

THE GROUND WATER DIVISION

Annual Report to the Membership 2008/2009

THE GROUND WATER DIVISION OF THE GEOLOGICAL SOCIETY OF SOUTH AFRICA

The DIVISION aim to serve the Scientific Sector of the Ground Water Community in southern Africa, for the advancement of the science and technology of ground water and to promote the efficient use of ground water as well as professionalism throughout the ground water industry.

The Ground Water Division was established in 1978 by members of the groundwater community of South Africa and the Directorate of Geohydrology, Department of Water Affairs. Essentially a non-profit association, it is committed to upholding and promoting professionalism in the field of groundwater among its membership. It is a body of scientists, academics and technicians with direct or indirect involvement or interest in the optimal development of the country's groundwater as a limited natural resource, and in the preservation of its quality. Environmental consciousness is strongly supported.

The Ground Water Division mainly focus on Networking; Knowledge transfer and Capacity and Awareness building through a number of initiatives such as

- Events (Conferences, Seminars, Courses)
- Sponsorships / Scholarships
- Communication events and media relations
- Publications (Newsletters / Articles)
- Public Affairs and Community Relations

The Division strives to address issues of actual, collective importance and thus not only to become a forum but also a national speaker for groundwater.

EXECUTIVE COMMITTEE

Overview 2008 / 2009

Following a very difficult period for the GWD in 2007 where various parties on the EXCO was unavailable due to pressing work commitments and other responsibilities, 2008 introduced Dr Shafick Adams as the Interim Chair **to the rescue**. Most of the current Executive Members has been more than five years active in the Executive Committee. The 2009 election process was conducted to form a new leadership core for the GWD.

The retirement of Mrs Maureen Raune, the GWD Secretary for many years, also created a vacuum that had to be filled. Since it was agreed that the GWD day-to-day functions cannot be conducted on a part-time basis by volunteers a service level agreement has been reached with Hydro Holistics cc to form a Secretariat for the GWD responsible for the following:

Membership list administration
Addressing membership queries
Postal services
Minute taking for meetings
Arranging GWD functions
Financial management (including invoicing and membership fees, VAT return etc.)
Website management and communications

To date the following has been established:

- Updated and current membership database
- Invoicing and Member Certificates
- New GWD website and functionalities
- GSSA Reporting (Finances)

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It was a great shock and we were all deeply saddened by the news that Mr Ryan Ellington, a member of the Ground Water Divisions' Executive Committee, his wife Ilze and baby Michael were in a fatal car accident on 25th August 2009.

Our continuous prayers stay with their friends and family.

The Executive Committee of the Division consists of a Chairman, a Vice Chairman, an Honorary Secretary, an Honorary Treasurer and two (2) additional members. The Chairman of the Executive Committee or an alternate member of the Committee represents the Division on the Council of the Geological Society of South Africa. The duties of the Executive Committee are to manage the affairs of the Division in the interest of the Members of the Division and in accordance with its own Constitution and Rules and the Constitution and Bylaws of the Geological Society of South Africa.

The term of office is two (2) years and the DIVISION has identified 2009 as an election year during which the new elected office bearers for 2010 will be appointed.

Office Bearers: Ground Water Division (GWD) of the Geological Society of South Africa. The Interim Committee for 2009 were:

Dr Shafick Adams (Water Research Commission)
- Interim Chairman National Branch
Dr Rian Titus (Water Geosciences Consultants) -
Immediate Past Chairman National Branch
Dr Kevin Pietersen (Water Geosciences
Consultants) – Vice Chairman - National Branch
Mr Chris Moseki (Water Research Commission) -
National Branch
Ms Elanda Botes (Hydro Holistics) – National
Secretariat

† Mr Ryan Ellington (Knight Piesold) - National Branch

Two additional members joined the EXCO in 2009:

Mrs Nancy Motebe (Department Water Affairs)
Mr Khangeleni Fortress Netili (Council for Geoscience)

Branch representatives: (Ex officio members of the Executive Committee)

Mr Gawie van Dyk – Central Branch Chair
Mr Hanco Roux – Eastern Cape Branch Chair
Mr Jaco Nel – Western Cape Branch Chair

The EXCO met on several occasions during 2008/2009: where a full quorum present at each meeting assured that important decisions could be reached. These approved actions set forth to build a solid platform for the GWD for 2010 and beyond.



MEMBERSHIP

The Division have a total of 10 honorary members:

Prof. J Botha	Dr. K L Mouton
Prof. E Braune	Mr. A R Reynders
Dr. J F Enslin	Dr. G Tredoux
Prof. F Hodgson	Mr. J R Vegter
Dr. T S Kok	Prof. B Verhagen

The Division Associate Membership is available to all individuals at R200 per annum. Student membership is strongly encouraged and the member fees were set at R50 per annum.

The Division also have Honorary Members whom the Division, through the Executive Committee, honour for outstanding service in the field of ground water. These members also receive Honorary Life Membership for meritorious and outstanding service and dedication to furthering the science and technology of ground water.

Overview 2008 / 2009

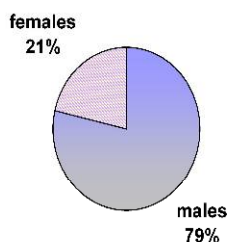
The Division initiated formal membership revision in late 2008. Two membership email campaigns followed in November 2008 and January 2009 respectively. These electronic invitations assisted directly in the establishment of the most current groundwater stakeholder database with approximately 784 identified roleplayers. These internal and external stakeholders form the core of the groundwater fraternity as currently active in southern Africa. The member status of the Division (October 2009) follows:

Please note that member totals exclude the members joined during registration for the 2009 Groundwater Conference.

Total number of persons that expressed interest to join the DIVISION as members after active campaigning: 206

Total number of paid-up members: 98

Current paid-up membership:



Outstanding graph – HDI ratio

Outstanding graph – How many from Organizations/ consultants/ Learning Inst

BRANCHES

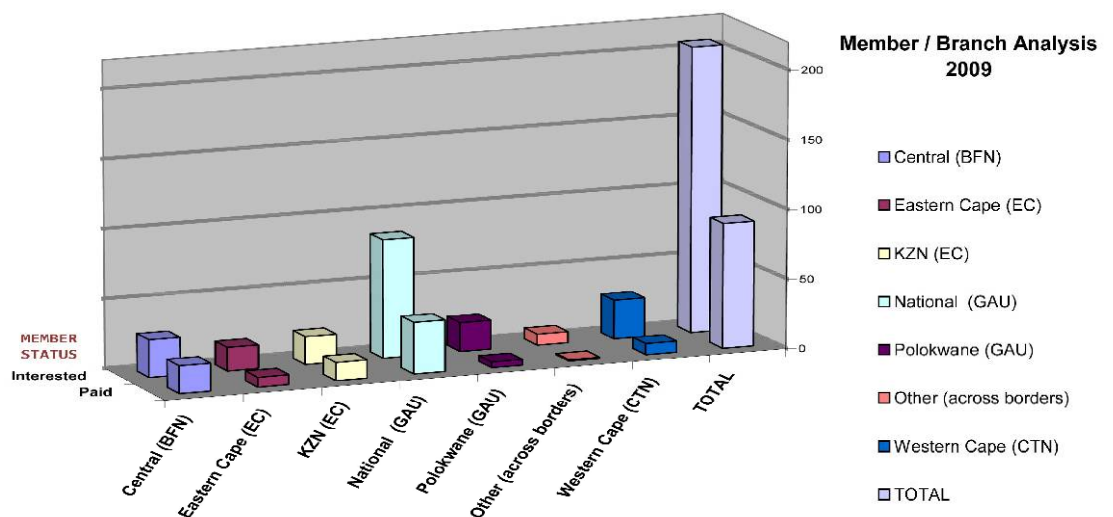
The GWD has four active branches:

- (a) National Branch (Gauteng) draws its members from Gauteng, Mpumalanga and North-West
- (b) Central Branch (Bloemfontein) draws its members from the Free State and Northern Cape regions.
- (c) Eastern Cape Branch draws its members from Eastern Cape and KwaZulu-Natal
- (d) Western Cape Branch draws its members from the greater Western Cape region.

Establishment of Branches

Based on the interest displayed by KZN members and the strong motivation for the possible inauguration of the Groundwater Association of KwaZulu-Natal into the Ground Water Division, the establishment of the KwaZulu-Natal Branch may soon become a 2010 reality.

The formation of a Limpopo Branch is also to be investigated in 2010.



Groundwater Talk, Cape Town Western Cape Branch, 9 Sept 2008

Programme:

Chris Hartnady with a presentation "Deep Artesian Groundwater Exploration for Oudtshoorn Supply (DAGEOS) Project: Drilling and testing at the Blossoms (C1) target site".

Hector Massone (University of Mar del Plata, Argentina) "Aquifer's vulnerability assessment in the Argentina's pampean plain"

Asu Romanelli (University of Mar del Plata, Argentina): Linking nature and society in an analysis of the Pampean wetlands of Argentina.

An Introduction to Groundwater, Eskom Short Course, Midrand, National Branch, 16-18 September 2008

This course was hosted at ESKOM Conference Centre and attended by 18 ESKOM delegates.

Specialists presenters such as Dr. Kai Witthüser, Dr. Kevin Pietersen, Dr. Rian Titus, Dr. Shafick Adams, Mrs. Millicent Solomons presented on the following course topics : Environmental Management, Environmental Law, Aquifer Conceptualization, Principles of Hydrochemistry, Groundwater Exploration and Development, Borehole and Aquifer Testing, Borehole and Aquifer Testing, Introduction to modelling of Groundwater Systems, Groundwater Management (e.g. SAGDT & GRDM) and sources for Groundwater Information.



National Water Act Legislative Review Parliament Cape Town, 22nd October 2008

The GWD (Dr S Adams, Dr K Pietersen) made inputs at the Hearings on National Water Services Act Review on behalf of the South African groundwater sector. Special thank you to all the members that contributed.

Groundwater Talk, Cape Town Western Cape Branch, 19 March 2009

Programme:

Prof Okke Batelaan (Free University Brussels) "Ecohydrology, phreatophytes and groundwater dependent ecosystems.";

Prof Ken Bradbury (University of Wisconsin-Extension) "Human Viruses in Water Supply Wells in Madison, WI" and Dr Nic Robins (British

ACTIVITIES FOR 2008-2009

Geological Survey) "Monitoring and monitoring objectives"

Seminar Mining, Vaal Reefs, Central Branch, 26 March 2009

Programme:

Mr. Graham Hubert (Golder Associates Africa (Pty) Ltd):

"Groundwater and the role in the mining industry - "A consultant's perspective";

Mr. Molefe Morokane (DWA/PTA): "Mining Regulation";

Mr Beric Robinson (Fraser Alexander): "Mega tailings dams -Is this the solution?"

Prof Gerrit van Tonder (Institute for Groundwater Studies): "Groundwater Issues related to mining. Is Ground Water regulation in South Africa in terms of mining effective? A personal view."

An Introduction to Groundwater, Pretoria, National Branch, 19-21 May 2009

This course was hosted at the Council for Geosciences and attended by 23 delegates. The 9 Specialists presenters included Dr Kai Witthüser (WGC), Mr Martin Holland (WGC), Mr Ernst Bertram (DWA/PTA); Dr Abera Tessema (CGS), Mr Jude Cobbing (WGC); Dr Lixiang Lin (CGS), Mr Matthys Dippenaar (UP), Dr Shafick Adams (WRC) and Prof Eberhard Braune (UWC) and presented on the following course topics : Introduction, definitions and hydrological cycle; Aquifer conceptualization, investigation and evaluation; Exploration for ground water; Drilling and borehole construction; Introduction to geophysical exploration; Practical: Ground water movement / Darcy's Law; Principles of hydrochemistry; Isotope Hydrology Borehole and aquifer testing; Practical: Test pump analysis: Case Study; Groundwater management and IWRM; Groundwater Resource Directed Measures; Groundwater Management Aquifer modelling



Groundwater Talk, Pretoria National Branch, 16 Oct 2009

Programme:

Prof E Braune (University of the Western Cape) "Groundwater Capacity - Impacts of WRC Research"

GWD Website launch



FINANCIAL SUMMARY

Looking ahead
2009/ 2010

Each Branch within the DIVISION has a separate bank account and branches have the responsibility to submit annual financial reports to the National Office. All funds raised by the Division are used in the interest of the Division.

The Ground Water Divisions' primary revenue sources include member dues, education courses and the Bi-annual Groundwater conferences. Branches, together with support from National Office -if requested, initiate events/ courses/meetings to the benefit of their regional only or national members.

Over the past year (2008/09) the total GWD capital reported by each branch for Financial Year March 2008 to 28/29 February 2009 were:

Central Branch (BFN)

Opening Balance March 2008	R 221,900.71
Total revenue	R 267,679.45
Total expenses	R 417,607.83
Account Balance Feb 2009	R 71,972.33

Capital Balance 2008/2009: R 71,972.33

Western Cape Branch

Opening Investment balance	R 71,028.67
Opening Balance March 2008	R 3,918.00
Total revenue (interest invest)	R 6,046.61
Total expenses	R 1,720.13
Account Balance Feb 2009	R2, 297.25
Investment Balance Feb2009	R 77,075.08

Capital Balance 2008/2009: R 79,372.33

Eastern Cape Branch

Opening Balance March 2008	R 00.00
Total revenue	R 6, 000.00
Total expenses	R 41.76
Account Balance Feb 2009	R 5,958.24

Capital Balance 2008/2009: R 5,958.24

National Branch (GAU)

Opening Balance March 2008	R 275,784.75
Total revenue:	R 213,641.80
Total expenses:	R 203,417.10
Account Balance:	R 286,033.00

Capital Balance 2008/2009: R 286,033.00

NOTE: A full audited financial statement will be made available to all members on the GWD website.

Groundwater Conference 2009

Groundwater Conference 2009 is being held in Somerset West, November 2009. We are extremely grateful to the organising committee of this conference. They have put in a huge effort and needs to be congratulated.

The Conference Organising Committee is:

Shafick Adams
Christine Colvin
Roger Diamond
Candice Lasher
Jaco Nel
Roger Parsons
Kornelius Riemann
John Weaver
Glaudin Kruger (Coordinator)

The International Groundwater Conference 2011 will be held in Gauteng.

Appointment of National GWD EXCO 2010

Field School 2010, Bloemfontein

National and Central Branch join forces in hosting this first practical Field School at the University of the Free State from 24-27 Feb 2010. Advertised on the GWD website, this event already drew huge interest. It is heartening to see the response from DWA officials.

Planned 2010 GW Courses

February 2010 – Field School, Central Branch
Bloemfontein Level: Intermediate (Practical)

April 2010 – Introductory GW - Level : Basic / Intermediate: Gauteng

June 2010 – Introductory GW – Level: Basic / Intermediate: Eastern Cape / KZN

August 2010 – – Introductory GW –Level: Basic / Intermediate: Western Cape

October 2010 – Ground Water I – Level: Advanced: Gauteng (Specialised)



More



GROUND WATER DIVISION CONSTITUTION AND RULES

1.00 THE DIVISION

- 1.01 The name of this specialist division of the Geological Society of South Africa shall be the Ground Water Division, hereafter referred to as the "Division".
- 1.02 The administrative office of the Division shall be the office of the Geological Society of South Africa or in such other place as the Executive Committee of the Division may from time to time decide.
- 1.03 The objective of the Division is the advancement of the science and technology of ground water.

2.00 MEMBERSHIP

- 2.01 The Division shall consist of Honorary, Ordinary, Affiliate, Associate and Student members.
- 2.02 Honorary Members shall be individuals whom the Division, through the Executive Committee, desires to honour for outstanding service in the field of ground water. In addition, the Division may confer Honorary Life Membership on members for meritorious and outstanding service and dedication to furthering the science and technology of ground water.
- 2.03 Ordinary Members shall be Corporate Members of the Geological Society of South Africa whose subscriptions to both the Society and the Division are fully paid.
- 2.04 Affiliate Members shall be Corporate Members of any other member society of the Associated Scientific and Technical Societies of South Africa whose subscription to both their society and the Division are fully paid.
- 2.05 Associate Members shall be members of the Division who are not Corporate Members of the Geological Society of South Africa or any other member society of the Associated Scientific and Technical Societies of South Africa and whose subscriptions to the Division are fully paid.
- 2.06 Student Members shall be bona fide students who are registered at a recognised institution for higher education and who are under the age of 26.
- 2.07 All Honorary, Ordinary, Affiliate and Associate Members shall collectively form the Corporate Membership of the Division and be referred to hereunder as "Members".
- 2.08 Voting rights shall be limited to Members of the Division.



3.00 EXECUTIVE COMMITTEE

- 3.01 The Executive Committee of the Division shall consist of a Chairman, a Vice Chairman, an Honorary Secretary, an Honorary Treasurer and two (2) additional members.
- 3.02 The Executive Committee shall be drawn from Members of the Division only.
- 3.03 All Members will be eligible for election provided that such individuals undertake to regularly attend meetings of the Executive Committee.
- 3.04 The Executive Committee shall be elected by Members of the Division.
- 3.05 The term of office shall be two (2) years and shall not exceed two (2) consecutive terms of office. Further, it is required that each member of the Executive Committee shall retire at the end of his/her first term of office but shall be eligible for a second consecutive term.
- 3.06 A notice calling for nominations for the Executive Committee shall be sent to the Members of the Division not later than 30 November annually.
- 3.07 All nominations duly signed by a proposer and a seconder, both of whom must be Members, shall be lodged not later than 31 December of the same year with the Honorary Secretary of the Division.
- 3.08 Provided that the number of nominations exceeds three (3), the Executive Committee shall forward a ballot list of valid nominations to all Members at least 30 days prior to the Annual General Meeting of the Division.
- 3.09 Duly completed ballot lists shall be returned to the Honorary Secretary of the Division to reach him/her not later than ten (10) days before the Annual General Meeting of the Division.
- 3.10 Votes shall be cast for not more than three of the nominees.
- 3.11 The Executive Committee shall appoint office bearers from amongst its duly elected members.
- 3.12 Office bearers and members of the Executive Committee shall hold office until the names of their successors have been announced at the Annual General Meeting.
- 3.13 The duties of the Executive Committee shall be to manage the affairs of the Division in the interest of the Members of the Division and in accordance with its own Constitution and Rules and the Constitution and Bylaws of the Geological Society of South Africa.
- 3.14 A quorum of the Executive Committee shall comprise three (3) members.



- 3.15 In the event of a vacancy occurring on the Executive Committee, the nominee who received the next highest number of votes after the elected members in the previous election shall be invited to serve on the Committee and, if declined, this invitation shall be extended to the next nominee qualifying on this basis.
- 3.16 Should no nominee of the previous election be available, the Executive Committee may, at its discretion, either continue with a reduced membership (provided that the quorum requirement is satisfied) or alternatively call for an election to fill the vacancy.
- 3.18 The Chairman of the Executive Committee or an alternate member of the Committee shall represent the Division on the Council of the Geological Society of South Africa.

4.00 ANNUAL GENERAL MEETING

- 4.01 The Annual General Meeting of the Division shall take place within the first quarter of each year to consider the Chairman's Report, the Financial Statement, to announce the names of the newly elected members of the Executive Committee and to conduct any other business allowed by the Chairman.
- 4.02 A quorum shall be ten (10) Members.
- 4.03 Members shall be notified of the meeting at least 21 days in advance thereof by the Honorary Secretary.

5.00 EXTRAORDINARY GENERAL MEETINGS

- 5.01 Extraordinary General Meetings may be called at any time by the Council of the Geological Society, by the Executive Committee of the Division or by a petition signed by not less than ten (10) Members provided that 21 days notice is given by the Honorary Secretary to the Members.
- 5.02 The nature of the business and resolutions to be considered shall be sent to Members with the notice of the Extraordinary General Meeting.

6.00 FINANCE

- 6.01 Membership dues shall be set by the Executive Committee.
- 6.02 All funds raised by the Division shall be used in the interest of the Division.
- 6.03 The financial year shall run from 1st March to 28/29th February.

7.00 BRANCHES

- 7.01 The Division, through the Executive Committee, may establish Branches of the Division on the request of Members in regions where this is considered feasible/desirable/appropriate.
- 7.02 A Branch shall be represented by a Member based in the region.



- 7.03 The Branch representative shall be elected by Members of the Division.
- 7.04 The term of office shall be two (2) years and shall not exceed two (2) consecutive terms of office. Further, it is required that a Branch representative shall retire at the end of his/her first term of office but shall be eligible for a second consecutive term.
- 7.05 A notice calling for nominations for a Branch representative shall be sent to Members not later than 30 November annually.
- 7.06 All nominations for a Branch representative, duly signed by a proposer and a seconder (both of whom must be Members), shall be lodged not later than 31 December of the same year with the Honorary Secretary of the Division.
- 7.07 Provided that the number of nominations exceeds one (1), the Executive Committee shall forward a ballot list of valid nominations to Members at least 30 days prior to an Annual General Meeting of the Division.
- 7.08 Duly completed ballot lists shall be returned to the Honorary Secretary of the Division to reach him/her not later than ten (10) days before an Annual General Meeting of the Division.
- 7.09 Votes shall be cast for not more than one (1) of the nominees.
- 7.10 A Branch representative shall hold office as an ex officio member of the Executive Committee until the name of his/her successor has been announced at an Annual General Meeting.
- 7.11 The Branch representative shall keep an updated register of all Branch members.
- 7.12 The Branch representative shall keep a financial record of income and expenditure related to all activities of the Branch. This shall form the basis of a Financial Statement to be provided the Honorary Secretary of the Division together with a Branch Representative's Report for tabling at an Annual General Meeting.
- 8.00 GENERAL
- 8.01 Alterations or additions to the Constitution of the Division shall be made only if seventy five percent (75%) or more of the votes cast by Members voting by post, are in favour of the amendments.
- 8.02 On dissolution of the Division, any assets left after settlement of debts shall be transferred to the successor organization.



- 8.03 The Executive Committee may prepare Rules for the conduct of the business of the Division.
- 8.04 The Honorary Secretary of the Division shall keep an updated list of Members.
- 8.05 The Executive Committee may from time to time award a medal (the Ground Water Medal), a Certificate of Merit or any other award to any individual or organization that, in the opinion of the Executive Committee, has made a significant contribution to the advancement of the science and technology of ground water. These shall be presented at a suitable occasion to be decided by the Executive Committee.

RULES

1. An application for admission as Member shall be made on the prescribed form, proposed and seconded by two (2) Members, and forwarded to the Honorary Secretary.
2. Every membership applicant shall be duly notified by the Honorary Secretary when accepted but shall only be confirmed as Member on payment of the duly applicable subscription fee to the Division.
3. Any member of the Executive Committee who does not demonstrate reasonable and regular attendance of Executive Committee meetings shall be expected to resign from office.
4. Members of the Division shall notify the Honorary Secretary and/or the Honorary Treasurer in writing of any change of address.
5. Annual subscription fees shall become due in advance on 1st March of each year and payable within 30 days.

2004

Review pending 2010

