Navigating a Global Consciousness: A Young Surveyor’s Future

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What is surveying...?

What did you do last week in your job?

What do you like about your job?

What do young people want in their careers?

What is attractive about surveying?
Mapping Mars

Figure 2. Overlap of typical Mars Navcam images

5. Photogrammetry and Laserscanning
TS Fork, Coonabarabran
September 2016. For technology ended the first part of the planned diagnostic work for restoration of the façade. The 3D mapping of the pieces of the statues and of the 1,417 blocks of marble of the façade supplied the 3D geometric model (at a scale of 1:20) with a non millimetric precision. Geodetic surveys were then carried out on the 6 flying buttresses and 5 bays, in the height of 30 metres, to examine the structural features of the architectural junctions. Targeted sampling was performed on...
The Problem: *geographics*

Where are the Young Surveyors?
Developed vs. Developing. Bologna process beyond education?
Is it only surveying?
Mahoney et al. (2007)

“The profession is changing and the number of competencies in which surveyors are actively involved is over 200”

Aydin et al. (2006)

Turkey downsizing student numbers due to a lack of teaching staff

Statham et al. (2008)

Canadian profession “without an efficient cohesive voice to respond to the profession’s key users in government, industry and the public”

The Problem: *what do we do???

**Regional: Developed vs. Developing**

<table>
<thead>
<tr>
<th>Low visibility</th>
<th>Good visibility!</th>
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<tbody>
<tr>
<td>Disconnect between outdoor surveying and indoor analysis</td>
<td>Lack of skills</td>
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<tr>
<td>One Surveyor = many talents</td>
<td>High ratio students to teachers – in need of experience</td>
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<td></td>
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*Credit crunch/Economy Crisis.....*
Upcoming generations can find information at the drop of a hat... but people?

You can’t find experience.

Marketing: Becoming visible

We need to market what we do.

How do we know what a doctor does?
(Why do 5 year olds play nurses or want to become doctors?)

What do we have to market?
Asian Tsunami; Chinese Earthquake, Australian bushfires
Real Estate, Property Management
Climate Change

Fewer surveyors, changing technology = broader work opportunities.

Let’s use these ties! Inclusive promotion

Young Engineers Video
Marketing: Becoming visible

Actions: Outreach

• Involve Young Surveyors: word of mouth

• Create FIG awareness;
• Share a united vision for surveying

• “integrate complementary abilities”:
  • Planning + Architects + IT + Engineers...
  • Academia + Industry: united front

• Network
**Actions: Technology**

Key to our work environment, but the FIG?

**Communication is vital!**
- Podcasts
- Teleconference
- Web communication
- Blogs etc.

**FIG2010 will use these technologies!**

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**Importance of Networks**

International, inter-cultural, inter-generational, inter-disciplinary

Skills crisis across IT, Construction, Engineering fields

Impact of ‘Credit Crunch’ *Jamaican students learn laser scanning using VOIP and University of Melbourne!!!*

Changing face of surveying:
- communication of evolving best practice etc.

**Knowledge share**

*States in the US don’t talk to each other!!!*
FIG Young Surveyors Network

What are we achieving now?

Aims:
- Increase Young Surveyor Participation
- FIG events
  - Speed networking
  - Marketing
  - Quarterly Newsletter
  - Additional Events eg. FIG2010 Young Surveyors Beyond Horizons
- Future Focus?
  - Continuing Professional Development (CPD)
  - Involvement: Professional organisation participation
  - Bologna process... and beyond?
  - Harness Technology: Web, podcast, communication

Young Surveyors Beyond Horizons

what?
- Technical activities, across Australia, the week before FIG2010

why?
- Encourage/Enable young surveyors to attend, learn new skills and network
For you to do:

- Do you know any young professionals?

- Sponsor/Contribute to someone’s attendance at FIG2010 and Young Surveyors Beyond Horizons Project

- Tell us what you do! Write for our newsletter.

- Ideas? Help? Come talk to me!

We need structured support. We are young and inexperienced. We have enthusiasm...but perhaps some help with realism.

We need mentors, ‘financiers’, Physical “hands on decks”
Involving

FIG’s aims: Advance the profession
Changing demographics; changing technology; changing times
What do we need? Awareness, clarity, involvement
- Newsletter: hear about people involved
- Speed networking: talk to people involved
- Young Surveyors Beyond Horizons: GET involved

Navigation from here?

Does your organisation promote young surveyors?
How are young surveyors involved?
Mentor. Improve our Network
FIG2010? Young Surveyors Beyond Horizons.

Why are we doing this? How do we fund this?
Developed world:

Many surveying disciplines
Externally: what does a surveyor contribute to society?
Internally: disconnect between outdoor surveying and indoor analysis

Key Messages:

-Acknowledged range of focii: students, young professionals, developed/ing world
-Increased interaction with adjacent associations
-Activities by YS Network
-Support required: time, finance, physical support
Bologna process: Dissolving boundaries

But only in education.
Differences remain: eg. Sweden vs. UK vs.
Germany vs. Bosnia vs. Turkey
EU yes but additions to EU

CONTINUITY
How does this flow into surveying world
Work environment needs facilitation:
Role of FIG