

## president's corner



### Dear Colleagues

I hope that each one of you continues to stay safe and healthy and that your families, loved ones and friends are also protected and well as the pandemic continues. Depending

on where we live, we are affected in different ways based on policies for managing the pandemic and capabilities to respond to its impacts. While the virus has not diminished, our individual and collective efforts to reduce or eliminate its effect on us through science, responsible personal behavior, and brave workers helping us each day is having positive results. As vaccinations become available, the transition to a more normal time cautiously begins. I am hopeful that with our collective diligence in adhering to health experts' advice, we will weather this period in our lives.

The ICA continues in its mission to advance the disciplines of cartography and GIScience in an international context. By moving most of our work and activities to on-line and virtual

environments, the ICA Executive Committee, Chairs of Commissions and Working Groups and other officers of our professional organization have made it possible to continue our important work. The wonders of the internet have made it possible for us to connect in ways that were not imaginable for those of us with decades of experience. One incredibly positive outcome of this new setting is the increased involvement by developing countries. In a world where personal attendance through travel and accommodation have precluded some of our colleagues from participating, the virtual world has shifted to inclusiveness. While connectivity is a challenge for some, creative efforts are made by members of our community in finding ways to participate. I have been in many international virtual meetings and sessions and I continue to be immensely amazed and gratified by the diverse and active involvement by those participating.

In this issue, you are reading about some of the current work of the ICA and some recent accomplishments. I would like to highlight a few of those items in this article. As an international professional body, the ICA is very healthy

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New Zealand Cartographic Society's 50th Anniversary cake decorated with 'flowers' made from recycled maps by Lesley Murphy | Photography Shannon McColley

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## the world drawn by children

The International Cartographic Association, organiser of the Barbara Petchenik Children's World Map Awards, has collaborated with the National Geographic Institute (IGN) of Spain, on a new book *The World drawn by children, Barbara Petchenik International Competitions 2017 & 2019 / El mundo dibujado por los niños, Concursos Internacionales Barbara Petchenik 2017 y 2019*, published as part of the 150th anniversary celebrations of the IGN foundation. The bilingual, English and Spanish, digital edition is available from the IGN website's ([www.ign.es](http://www.ign.es)) publication section.



The book has been designed and produced at the IGN's National Atlas department and printed by the Spanish Office for Geographic Information. The Spanish Society for Cartography, Photogrammetry and Remote Sensing, the Spanish adhering organisation to ICA, and the ICA Commission on Cartography and Children, have also made valuable contributions. Of course, the basic work has been carried out by all children who took part in the competitions held in 2017 and 2019. The book also features illustrations from the biography of Barbara Bartz Petchenik by Santiago Nehuen Fernández Lascano provided by the National Geographic Institute of

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Looking at the Calendar section of the last three issues of *ICA News*, I notice the impact the global pandemic has had on the organisation of cartographic meetings and events worldwide, especially its mode. Starting in December 2019 issue (No73) there was business as usual with many notices inviting us to attend various gatherings dotted across four (possibly five) continents. The situation rapidly changed six months later with many meetings being advertised as virtual events, although most being postponed or even cancelled. However, a touch of optimism remained with many in-person gatherings planned in 2021 and beyond, as it was hoped the pandemic will be gone by then (No 74, June 2020). Another fast forward to issue No 75 (December 2020) and we see a similar pattern with early events being offered virtually and the later ones, especially in the second half of 2021 and beyond – in-person. And finally we arrive at this issue (No 76) and we witness the virtual mode being the new ‘normal’ for cartographers to meet. However another novelty has entered the stage – hybrid meetings, including the upcoming ICC 2021 in Florence, a clear sign that the pandemic is gradually losing its grip!

Reflecting upon these observations, I am encouraged and motivated by the adaptability of our global cartographic community who, despite all these adversities and challenges, is constantly finding ways to meet and talk about cartography. This adaptability is at the very heart of our discipline, as cartography itself faced many radical changes over the last few decades (and there is no sign of slowing down!). I am sure many of us are missing the ‘human touch’ offered by in-person meetings, but many would also agree that virtual events provide opportunities to those who would otherwise not be able to attend them at all.

This issue of *ICA News* reports on two anniversaries of our national members – New Zealand and Bulgaria – and announces a new publication devoted to the Barbara Petchenik Children’s World Map competitions. Many thanks for your support.

Igor Drecki | Editor *ICA News* | ICA ■

The **ica news** is published by the International Cartographic Association (ICA).

President: **Tim Trainor** | *United States of America*

Secretary General & Treasurer: **Thomas Schulz** | *Swiss Federal Statistical Office* | *Switzerland*

Editor *ICA News*: **Igor Drecki** | *National Library of New Zealand* | *New Zealand*

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organizationally, programmatically and financially. The Secretary General and Treasurer Thomas Schulz and I are in frequent contact, oftentimes daily, where we confer on ICA business. We also meet virtually to share documents and to discuss topics of importance to the ICA. The ICA Executive Committee works very well together as we meet over two days making our way through a comprehensive agenda. You have seen articles summarizing these meetings and I hope you find them useful. We also have met with the ICA Commission and Working Group Chairs where we have shared helpful information that includes plans for events, accomplishments, and future directions.

Our Secretary General and Treasurer has communicated frequently with many of our leadership team including national members. Engaging with our national members has kept the ICA strong financially which is an important aspect of any organization.

Planning for the ICC 2021 in Florence, Italy in December has been a primary focus for me and Thomas so that all of us have an opportunity to meet and advance our programs within the ICA. The ICC is a pillar of the ICA, and many have worked extremely hard to make this possible. The ICC 2021 Local Organizing Committee (LOC) have been exceptional in their planning and managing the many aspects of hosting an international conference. Their experiences in trying to make a physical conference possible have been challenged by the constraints of the pandemic like no other ICC in our organization’s history. Uncertainty has been one of the tenets of the pandemic. Trying to organize an all-encompassing event with uncertainty as a key impediment is nearly impossible. Yet, at every turn, the LOC proposed suitable options to address the many changes that were required. The goal, to have a hybrid conference for maximum opportunity, with a preference for meeting in person, was on our minds in each engagement. Their determination and steadfast conviction are being realized. As you have seen from the conference website, the program is well underway. Registration is open and we look forward to your participation. We had a record number of full paper submissions. More abstracts have been coming in. Final details on the venue and facilities are being made and the ICA Executive Committee is planning a conference site visit in early September. Regular meetings with the Secretary General and myself have been collaborative and helpful. These meetings now occur every three weeks to review planning progress and to address any issues that may arise. As parts of our world make noticeable progress in managing the pandemic, events like the ICC are now possible. We look forward with increasing excitement to meeting in Florence. This renaissance from the long, temporary halt to our daily lives provides an opportunity to engage, share a coffee and think about what’s next.

One significant accomplishment for the ICA is

the publication of the eBook *Mapping for a Sustainable World* ([digitalibrary.un.org/record/3898826?ln=en](https://digitalibrary.un.org/record/3898826?ln=en)) in collaboration with the United Nations. This publication project reflects the ICA’s increasing alignment with UN cartographic and geospatial efforts from the previous three ICA executive committees. The establishment of the UN Committee of Experts on Global Geospatial Information Management (UN-GGIM) in 2011 found the ICA leading what would become the Geospatial Societies thematic group. Setting an example, the ICA stepped up when the UN announced the 15-year program in 2015 on the 17 Sustainable Development Goals. Cartography is a crucial component for understanding and taking action on the SDGs. In response, the ICA Commissions compiled, designed and produced a number of large-format posters ([icaci.org/maps-and-sustainable-development-goals/](https://icaci.org/maps-and-sustainable-development-goals/)) for display at the 2016 annual meeting of the UN Committee of Experts that have been used in other cartographic events. The eBook, under the direction of Immediate Past President Menno-Jan Kraak, is a continuation of this relevant work. As the ICA continues advancing the work of the Commissions and Working Groups. A goal is to build on the substantive work introduced in *Mapping for a Sustainable World*. This is an exciting time for cartographers in their continued efforts to solve real world challenges.

A second recent ICA publication was completed during this period entitled *The World drawn by children* organized and published by the National Geographic Institute of Spain as a tribute to the 150th anniversary of their founding. The book is a collection of children’s maps from the Barbara Petchenik international competition from the 2017 and 2019 ICCs. This is a wonderful collection of the creative views of children from around the world.

Communicating about the ICA’s contributions shares what we do with a wider audience. To that end, I wrote several articles in recent editions of *ArcNews* to publicize with the larger geospatial community important recent contributions from the ICA. One article, *Stay the Course and Seize the Moment* focused on assuring everyone that the ICA was active and assisting in a variety of ways during the earlier waves of the pandemic. Promoting the ICC 2021, with special emphasis on the International Cartographic Exhibition, including the Children’s Map Competition is reflected in *Experience the World of Maps and Mapping at the International Cartographic Conference*. An article on describing the content of the eBook and its value to current and future ICA activities is entitled *New Book Highlights Importance of Cartography in Achieving SDGs*.

Other recent ICA updates include participation in the International Science Council’s (ISC) virtual Extraordinary General Assembly. We also continue our connection with the ISC through our collective involvement with sister societies



# president's corner cont...

through the Geo-unions, a group of similar international organizations within the ISC. To indicate that the ICA's 'lights were on' during these trying times, I offered several keynote addresses highlighting the ICA in the last year including EuroCarto 2020, the European Forum on Geography and Statistics, Argentina's Tenth Congress on Cartographic Science, and AutoCarto 2020 sponsored by CaGIS.

It is clear that the ICA has been active during these challenging times. The ICA Executive

Committee, the Commissions and Working Groups, the national and affiliate members, our varied publications through their contributors and editors and the many cartographers and geospatial professionals who have participated in the events highlighted in the ICA News are proof that the ICA is healthy and moving forward. I look forward to seeing you in Florence later this year.

**Tim Trainor** | President | ICA ■

## ica news ica executive committee meets virtually

The ICA Executive Committee held its fourth meeting on 12-13 February 2021 in virtual format. So far, only the very first meeting could be celebrated in person on 22-24 November 2019 in Ghent (Belgium). However, the pandemic situation and the travel restrictions over the last year and a half have subsequently prevented in person meetings and have forced us to meet virtually ever since. Many of the planned activities related to cartography and to the ICA have also been cancelled, postponed or are being held virtually. Nevertheless, the vaccination process that is currently taking place allows us to be optimistic towards a nearby future. Therefore, we are looking forward to meeting again in person soon. The fourth meeting was a fruitful time for sharing updates, thoughts, opinions and ideas amongst all Executive Committee members. We would especially like to thank Professor Philippe de Maeyer for the technical organisation and support of the meeting.

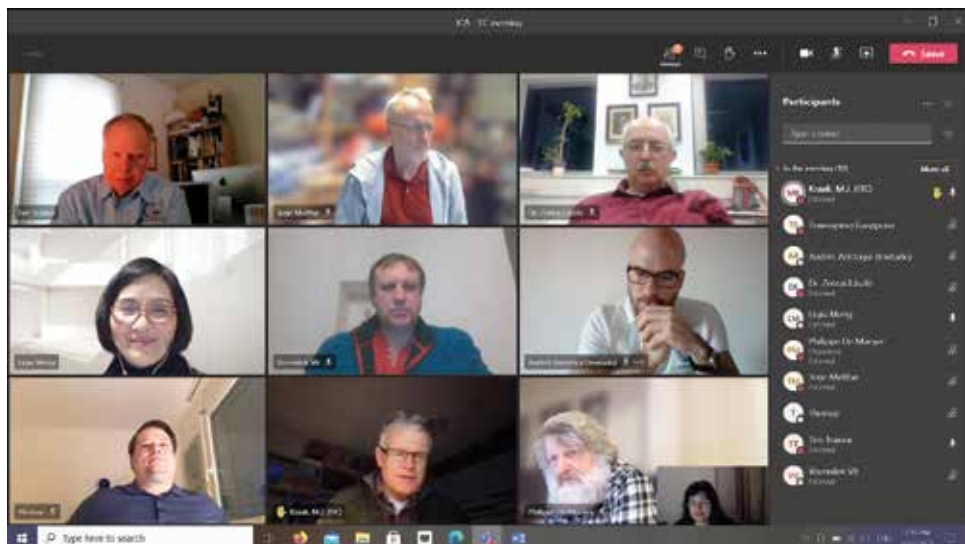
One of the main topics debated along the fourth meeting was the 30th International Cartographic Conference to be held in Florence on 14-18 December 2021. It is planned to be celebrated in a hybrid manner, i.e. both in person and virtually. The first phase for submitting full papers ended last April. Over 90 papers were handed in, what is considered to be a great success. The second deadline for submitting abstracts is set for 20 June 2021. We encourage all organisations, universities and everybody linked to cartography to submit an abstract and participate in the Conference in Florence. The 30th International Cartographic Conference shall be an extraordinary opportunity for the cartographic community to meet again after the pandemic and relaunch our discipline into a very promising future.

The guidelines for the ICA scholarships 2019-2023 were completed and approved unanimously by the Executive Committee during the fourth meeting. We especially foster the participation of young people in our cartographic family. It is crucial for an international organisation like the ICA to get young people involved. Only this way may an institution secure its future in a globalised world. Therefore, we especially encourage as many young people as possible to come and join the Conference in Florence.

Most of the Commissions reported on their activities over the last months prior to the fourth meeting getting started. The Executive Committee is very grateful for having such a great success in

Virtual meeting of the ICA Executive Committee | Image courtesy of Temenoujka Bandrova

> 04



## ica news 25 years ago...

The *Comment* below, takes us back not 25, but 122 years! Although it does not require any commentary, I was intrigued by the composition of the committee tasked to 'undertake the preliminary arrangements'. As it turns out, it most likely included General Alexei Andreyevitch Tillo (Russia), General Heinrich Paul Edward von Steinmetz (Germany), and Mr Jean Daniel François (Franz) Schrader (France).

Unfortunately General Tillo died in January 1900 shortly after the formation of the committee and General von Steinmetz withdrew, both facts contributing to the slow progress being made. Schrader, on the other hand, became a part of the renewed committee that was set up five years later at the 8th International Geographical Congress held in the United States in 1904.

**Igor Drecki** | Editor ICA News | ICA ■

### ICA Newsletter, No 26, Summer 1996

#### Comment

Ninety-six years ago [1899] the 7th International Geographical Congress in Berlin passed five resolutions dealing with cartography. The very first concerned an International Cartographic Association. – *The Congress looks upon the foundation of an International Cartographic Association as desirable, and appoints a committee to undertake preliminary arrangements.* Cartographers were to wait for more than sixty years before the International Cartographic Association was founded. The ICA has just held its 10th General Assembly in Barcelona and its largest conference ever. IGU is to hold its 28th International Geographical Congress in the Hague in August this year. Few of ICA's founding individuals survive. They and others will be puzzled by the occurrence of an IGU Congress which has no international map exhibition. Perhaps this is a sign of the coming of age of ICA as much as it is an indication of a trend within Geography. Whatever the underlying reason for such a change of policy, it behoves the ICA to hold fast to its faith in the map, as redefined, and in mapping. It is our organisation which has to take over the torch from the geographers – and it is doing so. However, the widespread popularity of GIS techniques among geographers and their continued concern with spatial relationships insists that the geographical roots of mapping should not be abandoned.

**Christopher Board**

[Editor ICA News, 1996-1999]

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## Submission Deadlines

**15 May** for June editions

**15 November** for December editions

# ica news ica executive committee meets virtually

cont...

getting a broad feedback from most of the Commissions and would like to thank them for the hard work carried out. The five new working groups that were set up during the first meeting are now visible on the ICA webpage including their terms of reference and the names of their chairs. All working groups reported on activities, progress and future works during the fourth meeting. Most of the groups are now meeting regularly and have started their works. The working group on Cartography and Sustainable Development is currently seeking for people with an interest in the topic with the aim of getting underway during the Conference in Florence. Those interested, please get in contact with Philippe de Maeyer or Andrés Arístegui.

The Executive Committee of the ICA thanked the Publication Committee during the fourth meeting, including the ICA Journal, the ICA News and the eCarto Newsletter, for the hard work they are carrying out for the ICA and the excellent results they are achieving. Two new books were presented during the fourth meeting by two of the Executive Committee members: Andrés Arístegui launched *The World drawn by children – Barbara Petchenik International Competitions 2017 & 2019*, published by the National Geographic Institute of Spain, and Menno-Jan Kraak presented *Mapping a Sustainable World*, published by the United Nations. Also, a request related to publications arose again during the fourth meeting, i.e. may we please ask the different Commissions to make more intense use of the blog to announce new conferences and to share information with the rest of the ICA, please.

Regarding new members, the Institution of Surveyors of Kenya and Bayanat Mapping and Surveying Services LLC from the United Arab Emirates were welcomed as new affiliate members of the ICA.

Towards the end of the meeting, the debate moved to the relations of the ICA with other organisations. In this respect, Tim Trainor informed on the important link to the ISC and to the United Nations and highlighted the relevance of integrating statistics and geospatial data. The Executive Committee thanked Serena Coetzee for being the representative at OGC and reporting on the works carried out in this field. Temenoujka Bandrova reported on the next hybrid conference of the International Society for Digital Earth (ISDE). And Philippe de Maeyer will reach out to UNESCO in order to explore a future official collaboration with this organisation.

The fifth meeting of the Executive Committee is planned for 11-12 June 2021 in virtual format. The sixth meeting is organised for 2-4 September 2021 in person in Florence. This is when the site inspection will be carried out. And the seventh meeting will take place in Florence in December 2021 during the International Cartographic Conference.

**Andrés Arístegui and Temenoujka Bandrova** | ICA Vice Presidents | *Spain / Bulgaria* ■

# the world drawn by children

cont...

Argentina (see report by the ICA Commission on Cartography and Children on page 7 for more details). The digital edition was presented in Madrid on 11 February 2021 on the occasion of the International Day of Women and Girls in Science to pay tribute to all women and girls who have shown dedication to or interest in Geography and Cartography.

In addition, the Ministry of Transport, Mobility and Urban Agenda, which the IGN is part of, held a tribute to Barbara Bartz Petchenik (1939-1992), an American cartographer, on 8 March 2021 on the occasion of International Women's Day. The event was part of an exhibition entitled *They Changed Our Course*, which presented the careers of eight women whose work contributed to equality between men and women in hitherto largely male-dominated professional fields. Barbara Bartz Petchenik's life was an extraordinary example of how she interweaved science with values. She was the first woman to serve as Vice President of the ICA, and led and participated in numerous cartographic projects; she produced an exceptional scientific output in the field of cartography and worked to make her great passion – cartography – a part of education from childhood.

**Pilar Sánchez-Ortiz and Andrés Arístegui** | Instituto Geográfico Nacional | *Spain* ■

*They Changed Our Course* poster devoted to Barbara Bartz Petchenik





The 30th International Cartographic Conference (ICC2021) is fast approaching. The in-person conference will be held in Firenze (Florence), Italy, as an on-site event from 14 to 18 December 2021. Remote access to a large part of the conference will also be provided, giving an opportunity to participate to as many attendees as possible who cannot reach Italy in person.

In the hope of making these days scientifically and culturally rich and fruitful, the Local Organising Committee is organizing numerous satellite events, in compliance with all current safety protocols, and you are warmly invited and encouraged to participate.

There are many public and private institutions which will conduct guided tours, free of charge or at reduced rates. Their collections are among the most valuable and important in the world and all located in the heart of the historic center of Florence, very close to the conference venues. You will have an opportunity to visit Istituto Geografico Militare (Italian Military Geographic Institute); Museo Galileo (Institute and Museum of History of Science); Osservatorio Ximeniano, founded as an astronomical observatory by the Jesuit Leonardo Ximenes in 1756 and still active today as a meteorological and seismological observatory; Georgofili Academy, the oldest institution of its kind in the world that deals with agriculture, environment and food, and promotes the advancement of knowledge, the development of technical-economic activities and social

growth; Florence National Central Library, which preserves ancient papers among which the Palatino and Magliabechiano collections stand out; Biblioteca Medicea Laurenziana, with its collection of around 11,000 manuscripts, designed and partly built by Michelangelo Buonarroti; as well as the Uffizi Gallery, the Opificio delle Pietre Dure, the Palazzo Vecchio, Palazzo Pitti and Boboli Gardens, all needing no introduction. Further afield, you will have a chance to visit the historical cartographic archive of Fiesole and the nearby archaeological park with a splendid view of the Tuscan hills.

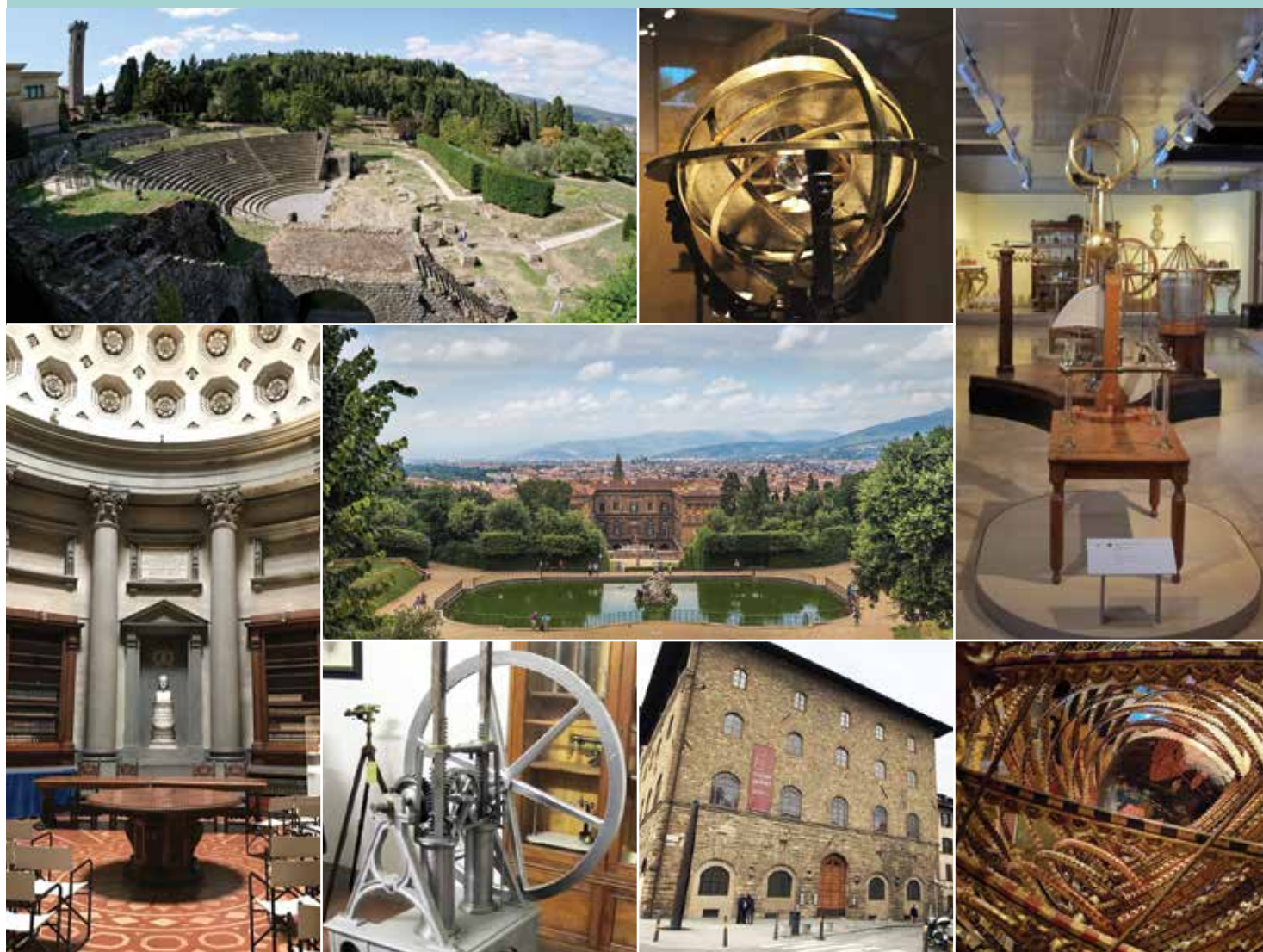
Commissions and Working Groups are planning pre-conference workshops, mostly at the weekend prior to the Conference. All the related information will be regularly updated on the conference website, which we recommend visiting periodically.

Registration to the conference is open. Lower fees are available for students, seniors or attendees from low and low-middle income countries, as well as to all who take advantage of the early registration of 17 September 2021; regular fees apply after this date.

We will do everything possible to create an unforgettable experience. Looking forward to receiving your contributions and seeing you in Florence, safe and healthy!

**Giuseppe Scanu** | Conference Director | ICC 2021 Local Organising Committee | Italy

*(clockwise from top left) Roman Theatre in Fiesole; Museo Galileo: Armillary Sphere, Sala al Secondo Piano, Large Armillary Sphere, and Museo Galileo building; Scientific instrument at Osservatorio Ximeniano; Sala di Lettura in Biblioteca Medicea Laurenziana; (centre) Palazzo Pitti viewed from Giardino di Boboli (Boboli Garden) | Photography courtesy of ICC 2021 LOC*





# profiles

## rob edsall



My family was big on road trips when I was a kid. When I was about seven, I got the front seat (supplanting my big sister) because I loved to help my single mom navigate, both by reading and understanding road signs, and later by using maps and travel guides. On those road trips we'd stop at restaurants and I'd ask my mom for a pencil from her purse, then flip over the paper placemat to its blank side, and draw "roads" – maps of both our travels and imaginary places. I didn't think this was weird at all (my sister thought otherwise).

Making maps, to me, has always been a great way of making better sense of a place I'm familiar with, and of learning about a place I've never been, and of putting stuff floating in my head on paper. I love that maps can spark – and even represent – the imagination, and can help us think. Cartographers can generalize, abstract, reorient, categorize, and model the world in an infinite number of ways to help understand our surroundings. This is a vital skill set in today's complex world.

In 2015 I joined the staff at one of the two dozen or so National Laboratories across the U.S. that performs cutting-edge research for the energy branch of the U.S. government. Our federal partners have both a glut of data, and a gap of capabilities and techniques to understand and make decisions with that data. When I came to the lab, I discovered a delicious assortment of research problems for, in my case, the representation and understanding of geographic data about the country's infrastructure: water, power, fuels, communications, and transportation – facilities and networks vital to the national economy, security, and society. The challenges brought to us lead to cartographic and data-viz solutions for policy and decision support: my team's maps have helped track cascading impacts of cyberattacks, enabled emergency responders to allocate scarce resources, and improved understanding risks from natural or human hazards, including pandemics, to the country's economic and societal lifelines.

Working at the lab has illuminated the very clear ways that cartography can play a vital role in solving real-world problems. Understanding geography and spatial data and relationships is at the heart of many things government agencies are asked to do, and it's very fulfilling to know my training and experience as a cartographer

# profiles italian association of cartography

[www.aic-cartografia.it](http://www.aic-cartografia.it)

In 1963, five Italian cartographic institutes were recognised as the official national organisations: Military Geographical Institute, Navy Hydrographic Institute, Aeronautical Geotopographic Information Center, Cadastre, and Geological Service. This development prompted the establishment of the Italian Association of Cartography (AIC) to disseminate the science and culture of cartography and its role in analysing and researching the country. Since then, the AIC has become the place to meet and discuss technical and scientific issues concerning cartographic representation, as well as to facilitate conferences, academic symposia and educational activities.

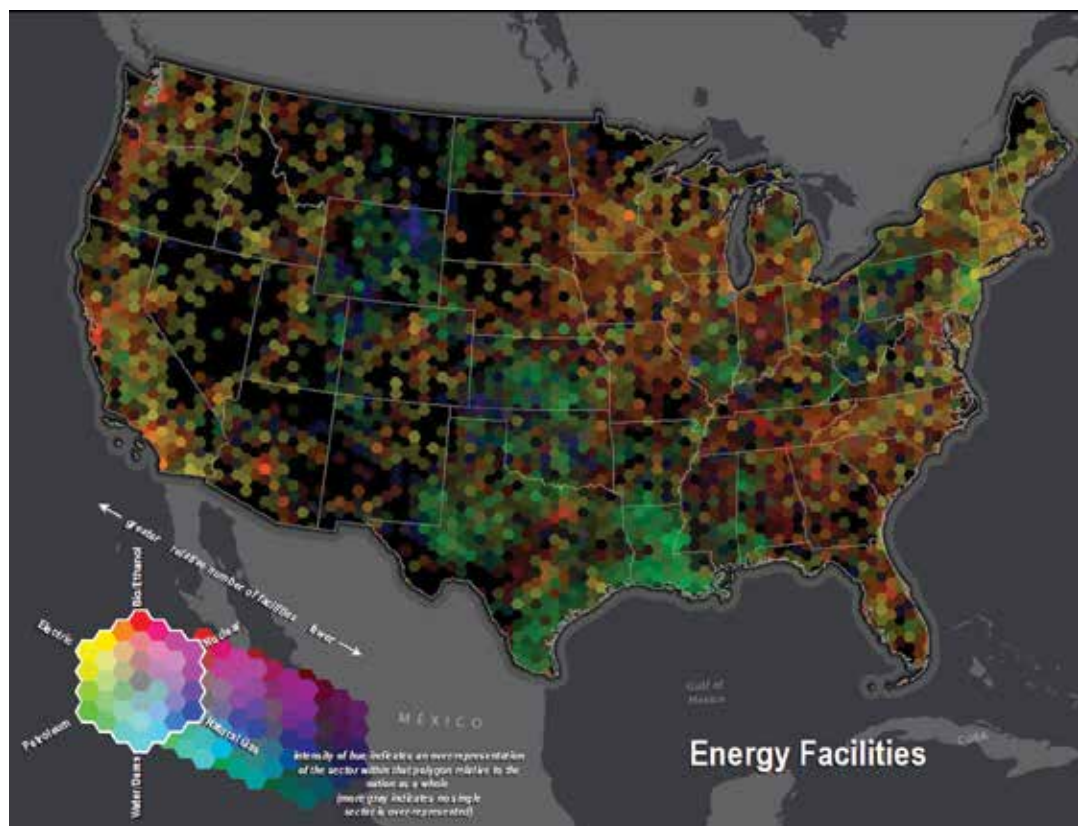
To cater for the most renowned specialists in the Italian public and private cartographic communities, and provide an outlet for researchers and other experts, the AIC publishes *Bollettino dell'Associazione Italiana di Cartografia* (see *ICA News*, No 66, June 2016, p 6, for a profile), and the *Series of Studies and Memories (Collana di studi e memorie)* containing open access essays and short reports on themes related to cartography (in Italian).

AIC pays particular attention to cartographic heritage, for its documentary value and scientific knowledge, its application in planning, representing, interpreting, and managing the landscape, and its role in safeguarding and promoting the environment and cultural heritage.

The collaboration with cartographic institutes, universities and companies allows for a constant dialogue on the most recent technologies for acquisition, treatment, processing, representation, and dissemination of spatial data on the Internet and through social networks.

Since 1991 the AIC is a founding member of the Federation of Scientific Associations for Territorial and Environmental Information (ASITA Federation) together with the Italian Society of Topography and Photogrammetry (SIFET), the Italian Association of Remote Sensing (AIT), and the AM/FM/GIS Italia (Automated Mapping / Facilities Management / Geographic Information Systems).

Giuseppe Scanu | President | Italian Association of Cartography | Italy ■



supports geographically-informed policy and keeps the U.S. and the world as healthy, sustainable, and as safe as possible.

Rob Edsall | Idaho National Laboratory | United States of America | [robert.edsall@inl.gov](mailto:robert.edsall@inl.gov) ■

United States Energy Facilities: energy system density, where intensity of hue indicates an over-representation of the energy sector within each hexagonal polygon relative to the nation as a whole, and decreasing saturation indicates no single sector is over-represented

[geodetski-vestnik.com/en/](http://geodetski-vestnik.com/en/)

*Geodetski Vestnik* (ISSN 0351-0271, e-ISSN 1581-1328) is the publication of the Association of Surveyors of Slovenia (Zveza geodetov Slovenije). It is an open access journal published quarterly in print and online. The double-blind peer-reviewed papers are indexed in several international bibliographic databases, including WoS, SSCI, JCR/SSE, GEOBASE(TM), ICONDA, DOAJ, Scopus, GeoRef.

The roots of the journal date back to 1953 when the Slovenian surveying society recognized the need to create a forum to discuss professional challenges in the post-war period. In the introduction to the first issue of *Vestnik* we read: *"In the post-war period, geodetic activity apparently prospered and flourished in all its fields. ... However, I would like to emphasize that the work of our experts is important for all spheres of our economic life, which are essentially connected with the development of electrification, industrialization, agriculture, mining, urban construction, river engineering, land reclamation, etc."* After a short interruption between 1962–1965, the Slovenian land surveyors continued the publication of the journal under the new title *Bilten*.

1973 was a milestone when the journal changed its name to *Geodetski Vestnik*. In 1976 the new editorial board initiated an important change, which was summarized in the first issue as follows: *"... we also want to improve our journal in terms of content. This could be*

*achieved by more professional, peer-reviewed, popular science and research papers, with new sections as well as interesting information and facts."*

Over the past decades, the journal gradually grew beyond the narrow scope of an association journal and became an internationally recognized professional journal publishing high-quality research and professional papers, discussions, and novelties in the fields of geodesy, land surveying, remote sensing, photogrammetry, geoinformatics, spatial data infrastructure and spatial data modelling, cartography, spatial decision support systems, land administration and land management, and spatial planning. As a bulletin of the Association of Surveyors of Slovenia, the journal also publishes news from the surveying profession, including the national surveying and mapping authority and international professional societies, reports on projects and events, and communications to members. The journal is published in English and Slovenian. Despite some ideas of switching completely to English and discontinuing the printed version, they were not implemented.

The mission of the journal is to be an internationally recognized open-access scientific journal that provides a platform for discussion on professional and societal challenges in the geospatial domain – in Slovenia and in the region. These ideas,



Recent cover of the *Geodetski Vestnik* journal

developed in the 1970s, are therefore still faithfully pursued by the creators of *Geodetski Vestnik*.

At this point, I would like to thank all former and current members of the editorial board, authors, as well as reviewers for being a part of the journal's success story!

**Anka Lisec** | Editor-In-Chief | *Geodetski Vestnik* | Slovenia ■

## reports ica commissions

### Cartography and Children

[lazarus.elte.hu/ccc/ccc.htm](http://lazarus.elte.hu/ccc/ccc.htm)

#### *The World Drawn by Children Book*

The series of books dedicated to the Barbara Petchenik Children's World Map Competitions has become a traditional and distinctive hallmark of ICA, a symbol of the work that ICA undertakes to inspire new generations and make cartography and maps more popular among children and young people. To date, five books were published within the series, four of them by Esri Press of the United States of America and the fifth by the Chinese publisher Sinomaps.

During the 29th International Cartographic Conference held in Tokyo in July 2019, ICA's former Vice President Pilar Sánchez-Ortiz, representing the National Geographic Institute of Spain, offered to print the sixth book of the

series (see the story on page 1). This prompted us to develop some initial ideas for the new edition. The previous books had a uniform format and similar design, and included a special content that made each one of them unique. Of course, we decided to maintain this arrangement and many design characteristics, such as the format and the general structure of the book, but at the same time we wished to introduce new elements to rejuvenate the series and try to make it not only more attractive, but also more practical and appealing to the younger generations.

The first decision was to take advantage of editing and printing the book in Spain by making it the first bilingual book in the series, with text in English and Spanish. This would hopefully help in strengthening the competition's presence and making it more popular in Spanish-speaking countries.

The second innovation was inspired by another book issued by the National Geographic Institute of Argentina some months before.



The Institute published a 45-page pocket book with a selection of drawings authored by Argentine children from their national competitions run between 1999 and 2019.

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Argentine editors decided to replace the traditional biography of Barbara Bartz Petchenik with a graphic comic strip telling a story of her life. We did not hesitate to contact the Argentine colleagues and ask them for their permission to reproduce this graphic biography in our book, and we were all very grateful when they promptly approved our request.

The third change related to the design of the book. Our Spanish colleagues proposed to use a new design for the cover and the book pages, the latter supplementing by colour-coding of different chapters of the book.

In the meantime, four members of the ICA Commission on Cartography and Children embarked on selecting 100 drawings from among 381 submitted to the competitions run in 2017 and 2019. At the end, maps drawn by children from 36 countries across 5 continents were reproduced in the first part of the book. In addition, to mark the 150th anniversary of the National Geographic Institute of Spain, the volume contains a selection of maps authored by Spanish children and submitted to the national competitions organised since 1993.

The editors and all engaged in the book's production firmly believe that it's 172 pages open a new chapter in the history of the series and make a valuable contribution to increasing the interest of the younger generations in the fascinating world of maps.

**José Jesús Reyes Nuñez** | Vice Chair | ICA Commission on Cartography and Children | *Hungary* ■

## Cartography in Early Warning and Crisis Management

[plat.casm.ac.cn/ewcm/](http://plat.casm.ac.cn/ewcm/)

### Commission Workshop

The ICA Commission on Cartography in Early Warning and Crisis Management is organising a pre-ICC 2021 workshop scheduled for Monday, 13 December 2021. Registration is free and the workshop's venue will be announced in due course.

The workshop will consist of two 1.5 hour sessions. The first session on *Early Warning and Disaster Risk Management in Big Data Era* will cover the following topics:

- Disaster Management and Emergency Preparedness, Prevention, Alert, Response and Mitigation
- Multi-Dimension Disaster Information Processes Intelligent Modelling, Applications and Services
- Geospatial Analysis and Data Mining
- Intelligent and self-adaptive Disaster Cartography
- Disaster Risk Analyses and Mapping Using

Social Big Data

- Mobile Disaster Cartography
- Disaster Big Data Processing and Sharing
- Remote Sensing Technologies and Applications for Disaster-related Cartography
- Crowdsourcing in Early Warning and Disaster Risk Management

Themes to be discussed at the second session titled *Geographic Information Service for the Response of COVID-19 Crisis* include:

- Social Big Data Perception and Acquisition Related to COVID-19
- Big Data Processing and Analysis for COVID-19 Prevention
- Dynamic Mapping and Geographic Information Services for COVID-19 Crisis

Contributions are due by 15 November 2021.

For further information, please contact Xianghong Che ([chexh@casm.ac.cn](mailto:chexh@casm.ac.cn)), Commission Secretary.

**Xianghong Che** | Secretary | ICA Commission on Cartography in Early Warning and Crisis Management | *China* ■

## Cognitive Issues in Geographic Information Visualization

[cogvis.icaci.org/](http://cogvis.icaci.org/)

### Commission Workshop

On 6 May 2021, the ICA Commission on Cognitive Issues in Geographic Information Visualization and the Commission on User Experience held a successful online workshop entitled *Adaptable Research Methods for Empirical Research with Map Users*.

We had 54 registered participants, with most continents represented among both presenters and/or attendees. This meant that some of us

stayed up rather late and others of us got up rather early, but the scientific exchange was excellent and a lot of fun, making the odd hours worth it for those in the unlucky time zones! It was very nice to have real-time international exchange after so long (see some of our happy faces below).

The workshop was full of stimulating discussions about challenges that we have all experienced in conducting empirical research despite movement and gathering restrictions since the onset of COVID-19 in 2020 and the creative ways that different research teams have solved these challenges.

Among others, some of the topics that were discussed included:

- the trade-offs between reduced experimental control and greater sample representativeness when doing remote studies
- methods for checking data to ensure that remote studies are gathering valid data
- demonstrating tools that can help in conducting remote studies
- how to adapt data collection technologies for working on a range of participant devices
- comparing webcam-based eye tracking technologies
- how one can try to pivot and adapt a planned study in the face of great uncertainty (particularly important for our PhD students)

The workshop included a mix of presentations, demonstrations, and discussion. You can find the slides and recordings of the presentations at the Commission website ([cogvis.icaci.org/21\\_adaptable.html](http://cogvis.icaci.org/21_adaptable.html)). We are currently in the process of planning a follow-up workshop on webcam-based eye tracking. Keep an eye on the Commission webpages for updates on those activities.

**Amy Griffin and Robert Roth** | Chairs | ICA Commission on Cognitive Issues in Geographic Information Visualization / ICA Commission on User Experience | *Australia / USA* ■

Some of the participants of the *Adaptable Research Methods for Empirical Research with Map Users* workshop, May 2021 (via Zoom) | Image courtesy of Amy Griffin





## Geospatial Analysis and Modeling

[gam.icaci.org/](http://gam.icaci.org/)

### Symposium in Florence, Italy

The pre-ICC 2021 Symposium on *Geospatial Approaches to Combating COVID-19* will take place on 13-14 December 2021. The event is jointly organised by the ICA Commission on Geospatial Analysis and Modeling and the ICA Commission on Location Based Services.

The organizing committee welcomes submissions from the ICA community to share COVID-19 research from any geospatial perspectives including, but limited to, human dynamics, contact tracing, spatiotemporal modeling of the spread, geovisual analysis, health disparity and other social, legal or ethical issues.

The Symposium will take a hybrid format, in person in Florence, Italy, and virtually, via Zoom application. The Commission offers two awards, one for best paper and one for best student paper. Two peer-reviewed journal special issues are planned post-event.

For more information and submission of extended abstracts, please visit the Symposium website at [gam.icaci.org/symposium2021/](http://gam.icaci.org/symposium2021/).

**Xiaobai Angela Yao** | Chair | ICA Commission on Geospatial Analysis and Modeling | USA ■

## Geospatial Semantics

[icaci-geospatialsemantics.usgs.gov/](http://icaci-geospatialsemantics.usgs.gov/)

### Growing a New ICA Commission

The ICA Commission on Geospatial Semantics was proposed by the US National Committee and approved by the ICA General Assembly in Tokyo, Japan. The Chair is Dalia Varanka, Vice Chair Francis Harvey, and the ICA Executive Committee liaison is Temenoujka Bandrova.

All data have semantics. The Commission shares information and work on any aspect of geospatial semantics and cartography, including scientific, technological, and social aspects of geography. The Commission is seeking to increase membership, to collaborate on joint research interests, and to disseminate information to grow the subfield of semantics of cartography, geographic information science, and related domains.

A Commission website was initially established in 2019 on the WordPress platform. Site statistics indicated about 608 visitors in 2020 and 203 visitors up to May 2021 from five continents that viewed the pages. In May 2020, the domain name was changed to point to a new Commission website hosted by the US

Geological Survey at [icaci-geospatialsemantics.usgs.gov](http://icaci-geospatialsemantics.usgs.gov). This site is built on the Drupal platform to improve knowledge management functionality. The site offers announcements of ICA and Commission activities, resources for geospatial semantic research, and communication tools for any members.

### Commission Activities

Dalia Varanka and Francis Harvey were invited to join with other ICA Commissions (SDI and Standards, Cognitive Issues in Geographic Information Visualization, and Open Source Geospatial Technologies), as well as the Working Group on Cartographic Body of Knowledge, in discussions about the standardization of cartography-specific terminology and making cartographic knowledge accessible to software developers. Abstracts from these groups were submitted for presentation at ICC 2021 in Florence, Italy.

Activities planned for 2021 include hosting a webinar, organizing a workshop at ICC 2021, and compiling a special issue on geospatial semantics of the *International Journal of Cartography*.

**Dalia Varanka** | Chair | ICA Commission on Geospatial Semantics | USA ■

## Location Based Services

[lbs.icaci.org/](http://lbs.icaci.org/)

### LBS 2021 Conference



The ICA Commission on Location Based Services and the University of Glasgow are

pleased to invite you to the 16th International Conference on Location Based Services, which will take place entirely online between 24-25 November 2021.

Built on the success of previous conferences, LBS 2021 aims to offer a common ground to colleagues from various disciplines and practice where they can meet, interact and exchange knowledge, experience, plans and ideas on how LBS can and could be improved and on how it will influence both science and society.

We are inviting submissions of full papers and work in progress. High-quality full paper submissions are intended to be published in Springer's *Lecture Notes in Geoinformation and Cartography* series. Authors of the best full and work in progress papers will be invited to submit an extended version to the *Journal of Location Based Services* published by Taylor & Francis or *Journal of Navigation* by Cambridge University Press.

We are also pleased to announce two awards at LBS 2021, i.e. one for the best paper and one for work in progress. For more details about the awards and the conference itself, please refer to the following website: [lbsconference.org](http://lbsconference.org). We are looking forward to receiving your contributions and to interesting conference program!

### International Symposium

We are also pleased to invite you to the pre-ICC 2021 International Symposium on *Geospatial Approaches to Combating COVID-19*, which will take place between 13-14 December 2021. The symposium, which will be held as a hybrid event to be consistent with ICC 2021, is co-organized by the ICA Commissions on Location Based Services, and Geospatial Analysis and Modeling.

Many studies and practices have pointed out the importance of spatial thinking and the effectiveness of geospatial technologies in understanding COVID-19. It is critical to share these research findings quickly in order to maximize their use in the world's collective efforts. The symposium will examine COVID-19 research from the geospatial perspective.

The Best Student Paper Award and the Best Paper Award will be selected based on the submission and conference presentation. We intend to have a special issue of an international journal after the symposium. For more information, please refer to the symposium's website: [gam.icaci.org/symposium2021/](http://gam.icaci.org/symposium2021/).

**Haosheng Huang** | Chair | ICA Commission on Location Based Services | Belgium / China ■

## Marine Cartography

[marine.icaci.org/](http://marine.icaci.org/)

### Commission Activities

The 44th Annual Meeting of the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) was conducted online between 19-30 April 2021. The meeting was chaired by Ron Furness, with Lysandros Tsoulos also attending the event. Conduct of the meeting was particularly complex since the ten IBSC Members and the Secretary from the IHO Secretariat spanned 15 time zones. This year, twelve (12) submissions and two (2) international Certification Schemes were submitted for the Board's review which included fully documented submissions, presentations and interviews. While the presentations were pre-recorded and submitted before the meeting, each submitting team from each institution was interviewed, online, during the meeting. The preparation time was extensive and the commitment of all voluntary members of the IBSC is commendable.

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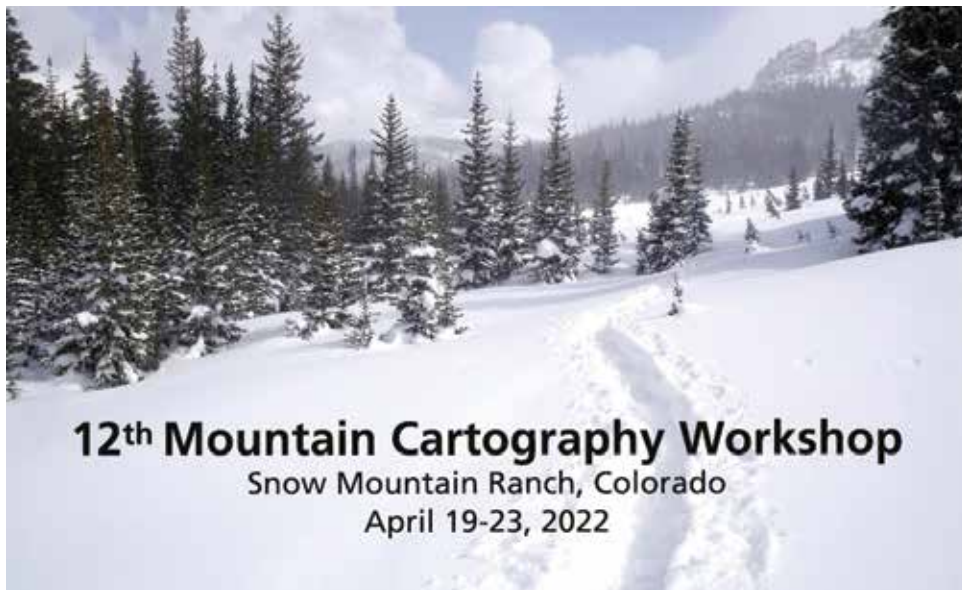
The IBSC comprises, as has been reported by us many times within ICA, four (4) Members each from FIG and IHO with two (Ron Furness and Lysandros Tsoulos) representing the ICA. The IBSC has a decision on its books to extend the ICA representation to four (4) which reflects the increasing workload. Additionally, neither of the present ICA representatives will be available for many more years. Therefore, if ICA representation on the IBSC is to continue, it is essential that suitably qualified ICA representatives are identified while a transition period can be still effected during the membership of Ron and Lysandros. If you are a nautical cartographer working in the broader hydrographic industry and are experienced with hydrographic surveying methodologies, then please contact either Ron ([rfurness@ozemail.com.au](mailto:rfurness@ozemail.com.au)) or Lysandros ([lysandro@central.ntua.gr](mailto:lysandro@central.ntua.gr)). The roles have required a certain amount of time that we have given freely with huge personal reward over about twenty years. If you want to give something back to the international cartographic community and feel you can contribute, and are prepared to put in some time, then please contact either of us.

The road ahead, as some sage once wrote, is paved with good intentions and so it has been regarding the ICA Commission on Marine Cartography website. Unfortunately, personal workloads have not allowed either of us the time to complete the planned improvements of the site. However, we both hope to get to this again shortly.

The ICC 2021 is *ante portas* (14-18 December 2021) and offers a unique opportunity to all those involved in nautical cartography activities whether it is nautical chart production, education, or research, to submit a paper for review by the scientific committee of the conference. Submission details are available at [www.icc2021.net/submission-guidelines/](http://www.icc2021.net/submission-guidelines/).

Please consider whether the CoastGIS series of symposia are of interest to you. The next was to be held in Raseborg, Finland later this year, 16-18 September 2021, but the ongoing pandemic finally put paid to that. Instead, the event will be an online event with a low registration fee that, we hope, might tempt you to attend. The registration fee for individual delegates will be just €50. Details can be found at [www.novia.fi/coastgis2021/](http://www.novia.fi/coastgis2021/). Ron Furness, through the ICA Commission on Marine Cartography, was a founding presence of these symposia, with the first having been held in Cork, Ireland back in 1995. Conceived initially as a one-off event with IGU's Commission on Coastal Systems to celebrate the sesquicentenary of University College, Cork, the series has proven resilient and in demand over the years with the 2021 event being the 14th, now biennial, event.

**Ron Furness and Lysandros Tsoulos** | Chair / Vice Chair | ICA Commission on Marine Cartography | *Australia / Greece* ■



## Mountain Cartography

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

### Workshop at Snow Mountain Ranch, Colorado, USA

We are pleased to announce a new date for our postponed 2020 workshop: 19-23 April 2022. The venue is Snow Mountain Ranch, Colorado, at an elevation of 2,650 meters. Our goal is to bring together cartographers, geographers, and others in a relaxed and inspiring setting to share new developments in cartography, design, and spatial analysis related to mountain environments. The 2022 workshop theme is *People, Maps, and Mountains*. For more information, please visit the Commission website.

**Dušan Petrovič** | Chair | ICA Commission on Mountain Cartography | *Slovenia* ■

## Toponymy

[www.igu-icatoponymy.org/](http://www.igu-icatoponymy.org/)

### Commission Activities

The Joint ICA/IGU Commission on Toponymy is organizing or co-organizing the following events:

- **34th IGU International Geographical Congress**, Istanbul, Turkey, 16-21 August 2021: purely virtual; registration by 11 August ([www.igc2020.org/en/REGISTRATION.html](http://www.igc2020.org/en/REGISTRATION.html)); call closed; toponymic sessions on the topic *Place names as indicators of human perception of space* with 15 papers
- **6th International Symposium on Place Names: Standardization and the wealth of place names – aspects of a delicate relation-**

**ship**, Bloemfontein, South Africa, 29 September – 1 October 2021: organized in cooperation with the University of the Free State; purely virtual; registration by 6 August ([www.usf.ac.za/2021ispn](http://www.usf.ac.za/2021ispn)); call closed; keynote speakers: Pierre Jaillard (France), Tendai Mangena (Zimbabwe); pre-symposium workshop *Collecting and documenting informal and alternative place names* conducted by Gerhard Rampl

- **2nd Pan American International Symposium on Toponymy (II SIPAT)**, Rio de Janeiro, Brazil, 17-19 November 2021: organized in cooperation with the Federal University of Rio de Janeiro; purely virtual; registration via [www.even3.com.br/SIPAT2021](http://www.even3.com.br/SIPAT2021); abstracts due by 1 September 2021
- **30th International Cartographic Conference**, Florence, Italy, 14-18 December 2021: hybrid; registration via [www.icc2021.net/registration/](http://www.icc2021.net/registration/); abstracts due by 28 May 2021; toponymic sessions organized by the Joint ICA/IGU Commission on Toponymy
- **Atlases in Time – National and Regional Issues**, conference at the occasion of 150th anniversary of the Instituto Geográfico Nacional (IGN), Madrid, Spain, April 2022: format not yet defined; organized in cooperation with Instituto Geográfico Nacional and the ICA Commission on Atlases; abstracts for toponymic papers due by 31 January 2022 to Peter Jordan ([peter.jordan@oeaw.ac.at](mailto:peter.jordan@oeaw.ac.at))
- **UGI-IGU Paris 2022, The Centennial Congress**, Paris, France, 18-22 July 2022: planned as in person event; registration not yet available; session proposals due by 31 July 2021; the Joint ICA/IGU Commission on Toponymy will submit a session proposal on *Place names as (positive or negative) brands*

**Peter Jordan** | Chair | Joint ICA/IGU Commission on Toponymy | *Austria* ■



## Cartographic Body of Knowledge

[bok.cartography.no/](http://bok.cartography.no/)

### Working Group Activities

The ICA Working Group on the cartographic Body of Knowledge has so far existed in the digital space only. Our hopes are, however, that we will be able to meet physically in December at the ICC 2021 in Florence, Italy.

The Working Group has been working on central definitions within our field. A paper on this issue is submitted to the conference. Among others, we have suggested a new definition for a **map**: *A map is a medium designed for communication of generalized spatial information and relationships*. It will be thoroughly introduced at ICC 2021 in December.

When it comes to the body of knowledge, **map** is probably the most central term, and various cartographic activities are centered around the **map**. The Working Group has discussed how to structure the Cartographic Body of Knowledge (CartoBoK). In this work we have been looking into BoK's for other sciences. One conclusion is that the CartoBoK needs to be a living document adapted to digital media, and not a static collection as for example a PDF.

The ICA Commissions will play an important role when the substance of the CartoBoK is collected. Much of the cartographic knowledge is available through the ICA Commissions. Some of the knowledge is common for several commissions, while certain knowledge is more specialized.

The Working Group has established a website, where more information about our work will be reported on.

**Terje Midtbø** | Chair | ICA Working Group on the Cartographic Body of Knowledge | Norway ■

## History of ICA

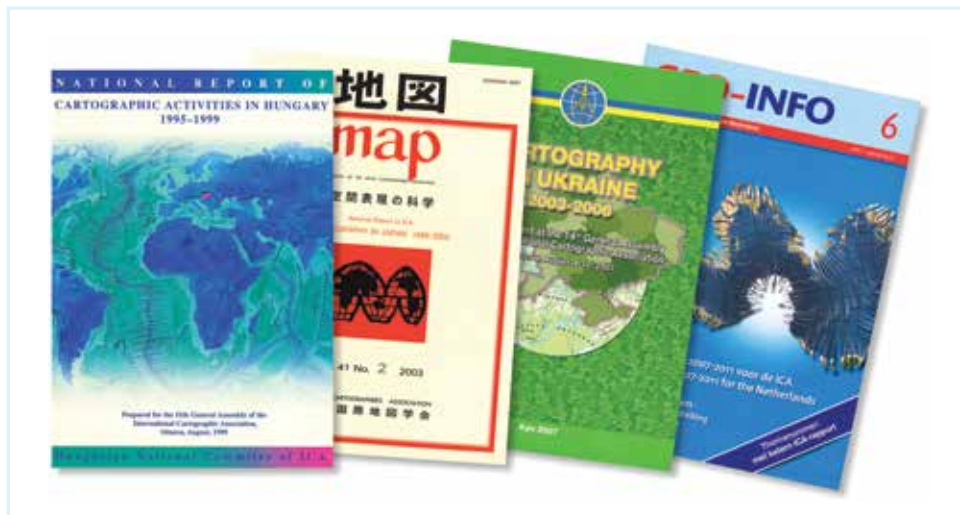
[icahistory.icaci.org/](http://icahistory.icaci.org/)

### National Reports

In his short article in *ICA News*, No 26, Summer 1996 (p 14), Christopher Board makes the following observation:

*The presentation of national reports, as required by the Statutes, to the General Assembly in Barcelona [1995] is an opportunity to promote international awareness of each member's cartographic activity.*

The importance of national reports was recognised at the inception of the International Cartographic Association. At the 1st General Assembly held in Paris in 1961, 23 nations presented their reports. So how do the ICA national members fare with meeting their obligations of submitting reports to the General



(from left) National Reports of Hungary 1995-1999, Japan 1999-2003, Ukraine 2003-2006 and the Netherlands 2007-2011; (below) National Report of Iran 2007

Assemblies, and taking opportunities for highlighting their cartographic achievements?

Article 5 of the ICA Statutes and By-laws states:

*Each national member organisation agrees to send a report to each General Assembly on the cartographic and GI science activities in the country during the previous four years.*

Interestingly, this very Point was a part of the ICA Statutes adopted in 1961 although it did not refer to GI Science back then, just cartography.

It seems that the record set in Paris would not be matched anytime soon; out of 26 inaugural national members, 23 (88%) produced their reports! The ICA Working Group on the History of ICA is slowly gathering data on national reports submitted between 1964 and 1995, but records are reasonably good from the 11th General Assembly held in Ottawa in 1999. Here is a brief summary:

- 1999: 79 members, 31 reports (39%)
- 2003: 79 members, 30 reports (38%)
- 2007: 84 members, 32 reports (38%)
- 2011: 77 members, 36 reports (47%)
- 2015: 71 members, 31 reports (44%)
- 2019: 73 members, 27 reports (37%)

Considering that submission of reports to the ICA is an obligation of national members, these percentages leave plenty to improve on. Over the above period, 15 national members submitted all six reports, nine submitted five reports, six members – four national reports, and four members – three. The remaining eleven members submitted either one (6) or two (5) reports.

In a Preface to the *ICA Bulletin*, No 2, 1962, that contained all 23 national reports submitted to the 1st General Assembly, Erwin Gigas, then Secretary General and Treasurer, writes (translation from French):

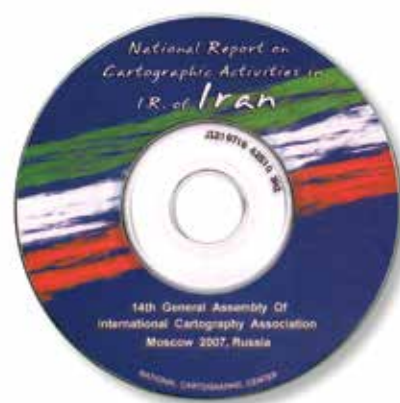
*This second issue [of ICA Bulletin] contains reports from the national members of ICA on cartographic activities since foundation [1959]*

*until 1961. It forms, so to speak, the key to solve the problem whether the Association will be able to ensure the advancement of cartographic work. This publication testifies to the work accomplished so far. Will it also [...] be a testimony to the astonishing progress of cartographic science, whose fundamentals [French: la culture] are inscribed on the emblem of the Association? Hope the response is favourable!*

We all hope the response is favourable! In addition to reports on the progress of various initiatives, inclusion of scientific papers and comprehensive bibliographies, details of various map and chart series, and highlights of atlases and cartographic publications, the content of national reports often reflects the diversity and dynamism of the national cartographic communities, as well as provides a window into a wide range of mapping efforts and initiatives. The reports sometimes convey a unique and intriguing view on cartography and serendipitously present a touch of national design flair on their pages.

We encourage you to have a look!

**Igor Drecki** | Chair | ICA Working Group on the History of ICA | New Zealand ■





Guests at the 50th Anniversary of the New Zealand Cartographic Society dinner (left); cutting the '50th birthday cake' by Alberta Auringer Wood (left) and Lesley Murphy | Photography Shannon McColley

## 50th Anniversary of New Zealand Cartographic Society

In the afternoon of Saturday, 27 February 2021, the New Zealand Cartographic Society welcomed distinguished guests, both in person and remotely, to the *Celebrating New Zealand Mapping* event held at the iconic Foxglove Bar and Restaurant, Queen's Wharf in Wellington. Just a few days prior, the Society reached a significant milestone – its 50th Anniversary, a half century worth celebrating!

It all started in October 1970, when a proposal for formation of a New Zealand Cartographic Society was sent out, together with a brief questionnaire, to a representative group comprising the universities, map-producing government departments, local bodies and private companies across the country. The excellent response and comments received indicated a keen interest to see the Society launched and under way. The inaugural meeting of the New Zealand Cartographic Society was held at 7.30pm on Tuesday, 23 February 1971 at St Andrews Church Hall, The Terrace, in Wellington. Apart from a general discussion, the main item of the Agenda was the election of a Steering Committee responsible for drafting rules and the constitution. The constitution was ratified by the first Annual General Meeting on 1 July 1971 and in October the Society was officially incorporated.

Within a year of the inaugural meeting over 200 people became members of the young organisation. During the first 25 years, 416 individuals became Society members. In the mid 1990s the Society went through a stagnation period, but it managed to recover in the early 2000s with membership gaining a further 188 individuals over the next quarter of a century. Overall, 604 people were or still are Society members.

New Zealand's road to ICA membership started in 1974. In March, following correspondence with Professor Ferdinand J. Ormeling, then Secretary General & Treasurer of ICA, the Society received word that their application for ICA membership would be favourably recommended to the forthcoming General Assembly in 1976, which, according to the ICA Statutes and By-laws, has to inaugurate membership. The good news was also announced to the cartographic (and geographical) world in the ICA section of the *IGU Bulletin* published in 1974 (Vol XXV, No 2, p 70): "*Early in 1974 New Zealand applied for membership of the ICA and the ICA Executive Committee at its meeting in Madrid (April, 1974) decided to recommend to the General Assembly in 1976 ratification of membership of New Zealand.*"

The 5th General Assembly of the International Cartographic Association (ICA) was held in Moscow, USSR, in early August 1976 and Professor Ronald G. Lister served as our principal delegate. Professor Ferdinand Jan Ormeling, then President of ICA, welcomed New Zealand as a full member and we became a part of the ICA family of 53 member countries at that time.

The Society's membership of the ICA, ratified in Moscow, was considered a great step forward and a great honour, which 'put New Zealand on the map' internationally. The same was felt by ICA, as they were looking forward to having a national member from the South Pacific.

One of the first initiatives following New Zealand's admission, was the Society's offer of assistance to the ICA Commission on Cartographic Technology by contributing and sharing information on prepress proofing of maps. Later, Laurence P. Lee represented the Society at the ICA's 9th International Cartographic Conference at College Park, Maryland, United States, 26th July – 2nd August 1978. A joint paper by Society members Michael J. McDonnell and Robert C. Child entitled *New Zealand LANDSAT Image Rectification System: Analysis*

and *Results* was accepted to the programme in the *Remote Sensing, Today and Tomorrow* theme, becoming the first New Zealand contribution to an ICA conference (the paper was read by title only, as the authors were sadly unable to attend).

These early developments set the scene for a long and enduring relationship with the ICA. Society members frequently contributed to the work of many ICA Commissions and Working Groups. For example, Allen Atkins was involved in the Commission on Marine Cartography, Mark L. Rowse in the Commission on Advanced Technology, Robin B. Phillips in the Commission on National and Regional Atlases, and Duncan D. McCormack in the Working Group on World Digital Databases for Environmental Science.

New Zealanders have attended most ICA International Cartographic Conferences since 1976, presenting papers and posters, as well as attending workshops and meetings organised by Commissions, Working Groups and the ICA Executive Committee.

Given New Zealand's geographical position, the Society was very successful with hosting members of the ICA Executive Committee and chairs of various ICA Commissions. In March 1985, Donald T. Pearce, then ICA Secretary General & Treasurer, visited Wellington and met with Society members. Prof D. R. Fraser Taylor, ICA President, visited in August 1988 and a special Society meeting was organised for that occasion. In April 2001, the Society hosted a meeting of the ICA Commission on Visualization and Virtual Environments chaired by Prof Alan M. MacEachren at Wairakei, the first ICA event held in New Zealand. More recently, Prof William E. Cartwright visited our shores several times in his capacity as ICA Vice President, then President, and finally as Past President.

The New Zealand Cartographic Society first coordinated the Children's Map Competition at a national level in 2001, followed by another effort in 2007. Since 2011, the Society coordinates the competition biennially to synchronise



with the international event. The selection of national competition winners were New Zealand's entries for the Barbara Petchenik Children's World Map Awards, boasting 34 maps in total including five international winners. These fantastic results are testimony to the talent and ingenuity of New Zealand children, the support of their parents, teachers, and schools, and the hard work by the national coordinators in organising and promoting the Barbara Petchenik Children's World Map Awards. Currently, New Zealand's position in the ICA family has never been stronger.

The programme of the 50th Anniversary event started with a 'meet and greet' gathering giving everyone a chance to reconnect with old friends and meet new colleagues. The restaurant's terrace was a favourite spot on this pleasant summer's afternoon, where guests could enjoy breathtaking harbour views in good company. The official opening followed with a welcome message from Roger Smith, the Society's President. Next, congratulations from the Australian and New Zealand Map Society (ANZMapS) were conveyed by Greg Lauer, ANZMapS Secretary. We were then delighted to connect remotely with Tim Trainor, ICA President, who, on behalf of the International Cartographic Association, conveyed his best wishes to the Society on reaching this significant milestone. His wishes were echoed by many ICA friends from around the world: Linda Beale, David Fairbairn, Kenneth Field, Georg Gartner, Amy Griffin, Terje Midtbø, Dušan Petrovič, Thomas Schulz, Roger Wheate and Mark Wigley, who bravely joined us remotely without any regard to the world's time zones! We were truly humbled by their good wishes and display of support.

Two brief addresses were delivered between dinner courses. Geoff Aitken, the Society's founding and Life Member, talked about the changing societal and professional context our Society operated in over the last fifty years. With honesty, he reminded us about difficulties

we were facing at times, but also highlighted our successes. Geoff observed that over the years, the Society *"...has become an even more diverse organisation"* and added that our presence here *"...shows that mutual support creates valued friendships through this common interest [in cartography]."*

In his address, Tony Moore, the Society's Vice President, summarised where we are now in context of our discipline, where cartography is taking us, and how our Society is responding. As an example of the Society's response to the 'now', he talked about *State of Cartography* seminars and their role in encapsulating the qualities and (again!) diversities of cartographic contributions: *"all scales, across society, in a comprehensive range of sectors."* Tony also highlighted the work we do with the ICA, a global network furthering professional and research cartography through its commissions and initiatives, and the positive impact this collaboration brings to both organisations. Since *"a world without maps is as unthinkable as a language without words"*, Tony encouraged us to *"apply cartography to the major challenges of our day [...] with expanded scope in technology, in representation, in guidance and in creativity."* He concluded: *"keep pushing and going beyond the edge."*

The next point of the programme involved cutting our 50th birthday cake. The honour went to Lesley Murphy, our Life Member, and Alberta Auringer Wood, former ICA Vice President (1999-2003) representing Canada, who happened to be in Wellington at the time. A large poster documenting all 604 members and a special anniversary issue of the New Zealand Cartographic Society newsletter *CARTOgram* were prepared especially for the occasion. The programme concluded with a farewell 'until next time'.

As part of the anniversary festivities, the Society organised two community events. *CartoChallenge* was a free walking quiz game around central Wellington and waterfront.

Smartphones or other devices with Internet access and a QR code reader were required to find seven locations of cartographic significance across town. In addition, the Society partnered with Orienteering New Zealand to give the public an opportunity to participate in orienteering for newcomers to old hands with Orienteering Wellington.

**Igor Drecki** | New Zealand Cartographic Society | *New Zealand* ■

## 10th Anniversary of Bulgarian Cartographic Association

The Bulgarian Cartographic Association (BCA) was established on 8 April 2011 by Bulgarian cartographers and specialists in cartography and GIS. In June 2011 BCA became a national representative of Bulgaria to the International Cartographic Association. The establishment of BCA was strongly supported by the National Geodesy, Cartography and Cadastre Agency, many private GIS and cartographic companies, various institutes of Bulgarian Academy of Sciences and several Universities. Members comprise cartographic companies, map publishers, academics, researchers, map curators, cartographers, GIS specialists, and geographers with special interest in maps. BCA members take active roles in the ICA Commissions and the Executive Committee. They frequently participate in International Cartographic Conferences and their cartographic products are displayed at the International Cartographic Exhibitions.

The main aims of BCA is to assist in further training of young cartographers and organize national and international conferences and events. The Association organizes International

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Representatives of the Bulgarian Cartographic Association, led by Prof Temenoujka Bandrova (centre left), meet with members of two National Assembly of the Republic of Bulgaria Committees: Economic Policy and Tourism, and Culture and Media | Photograph courtesy of Silvia Marinova



Conference on Cartography and GIS (ICC&GIS). ICC&GIS is a biennial conference, endorsed by ICA and supported by the University of Architecture, Civil Engineering and Geodesy, Sofia. These conferences, instigated by Prof Temenoujka Bandrova, BCA President, and Prof Milan Konečný, then ICA President (2003-2007), started in 2006 and had attracted attendees from more than 60 countries with more than 650 scientific papers published in their Proceedings. Accompanying seminars on Disaster Risk Reduction are organized in cooperation with the ICA Commission on Cartography in Early Warning and Crisis Management, and Department of Geography, Masaryk University in Brno, Czech Republic.

BCA organizes National Competition for Children's World Map (part of the Barbara Petchenik Children's World Map Awards) which is held according to the theme and rules provided by the ICA. The Bulgarian national competitions started in 1999.

In 2015 and 2016, BCA organized a number of events and produced several cartographic materials dedicated to the International Map Year 2015-2016. Bulgarian cartographers, GIS specialists and geographers celebrated National Map Day in November 2015 and a year later in November 2016. BCA and Military Geographic Service (MGS) published a calendar for 2015 and 2016 containing colourful children's world maps and unique maps of ancient Bulgaria supplied by MGS. The Permanent Mission of the Republic of Bulgaria to the United Nations (UN) and Diplomatic Institute, Ministry of Foreign Affairs of the Republic of Bulgaria organized and displayed an exhibition on occasion of International Map Year entitled *The Sea Brings All That is Distance Together*, 15-26 June 2015 at UN Headquarters in New York. The exhibition was compiled and designed by the International Commercial and Cultural Center GEOPAN with support of the Bulgarian Cartographic Association. In June 2015, BCA organized a donation of Bulgarian cartographic products to the UN Library in New York and also to the library of Bulgarian National Assembly.

Furthermore, BCA initiated an event with invitation to its members, guests and philatelists who had the opportunity to acquire a unique stamp edition, the first of its kind in the world, dedicated to the International Map Year 2015-2016. BCA organized several map exhibitions including an exhibition entitled *Bulgarian Cartography in the International Map Year* at the National Assembly in November 2016. Special cartographic session and exhibition were held at the FIG Working Week 2015 in Sofia on the occasion of the International Map Year 2015-2016.

Since 2017 Bulgarian Cartographic Association issues certificates of quality for cartographic products. Certification is based on an expert assessment of a three-member committee. To obtain a certificate, cartographic products must

meet twelve criteria of accuracy, reliability and high-quality design and presentation. This BCA's initiative is gaining popularity among Bulgarian map publishers.

The last ten years were very dynamic and full of various cartographic events. Bulgarian Cartographic Association continues its work to raise prestige of its members; to represent and protect their interests, as well as provide support for their activities; to participate in and organize national and international events and conferences; and to represent Bulgarian cartographic community at international organizations and events.

**Silvia Marinova** | Bulgarian Cartographic Association | Bulgaria ■

## Australian and New Zealand Map Society

### Society Activities

The Australian and New Zealand Map Society (ANZMapS) committee appointed in September 2020 has since developed its agenda and made progress against several goals. The primary initiatives for 2021 are:

- Developing and implementing a program of Webinars
- Delivering the *Mapping the Pacific* conference, at the State Library of New South Wales, Sydney
- Implementing a sponsorship business model for sustaining the Society's publication, *The Globe*

### Webinars

Up to four webinars are planned for 2021, and the first of these was held on Wednesday, 3

March. *Warping Historical Maps and Plans: Challenges and Opportunities for Crowdsourcing, Rectifying Maps and Plans onto Contemporary Maps*, comprised presentations from three Australian government agencies who have each developed map warping systems based on historical map collections: the National Library of Australia, Public Record Office of Victoria, and the Queensland Museum of Lands. There was strong take-up on the day by the 80 participants and steady flow of questions posed. The Zoom recording and videos are available on YouTube: [www.youtube.com/playlist?list=PLdk94nxw1s1AXdXwkJ-F\\_c285b\\_bd27p4](https://www.youtube.com/playlist?list=PLdk94nxw1s1AXdXwkJ-F_c285b_bd27p4).

The second ANZMapS webinar event is planned for 14 July 2021, and will focus on recent topographic mapping initiatives. It will feature presentations from Location Information at Land Information New Zealand (LINZ); National Location Information Branch, Geoscience Australia; and Spatial Information Branch, Qtopo, Queensland Government.

### ANZMapS Conference

Plans have progressed for the conference, which was postponed from last year and held virtually. *Mapping the Pacific* will be a hybrid onsite/online event on 25-27 August 2021, allowing international participation. Conference webpage and updates: [www.sl.nsw.gov.au/research-and-collections/research-and-engagement/mapping-pacific-conference](https://www.sl.nsw.gov.au/research-and-collections/research-and-engagement/mapping-pacific-conference).

The conference will examine the traditional wayfinding knowledge of Pacific communities, European exploration and the mapping of the Pacific from the early modern era through to the 19th century. The conference will be open to cartographers, geographers, historians, map collectors, curators and everyone with an interest in maps. This conference is planned as a three-day event, commencing on the

One of the Maps Rooms at the State Library of New South Wales showcasing its holding of five centuries of cartography from around the world | Photograph courtesy of Martin Woods







The artwork *Stargazing* by Sarah Spencer to be displayed at the State Library of Victoria, Australia | Photograph courtesy of Martin Woods

Wednesday, 25 August at the State Library of New South Wales.

## The Globe

Each year two issues of the Society's journal *The Globe* are produced. It is a significant investment by its members, who regard its content and presence highly. The journal is available in print and through aggregated resource content services such as Informit. The ANZMapS committee is developing options for sponsorship and advertising to support its ongoing availability, and will deliver a proposal to the membership at the AGM in Sydney to ensure the future viability of the journal.

## News and Notable Achievements

- In November 2020 the **National Library of Australia** launched Map Search, with the involvement of ANZMapS committee and input of the members: [mapsearch.nla.gov.au](http://mapsearch.nla.gov.au). Map Search is the National Library's latest user interface and has been launched using recently digitized maps from its Australian collections. It allows the user to rectify and view historical topographic, cadastral, road and other maps over modern basemaps, and to view and annotate map features. Many of the maps have been rectified by map enthusiasts, over 8,000 to date.
- The **National Library of Australia** has been

relatively quiet on the acquisition front as it restructures. As mentioned in the last issue of *ICA News*, the Maps section (along with other specialist teams) was integrated into a new Curatorial and Collection Research Section. Map acquisition and involvement is now the responsibility of this section. Among the more interesting material acquired is a series of maps by sculptor, printmaker, painter, photographer, author and environmentalist Simon Normand. Simon has lived and worked with elders in southern Arnhem Land for over 25 years and has worked with Marra, Yanyuwa, Warndarrang, Nunggbuyu, Waagilak and other Elders to paint maps which show local cultural knowledge and stories for Country. The maps were displayed as part of the Carpentaria Mapping Project at the Northern Territory Library, Parliament House in Darwin for United Nation's International Year of Indigenous Languages.

- In April the **State Library of New South Wales** opened its new Maps Rooms, to showcase its holding of five centuries of cartography from around the world. Across two rooms visitors will find some of the most important maps, globes and navigation instruments from the Library's maps collection. According to State Librarian John Vallance: *"The Map Rooms have been designed for everyone, but we hope they will also encourage specialist cartographic*

*research."* One of the major highlights is a chart of the Indian Ocean and Asia, one of only four copies in the world, printed on vellum by Jacob Colom in 1633. Other highlights include an extremely rare 1515 map by Albrecht Dürer and Johannes Stabius depicting the world as a sphere; a beautiful hand-coloured copy of the iconic nineteen counties (the legal boundaries of the colony up to that date) map produced by Sir Thomas Mitchell in 1834; the recently acquired silver punchbowl in the shape of a globe (with Antarctica sitting on its lid) commissioned by botanist Sir Joseph Banks in 1772; the 1940 Tindale map showing the distribution of Aboriginal nations in New South Wales; and a selection of rare early maps showing the gradual colonisation and expansion of Sydney from a penal settlement to a bustling metropolis.

- Following completion of its building redevelopment in December 2019, the **State Library of Victoria** was closed for much of 2020 due to COVID-19 lockdowns in Melbourne. The Library reopened in November 2020 and is now planning a major exhibition for 2022 in its Victoria Gallery, featuring celestial mapping. It will cover themes of coding, astronomy, navigation and craft, exploring how we navigate the world – from digital pixels to maps of our universe – through the lenses of science, technol-

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ogy and art. It profiles lesser known achievements, particularly those of women and connects the Victoria of the past with the fabric of modern life, prompting discoveries of the future. The artwork *Stargazing* is a giant knitted star map by local artist and software engineer Sarah Spencer. Measuring over 15 square metres, the map features an interactive light component designed to illuminate constellations and encourage audience participation.

**Martin Woods** | Australian and New Zealand Map Society | Australia ■

## MapVault

Gain access to a comprehensive collection of digital mapping with MapVault ([geospatial.com/products/web-services](https://geospatial.com/products/web-services)), East View Geospatial's on-demand cartographic library platform. MapVault provides access to more than 160,000 map sheets from over 150 authoritative map series from around the world, and features a variety of mapping including topographic, nautical, aeronautical, and geological. MapVault offers a convenient and cost-effective alternative to working with paper maps or large digital files, effectively eliminating the investment involved in procuring, storing, digitizing, and hosting map collections. Save your organization time and effort by leveraging MapVault's expertly georeferenced and mosaicked tilesets to quickly form the basemaps and source data needed for your projects.

The MapVault web application provides instant access to an ever-growing library of georeferenced and mosaicked map content and can be accessed via IP authentication or

username/password. Within MapVault, users have unlimited access to their subscribed map content, including detailed series descriptions and metadata, ISO records, index maps, and legends. Users also have the option to download QGIS and Esri layer files for convenient import into their GIS client of choice.

MapVault will be updated with additional tilesets on a quarterly basis with the goal of offering over 500,000 map sheets from over 1,000 series in the near future.

To view tileset samples, browse available collections, and explore the features and functions of MapVault, visit our free demo site at [demo.geospatial.com/MapVault/list](https://demo.geospatial.com/MapVault/list). To learn more about how MapVault can bring value to your organization, reach out to East View Geospatial's expert mapping team at [mapvault@eastview.com](mailto:mapvault@eastview.com).

**Alex Evert** | East View Geospatial | United States of America ■

## Cartographic Activities at United Arab Emirates University

The Geography and Urban Sustainability Department at the United Arab Emirates University (UAEU) organised several training events for its students between December 2020 and May 2021. They were delivered by Dr Naeema Alhosani, College of Humanities and Social Sciences:

- **19-24 December:** participation in a course *Certified Innovation Professional – CInP* facilitated by the British University in Dubai (BUID).
- **2-4 February:** presentation *Theoretical*

*Reflections on Consumer Behavior: The Adoption and Non-Adoption of Electric Vehicles* at the 6th International Conference on Renewable Energy Generation and Applications, UAEU; with Dr Robert Bridi.

- **22-24 February:** presentation *Building Capacity in geodesign: Alternative futures for Al Ain, Abu Dhabi, United Arab Emirates in 2050* at the 2nd Arab Land Conference, Cairo, Egypt; with Prof Carl Steinitz.
- **9 March:** virtual brainstorming session *Map Reading* with UAEU students.
- **15-16 March:** virtual workshops *Review of Cartography Books* and *Innovative Reading Application* with UAEU students.
- **2 May:** invited virtual discussion with Ras Al Khaimah Municipality staff.

**Naeema Alhosani** | United Arab Emirates University | United Arab Emirates ■

## New Editor and Editorial Board for CaGIS Journal

The Board of the Cartography and Geographic Information Society (CaGIS) has selected Dr Eric Delmelle as the new Editor of *Cartography and Geographic Information Science* journal, replacing Dr Nick Chrisman. Dr Chrisman has worked very hard to maintain a strong visibility for the journal, with an impact factor of 2.42 in 2019. Dr Delmelle officially began his appointment on 1 January 2021. He has worked in the domain of geographic information science, visualization, uncertainty and epidemiology.

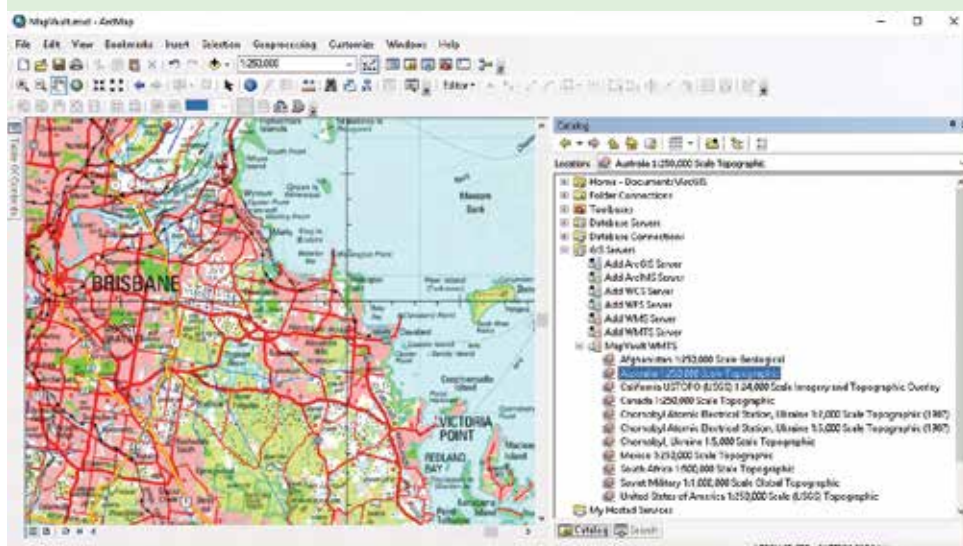
Dr Chrisman has agreed to stay as an Associate Editor for at least one year to smooth out the transition. Alongside, Dr Frank Canters (Vrije Universiteit Brussels, Belgium) will serve as an Associate Editor. Dr Canters expertise in map projections and analytical cartography is a critical asset for that important component of the journal. Second, Dr Ourania Kounadi (University of Vienna, Austria) has also agreed to serve as an Associate Editor. Her background in geoprivacy, crime analytics and volunteered geographic information is essential for the journal. Dr Nick Bearman is serving as the new Cartographic Editor, and will promote the journal on social media.

A new board was announced earlier this year, reflecting an audience of young, diverse and promising scholars who are already contributing substantially to the field, together with long established researchers.

For more information, please visit: [www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=tcag20](https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=tcag20).

**Eric Delmelle** | Editor | Cartography and Geographic Information Science | United States of America ■

MapVault allows for drag and drop import into top GIS clients such as ArcGIS Desktop/Pro, GlobalMapper and QGIS | Image courtesy of East View Geospatial





## ICA Awards

The **Carl Mannerfelt Gold Medal** honours cartographers of outstanding merit who have made significant contributions of an original nature to the field of cartography; it is the ICA's highest distinction awarded only on rare occasions. Instituted in 1979, it was initially given at special events honouring the recipient. From 1987, the medal is awarded in conjunction with the International Cartographic Conferences (ICC). The table below lists all recipients chronologically and then alphabetically when more than one medal was awarded at the same time.

Carl Mannerfelt Gold Medal			
01	Eduard Imhof	Switzerland	May 1980
02	Arthur H. Robinson	United States of America	Feb 1981
03	Carl M. Mannerfelt	Sweden	Mar 1981
04	Konstantin A. Salichtchev	Soviet Union	Dec 1981
05	Ferdinand J. Ormeling	Netherlands	Oct 1987
06	Jacques Bertin	France	Aug 1999
07	Joel L. Morrison	United States of America	Aug 2001
08	Chen Shupeng	China	Aug 2001
09	David W. Rhind	United Kingdom	Jul 2005
10	Ernst Spiess	Switzerland	Jul 2005
11	Jack Dangermond	United States of America	Aug 2007
12	Ferjan Ormeling	Netherlands	Nov 2009
13	D. R. Fraser Taylor	Canada	Aug 2013

The **ICA Honorary Fellowship** is bestowed on cartographers of international reputation who have made special contribution to the ICA. Established in 1976, the fellowship, accompanied by a bronze medal, is awarded at the ICA conferences. The exceptions were made for Sándor Radó (1979) and Denys E. O. Thackwell (1983) who received the honours at special sessions organised for the occasion. At the ICC 1997 in Stockholm, Richard E. Dahlberg, who died unexpectedly in December 1996, received ICA Honorary Fellowship posthumously. The table below lists all recipients chronologically and then alphabetically when more than one fellowship was awarded at the same time.

ICA Honorary Fellowship			
01	Konstantin A. Salichtchev	Soviet Union	Aug 1976
02	Sándor Radó	Hungary	Nov 1979
03	Akira Watanabe	Japan	Aug 1980
04	Emil Meynen	Germany	Jul 1982
05	Stanisław Pietkiewicz	Poland	Jul 1982
06	Denys E. O. Thackwell	United Kingdom	Sep 1983
07	Rolf Böhme	Germany	Aug 1984
08	Harold Fullard	United Kingdom	Aug 1984
09	David P. Bickmore	United Kingdom	Oct 1987
10	Olof W. Hedbom	Sweden	Oct 1987
11	Nestor Duch Gary	Mexico	Sep 1991
12	Bernard V. Gutsell	Canada	Sep 1991
13	Joel L. Morrison	United States of America	Sep 1991
14	Helen M. Wallis	United Kingdom	Sep 1991

15	Rodolfo Nuñez de las Cuevas	Spain	Sep 1995
16	Árpád Papp-Váry	Hungary	Sep 1995
17	Don T. Pearce	Australia	Sep 1995
18	Ernst Spiess	Switzerland	Sep 1995
19	Joseph W. Wiedel	United States of America	Sep 1995
20	Richard E. Dahlberg +	United States of America	Jun 1997
21	Miroslav Mikšovský	Czech Republic	Jun 1997
22	Christer Palm	Sweden	Jun 1997
23	Roger W. Anson	United Kingdom	Aug 1999
24	Christopher Board	United Kingdom	Aug 1999
25	Jean-Philippe Grelot	France	Aug 1999
26	Tositomo Kanakubo	Japan	Aug 1999
27	Jaume Miranda i Canals	Spain	Aug 1999
28	D. R. Fraser Taylor	Canada	Aug 1999
29	Bai Bo	China	Aug 2001
30	Ronald Furness	Australia	Aug 2001
31	Kei Kanazawa	Japan	Aug 2001
32	Judy M. Olson	United States of America	Aug 2001
33	Hu Yuju	China	Aug 2001
34	Andrzej Ciołkosz	Poland	Aug 2003
35	Ulrich Freitag	Germany	Aug 2003
36	Liao Ke	China	Aug 2003
37	István Klinghammer	Hungary	Aug 2003
38	Ken Lester	South Africa	Aug 2003
39	Harold Moellering	United States of America	Aug 2003
40	Sjef J. F. M. van der Steen	Netherlands	Aug 2003
41	José-Luis Colomer Alberich	Spain	Jul 2005
42	Alan M. MacEachren	United States of America	Jul 2005
43	Wanarat Thothong	Thailand	Jul 2005
44	Michael Wood	United Kingdom	Jul 2005
45	Pinhas Yoeli	Israel	Jul 2005
46	Helen Kerfoot	Canada	Aug 2007
47	Graciela I. Metternicht	Australia	Aug 2007
48	Kira B. Shingareva	Russian Federation	Aug 2007
49	Bengt Rystedt	Sweden	Nov 2009
50	Yasuo Masai	Japan	Jul 2011
51	Monique Pelletier	France	Jul 2011
52	Michael P. Peterson	United States of America	Jul 2011
53	Milan Konečný	Czech Republic	Aug 2013
54	Kirsi Virrantaus	Finland	Aug 2013
55	David Fairbairn	United Kingdom	Aug 2015
56	William E. Cartwright	Australia	Jul 2017
57	Anne Ruas	France	Jul 2017
58	Timothy F. Trainor	United States of America	Jul 2017
59	Miljenko Lapaine	Croatia	Jul 2019
60	Evangelos Livieratos	Greece	Jul 2019

# calendar

Due to the novel coronavirus pandemic, many cartographic events scheduled in 2021 had to be cancelled, postponed, run virtually or in a hybrid mode. The Calendar below includes the most recent information concerning these events, but in many cases dates and other details are indicative only. Please check the ICA website ([www.icaci.org](http://www.icaci.org)) regularly for updates.

## july 2021

05-09: **GI\_Forum 2021 / ISDE12** (organised by the ICA affiliate member UNIGIS International Association) | **VIRTUAL** | [www.gi-forum.org](http://www.gi-forum.org) | [digitalearth2021.org](http://digitalearth2021.org)

14: **ICA Webinar | Mapping for a Sustainable World** (webinar on the use of Sustainable Development Goals maps) | **VIRTUAL** | [icaci.org/first-ica-webinar-mapping-for-a-sustainable-world/](http://icaci.org/first-ica-webinar-mapping-for-a-sustainable-world/)

## august

08-10: **28th Chinese Professionals in Geographic Information Sciences Conference** (session organised by the ICA Commission on Cognitive Issues in Geographic Information Visualization) | **Spatial Cognition in the Mobile Era** | Nanchang | China | [cogvis.icaci.org/pdf/cpgis2021/cfp-CPGIS2021\\_Spatial\\_Cognition.pdf](http://cogvis.icaci.org/pdf/cpgis2021/cfp-CPGIS2021_Spatial_Cognition.pdf)

09-12 and 16-19: **11th Session of United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)** (side events) | **VIRTUAL** | [ggim.un.org/meetings/GGIM-committee/11th-session/](http://ggim.un.org/meetings/GGIM-committee/11th-session/)

16-20: **34th IGU International Geographical Congress** (session on *Place Names as Indicators of Human Perception of Space* coordinated by the ICA Commission on Toponymy) | Istanbul | Turkey | [www.igc2020.org](http://www.igc2020.org)

23-24 and 27: **11th Session of United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)** | **VIRTUAL** | [ggim.un.org/meetings/GGIM-committee/11th-session/](http://ggim.un.org/meetings/GGIM-committee/11th-session/)

31: **ICA Working Group on Digital Transformation of National Mapping Agencies Webinar | Advancing Automation in National Topographic Map Production in the National Land Survey of Finland - Challenges and Opportunities of Utilizing AI Technologies** | **VIRTUAL** | [nationalmapping.icaci.org/wp-content/uploads/2021/08/ICC\\_WG\\_Transition\\_AI\\_Seminar\\_advertisement.pdf](http://nationalmapping.icaci.org/wp-content/uploads/2021/08/ICC_WG_Transition_AI_Seminar_advertisement.pdf)

## september

01-04: **20th Colloquium on the History of Cartography** | Basel | Switzerland | [www.kartengesichte.ch/dach/](http://www.kartengesichte.ch/dach/) - **POSTPONED** to 14-17 September 2022

08-09: **British Cartographic Society Conference** | **VIRTUAL** | [www.cartography.org.uk/annual-conference/](http://www.cartography.org.uk/annual-conference/)

14: **CartoVis20: ICA Commissions Joint Workshop on Analytical Reasoning | Cartography, Visualization, Design** (coorganised by the ICA Commissions on Cognitive Issues in Geographic Information Visualization; Visual Analytics; and User Experience) | Warsaw | Poland | [carto-vis-workshop.uw.edu.pl](http://carto-vis-workshop.uw.edu.pl) - **POSTPONED** to 2022

16-18: **14th Coast GIS | Sustainable Coastal Planning in a Changing World** | **VIRTUAL** | [www.novia.fi/coastgis2020/home/](http://www.novia.fi/coastgis2020/home/)

23-24: **17th International Conference on Geoinformation and Cartography** | Zagreb | Croatia | [www.kartografija.hr/](http://www.kartografija.hr/)

29-01 October: **6th International Symposium on Place Names | Standardisation and the Wealth of Place Names – Aspects of a Delicate Relationship** | Swakopmund | Namibia | Contact: Chrismi-Rinda Loth [kongresetfb@ufs.ac.za](mailto:kongresetfb@ufs.ac.za)

30: **ICA Commission on the History of Cartography Workshop | Coordinating Cartographic Collections** | **VIRTUAL** | [history.icaci.org](http://history.icaci.org)

## october

28: **ICA Commission on Education and Training Workshop | Challenges and Opportunities of Cartography and Geospatial Information Education in the Classroom and in the Cloud** | **VIRTUAL** | [education.icaci.org/pre-icc2021-cet-workshop/](http://education.icaci.org/pre-icc2021-cet-workshop/)

## november

24-25: **16th International Conference on Location Based Services (LBS2021)** (coorganised by the ICA Commission on Location Based Services and the University of Glasgow) | **VIRTUAL** | [lbsconference.org](http://lbsconference.org)

## december 2021

02-03: **ICA Commissions on Cartography and Children & Maps and Graphics for Blind and Partially Sighted People Joint Workshop | Cartography Connecting Schools** | **VIRTUAL** | [jointica2021.elte.hu/](http://jointica2021.elte.hu/)

13: **ICA Commission on Art and Cartography Workshop | Show and Tell. The future of Art & Cartography** | **VIRTUAL** | [www.icc2021.net/wp-content/uploads/2021/11/ShowTell-flyer.pdf](http://www.icc2021.net/wp-content/uploads/2021/11/ShowTell-flyer.pdf)

13: **ICA Commissions on Cognitive Issues in Geographic Information Visualization & User Experience Joint Workshop | Immersive Cartography / Cartography for Immersive Environments** | **HYBRID** | Florence | Italy | [cogvis.icaci.org/activities.html](http://cogvis.icaci.org/activities.html)

13: **ICA Commissions on SDI and Standards, Cognitive Issues in Geographic Information Visualization, Open Source Geospatial Technologies & Geospatial Semantics Joint Workshop | Sharing Cartographic Knowledge** | **HYBRID** | Florence | Italy | [cogvis.icaci.org/activities.html](http://cogvis.icaci.org/activities.html)

13: **24th ICA Workshop on Map Generalisation and Multiple Representation** (organised by the ICA Commission on Map Generalisation and Multiple Representation) | **HYBRID** | Florence | Italy | [generalisation.icaci.org/preevents/workshop2021.html](http://generalisation.icaci.org/preevents/workshop2021.html)

13: **ICA Commission on Cartography in Early Warning and Crisis Management Workshop | Disaster Risk Reduction (DRR) Progress for Cartography in BIG DATA Era** | **HYBRID** | Florence | Italy | [plat.casm.ac.cn/ewcm/files/PDF.aspx?v=WorkshopProgram.pdf](http://plat.casm.ac.cn/ewcm/files/PDF.aspx?v=WorkshopProgram.pdf)

13: **ICA Commission on the History of Cartography Workshop | Mapping the Ottoman Realm: Travelers, Cartographers and Archaeologists** | **HYBRID** | Florence | Italy | [www.icc2021.net/wp-content/uploads/2021/12/PreConf\\_HistoryOfCartography-agg.pdf](http://www.icc2021.net/wp-content/uploads/2021/12/PreConf_HistoryOfCartography-agg.pdf)

13: **ICA Commission on Maps and the Internet Workshop | Visualization of Dynamic Phenomena and Processes on Web Maps** | **VIRTUAL** | [www.facebook.com/events/3025631387703304](http://www.facebook.com/events/3025631387703304)

13: **ICA Commission on Geospatial Semantics Workshop | Geospatial Semantics** | **HYBRID** | Florence | Italy | [icaci-geospatialsemantics.usgs.gov/workshops](http://icaci-geospatialsemantics.usgs.gov/workshops)

13: **ICA Commissions on Atlases & Map Design Joint Workshop | Map Design for Atlases** | **HYBRID** | Florence | Italy | [atlas.icaci.org/](http://atlas.icaci.org/) | [mapdesign.icaci.org/](http://mapdesign.icaci.org/)

13-14: **ICA Commissions on Geospatial Analysis and Modeling & Location-Based Services Joint Workshop | Geospatial Approaches to Combating COVID-19** | **HYBRID** | Florence | Italy | [gam.icaci.org/symposium2021/ICA.pdf](http://gam.icaci.org/symposium2021/ICA.pdf)

14: **World Cartographic Forum** | **HYBRID** | Florence | Italy | [wcf.icaci.org/](http://wcf.icaci.org/)

14-18: **30th International Cartographic Conference** | **HYBRID** | Florence | Italy | [www.icc2021.net](http://www.icc2021.net)

16: **National Mapping Agencies Day : Collaboration and Information Sharing** | **HYBRID** | Florence | Italy | [www.icc2021.net/wp-content/uploads/2021/10/Florence-NMA.pdf](http://www.icc2021.net/wp-content/uploads/2021/10/Florence-NMA.pdf)

## february 2022

22: **UN Mappers Mapathon : Introductory workshop** | **VIRTUAL** | [unggim.academicnetwork.org/un-mappers-mapathon-invitation/](http://unggim.academicnetwork.org/un-mappers-mapathon-invitation/)

## august 2023

14-18: **31st International Cartographic Conference and 19th General Assembly of the International Cartographic Association | Smart Cartography for Sustainable Development** | Cape Town | South Africa | [icc2023.org/](http://icc2023.org/)

## CONTRIBUTE TO THE ICA HISTORY

The ICA Working Group on the History of ICA is interested to hear from anyone who is willing to share their ICA archives and collections. We are interested in documents, records, official correspondence, publications, photographs, conference materials, promotional brochures, and any other items of relevance.

If you can help, please get in touch with Igor Drecki, Chair of the Working Group ([idre002@aucklanduni.ac.nz](mailto:idre002@aucklanduni.ac.nz)). Looking forward to hearing from you!



# ica affiliate members

**2011** **Association of Polish Cartographers** | *Poland* | [www.polishcartography.pl](http://www.polishcartography.pl)  
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**2019** **Australian and New Zealand Map Society** | *Australia / New Zealand* | [www.anzmaps.org](http://www.anzmaps.org)  
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**1999** **Centro Argentino de Cartografía** | *Argentina* | [www.centroargentinodecartografia.org](http://www.centroargentinodecartografia.org)  
**54**  
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**2011** **Chinese Cartographic Association (Chinese Taipei)** | *Taiwan-China* | [www.ccartoa.org.tw](http://www.ccartoa.org.tw)  
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**2007** **Dubai Municipality** | *United Arab Emirates* | [www.dm.gov.ae](http://www.dm.gov.ae)  
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**71**  
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**2005** **Eko-Graf Publishing House** | *Poland* | [www.ekograf.pl](http://www.ekograf.pl)  
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**2017** **El Servicio Aerofotogrametrico del General Juan Soler Manfredini de la Fuerza Aerea de Chile (SAF)** | *Chile* | [www.saf.cl](http://www.saf.cl)  
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**1995** **Geospatial Information Authority of Japan** | *Japan* | [www.gsi.go.jp](http://www.gsi.go.jp)  
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**2007** **German Federal Agency for Cartography and Geodesy** | *Germany* | [www.bkg.bund.de](http://www.bkg.bund.de)  
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**2015** **HERE Technologies** | *Germany* | [www.here.com](http://www.here.com)

**1995** **Hexagon Geospatial** | *United States of America* | [www.hexagongeospatial.com](http://www.hexagongeospatial.com)

**ICON Group** | *Ireland* | [www.icon.ie](http://www.icon.ie)  
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**2003** **Indian National Cartographic Association (INCA)** | *India* | [www.incaindia.org](http://www.incaindia.org)  
**62**  
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**1991** **Institut Cartogràfic i Geològic de Catalunya (ICGC)** | *Spain* | [www.icgc.cat](http://www.icgc.cat)  
**58**  
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**1991** **Institut National de l'Information Géographique et Forestière (IGN)** | *France* | [www.ign.fr](http://www.ign.fr)  
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**1995** – year of ratification by the ICA General Assembly  
**65** – affiliate member's profile published in *ICA News* (issue number)

**2011** **Land Information New Zealand** | *New Zealand* | [www.linz.govt.nz](http://www.linz.govt.nz)  
**60**  
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**2017** **Library and Archives Canada** | *Canada* | [www.bac-lac.gc.ca](http://www.bac-lac.gc.ca)  
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**52**  
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**1991** **National Hydrographic Office** | *India* | [www.hydrobharat.nic.in](http://www.hydrobharat.nic.in)  
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**67**  
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**2007** **Ordnance Survey** | *United Kingdom* | [www.ordnance-survey.co.uk](http://www.ordnance-survey.co.uk)  
**57**  
Attn: Paul Naylor | [paul.naylor@ordnancesurvey.co.uk](mailto:paul.naylor@ordnancesurvey.co.uk)

**2003** **Regional Centre for Mapping of Resources for Development (RCMRD)** | *Kenya* | [www.rcmrd.org](http://www.rcmrd.org)  
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**2015** **Surveying and Spatial Sciences Institute (SSSI)** | *Australia* | [www.sssi.org.au](http://www.sssi.org.au)  
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**2015** **UNIGIS International Association** | *Austria* | [www.unigis.net](http://www.unigis.net)  
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**2003** **Union of Chambers of Turkish Engineers and Architects, Chamber of Surveying and Cadastre Engineers (UCTEA-CSCE)** | *Turkey* | [www.hkmo.org.tr](http://www.hkmo.org.tr)  
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**2015** **United Arab Emirates University** | *United Arab Emirates* | [www.chss.uaeu.ac.ae/en/](http://www.chss.uaeu.ac.ae/en/)  
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**2011** **United Nations Geospatial Information Section** | *United Nations* | [www.un.org/depts/cartographic/english/htmain.htm](http://www.un.org/depts/cartographic/english/htmain.htm)  
Attn: Ayako Kagawa | [kagawa@un.org](mailto:kagawa@un.org)

**1991** **United States Geological Survey** | *United States of America* | [cegis.usgs.gov](http://cegis.usgs.gov)  
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**2015** **Wuda Geoinformatics** | *China* | [www.geostar.com.cn](http://www.geostar.com.cn)  
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children's map gallery 1993 participants



Bernice Real Gonzalez | - | *Un Mundo Mejor para Ti y para Mi* (A Better World for You and Me) | -:- | Mexico



Shammika Warnakulasooriya | 15 | - | *Rahula Maha Vidyalaya: Tangalle* | Sri Lanka

Irmak Ugur | 12 | - | -:- | Turkey

Milton Yussef Campusano | 12 | *Si El Mundo Caminase Unido, Seria Mejor* (If the World Walked Together, it Would be Better) | Colegio Educational Gabriela Mistral: Santiago de Chile | Chile

Ana Victoria Perozo Ch. | 9 | - | -:- | Venezuela

