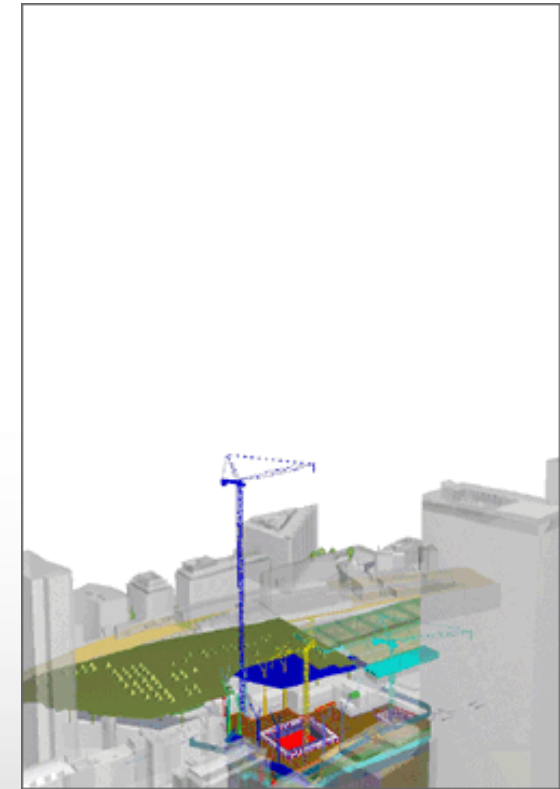
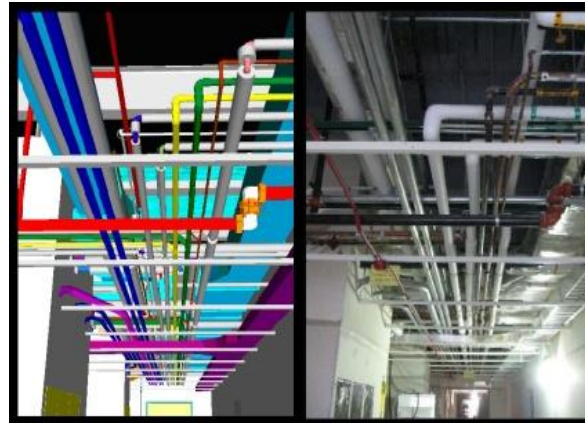
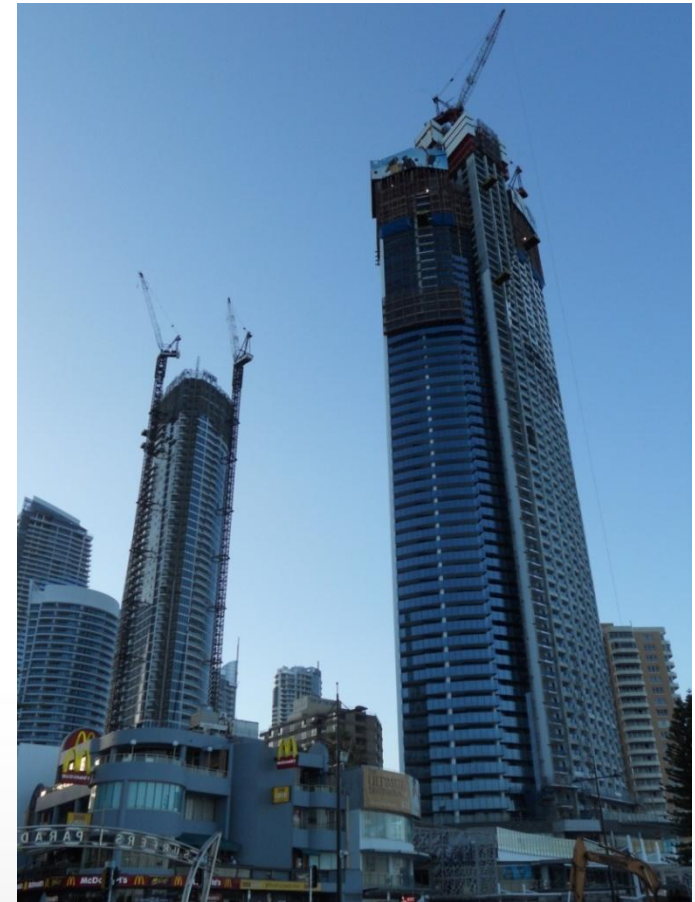


Department of Construction Management: The BSc Programmes



Myths and Realities of Construction

- **“Anyone can Build: I just erected a carport over the weekend!”**
- **“How difficult can it be to lay a brick on a brick?”**
- **“All you need is a LDV!”**
- **“Construction is for men!”**
- **Science and technology involved**
- **Range of resources to be managed**
- **Implications of failure during the process**
- **Range of stakeholders including developers, academic institutions, banks, contractors, government**



**55 plus storey apartments
Surfers Paradise, Gold Coast, Australia
Courtesy Prof. Smallwood, NMMU**

What is Construction Management ?

“The management of the business of construction and projects”:



Managing the organisation functions: general management; administration and information technology; financial; human resources; legal; marketing; procurement; production (projects), and public relations

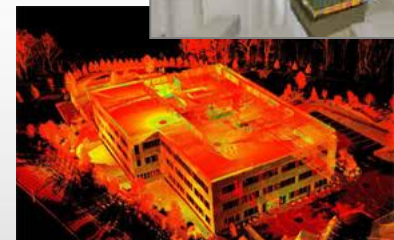
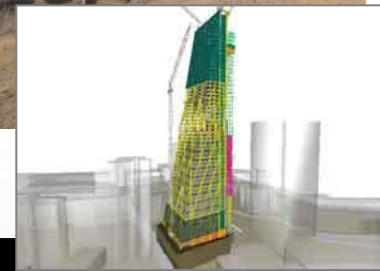
Using the resources: management; supervision; labour; competencies; finances; information; material; plant and equipment; subcontractors; technology, and innovation

Within the defined parameters of: budget (cost); developmental objectives; environment; health and safety (project and public); productivity; quality; schedule (time), and client, designer and worker satisfaction

Using the functions of management work: planning; organizing; leading; controlling, and coordinating

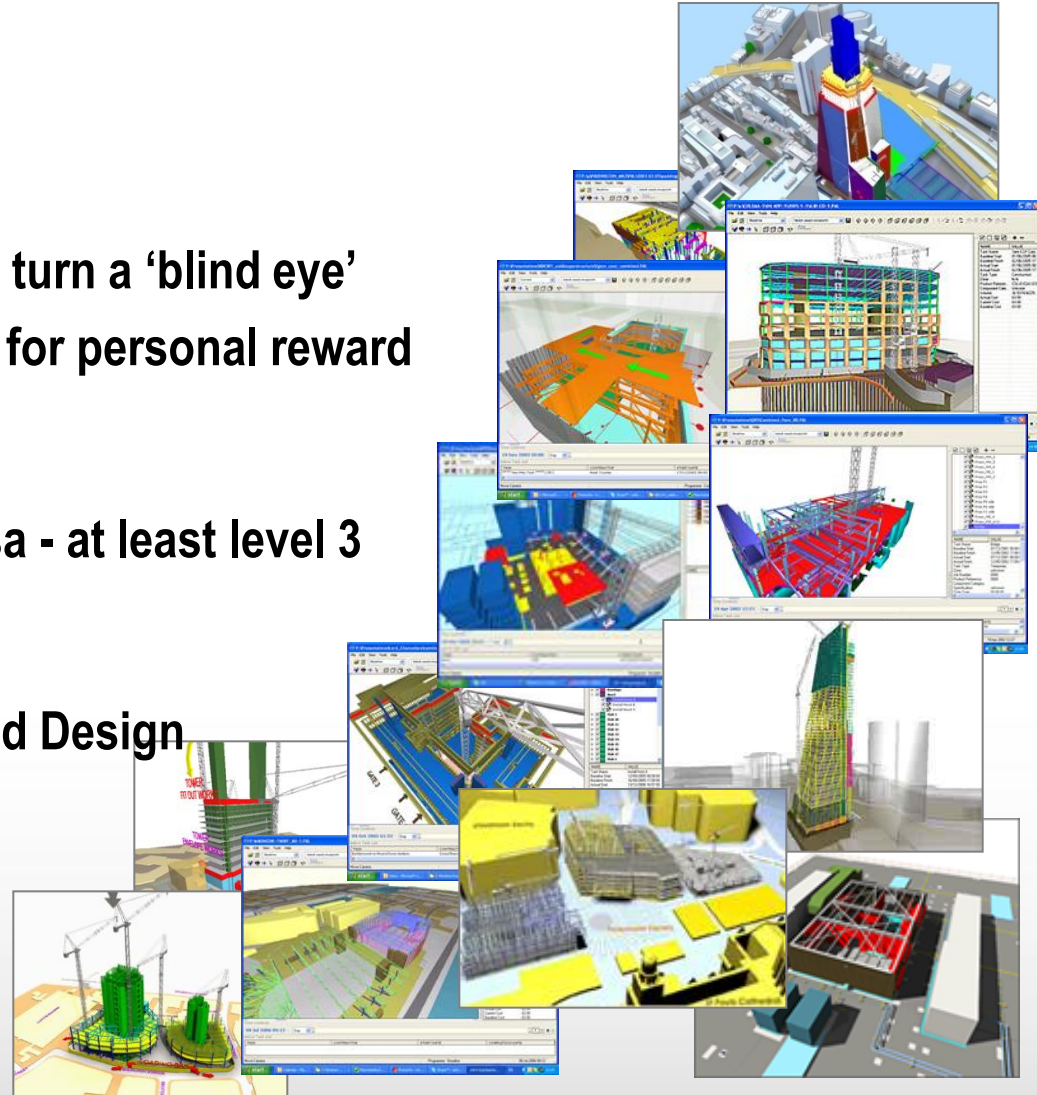
The BSc Construction Management degrees

- **BSc (Construction Studies) – 3 years**
- **BSc (Honours) (Construction Management) – 1 year**
 - **Treatise of 12 000 – 15 000 words**
- **Internationally recognised and accredited CIOB (Chartered Institute of Building)**
- **Accredited by the South African Council for the Project and Construction Management Professions (SACPCMP)**
- **Graduates currently working in South Africa, rest of Africa, Australia, UAE, UK, and USA**
- **Total of 4 years – Honours is important for:**
 - **Preparing construction managers to manage the business of construction and pursue other careers**
 - **Registering with the SACPCMP as a CM or CPM**



Character traits and Admission requirements

- **Character traits:**
 - Leader
 - Team orientated
 - Enjoy challenges
 - Enjoy variety of work
 - Exacting philosophy - do not turn a 'blind eye'
 - Prepared to work long hours for personal reward
- **Admission requirements:**
 - NSC with point score of 36
 - English, Afrikaans or isiXhosa - at least level 3
 - Mathematics NSC 4 rating
 - Recommended subjects:
 - Engineering Graphics and Design
 - Physical Science



3 Main fields - Construction Science and Technology; Construction Economics, and Construction Management:

- **Construction Science and Technology:**
 - **Geometric Drawing; Materials and Methods; Environment and Services; Structures; Surveying; Physics; Mathematics; Information Technology for Building Disciplines, and Computer Science**

- **Construction Economics:**
 - **Production Analysis; Statistics; Economics; Building Economics, and Property Economics**

- **Construction Management:**
 - **Organisational Behaviour; Accounting; Business Management; Construction Management; Project Management; Commercial Law; Company Law; Industrial Law, and Professional Practice**

- **MSc and PhD (Construction Management) by research:**
 - Generally 2 and 3 to 4 years in duration respectively
 - Enables specialisation
- **Coursework MSc (Built Environment):**
 - 5 Specialisations: Construction Management; Construction Health and Safety Management; Facilities Management; Project Management, and Property Economics and Valuation
 - 18-Month programme

Enquiries:

Department of Construction Management – 041504 2790

Prof John Smallwood: john.smallwood@nmmu.ac.za

Mariana Botes: mariana.botes@nmmu.ac.za

Mark Abrey: mark.abrey2@nmmu.ac.za

