



THE GROUND WATER DIVISION
Annual Report to the Membership
2010

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.

Brief History

The Ground Water Division was established in 1978 by members of the groundwater community of South Africa and the then 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

The Executive Committee of the Division consists of a Chairperson, a Vice Chairperson, a Secretary, a Treasurer and two (2) additional members.

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 during the 2009 election year the newly elected office bearers for 2010 were appointed.

2010 Office Bearers: Ground Water Division (GWD) of the Geological Society of South Africa.

- Dr Shafick Adams (Water Research Commission) - Chairperson National Branch
- Ms Nancy Motebe (Department Water Affairs) – Vice Chairperson National Branch
- Mr Khangweleni Fortress Netili (Council for Geoscience) - National Treasurer
- Ms Elanda Botes (Hydro Holistics) – National Secretariat
- Mr Matthys Dippenaar (University of Pretoria) – newly co-opted EXCO member 2010

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

- Mr Gawie van Dyk – Central Branch Chair (Dr Jennifer Pretorius – Secretary)
- Mr Gert Nel – Eastern Cape Branch Chair (newly elected) (Ms Charon Swarts – Secretary)
- Mr Jaco Nel – Western Cape Branch Chair (Mr John Weaver – Treasurer)



Membership

The Division Associate Membership is available to all individuals at R200 per annum. In 2010, the DIVISION waived Student membership fees in order to encourage student participation.

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

The Division have a total of 11 honorary members:

Prof. J Botha	Dr. K L Morton	Prof. G van Tonder
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	

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

The EXCO investigated the establishment of a GWD KwaZulu-Natal Branch in 2010. Discussions with the already active Groundwater Association of KwaZulu-Natal for a possible merger in order not to duplicate regional efforts, concluded that close support and collaboration between the Association and the Division will continue in their separate capacity.

The formation of a Limpopo Branch is also to be investigated in 2011.

Overview 2008 / 2009

The Division initiated a formal internet member database in 2010. Member profiles were uploaded on the GWD website where members can now access their personal details and thus ensure updates of contact details to be able to receive regular news items and notices.

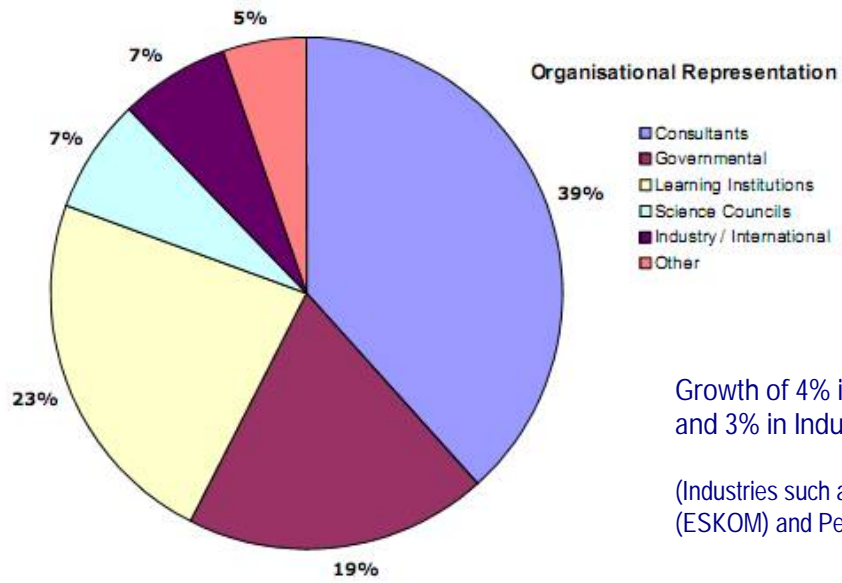
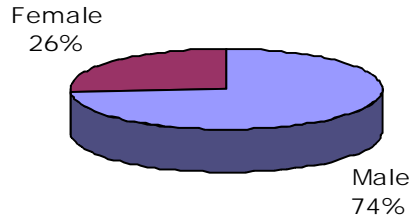
The member status of the Division is as follows:

	2010	2009
Total number of paid-up members	246	90
Total number of registered but non-paid up members	37	206



Paid-up membership:

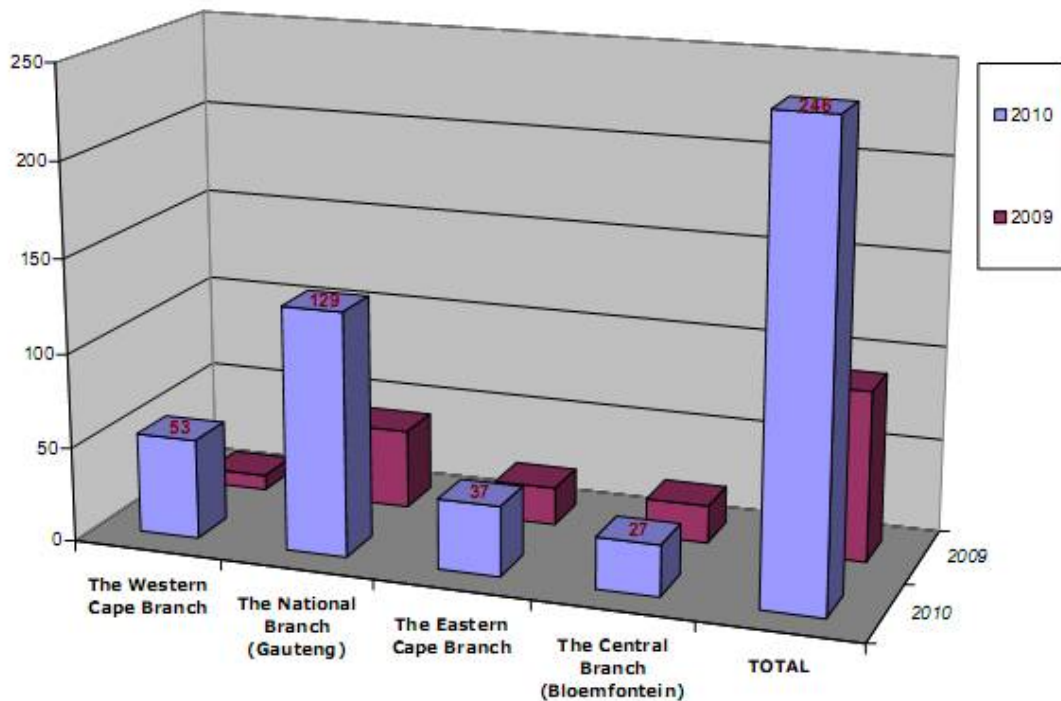
Increase of 5% in female membership



Growth of 4% in Governmental and 3% in Industry membership

(Industries such as in Mining, Energy (ESKOM) and Petroleum sectors)

Membership / Branches



Activities for 2010

Groundwater Field School

University of the Free State (UFS), Institute for Groundwater Studies (IGS)

National and Central Branch, 22-25 February 2010

The main objective of this 4-day short course was to teach participants the basic theory of groundwater in an easy and understandably way with emphasis on practical hands-on-experience.

- Linkage of the general geology of SA to groundwater occurrences (borehole yields, rainfall/recharge, aquifer parameters, fractures/faults, groundwater flow and other general characteristics)
- ABC of groundwater hydraulics and hydrochemistry: Groundwater dictionary
- Groundwater sampling and monitoring: type of pumps, drilling methods, borehole development
- Siting of boreholes (geophysical, magnetic, resistivity, EM, gravity)
- Practicals: Geophysics; slug test, step test, constant rate pumping test: estimation of the sustainable yield of boreholes and estimation of T and S as well as recharge

Specialist presenters such as Dr Ingrid Dennis, Prof Gerrit van Tonder, Dr Rainier Dennis and Dr Danie Vermeulen hosted this successful Field School with 15 attendees from across South Africa.

An Introduction to Groundwater,

Villa Jana & Department of Water Affairs

National Branch, 19-21 May 2010

This course was hosted at Villa Jana (Day 1 & 2) and at the Department of Water Affairs (Day 3) and attended by 24 delegates. The 3rd day attendees included 15 invited DWA delegates.

The 12 Specialist presenters namely Dr Kai Witthüser (WGC), Mr Martin Holland (WGC), Mr Ernst Bertram (DWA); Dr Abera Tessema (CGS), Dr Lixiang Lin (CGS), Mr Matthys Dippenaar (UP), Dr Shafick Adams (WRC), Prof Eberhard Braune (UWC), Mr Siep Talma (Private Consultant), Mr Eddie v Wyk (DWA), Ms Nancy Motebe (DWA) and Ms Milicent Solomons (SEF) presented on a range of course topics such as Groundwater: Introduction, definitions and hydrological cycle, Aquifer conceptualization, investigation and evaluation; Aquifer modelling & Conceptual Models; Borehole and aquifer testing; Principles of hydrochemistry; Isotope Hydrology; Introduction to geophysical exploration; Resource Directed Measures; Groundwater Management; Resource Directed Measures–In practice; Groundwater Resource Assessments and Monitoring Groundwater Assessment in EIA/EMP.



Central Branch, 6 October 2010

28 UFS IGS students were hosted by AngloGold Ashanti (AGA) on 6 Oct 2010 on an underground visit to Margaret shaft and AGA Vaalriver surface facilities to discuss groundwater underground drainage and surface shallow seep.

Other 2010 highlights

New Logo / Corporate Image update: The Ground Water Division introduced its new logo to membership in September 2010. This updated corporate image launch ran consecutively with the distribution of the 1st announcement/ Call for papers of the September 2011 International Groundwater Conference to be hosted in Pretoria, CSIR ICC.

Financial Matters

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 (2010) the total GWD capital reported by each branch for Financial Year January 2010 to November 2010 are:

Central Branch (BFN)

Opening Balance Jan 2010	R 127,969.69
Total revenue	-
Total expenses	R 286.49
Account Balance Nov 2010	R 128,256.18

Capital Balance 2010: R 128,256.18

Western Cape Branch

Opening Investment balance Jan 2010	R 31,732.00
Total revenue (refund GWC09) – Invest Acc	R 55,000.00
Revenue share of profit (50%)	R 90,642.00
Investment Account Balance Nov 2010	R 177,374.00
Current Account Balance Nov 2010 (est)	R 1,287.68

Capital Balance 2010: R 178,661.68

Eastern Cape Branch

Opening Balance Jan 2010	R 4,558.19
Total revenue	-
Total expenses	R 562.00
Account Balance Nov 2010	R 3,996.19

Capital Balance 2010: R 3,996.19

National Branch (GAU)

Opening Investment balance	R 200,597.53
Opening Balance Jan 2010	R 131,052.04
Total revenue:	R 178,258.90
Total expenses:	R 169,734.01
Account Balance Nov 2010:	R 143,382.93
Investment Balance	R 212,880.66

Capital Balance 2010: R 356,263.59



Looking Ahead 2011

- Groundwater Conference 2011



This will be an international conference and follows on the very successful GWD biennial conference held in Somerset West in 2009, but this time around, it is exciting to have the participation by the International Association of Hydrogeologists who will be holding their IAH Council and Commission Meetings during the course of the conference. 500 delegates from South Africa and overseas are confidently expected to attend. The 1st Announcement and Call for Papers had been widely distributed and we call on all members to remember to submit their abstracts before 10 January 2011.

A number of side-events are also planned for this conference, such as: A pre-conference Introductory Course on Geohydrology; Workshops on Analytical element modelling and Groundwater Licensing as well as 1-day and 2 day post-Conference field-trips.

MEMBERS OF THE CONFERENCE ORGANISING COMMITTEE : Shafick Adams; Nancy Motebe; Christine Colvin; Jude Cobbing; Ingrid Dennis; Matthys Dippenaar; Elanda Botes; Fortress Netili; Kevin Pietersen; Kornelius Riemann

APPOINTED CONFERENCE ORGANISER: Cilla Taylor

CONFERENCE WEBSITE: <http://www.gwd.org.za>

- Field School 2011, Bloemfontein

National and Central Branch join forces in hosting this 2nd practical Field School at the University of the Free State from 24-27 Feb 2011. Advertised on the GWD website, this event already drew huge interest

- Other planned 2011 Activities

Central Branch

First quarter seminar and committee election planned.

ECape Branch

1-2 day groundwater seminar for SAICE and various municipalities.

National Branch

Improved linkages to other organisations and branches of the WISA and the GSSA.

The establishment of a Student Chapter

Student bursary scheme by the GWD

Possible visit by Darcy lecturer, Prof Siliman, 2011!

Conclusion

The year under review has seen a significant drop in the activities of all the branches. This is mainly due to very busy schedules and an indication of the health of the groundwater industry. However, to build vibrancy within our little community we need to engage with each other through various fora facilitated by the branches of the Ground Water Division. We will engage the various branches to reconstitute themselves in achieving this goal.

On a more positive note the organisation of the upcoming 2011 conference is proceeding well. We are currently calling for abstracts; the deadline is 10 January 2011. We are hoping to attract 400-500 local and international delegates. The theme of the conference will be "GROUNDWATER: OUR SOURCE OF SECURITY IN AN UNCERTAIN FUTURE" which is highly relevant at the moment as we see an explosion in groundwater development globally. Groundwater is no more the "Cinderella" of water supply.

This means that we have to deal with a whole new set of challenges and it will definitely expose the lack of capacity at almost all levels. This is where the Ground Water Division must play an active role in creating the platforms for debate and continuous learning; this is also our medium term goal.

Shafick Adams
November 2010



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 January to 31st December to coincide with the Geological Society financial reporting year.
- 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.
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- 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.

