



# FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life  
and Environmental Resilience"



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## Report from Commissions

Winnie SHIU

ACCO Representative (2019-2020)

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## Commission 1 Professional Standards and Practice

Chair: Winnie SHIU

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## WG1.1 International Ethical Standards

## WG1.3 International Boundaries Making & Demarcation

- Review the Implementation of IES
- Work together with Task Force on SDGs, UNSDG 16 Peace and Justice



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## WG1.2 Women in Surveying

### - Link up the Women in Surveying Networks



Work together with Task Force on SDGs  
UNSDG 5 Gender Diversity



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## Commission 1 Annual Meeting



**Planning a  
Workshop  
on IES along  
the Belt and  
Road  
Countries in  
China 2019**

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## Commission 2 Professional Education

Chair: David Mitchell

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## Commission 2 - Effective professional education builds the knowledge needed to achieve the SDG targets:

- **New Strategic Alignment with UN-GGIM Academic Network** – on shared Research, Teaching, Training, and Learning activities.
- **Innovative learning and teaching**
  - **Working Group WG2.2** Innovative Learning and Teaching - presentations on the best examples in curriculum development, core competencies, teaching methods, and the use of technologies.
- **Understanding different student learning styles and strategies**
  - **Young Surveyors Network / WG2.3** Learning styles in surveying education – GLOBAL questionnaire to Young Surveyors & students.

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## Commission 2 and capacity building

- **Working Group 2.1 Developing Academic Networks (Dimo Todorovski).**
- WG2.1 and the FIG Capacity Development Networks, working together to support regional knowledge sharing
- By strengthening academic networks to share knowledge and experiences.
- Working with other Commissions and Organisations (FAO, GLTN, UN-GGIM).
- Bringing the best of FIG events and knowledge to regional networks!

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## Commission 2 activities

- **Commission 2 sessions:**
  - **FAO/FIG Academic Forum on the VGGTs** – continued this important partnership.
  - **TS04B: Enhancing Surveying Academic Networks** – high level of interest.
  - **TS05B: Innovation in Surveying Pedagogy and Curriculum** – really nice presentations on innovative teaching.
  - **TS06B: Professional Development Experiences and Pathways** – exploring the big issues facing our professionals.
- **Commission 2 meeting** – great discussion on our teaching experiences.
- **Commission 2 dinner** – great discussion on our teaching experiences.
- Lots of sessions and workshops planned for Amsterdam!

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## Commission 3 Spatial Information Management

Chair: Hartmut Mueller

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## Commission 3 Launching of FIG Publication no 73 on Crowdsourcing and VGI



- Chaired by Prof Abbas Rajabifard, Chair of UN-GGIM Academic Network 
- Open discussion with authors
- Great interest of the audience in hardcopies signed by the authors



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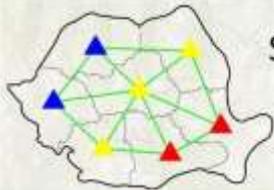




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Săptămâna Geodeziei Românești  
Romanian Geodesy Week

23 - 28 September, 2019  
Cluj-Napoca, Romania



## FIG COMMISSION 3 Annual Workshop

23 - 26 September, 2019



### "Advances in Geodata Analytics for Smart Cities and Regions"

together with "Life Sciences for Sustainable Development"  
26 - 28 September, 2019, Cluj-Napoca, Romania

### "Geodesy, Geomatics and Property Valuation"

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## Commission 3 Achievements and Opportunities

- Six dedicated Technical Sessions related to Commission 3, several Inspirational and Co-related Sessions, well attended, healthy discussions
- Stronger presence of Commission 3 in the Asia Pacific region, Australian chair of WG 3.1 Kevin McDougall, connection with Surveying & Spatial Science Professions, Australia
- UN-GGIM, identified cooperation in Commission 3 Terms of Reference with Prof Abbas Rajabifard, Chair of UN-GGIM Academic Network
- Cooperation and alignment with new FIG Task Force on achieving the UN SDG's
- Continued Annual Commission Workshops to bring together delegates, to gather information for future publication by FIG Congress 2022

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## Commission 4 Hydrography

Chair: Mohd Razali Mahmud

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## FIG Commission 4 (Hydrography)

- Existing collaboration with IHO/IFHS

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## FIG Commission 4 (Hydrography)

- **Seminar on Maritime Surveying**  
**9 May 2020**

### FIG Working Week 2020, Amsterdam

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## FIG Commission 4 (Hydrography)

- Invitation to IHO Secretariat as  
Keynote Speaker
- Joint Technical Session with IHO/IFHS

### FIG Working Week 2020, Amsterdam

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## FIG Commission 4 (Hydrography)

- **FIG Commission 4 (& YSN) Annual Meeting and International Seminar, November 2019, Kuala Lumpur, Malaysia**

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## Commission 5 Positioning and Measurement

Chair: Dan Roman

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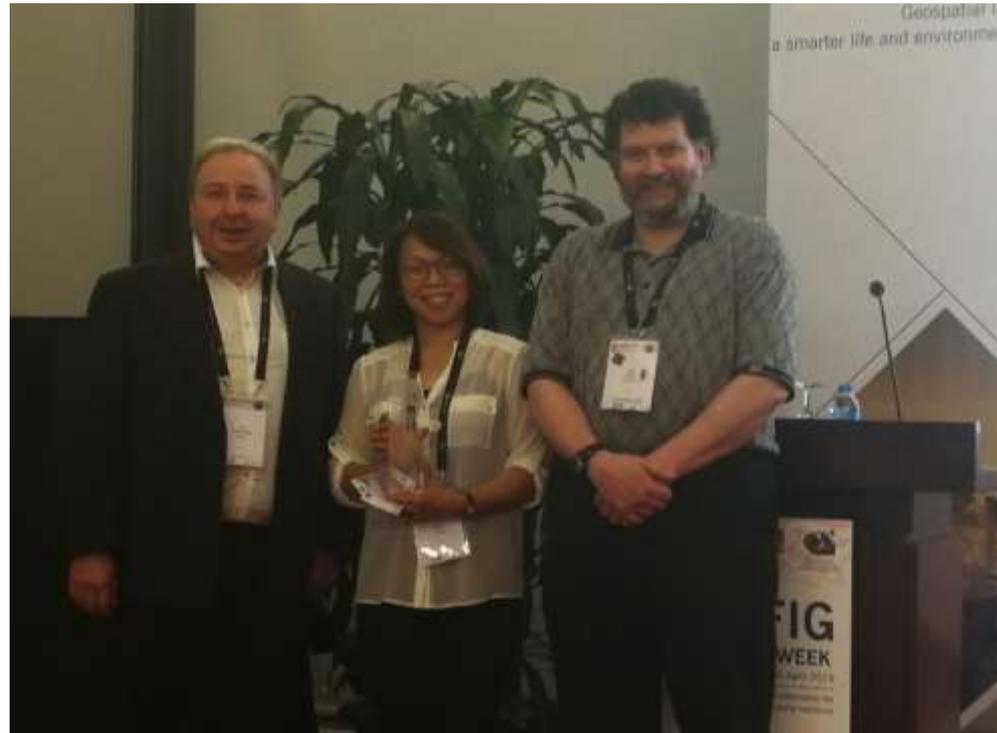
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## Sessions

- There were six core sessions
- All well attended – 40 plus in each
- Inspiring dialogue and questions all reinforcing the importance of **positioning and measurement**
- NavXperience Award presented for best peer reviewed paper in Commission 5



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## Collaboration is key to success

- IAG/IGS will implement models and tools of future positioning and measurement
  - Established liaison with IGS
  - IGS meets with future FIG WW
- UN-GGIM/UN-SCoG are defining how these will be implemented in Nations
- FIG must engage with them to understand what comes next



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FIG/IAG/UN-GGIM-AP/ICG/VGCR Technical Seminar  
Reference Frames in Practise Seminar and  
BELS+ Training



RFIP – Working Week 2019:

•39 Attendees – 7 UN-OOSA Sponsorships – 8 Vietnamese Attendees

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## Commission 6 Engineering Surveys

Chair: Maria Joao Henriques

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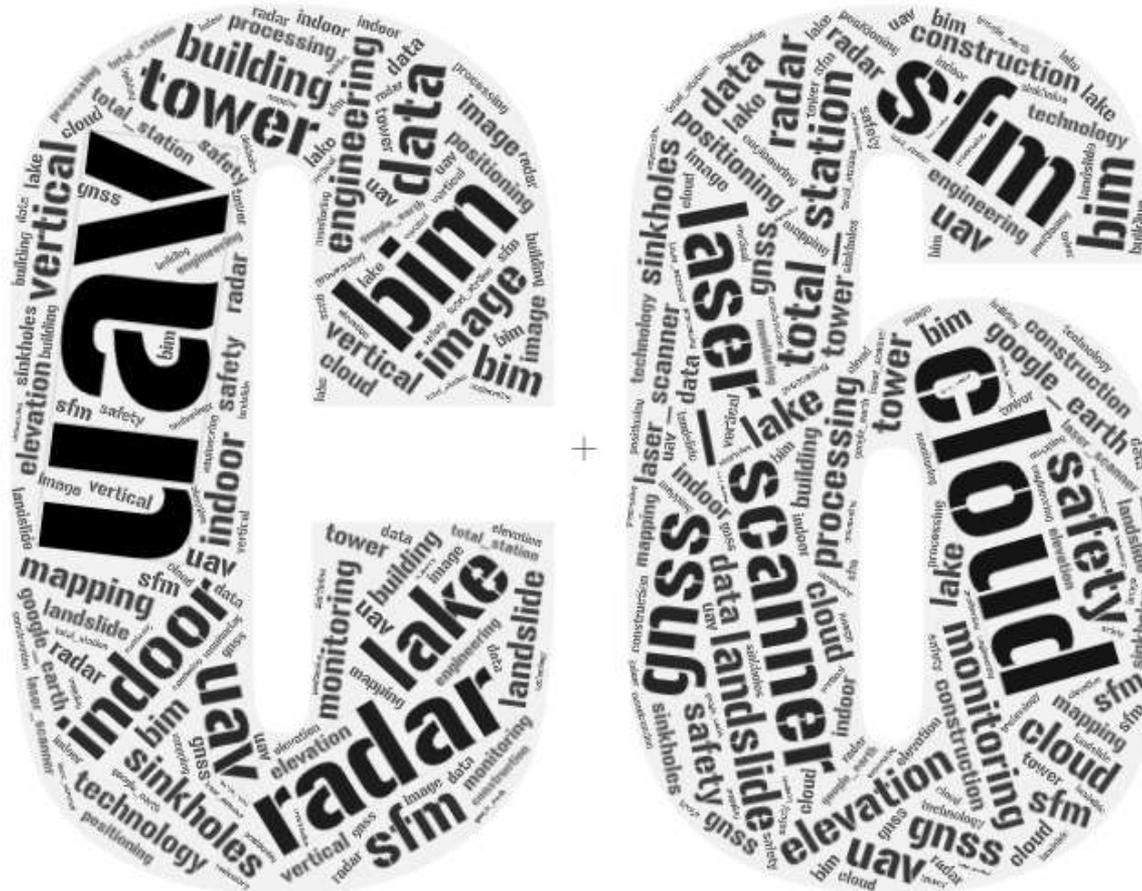


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## WG 6.3 – UAV in Surveying

UAV in  
construction sites,  
visual inspections  
and  
displacements  
monitoring



UAV for boundary  
detection

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## WG 6.3 – UAV in Surveying



UAV in  
construction sites,  
visual inspections  
and  
displacements  
monitoring



Chair  
Hans Ni

UAV for boundary  
detection

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## 3 Technical Sessions 1 Joint Technical Session



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## Commission 7 Cadastre and Land Management

Chair: Daniel Paez

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## Commission 7

- 10 sessions
- 4 co-hosted sessions with other commissions
- 3 special meetings
- 1 social dinner
- 1 site visit to Hanoi registration office
- Many information discussions



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Mika



Abbas



Ian

**Special invitees of the Commission provided a positive and dynamic environment in Hanoi**

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## Work Plan and proposed implementation strategies

- Sustainable Development goals (SDGs) and the cadastre template
  - work cooperatively with UN, WorldBank and the other efforts
- Digital twin and smart 3D cadastre information:
  - build capacity among FIG members, continue collaboration with Commission 3
- Fit-for-purpose:
  - explain, discuss, consolidate
- Urban challenges
  - explore deeper the issues for low income population, keep cooperating with commission 8 and 9.



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# We are looking forward for our annual meeting in Korea and Amsterdam WW 2020

- Korea Annual meeting
  - 5-9 August 2019
  - Planning well undergo
  - Significant interest to make it a regional meeting
  - Looking cooperation with regional associations

kadaster



- Amsterdam 2020 WW
  - Planning a site visit to Kadaster
  - Flag the water topic of the conference to our members
  - Change the format of FFP sessions into more stakeholder discussions and consultation
  - Exploring the possibility of a SDGs land administration Declaration during the working week



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## Commission 8 Spatial Planning and Development

Chair: Marije Louwsma

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## Highlights of FIG WW Hanoi – commission 8

- Well attended sessions for example on **SMART cities** and **urban-rural continuum** (joint session of commissions 7/8/9)
- Fruitful discussion with input from Asian countries in special session with FAO about spatial planning and tenure (VGGT's)
- Field visit to General Department of Land Administration (organised by commission 7)
- First results of Working Group **GIS tools for spatial planning** were presented at commission meeting



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## Upcoming events Commission 8

- Sustainable Development Goals: Land Governance for Equivalent Living and Working Conditions in Urban and Rural Areas;  
Qingzhou, China, 16-17 May 2019
- How can Land Management in Rural Areas can Contribute to Archive SDG´s  
Qingzhou, China, 20-21 May 2019
- Joint workshop with commission 3, Romanian surveying week, and Life Sciences for Sustainable Development conference  
Cluj-Napoca, Romania, 23-27 September 2019
- Joint workshop with LANDNET about rural development and land mobility  
Galicia, Spain, November 2019

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## Cooperating with

- LANDNET  
a network about rural development and land consolidation with a geographical focus on Europa and Central Asia
- Food and Agriculture Organisation (FAO)  
focus on food security, spatial planning and land policy tools
- Various universities in commissions' working groups
- Global Land Tool Network (GLTN)

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## Commission 9 Valuation and the Management of Real Estate

Chair:

**Ben Elder (represented by Steven Nystrom)**

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## Commission 9 – Valuation & Management Of Real Estate

- Planning stage for Events & Continued Cooperation:
  - Joint FIG Comm 9 / IAAO Conference Copenhagen 2020
  - Cooperation with UNGLTN, UNECE WPLA, & the World Bank
- Strong interest in new WG's such as Mass Valuation, Country Level RE Market Engagement, & Land Value Capture
- Working Groups
  - Working group **9.1 Urban Challenges** (joint Working Group with commission 7 and 8)
  - Working group **9.2 Valuation of Informal land & property**
  - Working group **9.3 Ensure valuation/appraisal remains relevant through the 4th Industrial Revolution and is key to achievement of UN SDGs**



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## Commission 9 – Valuation & Management of Real Estate

- Cooperation with & completion of the GLTN / FIG / UNHABITAT “Valuation of Unregistered Land a Policy Guide” & further expansion of the work to a manual is currently planned and will shortly commence.



- Nearing completion of the UNECE WPLA / FIG “Guidelines for the Formalization of Informal Constructions in the Europe” book.
- This publication is in the final stages before release to our partners for comments, editing, graphics & production.

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## Commission 9 – Valuation & Management of Real Estate

New Commission 9  
Ride Sharing Program &  
App. in Hanoi !! (not really)

- Continued engagement with the challenges & and unique strengths of our member associations makes us strong and keeps us relevant !



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## Commission 10 Construction Economics and Management

Chair: Alan Muse

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## Highlights of FIG WW Hanoi – Commission 10

- Well attended sessions, for example, on **Digital Construction** where there was a good debate on the papers presented
- Particularly good liaison with quantity surveying representatives from African member associations including Nigeria and Ghana
- Identified SDG's relevant to commission 10 and held an engaging discussion on the planned workstreams

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## Upcoming events commission 10

- Planned meeting in London in November 2019 to discuss emerging workstreams

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## Cooperating with

- International Cost Engineering Council
- Pacific Association of Quantity Surveyors
- Council of Construction Economists in Europe
- African Association of Quantity Surveyors
- World Bank
- United Nations

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**WORKING WEEK 2020**  
**10-14 MAY**

*Smart surveyors for land and water management*



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## End of Report from Commissions

## Thank you for your attention

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