Apologies

Owen McMahon
Tony Boniface
Donald O'Connor
Dewald.Swanepoel
Eric Scholtz
Natalie Killassy
Erenst du Toit
Gordon Smith
Johan Van Der Merwe
Les Gardner
Riaan Carstens
Francois Malan

Jacques Lucas
Hennie Greeff
Ernest Wevell
Matthew Handley
Francois Naude
Monty Montgomery
Carrie Zermatten
Olaf Goldbach
Sandor Petho
Jeanne Walls
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.30 am</td>
<td>Arrival &amp; Registration of Members</td>
<td></td>
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<tr>
<td>8.30 am</td>
<td>Welcome</td>
<td>Mr. M. du Plessis</td>
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<tr>
<td>8.35 am</td>
<td>Honorary Fellowship Award</td>
<td>Mr. M. du Plessis</td>
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<tr>
<td>8.50 am</td>
<td>Keynote address – “Measurement and prediction of dilution in a South African gold mine operating with open stoping mining methods.”</td>
<td>Mr. J. Le Roux</td>
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<tr>
<td>9.15 am</td>
<td>Salamon Award Ortlepp Award</td>
<td>Mr. M. du Plessis</td>
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<tr>
<td>9.20 am</td>
<td>Presidential Feedback</td>
<td>Mr. M. du Plessis</td>
</tr>
<tr>
<td>9.35 am</td>
<td>ISRM Feedback and Engineering works (ECSA)</td>
<td>Mr. W. Joughin (ISRM VP Africa)</td>
</tr>
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<td>9.55 am</td>
<td>Sanire Finance</td>
<td>Mr. F. Essrich</td>
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<tr>
<td>10.05 am</td>
<td>Rock Engineering Legislation changes</td>
<td>Mr. D. Neal</td>
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<tr>
<td>10.20 am</td>
<td>Refreshment break (20 mins)</td>
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<td>Speaker</td>
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<td>Honorary Membership Award</td>
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<td>Practitioner of the Year Award</td>
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<td>10.55 am</td>
<td>Future Rock Engineering Certification</td>
<td>Mr. J. Maritz</td>
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<td>11.15 am</td>
<td>Feedback on slope conference</td>
<td>Mr. R. Armstrong</td>
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<td>11.25 am</td>
<td>Young members</td>
<td>Mr. J Maritz / Mr. H. Greeff</td>
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<td>11.40 am</td>
<td>Newsletter</td>
<td>Mr. P Couto</td>
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<td>11.50 am</td>
<td>Membership</td>
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<td>12.00 pm</td>
<td>Current Education</td>
<td>Mrs. Y. Jooste</td>
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<td>12.10 pm</td>
<td>Certificate Awards</td>
<td>Mr. M. du Plessis</td>
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<td>12.20 pm</td>
<td>Closure and afternoon arrangements</td>
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<td>12.30</td>
<td>Lunch</td>
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Award: Honorary Life Fellowship

Lifetime achievement award

Dr. Michael Roberts
In acknowledgement of his significant long term technical contributions to the field of Rock Engineering

• Nomination speech: Ray Durrheim
• Award accepted: Kim Roberts
Keynote address

Measurement and prediction of dilution in a South African gold mine operating with open stoping mining methods

Presented by: Jaco Le Roux
ISRM 2015 Montreal Canada

Salamon award

• Jaco Le Roux
• Dick Stacey
In acknowledgement of the best technical publication for 2015

Jaco Le Roux (Dr.) and Prof. Dick Stacey

Measurement and prediction of dilution in a South African gold mine operating with open stoping mining methods

Presented at: ISRM 2015 Montreal Canada
Award: Ortlepp

In acknowledgement of the best technical publication for persons below 35 years of age for 2015

Alida Hartzenberg

The influence of regional structures associated with the Bushveld Complex on the mechanism driving the behaviour of the UG2 hangingwall beam and in-stope pillars at Lonmin’s Marikana Operations

Presented at: ISRM Platinum Conference 2014 – Sun City
Presidential feedback

Michael du Plessis
President
Presidential feedback

Strategy 2020
Presidential feedback

**Strategy**
- Members (Young vs. Old)
- Recognition
- Qualifications
- Professional registration
- Legislation
- Industry needs
- Interaction
  - Website
  - Newsletter
  - Events
  - Video lectures
  - Symposia
- Branding
  - SANIRE
  - Members
## Presidential feedback

### Committee

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<tr>
<th>NAME</th>
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<tr>
<td>Michael du Plessis</td>
<td>Awards; RETC</td>
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<tr>
<td>William Joughin</td>
<td>ISRM, SAIMM, Eng works, AfriRock 2017</td>
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<td>Les Gardner</td>
<td>RE Legislation, RETC, Simrac</td>
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<td>Friedemann Essrich</td>
<td>Treasurer, MQA, QCTO, L1-L4 training mat</td>
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<td>Jannie Maritz</td>
<td>Future education (RE ticket)</td>
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<td>Yolande Jooste</td>
<td>Exams committee, Video lectures</td>
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<td>Dave Neal</td>
<td>Membership, RETC</td>
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<td>Hein Greef / Jannie</td>
<td>Young members</td>
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<td>Jaco le Roux</td>
<td>Website</td>
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<td>Robert Armstrong</td>
<td>Organisation Liaison</td>
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<td>Dave Arnold</td>
<td>History, RETC</td>
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<td>Paul Couto</td>
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Presidential feedback

Symposia

- September 2015: Free State Symposium
- October 2015: Slope Stability
- 2016: Present 2015 ISRM presentations (R500pp)
- September 2016: NW SANIRE Symposium
- February 2017: Pillar workshop (cheap)
- October 2017: AfriRock (ISRM)
  - No SANIRE symposium for 2017
Presidential feedback

Website

• Planning a minor face lift this coming year
  • Interactive
  • Platform to share info
    • request members to send us some interesting photos regarding their operations
    • some old photos of mining in South Africa

• SANIRE facebook page is up and running
  • if someone is not befriended yet, send SANIRE a friend request
President: Presidential feedback

Video lectures

- ISRM lectures (12)
  - Professor Ove Stephansson and the title is “Rock Stress and Stress Fields” - 12 September
- SANIRE
  - Nielen van der Merwe “Getting a Grip on Reality in Rock Engineering”
- Planning: 3 short video lectures on theory topics
Presidential feedback

**Branding Strategy**

- Get SANIRE recognised by other disciplines
  - Presidents cup
- Get SANIRE recognised as best national group
- Awards and recognition
  - AGM
ISRM feedback

William Joughin
Vice President Africa
Engineering works (ECSA)

William Joughin
Vice President Africa
Regulation of the Engineering Profession

- Identified Engineering Work (IEW) Regulations – approved 2014
- Change from Optional Registration to Compulsory Registration for Engineering Practitioners performing Identified Engineering Work
- Civil Engineers regulated for more than 30 years
- Impact on Rock Engineers???????
- Who signs off rock engineering designs???
- MHSA??????
- Timing ?????
Regulation of the Engineering Profession

Identified Engineering Work

• Types of Engineering Work
  – Mining / mineral extraction operations
• Identified Characteristics of Engineering Work
  – Investigating, solving problems, design solutions
  – Application of basic scientific & applied engineering knowledge
  – Management of engineering works
  – Addressing impacts, judgement and responsibility
• Identified Engineering Functions
  – Design of materials, planning of capacity and location, investigation of engineering problems, application of the results of research and development, management of risks, etc
• Levels of Competency
  – NQF levels 6-8 (status of Rock Engineering?)
• ECSA Self Regulated – must work within your own knowledge and experience
Regulation of the Engineering Profession

Current registration categories under mining Engineering

- Professional Engineer (L8)
- Professional Engineering Technologist (L7)
- Professional Certificated Engineer (L7) – Mine Manager’s Certificate
- Professional Engineering Technician (L6)
Regulation of the Engineering Profession

Proposed Strategy

• Recognition of COMRMC by ECSA (precedent MMC)
  – NQF rating (Jannie Maritz)
  – Approach ECSA (William Joughin)

• ECSA Voluntary associations
  – SAIMM (PAC for Mining Engineering – current link to ECSA)
  – SANIRE?????? (Need sufficient registered members)

• Registration under current rules
  – Existing registration categories
  – Recognition of other educational qualifications ????
Finance & Administration

- General
- Financial summary
- Cash reserves
- 2016 Budget
- Branch reporting
General

- SANIRE office at Margaret Water Co. (AngloGold-Ashanti Ops) near Stilfontein
- J. van der Merwe retrenched (30/9/2015)
- Carol Hunter (LONMIN) volunteered
- Administrator post to be filled again
- Low rate of member fee recovery
- Review of tree planting initiatives near Rustenburg, Steelpoort, Welkom and Potchefstroom
Financial summary

- Annual SANIRE Symposium contributes R40-60k
- Historically, 80-90% of member fees collected.
- SANIRE’s financial position is stable.
- 2015: 64% of member fees recovered.
Financial summary

- **Cash reserves** (27/7/2015): R501 492

- No liabilities, 2016 member fees outstanding
Financial summary

- Poor reporting discipline by some branches:

- Free State, BV West
- Coal, BV East, Gauteng
## 2016 Budget

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<td>ISRM member fees</td>
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<td>* ISRM travel (ISRM, Itasca)</td>
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<td>Meetings (Bosb., AGM, Council)</td>
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<td>Bad debt</td>
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<td>* Video lecture (3)</td>
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<td>Accounting</td>
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<td>* Awards (Salomon, best student etc.)</td>
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<td>Branch FinReport incentives</td>
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<td>* Office (station/teleph/postage)</td>
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<td>* CO2 offset fee</td>
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<td>* Newsletter</td>
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<td>* Website hosting</td>
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<td>M-SAIMM</td>
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<td>Bank charges</td>
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<td><strong>484182</strong></td>
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</table>

* portfolio request

### Increase Details

- **53%**
  - 10% incr., incl. Training
  - 10% incr. (currency risk)
  - M Mathey + 2
  - 30% of 2016 fees
  - 5% up
  - 5% up + new PC & laptop
  - R30 per paying member
  - same as 2015
  - 5% up
  - 5% up
  - 5% up
  - 10% up
# 2016 Income

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<td>2015/16 Symposia/Seminars</td>
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<td>Profit share (Conf. SAIMM)</td>
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<td>Donations</td>
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<td>Merchandise &amp; book sales</td>
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<td>RockTalk adverts</td>
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<td>Interest</td>
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<td><strong>Total</strong></td>
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<td><strong>Surplus/shortfall</strong></td>
<td><strong>R -59 280</strong></td>
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## Projected 2016 member base

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<td>Fellow Members</td>
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<td>Retired Members</td>
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<td>Correspondence Members</td>
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<td>Honorary Life Fellow Members</td>
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<td>Student Members</td>
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<td><strong>Total Members:</strong></td>
<td><strong>558</strong></td>
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## Income from member fees 2015 + 5%

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<td>Members</td>
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<td>Fellow Members</td>
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<td>Retired Members</td>
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<td>R 2 250</td>
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<tr>
<td><strong>Total Members:</strong></td>
<td><strong>337 130</strong></td>
<td><strong>R 235 991</strong></td>
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Members and fees collected

SANIRE membership 2008-16

- HonFellow
- Corresponding
- Retired
- Student
- Associate

- Collected
- Total

Members and fees collected from 2008-09 to 2012-13, showing trends in membership and fees collected.
Thank you!

questions?
Financial reporting by branches

- Principles
- PBO compliance
- Deadlines
- Reporting format
Principles

- Separate control and oversight functions
- Avoid cash transactions
- Recommended: *Bank account with internet banking*
- Financial year: *1 July 2015 - 30 June 2016*
- Reporting within three months of end of FY
  - Account balances at beginning and end of FY
  - Income & expenditure during financial year
  - Assets & liabilities at 30 June
- SANIRE is *not* VAT registered
Public Benefit Organisation (PBO)

- SANIRE is a Voluntary Association of Persons not for gain
- Exempt from income tax (Sect.30 of Income Tax Act, No.58 of 1962, as amended); not VAT registered
- Engages in Public Benefit Activities (e.g. Club)
- Utilisation of all incomes in line with PBO guidelines
- All records have to be kept for 7 years
  - Keep detail of all donations (date, name, donor, amount)
  - Donor may not benefit from donations
  - Donations may not be recalled
- On dissolution of a branch, all assets, books, records and funds to be transferred to the Institute.
<table>
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<tr>
<th>Date</th>
<th>Description</th>
<th>Balance</th>
<th>Income Total</th>
<th>Symposums</th>
<th>Sponsorship/Donations</th>
<th>Raffles</th>
<th>Interest Received</th>
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<td>2011/10/12</td>
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</tbody>
</table>

**BANK STATEMENTS INCOME AND EXPENSES**

**BANK STATEMENTS INCOME AND EXPENSES**

**Please insert as much information as possible**

**Sums all income types**

**INCOME**

**Sums all expense types**

**EXPENSES**

**Type in branch name**

**No line can be deleted. Lines can be inserted, but remember to copy formulas or it will not balance**
Rock Engineering legislation changes

Dave Neal obo (Les Gardner)
Rock Engineering legislation changes

• Based on SIMRAC project SIM060201 track C

• Time line:
  • Research commenced 2009
  • Research report completed 2011
  • Recommendation by SIMRAC 2014
  • Task Team constituted in March 2015

• Task team members widely representative
Rock Engineering legislation changes

• Risk Assessment using Mindmap

• Short term focus areas:
  • Amendments to legislation
  • Define roles and responsibilities for various levels
  • Change way of reporting dangerous occurrences

• Long term focus areas:
  • Revise COP guidelines for different mining types
  • Facilitate discussion on future RE education
Rock Engineering legislation changes

Where are we – Phase I?

• Proposed legislation regulations drafted ready for submission to MRAC / LDC

• Various roles identified in the regulations – observer, technician and engineer

• Dangerous occurrences proposed to be defined using a risk flowchart tool aligned to the SIMRASS 3 reporting tool, developed to relate to each generalised mining method

• Phase II – update CoP guidelines that reflect the change in the regulations
Rock Engineering legislation changes

- Reporting of dangerous occurrences
- Flow chart format to check due diligence
- Impact/damage level categories:
  - None
  - Minor
  - Moderate (report)
  - Major (report)
- Various criteria per mine type
Rock Engineering legislation changes

Process going forward:

• Submit phase 1 work to MRAC LDC by November 2015
• LDC to amend if needed, submit to MRAC
• MRAC to discuss and approve amendments
• Presented to Chief IOM and Minister for proclamation
• Promulgation aligned with release of updated guidelines
Comfort break (20 min)

Golf arrangements
Willie Liebenberg
# Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.20 am</td>
<td>Refreshment break (20 mins)</td>
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<tr>
<td>10.40 am</td>
<td>Honorary Membership Award</td>
<td>Mr. M. du Plessis</td>
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<tr>
<td>10.50 am</td>
<td>Practitioner of the Year Award</td>
<td>Mr. M. du Plessis</td>
</tr>
<tr>
<td>10.55 am</td>
<td>Future Rock Engineering Certification</td>
<td>Mr. J. Maritz</td>
</tr>
<tr>
<td>11.15 am</td>
<td>Feedback on slope conference</td>
<td>Mr. R. Armstrong</td>
</tr>
<tr>
<td>11.25 am</td>
<td>Young members</td>
<td>Mr. J Maritz/ Mr. H. Greeff</td>
</tr>
<tr>
<td>11.40 am</td>
<td>Newsletter</td>
<td>Mr. P Couto</td>
</tr>
<tr>
<td>11.50 am</td>
<td>Membership</td>
<td>Mr. D. Neal</td>
</tr>
<tr>
<td>12.00 pm</td>
<td>Current Education</td>
<td>Mrs. Y. Jooste</td>
</tr>
<tr>
<td>12.10 pm</td>
<td>Certificate Awards</td>
<td>Mr. M. du Plessis</td>
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<tr>
<td>12.20 pm</td>
<td>Closure and afternoon arrangements</td>
<td>Mr. M. du Plessis</td>
</tr>
<tr>
<td>12.30</td>
<td>Lunch</td>
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</table>
Award: Honorary Life Membership

Lifetime achievement award

Apie van Rensburg
In acknowledgement of his long term contribution and dedication to the Rock Engineering fraternity

• Nomination speech: Trevor Clements
Award: Practitioner of the year

Otto van der Merwe
In acknowledgement of his excellent and sustained contribution to Rock Engineering in the workplace

• Nomination speech: Naomi Ayres
Future RE Certification

Jannie Maritz
Proposed Regulations

**Competent person** means a person who is:

- CoM Certificate in Rock Mechanics
- ECSA Registration
  - Pr Eng Tech+
  - 6 mths+
- SACNSP Registration
  - Cert Nat Sc+
  - 6 mths+
- Appropriate qualification by MQA and CIOM
No issuing of new CoM Certificates

Timeline

- 01 Jan 2016
- Final Sitting Oct 2018
- 6 sittings
- 01 Jan 2019

QCTO Lvl 4 – Strata Control

2012 Graduate

Pr. Tech+ / Pr. Nat. Sc+

2018 successful

CoM REC

2019 First Year

QCTO Lvl 6 – Rock Mechanics
Industry Liaison feedback

Robert Armstrong
Liaison – Professional Bodies

Liaison with the following professional groups

- SAIEG
  - Technical Evenings and Lectures
  - Rock Identification Course
  - Core Logging, Soil Profiling & Chip Logging Course
  - 35th IGC
- GSSA
  - Technical Evenings and Lectures
  - Structural Geology Course
  - Groundwater Seminar
  - 35th IGC
Liaison – Professional Bodies

35th International Geological Congress

- 27 August to 4 September 2016
- Cape Town International Convention Centre
- Over 6000 delegates
- Over 40 Planned parallel sessions including:
  - Mining, Deep Mining & Rock Mechanics
  - Mining-induced Hazards & Reclamation
  - Engineering Geology & Geomechanics
- Abstracts due 31st January 2016
Liaison – Professional Bodies

Liaison with the following professional groups

- SAICE – Geotechnical Division
  - Technical Evenings and Lectures
  - YGE Conference
  - Southern African Geotechnical Conference
Liaison with the following professional groups

- **GASA**
  - Technical Evenings and Lectures
  - Courses and Seminars

- **SACNASP**
  - News with respect to Natural Scientist Registrations (Pr. Sci. Nat.)
  - SACNASP member’s CPD requirements finalised
  - In discussions with SAIEG and GSSA to have SANIRE events recognised for SACNASP CPD points
Liaison – Professional Bodies

Liaison with the following professional groups

- SACNASP
- CPD

<table>
<thead>
<tr>
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<th></th>
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<th>First renewal of registration</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<tr>
<td>Number of credits required for first renewal of registration</td>
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<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
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<tr>
<td>Second renewal of registration</td>
<td>2022</td>
<td>2023</td>
<td>2024</td>
<td>2025</td>
<td>2026</td>
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</table>
Liaison – Professional Bodies

Liaison with the following professional groups

• SACNASP

Category 1:
Developmental Activities: 4 credits = 40 hours (10hrs/credit)

Category 2:
Work-based Activities:
• Natural Scientific Work: 2 credits = 800 hours (400hrs/credit)
• Mentoring of Candidate practitioners: 1 credit = 50 hours (50hrs/credit)

Category 3:
Individual Activities:
• Membership of a recognized Voluntary Association: 1 credit (not linked to hours)
• Other activities: 3 credits = 30 hours (10hrs/credit)
Events

Slope Stability 2015

- Held every 2 years at various locations globally
- 207 Delegates (break even 200)
- 54 Presentations, 10 Poster
- Proceedings volume (928 pages)
- Sponsorship oversubscribed
- CTICC very expensive, had several “additional costs” that ate into sponsorship
- SAIMM finalising finances
Events

Slope Stability 2015 - Sponsors

Premium Sponsor

Anglo American

GroundProbe

3D Laser Mapping

Optron

Reutech Mining

Exhibition Sponsor

Aciel Geomatics

IDS

Soldata

Reutech Mining

Cocktail Sponsor

SrK Consulting

Conference Folders

Reutech Mining

Conference Insert

Softrock

Reutech Mining

Lanyards

Reutech Mining

USB Sponsor

Ohms

Reutech Mining

3v Geomatics

Maccaferri Africa

TRE

Reutech Mining

Trimble

Itasca

MDA

Topcon

Soil Vision Systems Ltd.
Young members

Jannie Maritz obo (Hein Greeff)
2015

• 13\textsuperscript{th} ISRM International Congress (CANADA)
  – Congress attendance / Presentations
  – Rockbowl 2015

• Branch activities

• 2015 Symposium Presentations
RockBowl 2015
2016 - 2017 Term

• Communication
• Branch Portfolio
• Branch Meeting – Young Member Presentation
  - Young Member Portfolio Exchange
• 2016 Symposium – Young Member Presentation(s)
  - The Battle of the RockMechs 2016

2nd International ROCKBOWL 2017 CAPE TOWN
Newsletter

Statistics – November 2015

---

**Newsletter Statistics - October 2015**

- Newsletter Download: 80
- Presidents Corner: 107
- SANIRE Symposium 2015: 97
- Personality of the Quarter: 125
- Rock Star of the Quarter: 116
- Eastern Bushveld Yearly Function: 64
- Rock Engineering History: 93

---
Newsletter


• Presidents corner
• SANIRE AGM –Slope Stability Conference
• Personality of the Quarter
• Rock Star of the Quarter
• Rock Engineering History
• COM Results October 2015
• Eastern Bushveld – Rock Engineering Practical Exam
• ISRM news
• SIM project
• Technical Corner – Still need a volunteer
# Newsletter

## Budget

### Newsletter Budget - October 2015

#### Income - Advertising

<table>
<thead>
<tr>
<th>Name</th>
<th>Rate</th>
<th>Available</th>
<th>Booked</th>
<th>Paid</th>
<th>Total</th>
<th>Company/Organisation</th>
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<tbody>
<tr>
<td>Skyscraper</td>
<td>4000</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
<td>4000</td>
<td>Rocbolt</td>
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<tr>
<td>Square</td>
<td>3000</td>
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<td>1</td>
<td>Yes</td>
<td>0</td>
<td>Timrite</td>
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<td>Button</td>
<td>2000</td>
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#### Expenses

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<td>TAU Editing</td>
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<td>AGM Printing</td>
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#### Balance Sheet

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<td>Balance forward</td>
<td>6531.55</td>
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<td>Total Income</td>
<td>4000</td>
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<tr>
<td>Total Expenses</td>
<td>8326.33</td>
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<td>Balance</td>
<td>2205.22</td>
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## Newsletter

### Advertising

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<tr>
<th>Type of advert</th>
<th>Rates (Excl. VAT) Solus, Casual</th>
<th>Availability per newsletter</th>
<th>Select Publication Issue (Mark with ×)</th>
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<tr>
<td>Square (Not front page)</td>
<td>R 2 000</td>
<td>2</td>
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<tr>
<td>Skyscraper (Front page)</td>
<td>R 4 000</td>
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<td>Booked - Rocbolt</td>
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<tr>
<td>Full page (Middle)</td>
<td>R 8 000</td>
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Membership

Dave Neal
Targets for Membership

Expansion

• Enlarge the membership base beyond mining

• Encourage people to occupy the relevant grade for their qualifications and seniority.
## Membership

### Grades

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>Honorary Life Fellows</td>
<td>16</td>
<td>19</td>
<td>19</td>
<td>18</td>
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<tr>
<td>Fellows</td>
<td>18</td>
<td>15</td>
<td>17</td>
<td>16</td>
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<tr>
<td>Members</td>
<td>148</td>
<td>165</td>
<td>174</td>
<td>186</td>
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<tr>
<td>Associate Members</td>
<td>259</td>
<td>284</td>
<td>286</td>
<td>340</td>
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<tr>
<td>Retired Members</td>
<td>5</td>
<td>7</td>
<td>6</td>
<td>9</td>
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<tr>
<td>Corresponding Members</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>5</td>
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<tr>
<td>Student Members</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
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<tr>
<td><strong>TOTAL MEMBERS:</strong></td>
<td><strong>451</strong></td>
<td><strong>495</strong></td>
<td><strong>509</strong></td>
<td><strong>580</strong></td>
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### Growth

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<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
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<tr>
<td>Members</td>
<td>15%</td>
<td>-3%</td>
<td>6%</td>
<td>11%</td>
<td>5%</td>
<td>7%</td>
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<tr>
<td>Associates</td>
<td>49%</td>
<td>18%</td>
<td>3%</td>
<td>10%</td>
<td>1%</td>
<td>19%</td>
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<tr>
<td><strong>Total (All categories)</strong></td>
<td><strong>29%</strong></td>
<td><strong>9%</strong></td>
<td><strong>4%</strong></td>
<td><strong>10%</strong></td>
<td><strong>3%</strong></td>
<td><strong>14%</strong></td>
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Current education

Yolandi Jooste
Current Education

Strata Control - Hard Rock

Number of candidates

- WROTE
- PASSED

May-08 96 47
Dec-08 87 13
Jul-09 96 20
Feb-10 123 25
Sep-10 108 36
Apr-11 162 11
Nov-11 175 74
Jun-12 138 30
Jan-13 179 66
Aug-13 181 52
Mar-14 179 66
Oct-14 169 31
May-15 220 89

202
Current Education

Strata Control Soft Rock

Number of candidates

- WROTE
- PASSED

May-08  Dec-08  Jul-09  Feb-10  Sep-10  Apr-11  Nov-11  Jun-12  Jan-13  Aug-13  Mar-14  Oct-14  May-15
Current Education

Theory

Paper 1

Number of candidates


WROTE

PASSED
Current Education

General

Paper 2

Number of candidates

<table>
<thead>
<tr>
<th>May-08</th>
<th>Nov-08</th>
<th>May-09</th>
<th>Nov-09</th>
<th>May-10</th>
<th>Nov-10</th>
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<th>May-12</th>
<th>Nov-12</th>
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<th>Nov-13</th>
<th>May-14</th>
<th>Nov-14</th>
<th>May-15</th>
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WROTE

PASSED
Current Education

Hard rock tabular

Paper 3.1

Number of candidates

May '08  Nov '08  May '09  Nov '09  May '10  Nov '10  May '11  Nov '11  May '12  Nov '12  May '13  Nov '13  May '14  Nov '14  May '15

WROTE

PASSED
Current Education

Massive

Paper 3.3

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<tr>
<th>Month</th>
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<td>Nov 08</td>
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<tr>
<td>May 09</td>
<td>1</td>
<td>11</td>
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<tr>
<td>Nov 09</td>
<td>22</td>
<td>1</td>
</tr>
<tr>
<td>May 10</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Nov 10</td>
<td>7</td>
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<td>9</td>
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<tr>
<td>Nov 11</td>
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<td>May 12</td>
<td>5</td>
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<td>Nov 12</td>
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<td>Nov 13</td>
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<td>May 14</td>
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<td>Nov 14</td>
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Current Education

Open pit

Paper 3.4

Number of candidates

May 08  |  Nov 08  |  May 09  |  Nov 09  |  May 10  |  Nov 10  |  May 11  |  Nov 11  |  May 12  |  Nov 12  |  May 13  |  Nov 13  |  May 14  |  Nov 14  |  May 15

WROTE  |  PASSED

- May 08: 0  |  1
- Nov 08: 0  |  1
- May 09: 5  |  1
- Nov 09: 2  |  2
- May 10: 2  |  2
- Nov 10: 6  |  1
- May 11: 1  |  1
- Nov 11: 4  |  1
- May 12: 5  |  1
- Nov 12: 8  |  1
- May 13: 10 |  1
- Nov 13: 10 |  1
- May 14: 6  |  1
- Nov 14: 7  |  1
- May 15: 4  |  4
## Current Education

### Number of Rock Engineering Tickets Issued Per Year

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<th>Year</th>
<th>Met</th>
<th>Coal</th>
<th>Massive</th>
<th>Open Pit</th>
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<tr>
<td>2015</td>
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Awards

Michael du Plessis

Current awards:

- Rocha medal (ISRM) – 2017 (31 December 2015 Sub)
- Lifetime Achievement Award (Honorary Fellowship)
- Lifetime achievement Award (Honorary Membership)
- Salamon Award (best refereed paper)
- Ortlepp Award (best refereed paper) – Below 35
- Practitioner of the Year Award (branch nominations)
- COM Certificates Awards (highest marks > 75%)
  - SCO, P1, P2 & P3
- RE Tickets achieved
- Student Awards (best marks @ universities)
# Awards: Examination

## Rock Engineering tickets obtained

<table>
<thead>
<tr>
<th>Name</th>
<th>Ticket number</th>
</tr>
</thead>
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<tr>
<td>Brett Alfred Hales</td>
<td>518</td>
</tr>
<tr>
<td>Christoffel P F van Rooyen</td>
<td>519</td>
</tr>
<tr>
<td>Deniol Jones</td>
<td>520</td>
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<td>Thokozani Sidwell Habile</td>
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<td>Cassius Selai</td>
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<td>Jennifer Pinkington</td>
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<td>Enya Ismene Nilis</td>
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Awards: Examination

Best result in Oct 2014 or May 2015 exams (>75%)

<table>
<thead>
<tr>
<th>AWARD</th>
<th>CANDIDATE</th>
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<tbody>
<tr>
<td>Candidate awards</td>
<td>Bennett Macuacua (85%)</td>
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<tr>
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<td>Gift Thantsha (82%)</td>
</tr>
<tr>
<td></td>
<td>Jennifer Pilkington (88%)</td>
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<td></td>
<td>Moses Modika (76%)</td>
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# Awards: Best student

Best result in 2014 at Wits and Pretoria universities

<table>
<thead>
<tr>
<th>AWARD</th>
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<tbody>
<tr>
<td>Best student</td>
<td>Kara Lombard</td>
</tr>
<tr>
<td></td>
<td>Lunghile Ngobeni</td>
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<tr>
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<td>Pretoria</td>
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<td>Wits</td>
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Closure

Afternoon arrangements

- Lunch
- Golf
- Networking