

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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FIG Africa Regional Network - an academic network for Africa

Jennifer WHITTAL
Africa Regional Network

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Top-down approach through existing networks ...

- **In Africa**

- ARUA: African Research Universities Alliance - arua.org.za
- AAU: Association of African Universities
www.aau.org – high level collaboration
- PANGeA: Partnership for Africa's Next Generation of Academics



- **Collaboration 'Out-of-Africa' with Africa**

- AGNESS: African-German Network of Excellence in Science
- AAUN: Australia-Africa Universities Network

- **Political:** African Union (AU) - New Partnership for Africa's Development (NEPAD)

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Bottom-up approach through member (professional and academic) associations ...

- Identify domain-specific champions
 - Link individuals – determine short term collaboration goals e.g. prepare papers for FIG WW Ghana 2021 and FIG Congress Cape Town 2022
 - Report on goal achievement
 - Extend network
- Or**

Hybrid ...

- Link the champions NOW, collaborate in the short term
- Identify support through the existing networks MEDIUM TERM

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What are the needs – results of a poll in Botswana:

Academics

Update content;
modernize equipment;
standardize curriculum
across Africa;
more practicals

Curriculum review and
standardisation

Staff and
student
exchange
programmes

Exchange

Industry and
academia

Collaboration

Networking

Transitioning: into
prof practice and
from employee to
business partner –
planning for
partnership

Knowledge developme...
Tech theory
and skills

Research

Marketing and
awareness

Funding

Commissions

Communica...
internal to
geomatics

Mentoring

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A vision for an academic African FIG-affiliate community

- Database of African academics in FIG member institutions
- Under the ARN banner
- Teaching
 - Identify common teaching areas to facilitate sharing
 - Notes, slides, workshop material etc.
 - Other resources such as curricula
- Research
 - Identify common domains of interest from online research profiles
 - Identify one paper to collaborate on and present paper at an FIG conference

**FIG ARAN:
FIG Africa Regional
Academic
Network?
(aka FIG YSAN)**

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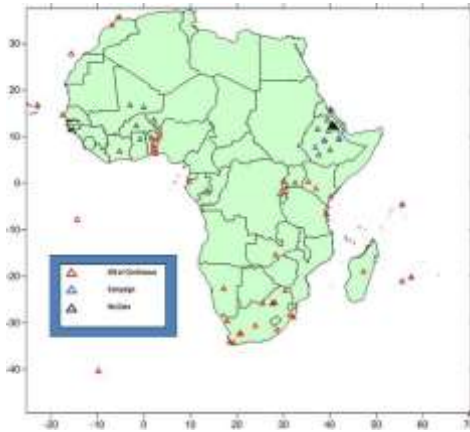
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Domain-specific champions:

- Specific technology e.g. drone surveying?
- Land administration, cadastral systems, land development, and delivery of secure land tenure?
- Reference systems and CORS networks – AFREF?
- Offshore and coastal environments?
 - LWM and HWM determination
 - Height datum determination on (geoids) and offshore (hydroids of LAT)
 - Hydrographic surveying
- Other?



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Challenges

- **Expense** of academic membership – € 500 for 4 years
 - Roughly a **1/10** of the per capita salary in sub-Saharan Africa*
 - Roughly a **1/52** of the per capita salary in Europe & Central Asia**Much more costly for departments in Africa compared to other real costs – we cannot use the academic membership as a selection criterion
- Low and insecure salaries mean many academics also **practice** as land professionals – little time for research



* <https://data.worldbank.org/region/sub-saharan-africa-excluding-high-income?view=chart>

** <https://data.worldbank.org/region/europe-and-central-asia-excluding-high-income?view=chart>

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Challenges

- **Internet connectivity** is poor and hinders
 - cloud computing, cloud storage and sharing of data
 - online meetings e.g. skype
 - access to data, papers, information
 - academics rely on private cell phone data bundles - expensive
- Behind in the **digital age**
 - much information is not digital – e.g. cadastral data
 - data is not current or complete hindering research

* <https://data.worldbank.org/region/sub-saharan-africa-excluding-high-income?view=chart>

** <https://data.worldbank.org/region/europe-and-central-asia-excluding-high-income?view=chart>

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Challenges

- Languages
 - Many local languages
 - National languages:
 - French
 - English
 - Portuguese
 - Arabic



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Proposals

- 1. FIG RNA proposed 3 workshop thrusts for this term – one is on an FIG ARN Academic Network in conjunction with Comm 2; lead by J Whittal**
 - Hybrid approach
 - Use the data we have available and contact individuals
 - Identify champions and collaboration domains & aim for achievable short-term outcomes
 - Seek support through international academic networks
 - Work incrementally towards the long term vision: lecturer swaps, student exchanges etc.

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Proposals

2. Differentiated fees for academic membership of FIG:

- The fee currently payable by academic members is **500 € per four years**. If a member prefers to pay annually, the fee is **250 € per year**. *Academic members from countries listed by the World Bank as upper-middle-income economies shall pay **310 € per four years**. If such a member prefers to pay annually, the fee is **160 € per year**. Academic members from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay **125 € per four years**. If such a member prefers to pay annually, the fee is **65 € per year**.*
- *Submit a **formal proposal to FIG** ahead of budget cycle 2020*

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Proposals

3. **ARN Working Group on Geodetic Networks for Africa**

- will provide an opportunity for overlap with the ARN Academic Network in the production of collaborative pan-African papers for FIG2021-FIG2022
- partner with UNGGIM and Positioning and Measurement: Commission 5
- lead – Stephen Djaba with Eldar Rubinov and others

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