the YSN Europe board on the CLGE board.
- Set an example. Involve young professionals in organizing meetings, and executing (research) projects.
- Provide funds for students and young professionals to participate in meetings.
- Include a page for news about young surveyors in your newsletter [as we are doing here :-]]
- Be visible where the young surveyors are active on social media (Twitter, Facebook, LinkedIn)
- Promote student and young person engagement as a special CLGE theme from 2014 – 2015
- Combine the General Assembly and the regional meeting of FIG Young Surveyors

What can CLGE do to motivate young people to choose to study geodetic surveying and to enter the profession (particularly in countries suffering from a lack of young surveyors)?

- Share best practices in Europe
- Involve young professionals in education projects
- Support national young surveyors' networks on this subject
- Young surveyors are the best ambassadors to promote the profession
- Use young professionals (nationally and internationally) to promote the sector in the media



# CLGE joins Eulis, ELRA, Eurogeographics and the PCC !

**The Council of European Geodetic Surveyors took part in the meeting of the Permanent Committee of Cadastres in the European Union, in Vilnius (Lithuania). It was an occasion to present CLGE to this audience and to sign the common vision paper with delegates from the four other organisations.**

By Pedro Ortiz



*Signatories of the agreement left to right: Rik Wouters (EULIS), Dave Lovell (EuroGeographics), Kestutis Sabaliauskas (PCC), Jean-Yves Pirlot (CLGE) and Alasdair Lewis (ELRA)*

The Lithuanian Centre of Registers organised the second meeting of PCC on 22nd and 23rd October in Vilnius. CLGE was represented by Jean-Yves Pirlot and Pedro Ortiz, but several CLGE delegates were part of the national delegations (e.g. Pekka Halme for Finland and Ewa Swenson for Sweden).

Jean-Yves Pirlot gave a full presentation about CLGE, including the first official presentation of the Dynamic Professional Knowledge Base as designed by CLGE and the new project, BlueParking.eu. He stressed the fact that CLGE represents the profession as a whole; not just private surveyors, but also employees, academics and civil servants. All too often people think of CLGE as merely representing private interests. Quoting Joao Torres, the CLGE President asked the profession to build "an esprit de corps".

Fig 2: Signatories of the agreement left to right: Rik Wouters (EULIS), Dave Lovell (EuroGeographics), Kestutis Sabaliauskas (PCC), Jean-Yves Pirlot (CLGE) and Alasdair Lewis (ELRA)

The meeting gave CLGE the occasion to endorse the common vision paper on Cadastre and Land Registry. The vision is stated as follows: "Society recognises that Cadastral and Land Registration information and services in Europe are fundamental for a sustainable economic, social and environmental development in Europe. Information and services from the Cadastral and Land Registry Institutions / Authorities throughout Europe are constantly innovated and tailored to meet the needs for land tenure, land value, land use, and all other related land

development functions on both National and European level". The full common vision paper is available in the basics section of the CLGE website (About Us Basics).

President Pirlot said: "the common vision paper is not a goal in itself; it's a strong foundation on which future cooperation will be built".

About PCC:

One of the conclusions of the "First Congress on Cadastre in the European Union" held in May 2002, under the auspices of the Programme of Activities of the Spanish Presidency of the EU, was to propose the creation and start-up of the "Permanent Committee on Cadastre in the European Union". As a result of this decision, a meeting was held on 14th October 2002 at the headquarters of the Joint Research Centre in Ispra (Italy), where the representatives of the institutions responsible for cadastre in the fifteen Member States of the European Union, which maintain cadastres, agreed to formally constitute the "Permanent Committee on Cadastre in the European Union".

The mission of PCC is to create an adequate space in which to promote the full awareness of the activities developed by the European Union and the Member States related with Cadastre and, by means of this information, to develop strategies and propose common initiatives with the aim of achieving greater co-ordination among the different European cadastral systems and their users.

*More details about PCC can be found on its website [www.eurocadastre.org](http://www.eurocadastre.org).*