



# VIII CLGE Conference of the European Surveyor “BLUE SURVEYING”

## PROGRAMME



Sevilla (ES) 27th October 2022  
Hotel Barceló Sevilla Renacimiento



**Vladimir Krupa**  
**HR**  
CLGE President



Seen from space, the Earth is blue. Blue because water covers most of the Earth's surface, and we know it best because we measure that surface. Just as on earth, it is not possible to launch a serious project on or related to water without a surveyor. And the blue economy is already called the economy of the future. Blue can therefore be the new green of our profession. Blue growth, blue economy and blue surveying are parts of the same story with a huge potential.

Vladimir Krupa is CIO and Project Manager in the design company, "Zavod za urbanizam i izgradnju d.d. Osijek" responsible for spatial data, information technology and development. At the establishment of the Croatian Chamber of Chartered Geodetic Engineers in 2009, he became member of the Management Board and from 2013 to 2019 he was the President of Croatian Chamber of Chartered Geodetic Engineers. He is currently President of the Council of European Geodetic Surveyors (CLGE).

**Diane A Dumashie**  
**UK**  
FIG President Elect  
2023-2026



Dear Friends and colleagues. Tackling the greatest challenges of our time often starts with water and is reflected in the 2030 sustainable agenda. Water is key to future prosperity being fundamental to life; it is needed for food security and health to agriculture, technology, biodiversity, and the climate challenge. The planet's water resource includes both fresh water bodies and oceans. But this resource needs careful stewardship because water can be a natural element of destruction as well as a giver of life.

Today's conference deliberations, 'Blue surveying' is timely as I believe the survey profession, in each of our country and local contexts works tirelessly for the benefit of the public good and we have a huge contribution to make. Over the years I have seen my fellow surveyors working creatively with an increasingly diverse range of partners in this sector and am looking forward to the insightful contributions from surveyors today.

Director, Dumashie Ltd: delivering Land & infrastructure regeneration, Africa land governance, Stakeholder engagement.





**Andrés Díez  
Gallea**  
**ES**  
COIGT President

Dear colleagues and friends, as in all branches of human knowledge, a strong specialisation has been imposed in the field of Geomatics and Topography. This is due to the complexity and necessity that these are acquiring in the global model of sustainable growth of our societies. In other words, the continuous professional development of our professionals will have to be characterised by adaptation to scientific and technical changes to the way we satisfy needs and solve problems.

One of these challenges is the fragility of ecosystems, due to the pressures to which they are subjected (urban sprawl, increased water demand, pollution from agricultural or industrial activities, overexploitation of natural resources, etc.) and the risks arising from global climate change (floods and droughts, rising sea levels, etc.). In this context, it is imperative to have national

and globally agreed strategies as an effective instrument to help achieve efficient land management. These will be managed by trained and experienced professionals, such as surveyors. The geomatics framework provides an intrinsically spatial dimension necessary for the collection, management, analysis and dissemination of information to support environmental policies and, in particular, hydrography and oceanography as key issues of the 2030 agenda of the SDGs. I would not like to end these brief words without a reflection on two aspects. One is the inclusion of new competences and capacities in emerging sectors such as the "Blue environment" for our professionals in training programmes on water governance policies at universities, in industry and in competent professional institutions in the field of Geomatics and Surveying. The other, a greater involvement of the new generations of surveyors, these precursors of change, harnessing enthusiasm and making it the focus of inspiration of our work towards a profession of the future, contributing to a safer and more sustainable world.

We hope that this Blue Surveying Conference represents the voice of society's common interest in this essential resource; WATER, and the need for the active participation of our professionals, the Surveyors,

and their fundamental contribution through the Science of Geomatics. At this point, I would just like to welcome the attendees, on behalf of the partners and the organising Institutions of this Eighth CLGE Conference of the European Surveyor. Thank you for attending "BLUE SURVEYING". May your work here be fruitful and productive.

D. Andrés Díez Gallea (1960), President of the Official College of Engineering in Geomatics and Topography of Spain (COIGT), Secretary General of the Institute of Graduates in Engineering and Technical Engineers of Spain (INGITE), Vice-President of the Pan-American Association of Professionals in Surveying and Topography (APPAT), and member of the Advisory Committee of the Higher Geographic Council of Spain. Degrees in Technical Surveying Engineering (1988), Engineering in Geodesy and Cartography (2003) and a Postgraduate Diploma of Advanced Studies (2010) from Madrid Polytechnic University (Universidad Politécnica de Madrid), Spain. 1998 – present. University lecturer in Photogrammetry and Modelling and Standardisation in Geographic Information for the Degree in Geomatics Engineering, Degree in Geospatial Information Technologies Engineering and Official Master's in Geodesic Engineering and Cartography at the Higher Technical School (E.T.S.) of Topography, Geodesy and Cartography Engineers at Madrid Polytechnic University. Member of the Technical Committee for Standardisation 148 - Digital Geographic Information of Spain. Coordinated and taught several specialisation courses in Digital Photogrammetry at universities in Argentina, Mexico, Guatemala and Cuba. Participates as a researcher in various publicly-funded R+D+i projects, as well as for several publications in technical and indexed journals, in the fields of Photogrammetry, Lidar, GNSS-R, Glacial Dynamics, Construction and Educational Innovation. Member of the Organising Committee, Scientific Committee and speaker in numerous National and International Geomatics and Earth Sciences conferences.

**Enrico Rispoli**

**IT**  
CNGeGL General  
Secretary, CLGE  
Vice President and  
Chair of the Working  
Group on Blue  
Surveying



I am very honored to have received the position as chair of the working group on Blue Surveying, and I thank everyone. I do not deny that it was very demanding due to the particularity of the topic. In fact, I think it was everyone's feeling, that at first glance we consider that water in general has no bearing on our profession as a surveyor. For the most, the surveyors are the technicians of the land. But seeing water better and in depth, it is an essential element both for survival and also for many aspects of our profession. We will explore, together, an area of our business which is carried out by many colleagues and which is very consistent with our knowledge. In any case, the theme approaches a much larger aspect than that of the professional work, I refer to the sustainability, to the impacts and to the most appropriate planning choices. And to go even more generally, we will have the opportunity to understand how important the role of the surveyor is for safeguarding the ecological balances that govern the environment in which we all live. For this reason, for the end of the Conference, we are preparing a draft of the surveyors' declaration which I would like to focus on the following title: Blue Surveying: action of the European Geodetic Surveyors to preserve fresh water and the earth habitable for humankind, commitment to UN Goals 2030. Welcome to Seville and join us for the VIII CLGE Conference of the European Geodetic Surveyor "Blue Surveying".

Dr. Enrico Rispoli is Board Member of the National Council of Italian Surveyors; diploma in Surveying and Bachelor's degree in law. He is a freelance professional in the field of construction, land registry and legal assistance in urban planning and administrative matters. He is an Expert in the disciplines of sustainable governance and land monitoring. He has been Chair of FIG Commission 3 (2015 – 2018). Currently he is a Director of FIG Foundation and Vice President of the European Council of Geodetic Surveyors (CLGE).

**Jean-Yves Pirlot**

**BE**  
CLGE Director  
General



As a Bowie fan, I really like his post 9-11 song, "Looking for water", although its ominous tone makes me feel uncomfortable. If you look up the meaning of the lyrics you can find that the song is about a man from New York, lost in a desert, in a country that needs to be punished, whether it is guilty or not. Thirsty, the man sees mirages of palm trees, omens of water, but in fact they are derricks, pumping for oil. Unfortunately the whole song is very premonitory. What on earth ... or better, what the hell are we doing to Mother Earth? Is our planet aware, are the shortages and excesses of water signs for us, summoning us to act? CLGE wants to take its responsibilities and invites all its members to take theirs. That's why we have setup this Conference on Blue Surveying ... Looking for water, Caring for water.

Jean-Yves Pirlot is President of the Belgian Union of Surveyors, Past President, and current Director General of CLGE. He has devoted his active life to the promotion of our profession.



# Thursday

## October 27

From 09:00 | **Registration**

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10:00 | **VIII CLGE Conference of the European Surveyor - Opening**

**Chair:** Vladimir Krupa, CLGE President

- » Vladimir Krupa, CLGE President- **Solemn opening**
- » Andrés Díez Galilea, COIGT President - **Welcome Greeting**
- » Enrico Rispoli, CNGeGL General Secretary, CLGE Vice President and Chair of the Working Group on Blue Surveying - **Introduction to the Conference on Blue Surveying**
- » Introduction scenario to the topic Blue Surveying, Video by BBC
- » Maria Grazia Scorza, CNGeGL Head of International Office and CLGE Adviser – **BLUE SURVEYING and the environmental goals of a sustainable development**
- » Diane A Dumashie, FIG President Elect 2023-2026 - **Keynote by FIG's President Elect**



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# Thursday

## October 27

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11:00 |  **Coffee Break**

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12:00 | **Water is Precious**

**Moderator: Blaženka Mičević, PhD, AGRODET Ltd and Croatian Chamber of Chartered Geodetic Engineers, Executive Board Member**

- » Magdalena Andersson, Business Developer, Real Property and Marine Information - **Marine Cadastre and its importance**
- » Tea Dabrundashvili, Land Tenure Officer, Food and Agriculture Organization of the United Nations – **Responsible Tenure Governance: key factors and Principles**
- » Panel Discussion, with the above mentioned speakers and
- » Bertrand Mercier, Géomètre-expert, member of the International Commission of the Ordre des Géomètres-Expert (OGE France), **French ZAN Law and land surveyors participation**
- » Gordana Jakovljevic, Assistant Professor - **Remote sensing and GEOAI in water bodies monitoring**



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## October 27

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13:00  **Lunch Break**

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15:00 **Water can be a threat**

**Moderator: Lisa Hambræus, Head of department at Lantmäteriet, the Swedish mapping**

- » Duncan Moss, FRICS, CLGE Vice President, Principal Consultant, Ordnance Survey - **Scotland's Dynamic Coast**
- » Luciana Colle, Surveyor and Head of Institutional Relations for the Extraordinary Commissioner for the MOSE - **From a problem to an opportunity. Channelling the negative energy of climate change into positive energy for the Planet**, followed by a video
- » Panel Discussion, with the above mentioned speakers and
- » Huibert-Jan Lekkerkerk, Sr Lecturer Ocean Technology / Sr. Survey Consultant - **Surveying coastal protection (in the Netherlands)** (participation online or by video)
- » Clemens Kiepke, Vice President BDVI - **Responding to flood emergencies at river dykes**



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- 16:30 | **Geodetic Surveyors in Blue Surveying, Capacity and Capacity building**  
**Moderator: Cornel Paunescu, Professor doctor engineer at the University of Bucharest, Faculty of Geology and Geophysics**
- » Ivana Racetin, Croatian Chamber of Chartered Geodetic Engineers, Faculty of Civil Engineering, Architecture and Geodesy, University of Split - **Role of Surveying Engineers in Marine Spatial Planning**
  - » David Fernández Bruna, Technical Director Leica Geosystems SL (Spain) - **Innovative technologies with multiple sensor integration to help surveyors in water infrastructure management projects**
  - » Dino Dragun, CEO of HIDROCIBALAE - **“How geodetic surveyors contribute to the offshore wind farm construction process”**
  - » Panel Discussion with the above mentioned speakers and
  - » Mike Hopkins, Managing Director at Storm Geomatics Limited - **Why the geospatial profession is critical in saving planet Earth** (participation online or by video)
  - » Gordon Johnston, Chartered Surveyor and Director at Venture Geomatics Limited, - **Blue Surveying: You can help build the Capacity** (participation online or by video)
  - » Axel Annaert, Head of faculty Nautical Sciences, coördinator institute for hydrography Antwerp Maritime Academy, Geodetic Surveyor - **Need of Hydrographic education**



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17:30 |  **Coffee Break**

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18:30 | **Final discussion – Conclusions – Preparation of the Sevilla Declaration**

**Moderator: Nicolas Smith, French Géomètre Expert – CLGE Treasurer**

» Summary conclusions on the most important topics and ideas, emerged from the presentations and discussion with the above mentioned participants

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21:00 |  **Official TOPCART Dinner**

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**Maria Grazia Scorza**

IT

**CNGeGL Head of International Office and  
CLGE Adviser**

University degree in Languages and Modern Literatures. She has been Chair of Public Relation and Communication during FIG Working Week 2012; Vice Chair of FIG Commission 3 (2015-2018). Currently she is Adviser of the European Council of Geodetic Surveyors (CLGE).



**Bertrand Mercier**

FR

**Géomètre-expert, member of the  
International Commission of the Ordre des  
Géomètres-Expert (OGE France)**

Land surveyor engineer, he started his career as an intern to a U.S. land surveyor. Upon returning to France he worked as an industrial geometre expert for several years until he created his own company near Lyon. He was elected to the Order of Licensed Geodetic Surveyors (2011-2014), and then served as President, chamber of Surveyors, Loire Department (2014-2019). Since 2012, he has been a commission member of CSR, OGE



**Gordon Johnston**

UK

**Chartered Surveyor and Director at Venture  
Geomatics Limited**

Gordon is a Chartered Land Surveyor with over 30 year's professional experience of Hydrographic and Land surveying. He is director of Venture Geomatics Limited and Governing Council member of RICS; he is a vice chair of FIG Commission 4 – Hydrography; an FIG member of the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) which oversees the Standards at an international level.



**Huibert-Jan Lekkerkerk**

NL

**Sr Lecturer Ocean Technology / Sr. Survey  
Consultant**

Huibert-Jan holds degrees in hydrographic surveying, electronics engineering, and geo-information. From 2002 onwards he has been parttime teaching hydrography. He is technical editor of Hydro and GIM International as well as author of various articles and handbooks on surveying related topics.



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**Nicolas Smith**

FR

**French Géomètre Expert – CLGE Treasurer**

Géomètre Expert since 2005, member of the Europe and International OGE Commission since 2006, French CLGE and IG-Paris delegate since 2010, CLGE Vice President between 2014 and 2018. CLGE treasurer since 2018



**Ivana Racetin**

HR

**Croatian Chamber of Chartered Geodetic Engineers, Faculty of Civil Engineering, Architecture and Geodesy, University of Split**

Graduate Engineer of Geodesy and Geoinformatics, Born in Split, Croatia in 1969. Graduated at the Faculty of Geodesy, University of Zagreb in 1994. Postgraduate studies in Geoinformatics, Cartography and Geodesy. PhD degree in Geodesy and Geoinformatics at the University of Zagreb .



**David Fernandez Bruna**

ES

**Technical Director Leica Geosystems SL**

Degree in Geomatics (surveying) in the UPM (Polytechnic University of Madrid). Monitoring and GNSS Expert (Reference Networks). Business Development Manager for Geomatics, Monitoring and GNSS Reference Station Networks and Positioning Services.



**Dino Dragun**

HR

**CEO of HIDROCIBALAE**

Master's degree in Geodesy and Geoinformatics, worked from 2011 in Croatia, company Mig, as a Hydrographic/Cadastral Surveyor and lately as a Head of the Hydrographic Department. In 2020 he has founded hydrographic company Hidrocibalae, which is highly specialized in marine geophysical data processing services.



**Blaženka Mičević**

HR

**PhD, AGRODET Ltd and Croatian Chamber of Chartered Geodetic Engineers, Executive Board Member**

Founder of Agrodet Ltd after more than 12 years in private and public sector. For the last 7 years in public sector on the most important and influential positions regarding land management administration. Over the recent years played an important national role in creating laws and ordinances (sub-laws) in the field of surveying, agriculture and land consolidation. Through the international scientific work published many scientific and expert publications in Europe in the field of land management, land consolidation and survey. Member of Croatian Chamber of Chartered Engineers Board. Founder of Women in Surveying Initiative in Croatia. Chair of CLGE Women in Surveying working group.



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**Tea Dabrundashvili**

FAO

**Land Tenure Officer, Food and Agriculture Organization of the United Nations**

Has over 20 years of professional experience. Master of Science degree from the Technical University of Munich, Germany. Started her international work for FAO in 2006, and since then has been a core team member of numerous development projects to bring new developments to land tenure and land administration world-wide to increase security of tenure and efficiency of land administration



**Axel Annaert**

BE

**Head of faculty Nautical Sciences, coördinator institute for hydrography Antwerp Maritime Academy, Geodetic Surveyor**

Nationality and living in Belgium. Studied at the Antwerp Maritime Academy and sailed in different ranks until 1989. Studied at the University of Ghent, Geomatica for landsurveyor. Worked after the studies as indepent landsurveyor until now. teacher in nautical classes. Since 2013 involved in Hydrographic education.

Since 2019 Coordinator institute for hydrography and since 2021 head of faculty Nautical Sciences Antwerp Maritime Academy.



**Duncan Moss**

UK

**FRICS, CLGE Vice President, Principal Consultant, Ordnance Survey**

Has over thirty five years' experience with world-renowned national mapping agency Ordnance Survey of Great Britain. He has a very broad range of experience across a variety of technical, consultancy, managerial and project delivery roles. He has led Ordnance Survey's contribution as a partner in Scotland's Dynamic Coast project since 2015



**Luciana Colle**

IT

**Surveyor and Head of Institutional Relations for the Extraordinary Commissioner for the MOSE**

She graduated as a surveyor in Mestre Venice in 1979. From 1984 to 2000, she worked for the Ministry of Finance at the Technical Treasury Office of Venice. From 2001 to 2015, she worked at the State Property Agency. She was a member of a special commission regarding maritime State properties.



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**Magdalena Andersson**

SE

**Business Developer, Real Property and Marine Information**

Andersson is working as a Business Developer at the unit of Real Property Information, Geospatial Information in Lantmäteriet Sweden. Main area of expertise is real property information as well as marine information in relation to the real property register. Magdalena



**Lisa Hambraeus**

SE

**Head of department at Lantmäteriet, the Swedish mapping cadastral and land registration authority.**

Degree in Master of Science in Engineering, Surveying and Land Management. At the moment head of department at Lantmateriet, the Swedish mapping cadastral and land registration authority



**Cornel Paunescu**

RO

**Professor doctor engineer at the University of Bucharest, Faculty of Geology and Geophysics.**

Professor doctor engineer at the University of Bucharest, Faculty of Geology and Geophysics, Mihail Kogalniceanu Blvd., 36-46 , www.unibuc.ro. Professor of Topography, Geodesy, GIS, Remote Sensing, PhD advisor.



**Gordana Jakovljevic**

BA

**Assistant professor**

Gordana Jakovljevic, Ph.D. is an assistant professor at the University of Banja Luka, Bosnia and Herzegovina. Her practical and theoretical research interest lies in the field of remote sensing, deep learning, and environment protection, especially in water management.



**Mike Hopkins**

UK

**Managing Director at Storm Geomatics Limited**

Working in the surveyor profession since the age of 17. Has developed field to finish software solutions (GeoRiver) to streamline the output of deliverables for river channel surveys and also developed an IOS app (PhotoMapp) that can be used by anyone to capture geo-referenced data anywhere on our planet.



**Clemens Kiepke**

DE

**Vice President BDVI**

Born 1961, soldier after leaving school , study of geodesy in Hannover, two years education for the second state exam and examination, 1993 swearing in as publicly appointed surveyor, since 1996 different duties and responsibilities in the BDVI



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## Seville

The province of Seville is located in the autonomous community of Andalusia in southern Spain. Relatively few tourists venture beyond the capital, but its absolutely worth it if you have the time. Much of the province is cut through by the River Guadalquivir, which sets a striking scene. In fact many of the provinces villages and towns are positioned along the river.

## Seville City

Its capital, Seville is the largest city in Andalusia, it lies on the banks of the Gaudalquivir River and is one of the most historical centres of Europe, its undeniably the main attraction of the province itself and is brimming with historical and cultural citations. The city is the home of tapas, flamenco and the keeper of the Archive of the Indies (the extremely valuable historical records documenting the history of the Spanish empire).

Seville is a must for travellers who want to completely immerse themselves in Andalusian culture and history. Sevillanos (natives of Seville) also know how to enjoy themselves to the max so combine history, culture and frivolity in one and you have Seville. The City Center is a busy area in the heart of Seville full of shops and lively tapas bars along Calle Perez Galdós.





PHOTO  
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# THE Venue



**HOTEL  
BARCELÓ SEVILLA  
RENACIMIENTO**

Av. Álvaro Alonso  
Barba, s/n, 41092  
Sevilla, Spagna



**CONFERENCE  
ROOM**

Spain 1+2+3 Hall