The Academy of Science of South Africa (ASSAf) was inaugurated in May 1996 in the presence of then President Nelson Mandela, the Patron of the launch of the Academy. It was formed in response to the need for an Academy of Science consonant with the dawn of democracy in South Africa: activist in its mission of using science for the benefit of society, with a mandate encompassing all fields of scientific enquiry in a seamless way, and including in its ranks the full diversity of South Africa’s distinguished scientists.


This has made ASSAf the official Academy of Science of South Africa, recognised by government and representing South Africa in the international community of science academies.
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  - External Communication
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  - Corporate Publications
  - Periodical Publications
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- Monitoring and Evaluation
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### Abbreviations & Acronyms

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<th>Full Form</th>
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<tbody>
<tr>
<td>AGM</td>
<td>Annual General Meeting</td>
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<tr>
<td>AJOL</td>
<td>African Journals Online</td>
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<td>ASADI</td>
<td>African Science Academies Development Initiative</td>
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<tr>
<td>AsgiSA</td>
<td>Accelerated and Shared Growth Initiative for South Africa</td>
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<tr>
<td>ASSAf</td>
<td>Academy of Science of South Africa</td>
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<tr>
<td>CHE</td>
<td>Council on Higher Education</td>
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<tr>
<td>COHORT</td>
<td>Committee of Heads of Organisations for Research and Technology</td>
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<tr>
<td>CSfPA</td>
<td>Committee on Science for Poverty Alleviation</td>
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<tr>
<td>CSIR</td>
<td>Council for Scientific and Industrial Research</td>
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<td>CSIRO</td>
<td>Australian Commonwealth Scientific and Industrial Research Organisation</td>
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<td>DoE</td>
<td>Department of Education</td>
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<td>DST</td>
<td>Department of Science and Technology</td>
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<td>HEQC</td>
<td>Higher Education Quality Committee</td>
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<td>HESA</td>
<td>Higher Education South Africa</td>
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<td>HSRC</td>
<td>Human Sciences Research Council</td>
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<td>IAC</td>
<td>InterAcademy Council</td>
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<td>IAMP</td>
<td>InterAcademy Medical Panel</td>
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<td>IAP</td>
<td>InterAcademy Panel</td>
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<td>IBSS</td>
<td>International Bibliography of the Social Sciences</td>
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<td>ICSU</td>
<td>International Council for Science Unions</td>
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<td>ICT</td>
<td>Information and Communications Technology</td>
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<td>ISI</td>
<td>Institute of Scientific Information</td>
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<td>Jipsa</td>
<td>Joint Initiative for Priority Skills Acquisition</td>
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<td>MoA</td>
<td>Memorandum of Agreement</td>
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<tr>
<td>Abbreviation</td>
<td>Description</td>
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<tr>
<td>MoU</td>
<td>Memorandum of Understanding</td>
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<tr>
<td>MRC</td>
<td>Medical Research Council</td>
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<tr>
<td>NACI</td>
<td>National Advisory Council on Innovation</td>
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<td>NECSA</td>
<td>Nuclear Energy Corporation of South Africa</td>
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<td>NEPAD</td>
<td>New Partnership for Africa's Development</td>
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<td>NICD</td>
<td>National Institute for Communicable Diseases</td>
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<td>NRF</td>
<td>National Research Foundation</td>
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<td>NSEF</td>
<td>National Scholarly Editors' Forum</td>
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<td>NSI</td>
<td>National System of Innovation</td>
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<td>NSTF</td>
<td>National Science and Technology Forum</td>
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<td>SAAO</td>
<td>South African Astronomical Observatory</td>
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<td>SAASTA</td>
<td>South African Agency for Science and Technology Advancement</td>
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<tr>
<td>SABINET</td>
<td>Southern African Bibliographic Information Network</td>
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<td>SARUA</td>
<td>South African Regional Universities Association</td>
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<td>SciELO</td>
<td>Scientific Electronic Library Online</td>
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<td>S&amp;T</td>
<td>Science and Technology</td>
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<td>TWAS</td>
<td>Academy of Sciences for the Developing World</td>
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<tr>
<td>UCT</td>
<td>University of Cape Town</td>
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<tr>
<td>UKZN</td>
<td>University of KwaZulu-Natal</td>
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<tr>
<td>UNISA</td>
<td>University of South Africa</td>
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<tr>
<td>UP</td>
<td>University of Pretoria</td>
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<tr>
<td>US NAS</td>
<td>United States National Academies of Science</td>
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<tr>
<td>Wits</td>
<td>University of the Witwatersrand</td>
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<tr>
<td>WRC</td>
<td>Water Research Commission</td>
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Messages

Message from the President
Message from the Executive Officer
The strategic priorities of the Academy were set out in its multi-year strategic plan in 2005, and this Annual Report lays out the ways in which the tasks of achieving ASSAf’s vision and realising its mission were taken further in the past year through activities operationally divided into its four main programmes. The Academy’s strategic priorities are well-matched with those of the nation, focused especially on the urgent need for the greatly enhanced availability of high-level human capital, and the equally important requirement for a much-increased use of the country’s best intellectual expertise in generating policy that is evidence-based and practically feasible.

The ability of South Africa to draw on the experience and knowledge of both developed and (strongly emerging) developing sister countries depends on setting up effective channels and mechanisms by which these assets can be transferred to South Africa without weakening our own capacities, and with marked synergies in respect of other components of our planned growth strategies. National science academies are increasingly recognised as key engines of productive international cooperation, provided their programmes are well aligned with national plans for leverage of international resources to promote our own socio-economic development. ASSAf is committed to partnerships (the Department of Science and Technology (DST), the Department of Education (DoE), the National Research Foundation (NRF), science councils and higher education institutions) in implementing a broad strategy in this area.

In the past year, significant steps were taken to enhance the Academy's capacity in two critical areas: international liaison and publications. In the first case, the participation of the ASSAf President in the annual meetings of the presidents of the national science academies of the so-called 'G8 plus 5' countries (with South Africa included among the world’s five most weighty emerging countries) has given us a voice on a high-impact forum that will undoubtedly become increasingly valuable. ASSAf is a Vice-President of the Network of African Science Academies (NASAC), and a member of the 90-strong InterAcademy Panel (IAP) and candidate-member of the latter's advice-generating InterAcademy Council (IAC).

The second new initiative is to strengthen ASSAf’s capacity to produce well-branded publications that will effectively communicate its messages to many stakeholders throughout the National System of Innovation (NSI) and across a broader front. Apart from a newly launched quarterly newsletter, our consensus and forum reports and a variety of other publications, the Academy is the publisher of the country’s premier scholarly journal (South African Journal of Science) and its acclaimed science magazine (Quest: Science for South Africa).

I would like to pay particular tribute to the contribution that the outgoing Executive Officer, Prof. Wieland Gevers has made to the development of the Academy. He has made this contribution both as the former President of the Academy and subsequently as its first Executive Officer. He has been instrumental in taking the Academy from an honorific learned society to a truly national activist Academy of Science that fulfils the role of offering evidence-based advice to the nation on matters of national concern. He has achieved this by developing a cadre of Academy staff who are able to support the Council and Members in undertaking these important tasks. In addition, he has been the inspiration behind the publication of the highly significant reports that are detailed in his message below.

I would like to thank the staff of the Academy for their dedication to the work of the Academy that has allowed it to undertake the tasks that are reflected in this Annual Report. I would also like to welcome the new Executive Officer, Prof. Roseanne Diab, to the service of the Academy.

My fellow councillors and the office-bearers of the Council are thanked for their wisdom and help in guiding the activities of the Academy during the past year.
Each year of the Academy's short life (it was established in 1996 and recognised by Parliamentary statute in 2001) has been associated with a particular set of milestones essential for the attainment of its vision to be the country's apex organisation for scientific activity in the service of society. The upward trajectory since 2004/05 has been especially remarkable, with the annual expenditure budget rising from about R3 million to just under R10 million in 2007/08. In each year since 2004/05, expenditure has virtually equalled income, and all external audits have been unqualified. ASSAf's partnership with the US National Academies of Science, within the African Science Academies Development Initiative (ASADI), has brought with it an important infusion of best-practice mentoring, as well as project-directed and developmental funding, and has significantly augmented the moral and grant-in-aid support we have gratefully received from Parliament through the Department of Science and Technology (DST).

The key objective of enskilling South Africa's new generation of researchers requires comprehensive reform of the country's publishing system, as proposed in ASSAf's 2006 report on research publishing in the country. Greater rigour, international standards, and a vibrant and sustainable local publishing system can be achieved in a few years. This will dramatically improve the morale and real productivity of the talented people who can contribute to economic growth through educational advancement and direct research-based solutions for key problems constraining growth and development.

The national science academies of many countries have started to play an increasingly significant role in generating high-level, policy-directed advice to their governments and societies generally. By developing professional expertise in mobilising the country's best experts across many disciplines and institutions, managing effective processes of reaching best consensus without vested interests supervening, and framing advisory reports that are both authoritative and directed at effective implementation, a unique type of contribution can be made that provides government and other stakeholders with the most reliable and useful advice on matters that require scientific insight and analysis of context-related evidence. The skills of existing and future knowledge-workers can be enhanced and their potentially enormous contributions to national growth and development effectively and productively consolidated.

South Africa's post-apartheid democratic development has been hampered by the continued existence of baggage from the past, sectorally fragmented system. It is for this extremely important reason that South Africa has an “apex organisation” for the recognition and mobilisation of outstanding scholarship, which is perceived as such by the entire society, and provides a strong aspirational incentive to all who have the talent and commitment to achieve great things through scientific enquiry and investigation, performed within rather than outside the country. ASSAf is now concentrating its efforts on conveying this message to all relevant sectors, and through its evolving track record to forge a broad identification of the country's scholarly leaders with itself, as a priority organisation and effective channel for national contributions based on, and maximally using, the highest level of knowledge and expertise.

A hallmark of national science academies is their operational independence of government, while working closely and constructively with this and other sectors, and raising and accepting funding providing this does not interfere with its unique niche of merit-based and multi-disciplinary functioning in the national interest. ASSAf still urgently needs further to strengthen its capacity to raise funds from diverse but appropriate sources, both to expand its operations and to safeguard its independence.
In the past year, the first of three significant milestones was traversed in that the governance model under the ASSAf Act was consolidated, with the systematic adoption of no fewer than 11 new Regulations to streamline most of the regular functions and the formation of a Finance Group to assist both the Council and the Executive Officer and his staff.

The second milestone was the release in July 2007 of the first ASSAf consensus report produced entirely within the methodological framework set up to enable independent, evidence-based, multi-perspective and implementable advice to be generated for the nation and its government. The ASSAf report on *HIV/AIDS, TB and Nutrition* has aroused considerable national, even world-wide interest, addressing as it does one of the most controversial and problematic aspects of public policy in relation to the two most serious pandemics afflicting our society.

The third milestone was the full elaboration of the Scholarly Publishing Programme of the Academy, marked by the decision of the DST to provide multi-year contract funding for the ASSAf-led implementation of the ten recommendations of the 2006 advisory ASSAf Report on journals, and the request by the DoE for a follow-up consensus study on books and book chapters published in, and from, South Africa. This project is an essential component of the current drive to augment the national capacity to promote national development through the urgent augmentation of high-level scientific, scholarly and technological capacity.

The Academy's activities require a cadre of full-time staff which performs demanding work in support of the panels which carry out consensus studies and the standing committees which organise open forums. These two kinds of Academy bodies reflect contrasting and complementary methodologies which may for convenience be called the 'long route' and the 'short route' to the generation of policy advice based on available evidence properly gathered and interpreted. Panels comprise experienced scholars from a wide variety of disciplines and perspectives and take time privately to prepare peer-reviewed reports that reflect the best-possible consensus on the topic in hand. Open forums, on the other hand, bring together experts from many areas, as speakers and discussants, to identify the most important unresolved issues and to generate, if possible, the best-possible consensus recommendations that can be agreed upon on the day, or through further consultation. Open forums can also identify topics on which consensus panels might usefully provide fully motivated findings and recommendations, and sometimes, consensus panels use one-day open forums to explore particularly problematic areas of their work.

Academy staff requires special training and mentoring before they can effectively perform their work. We are beginning to have to face the challenge of retaining our staff whose skills are much in demand and are addressing it through a combination of structural re-organisation, improved remuneration and career development.

I have been involved with this Academy for nearly two decades, starting with 'talks and talks' between different bodies, followed by the writing of a plan to form a new science academy for a democratically transformed country. We then had to settle a number of key debates about the advantages of inclusiveness in respect of all disciplines which use empirical enquiry (as opposed to just the natural sciences), and about moving from mainly honorific functions to 'national service' functions, such as ASSAf is now engaged in performing in an ever-increasing way. I led the group that drafted the ASSAf Constitution, which was adopted in 1995, and was elected to the first Council in 1996. I served as President from 1998 to 2004, much time being spent on getting the ASSAf Statute through Parliamentary processes, and making application for an 'intense partnership' with the US National Academies within ASADI, as mentioned briefly above. These have been truly exhilarating years, and (I sincerely hope) have materially helped to add a significant and robust new institution to the national system.
With my departure from the post of Executive Officer (taken up in late 2004), I am handing over with confidence the next phase of the Academy’s development to my successor, Prof. Roseanne Diab. A Member of ASSAf, she is a senior professor and academic leader at the University of KwaZulu-Natal, with multi-disciplinary interests in atmospheric science and applied meteorology, and air-quality management in South Africa. Before taking office, she had already become acquainted with Academy matters through her membership of the ASSAf Committee on Science for the Alleviation of Poverty and of the Editorial Board of the South African Journal of Science.

I wish to express my grateful thanks to the ASSAf President, Prof. Robin Crewe, who has ably led the Council since 2004 and who, with the various Councils under whom I have served, has strongly supported me and the ASSAf staff in ‘growing and enabling’ the organisation. My warm thanks are also extended to the Hon. Minister of Science and Technology, Dr. Mosibudi Mangena, who has been both interested in, and generously supportive of the Academy’s development and activities and to Dr. Phil Mjwara and his staff in the Department of Science and Technology, of whom the same can fairly be said. All our other partners, collaborators and stakeholders are also collectively thanked for smoothing the path of establishing a young, but highly contributory national science academy for this hopeful nation.
Academy of Science of South Africa: An Introduction

ASSAf’s Strategic intent
ASSAf’s Vision
ASSAf’s Mission
ASSAf’s Objectives
ASSAf’s Values
The Academy of Science of South Africa (ASSAf), in its unique position as the only national science academy to be officially recognised by the South African government via the passing of the ASSAf Act, Act. 67 of 2001, is tasked with providing direction, investigating and generating evidence-based advisories on issues of public interest as they relate to scientific research. ASSAf regularly publishes its findings and recommendations and also acknowledges the achievements of South African scientists in order to develop the intellectual capability of the nation and promote innovative scientific thinking. The Academy enjoys regular interaction and knowledge exchange with other national science academies throughout the African continent, and in particular through partnerships within the Southern African Development Community (SADC) and other African regions, as well as the global scientific community.

ASSAf's Strategic Intent

The Academy will be acknowledged, both nationally and internationally, as a credible, professional and respected collective voice representing the national interests of the sciences, to policy and decision-makers, the private sector, science community and the general public.

ASSAf's Vision

ASSAf aspires to be the apex organisation for science and scholarship in South Africa, internationally respected and connected, its membership simultaneously the aspiration of the country’s most active scholars in all fields of scientific enquiry, and the collective resource making possible the professionally managed generation of evidence-based solutions to national problems.

ASSAf's Mission

Clarifying the niche of the Academy

Like democratic South Africa in general, ASSAf aspires to play both a national and an international role, particularly with respect to the African continent. We see the Academy as usefully at arms length from the government and other organised sections of the state, comprising an assembly of excellent scholars from many disciplines who are well networked both nationally and internationally, and have shown their interest in, and capacity for promoting the development of a prosperous and a fully enabled society. Membership of the Academy (by election) is both an honour and an obligation to work individually and collectively (as the Academy) to ensure that decision-making requiring scholarly scrutiny and analysis is based on the best and most integrated understandings and insights available to the country. The Academy thus represents an organised, independent, but responsive scholarly voice to help guide the development of the country and its people.
ASSAf’s Objectives

The key objective of the Academy is to promote and apply scientific thinking in the service of society. To this end, the Academy shall:

1. use the common ground of scientific knowledge and activity to remove barriers between people and obstacles to full development of their intellectual capacity;

2. endeavour in every possible way to inspire, promote and recognise excellence in scientific and technical practice;

3. investigate and publicly report on various matters, in its own discretion or at the request of government or organisations in civil society, in order to promote and apply scientific thinking in the service of society;

4. promote science education and a culture of science in the population at large;

5. maintain strict independence while consulting other organisations and individuals in the widest manner possible;

6. endeavour to establish and develop close relations with scientific organisations in South Africa and with similar academies in other countries; and

7. take any other action that it may consider as necessary towards the attainment of its key objective.

ASSAf’s Values

• Remain independent of government and sectoral lobbies.
• Use best-available evidence and scientific knowledge as drivers towards generating recommended solutions to national problems.
• Apply multi-disciplinarity and consilience in approach.
• Adhere to the highest ethical and moral standards.
• Recognise the essentially developmental nature of our society and the importance of the natural environment, both for their own sake and from a human and utilitarian perspective.
Governing Body: ASSAf Council

Council Composition
Office-Bearers
- President and Chairperson of ASSAf Council
- Vice-Presidents of ASSAf Council
- General Secretary of ASSAf Council
- Treasurer of ASSAf Council

Advisors to the Council

ASSAf Council Members

ASSAf Council Role & Function

ASSAf Council Evaluation & Performance

Record of Attendance at Council Meetings

ASSAf Council Remuneration of Members

ASSAf Council Committees
**Governing Body:**

**ASSAf Council**

ASSAf is governed by a Council, chaired by the President of the Academy. The Council comprises 13 Members, 12 of whom are elected, and one of whom is appointed by the Minister of Science and Technology as representative of the Department's National Advisory Council on Innovation (NACI). During 2007/08, Council Members were supplied with all relevant information and records, including an access-restricted online 'Council Membership' repository on the Academy's website, in order to facilitate the execution of their responsibilities.

The Academy's activities during 2007/08 were determined by the ASSAf Act, Act. 67 of 2001. A total of 11 new Regulations were developed and approved by Council at the Annual General Meeting of Academy Members in October 2007 to ensure the efficiency and effectiveness of all Academy activities. The Regulations are currently awaiting approval and gazetting by the Minister of Science and Technology.

The Council's objectives for 2007/08 included the following:

- acceptance of full fiduciary responsibility for the Academy's reputation, integrity and financial probity;
- effective control and leadership of the Academy and responsible, transparent and participatory governance of Academy affairs;
- further development of the Academy in terms of its national role;
- maintenance of effective partnerships;
- mobilisation of ASSAf's Membership base in Academy activities;
- maximum support for Council from ASSAf Secretariat staff;
- reporting performed timeously and according to specifications;
- establishment of a quorum or better at each Council meeting and wide distribution of task load among Council Members;
- compliance with the Public Finance Management Act and rendering of an unqualified audit;
- compliance with relevant laws and regulations;
- strategic direction given to ASSAf activities and approval and monitoring of the implementation of the Academy's business plan;
- reviewing of Academy performance areas and operational and strategic management.

**Council Composition**

The 13-Member ASSAf Council was assisted in discharging its responsibilities through the following five office-bearers:

- President and Chairperson, as Head of the Academy and Accounting Officer;
- Vice-President (two), with respective statutory and assigned responsibilities;
- General Secretary, with respective statutory and assigned responsibilities; and
- Treasurer, with respective statutory and assigned responsibilities.
From the governing body, strategic guidance is filtered through the Academy’s General Secretary via business planning, for the delivery of stakeholder-centric products and services.

From the ASSAf Secretariat, the ASSAf Council was assisted by the following position-holders in effectively carrying out its statutory duties:

- Executive Officer, as Executive Head of the ASSAf Secretariat, responsible for support to Council and its respective office-bearers; and
- Financial Manager, for the financial functions assigned by contract.
Office-Bearers
President and Chairperson of ASSAf Council

Prof. Crewe is Vice-Principal of the University of Pretoria (UP). He obtained degrees in Chemistry and Biochemistry at the University of Natal in Pietermaritzburg. He was awarded a PhD in Entomology from the University of Georgia, USA, where he developed an interest in chemical communication and social organisation in social insects. He is the former Director of the Communication Biology Research Group, University of the Witwatersrand (Wits), a position which he held for a 10-year period. In addition, he was Dean of the Faculty of Science at Wits and then Dean of Natural and Agricultural Sciences at UP.

Prof. Crewe has been active in the development of professional registration of natural scientists and the promotion of learned scientific societies. He was recently elected as President of the Entomological Society of Southern Africa. Prof. Crewe’s accolades include a Gold Medal from the Zoological Society of South Africa, honorary membership of the International Federation of Beekeepers’ Associations (APIMONDIA), and he is a fellow of the Royal Entomological Society. Prof. Crewe is also an active member of two academies of science and a Chevalier de l’Ordre National du Mérite (France).

Vice-Presidents of ASSAf Council

Prof. Berjak is Professor Emeritus and Senior Research Associate of the University of KwaZulu-Natal. She is a Fellow of the former University of Natal and of the Academy of Sciences for the Developing World (TWAS).

Prof. Jansen is Professor of Curriculum Studies and formerly the Dean of the Faculty of Education at the University of Pretoria. He was previously appointed as the Administrator of the Durban University of Technology.

General Secretary of ASSAf Council

Prof. Khotse is Visiting Professor of Comparative Education at Seton Hall University, New Jersey, USA. He was Deputy Vice-Chancellor at the Free State University in Bloemfontein.

Treasurer of ASSAf Council

Prof. Vale is Nelson Mandela Professor of Politics in the Department of Political and International Studies at Rhodes University. He was previously Director of Research at the South African Institute of International Affairs.
Advisors to the Council

The appointment of advisors to ASSAf's Council is executed in terms of Draft Regulation 8 of the Academy of Science of South Africa. During 2007/8, ASSAf's Council appointed one special advisor, Prof. Sunil Maharaj, to make appropriate recommendations to the Academy in respect of the financial management of its activities.

Prof. Maharaj holds a National Research Foundation (NRF) Research Chair in the School of Mathematical Sciences at the University of KwaZulu-Natal.

ASSAf Council Members

Dr. Adam is Chief Executive Officer of the Nuclear Energy Corporation of South Africa (NECSA). He previously served as Director-General of the Department of Science and Technology (DST).

Prof. Hellberg is Emeritus Professor of Physics and Senior Research Associate at the University of KwaZulu-Natal. He was Professor and Head of the Department of Physics, Dean of Science and was twice Pro Vice-Chancellor at the University of KwaZulu-Natal.

Prof. De Klerk is Professor and Dean of Students at Rhodes University. She served as President of the Linguistic Society of Southern Africa.

Prof. Manganyi is Chairman of the Council on Higher Education (CHE) and was Vice-Principal of the University of Pretoria. He has been Vice-Chancellor of the University of the North, now University of Limpopo, and Director-General in the Department of Education.
Prof. Ncayiyana is honorary Professor of Obstetrics and Gynaecology at the Universities of Cape Town and KwaZulu-Natal. He serves as Advisor to the President of the Human Sciences Research Council (HSRC). He was Vice-Chancellor at the Durban University of Technology, Deputy Vice-Chancellor at the University of Cape Town and Acting Vice-Chancellor at the University of Transkei.

Prof. Petersen is Dean of the Faculty of Engineering and Built Environment at the University of Cape Town. He was Head: Strategy at Anglo Platinum Corporation and a former Executive Vice-President: R&D at Mintek.

Prof. Reddy is Professor and Director: Health Promotion Group, at the Medical Research Council (MRC).

Prof. Volmink is Professor of Community Health in the Faculty of Health Sciences, Deputy Dean (Research) of the University of Stellenbosch and is Director of the South African Cochrane Centre.

ASSAf Council Role & Function

As the Accounting Authority of the Academy, the ASSAf Council is governed in terms of the stipulations of Chapter 6 of the Academy's Parliamentary Act, Act. 67 of 2001. As such, the Council is responsible for ensuring that the objectives of the Academy are actively pursued and achieved, within a given reporting period. In addition, the Council manages the overall operations and strategic direction of the Academy.

ASSAf Council Evaluation & Performance

The Council met six times during 2007/08, while generally five meetings are held per annum. Position-holders' attendance of the 2007/08 Council meetings averaged 80% (see record of attendance at ASSAf Council meetings), while the average attendance rate of non-office-bearers was 53.7% (including the Financial Advisor to Council).
Governing Body: ASSAf Council

Record of Attendance at ASSAf Council Meetings

<table>
<thead>
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<th>Number of meetings during 2007/08</th>
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<td>President:</td>
<td>Prof. Crewe</td>
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<tr>
<td>Prof. Crewe</td>
<td>6</td>
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<tr>
<td>Vice-President:</td>
<td>Prof. Berjak</td>
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<td>Prof. Maharaj</td>
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<td>Prof. Maharaj</td>
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ASSAf Council Remuneration of Members

Council Members do not receive payment for their involvement in governing the activities of the Academy. Funds are allocated to cover Council Members' travel and logistic costs associated with Council meetings, in addition to office-bearers' ASSAf-related business costs.

ASSAf Council Committees

Various Council Committees exist to assist the governing body in discharging its responsibilities.

Chapter 8 of the ASSAf Act stipulates that the Council may establish one or more committees which may exercise such powers or perform such functions of the Academy as the Council may determine.

In this respect, in 2007 the ASSAf Council constituted a Finance Group, chaired by a Council Member appointed in an advisory capacity, as per the afore-mentioned Regulation 8. This committee comprising the following Members met once during 2007/08.

**Members:**

President of ASSAf & Chair of ASSAf Council: Prof. Robin Crewe
Executive Officer: Prof. Wieland Gevers
Treasurer, ASSAf Council: Prof. Peter Vale
Chair of the Finance Group & Financial Advisor to ASSAf Council: Prof. Sunil Maharaj
Financial Manager, ASSAf Secretariat: Mr. Morakeng Malatji

A Human Resources Committee was established in 2007 with Members appointed in 2008.
ASSAf
Membership

Introduction
New Members in 2007/08
Membership Survey
Membership Composition by Science Discipline, Gender and Race, 2007/08
Membership Benefits
ASSAf Membership

Introduction

The Academy's core asset is its membership base. The relationship between the ASSAf Members and the activities of ASSAf are depicted below.
During the reporting period, ASSAf tried to draw its Membership base into its many activities. Broader participation was enabled by the creation of topic-specific Committees, which afforded Members an increasing opportunity to become involved in the Academy's planning and decision-making, from the compilation of draft public statements on important science-based issues to oversight responsibilities of consensus studies and forum-type studies. ASSAf aimed to nurture communication channels between its Secretariat and Membership base, with the end goal being for Members to provide strategic guidance on where the Academy could and should make its contributions to society.

Academy Members were given the opportunity to nominate candidates for Academy awards, participate in Academy national and regional lectures and volunteer for service on ASSAf Panels and Committees. The first ever General Register of ASSAf Members was initiated for distribution in electronic format for Members' own and general use, with further plans to produce a completed, updated, and professional print version during the 2008/09 financial year. As the nucleus of the Academy's intellectual capability, Members were duly acknowledged and kept informed of ASSAf activities and planned events, through receipt of complimentary copies of the Academy's quarterly newsletter (entitled Science for Society), the internationally acclaimed multidisciplinary science journal, the South African Journal of Science, Quest: Science for South Africa magazine, and all ASSAf study and corporate reports, as well as the minutes of all AGM meetings.

The Academy held its Annual General Meeting on 26 November 2007 at the University of Pretoria to inform ASSAf Members of previous and future activities. The event served as a forum for the introduction of new Academy Members. The Academy also formally presented its published report on HIV/AIDS, TB and Nutrition and several awards were granted for outstanding achievement in science research. The event was attended by existing and newly elected ASSAf Members, past ASSAf awardees and staff, representatives of government departments and academics across the science disciplines. The Minister of Education, Ms. Naledi Pandor, was the guest of honour and main speaker at the event. Minister Pandor presented the ASSAf 2007 Science-for-Society Gold Medals and the ASSAf/TWAS Prize for Young Scientists for 2006 and 2007.

New Members in 2007/08

ASSAf's Membership base increased from 276 in 2006/07, to 294 in 2007/08, with the appointment of a further 18 national scientists and scholars, five of whom were women, and two of whom were black women. New Members of the Academy were elected via secret ballot, according to the annual practice, and formally inaugurated during ASSAf's Annual General Meeting. In order to qualify for election, prospective Members need to demonstrate significant achievement in the advancement or application of science, and should also be persons who can be expected to significantly assist the Academy in achieving its objectives.
Membership Survey

In order to evaluate Members’ overall perceptions and interest in ASSAf activities, the Academy conducted a Membership survey during 2007/08. A sample of 30 Members consulted for this purpose reflected a keen interest in volunteering to serve on ASSAf committees and panels (25) and in assisting with the development of proposals and serving on committees and panels (26). The Membership sample expressed a preference for Academy AGMs and associated ASSAf Awards Ceremonies to be held in rotation among the three largest metropoles (26), and preferred the Council to organise a symposium to enhance the attention of the AGM/Awards agenda (27). In general, Members were of the opinion that Quest: Science for South Africa was an excellent publication, and that its high quality reflected well-written, interesting and useful science writing for a broad readership. While Members stated that they enjoyed reading all ASSAf publications, it was suggested that the Humanities and Social Sciences receive further coverage in the South African Journal of Science (SAJS) and Quest magazine.
Membership Composition by Science Discipline, Gender and Race, 2007/08

Members are self-classified into nine science discipline categories as shown in the table below. The majority of Members are in the Life, Agricultural and Health Sciences. Females comprise 24% and blacks 28% of the membership respectively.

<table>
<thead>
<tr>
<th>Science Discipline</th>
<th>Male</th>
<th>Female</th>
<th>White</th>
<th>Black</th>
<th>Total</th>
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<tbody>
<tr>
<td>Earth Sciences</td>
<td>11</td>
<td>3</td>
<td>11</td>
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<tr>
<td>Economic Sciences</td>
<td>9</td>
<td>2</td>
<td>8</td>
<td>3</td>
<td>11</td>
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<td>Education</td>
<td>6</td>
<td>2</td>
<td>5</td>
<td>3</td>
<td>8</td>
</tr>
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<td>Human Sciences</td>
<td>31</td>
<td>18</td>
<td>32</td>
<td>17</td>
<td>49</td>
</tr>
<tr>
<td>Life, Agricultural and Health Sciences</td>
<td>64</td>
<td>18</td>
<td>62</td>
<td>20</td>
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<tr>
<td>Mathematical Sciences</td>
<td>15</td>
<td>2</td>
<td>11</td>
<td>6</td>
<td>17</td>
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<tr>
<td>Physical Sciences</td>
<td>35</td>
<td>5</td>
<td>30</td>
<td>10</td>
<td>40</td>
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<tr>
<td>Social Sciences</td>
<td>23</td>
<td>15</td>
<td>24</td>
<td>14</td>
<td>38</td>
</tr>
<tr>
<td>Technological/Engineering Sciences</td>
<td>29</td>
<td>6</td>
<td>29</td>
<td>6</td>
<td>35</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>223</strong></td>
<td><strong>71</strong></td>
<td><strong>212</strong></td>
<td><strong>82</strong></td>
<td><strong>294</strong></td>
</tr>
</tbody>
</table>

Membership Benefits

ASSAf Members are entitled to the following benefits:

1. **Regular Updates**
   - ASSAf quarterly newsletters
   - Invitations to conferences, symposia and seminars
   - Invitations to ASSAf's annual awards ceremony
   - Priority notices of certain fellowships
   - Minutes of ASSAf Annual General Meetings
   - Invitations to serve on Academy panels, committees, etc.
   - Invitations to contribute to draft ASSAf public statements
   - Participation in regular surveys on ASSAf activities and direction

2. **Products & Services**
   Free subscriptions to the following ASSAf publications:
   - *South African Journal of Science* (SAJS) - bimonthly
   - *Quest: Science for South Africa* magazine - quarterly
   - ASSAf corporate reports
   - ASSAf study reports
   - ASSAf proceeding reports and all other publications
   - Copies of the ASSAf brochure for personal use
   - Latest and regularly updated information on the ASSAf website

3. **Mutual Cooperation**
   - Inclusion in the ASSAf General Register of Members
   - Participation in ASSAf's Annual General Meeting
   - Network of contacts
ASSAf
Secretariat
The Executive Officer (EO) is responsible for providing effective executive leadership for the Academy in support of the Council and the Academy as a whole; the basic functions being to drive Academy activities towards the achievement of its strategic objectives.

Through effective liaison with the President and other office-bearers, the major-time EO is responsible for ensuring that Academy activities are driven forward according to set time-lines; facilitating the functioning of Council, at the level of developing agendas, and ensuring follow-up; overseeing progress in the development and completion of ASSAf projects; representing ASSAf in high-level dealings with stakeholder groups; undertaking international liaison activities with African and national science academies; monitoring of the Secretariat staff, in terms of performance and growth; and generally enhancing the visibility and good reputation of the Academy.

*Prof. Wieland Gevers was the EO until the end of April 2008 and was succeeded by Prof. Roseanne Diab in May 2008.*

The Chief Operations Officer (COO) of the Academy is responsible for the management of operational activities, thus ensuring that the Academy's operational activities, including human resource policies and procedures and project-based activities, are efficiently and cost-effectively managed. The COO ensures the overall efficient running of the ASSAf office, in consultation with the major-time Executive Officer. *Dr. Xola Mati is the COO.*

The Financial Manager (FM) is responsible for overseeing the in-house system for managing all financial transactions, records and reports, and managing the Academy's interface with the National Treasury, DST, South African Revenue Service (SARS), and the Reserve Bank, in order to ensure compliance with statutory and regulatory requirements, with particular emphasis on the Public Finance Management Act (PFMA). The FM also manages the annual external audit processes, budgeting, reporting in respect of all other funders, oversight of the payroll, and advises Council on investment policy. *Mr. Morakeng Malatji is the Financial Manager.*

The Liaison Manager (LM) is responsible for servicing and managing ASSAf's national and international activities, including its membership of the InterAcademy Panel (IAP), InterAcademy Medical Panel (IAMP), Network of African Science Academies (NASAC), The Academy of Sciences of the Developing World (TWAS), and bilateral agreements with continental and international science academies, among other networking and partnership activities. *Mr. Simon Rambau is Liaison Manager.*

The Project Officers (PO) are responsible for the effective management, sustainability, and completion of the evidence-based activities (consensus and convening) of the Academy, developing a brief for each consensus or convened study considered or undertaken, supporting Academy study panels and work groups, and arranging their meetings and other activities, as well as the drafting of reports. *Ms. Nthabiseng Taole and Mr. Thabo Radebe respectively hold the positions of Senior Projects Officer and Projects Officer. Currently there are two PO vacancies that will soon be filled.*

The Membership Liaison Officer is responsible for contributing to the efficient workings and general operations of the ASSAf office, and serving as the intermediary liaison contact between the ASSAf Secretariat and its Membership base, as well as the ASSAf Council. *Mr. Ntsheu Mangena holds this position.*

Towards the end of the 2007/08 financial year, the Academy appointed a Publications Manager (PM), to manage and promote ASSAf's publications to ensure high visibility and thus promoting the Academy's national/international role and activities, in line with the overall communication and branding strategy of the Academy. *Ms. Kirstin Killian was appointed to this position.*
Subsequent to the appointment of a Publications Manager, the Academy appointed a Communications Officer in March 2008. The Communications Officer is responsible for ensuring increased visibility of the Academy through marketing and promotion of the Academy and its publications; promoting the Academy's internal capacity development and its national/international role and activities, in line with the overall communication and branding strategy of the Academy. Ms. Nomtha Myoli was appointed to this position.

The Editor of the South African Journal of Science is responsible for the entire publication process of this national, peer-reviewed multi-disciplinary science research journal, which is supported by the DST, published by ASSAf, accredited by the DoE for subsidy purposes, and listed in the Science Citation Index of the ISI. Dr. Graham Baker has been Editor for the past 35 years.

The Editorial Assistant of the South African Journal of Science is responsible for providing editorial and administrative support to the Editor. This position is occupied by Ms. Lizel Kleingbiel.

The Editor of the magazine Quest: Science for South Africa and her team are responsible for the publication of this popular science magazine aimed at learners and the general public. Dr. Elisabeth Lickindorf has been the Editor.

The Office Administrator is responsible for the general operations of the ASSAf office, including undertaking or overseeing general secretarial and reception functions, in support of the work of all the other staff in the ASSAf office and the Academy generally. Ms. Fundiswa Kanise occupies this position.

The Office Secretary is responsible for contributing to the general operations of the ASSAf office, specifically secretarial functions that support the Academy's activities, including Council and other meetings. Ms. Ntokozo Mabaso was appointed to this position.
ASSAf
Performance Report:
An Overview
ASSAf Performance Report: An Overview

The focus of Academy operations during 2007/08 was as follows:

- identify the most important national issues that require detailed, evidence-based enquiry in order to give direction to policy;
- accelerate the research study project component (studies and fora, etc.) of the Academy’s work;
- consolidate partnerships with other African and developing world science academies, government departments, the private sector, international sponsors, research institutions, publishers, tertiary institutions, the media, and other key stakeholders;
- establish and operationalise the International Liaison office;
- lead the implementation of the scholarly publications project as recommended in the 2006 ASSAf Report on that topic;
- ensure the maximum contribution of the Academy’s activities to national priorities such as those identified in the Joint Initiative for Priority Skills Acquisition (Jipsa), the Accelerated and Shared Growth Initiative for South Africa (AsgiSA), the New Partnership for Africa’s Development (NEPAD), etc.; and
- ensure maximum exposure and enhance the public profile of the Academy, its activities and publications.

ASSAf Programmes: Performance Reporting

The activities of the Academy of Science of South Africa are organised into four programmes. A summary of progress in each of the four programmes is given below.

- **Programme 1:** Administration and Governance
- **Programme 2:** Scholarly Publishing in South Africa
- **Programme 3:** International Academy Relations
- **Programme 4:** National and Regional Activities
Programme 1:
Administration and Governance

The Academy's Administration and Governance Programme focused on the following areas of development - Governance, Membership and Infrastructure. More specifically, the critical success factors identified during the 2007/08 reporting period included financial sustainability, and membership growth and mobilisation in the work of the Academy.

During 2007/08, the governance model under the ASSAf Act was consolidated, with the systematic adoption of no fewer than 11 new Regulations by Council to streamline most of the regular functions. They are as follows:

Regulation 1: Election of New Members of the Academy
Regulation 2: ASSAf Science-for-Society Gold Medals
Regulation 3: Award of the ‘TWAS Prize for Young Scientists in South Africa’
Regulation 4: Issuing Public Statements in the Name of the Academy
Regulation 5: The Sydney Brenner Fellowships
Regulation 6: ASSAf Annual Visiting Lecturers
Regulation 7: Quorum at Meetings of the Council and the Academy/Membership
Regulation 8: Appointment of Advisors to the Council
Regulation 9: Payment of Annual Subscription Fees
Regulation 10: Involvement of the Academy in Conferences and other Similar Initiatives

In addition, a Finance Group was formed to assist both the Council and the Executive Officer and his staff in the effective and efficient management of ASSAf funds and activities.

The Academy Secretariat undertook to improve its administrative archiving and business processes, maintain full records of all Members and their achievements and contributions during the period under review, in addition to ensuring effective administration and documentation of ASSAf meetings (Council, AGM, symposia, etc.), with full follow-up on all decisions. ASSAf's Secretariat also initiated a process towards full adherence to correct human resource policies and practices in order to enhance and retain its internal intellectual capability. Steps were taken during 2007/08 to ensure proper financial control, reporting and information systems, the latter of which included website management and maintenance.

Attention was given during 2007/08 to purposeful marketing of the Academy. The ASSAf website and Members' newsletter provide information about activities; all ASSAf events are reported in press releases; ASSAf Membership and its various awards and fellowships are widely publicised at universities and other institutions; and ASSAf reports and public statements are produced in a variety of forms to facilitate niche-specific dissemination.
Programme 2: Scholarly Publishing in South Africa

The Scholarly Publishing Programme was successful in obtaining 3-4 year funding from the Department of Science and Technology for the implementation of the ten recommendations developed in the 2006 Academy Report on *A Strategic Approach to Research Publishing in South Africa*. The programme is aimed at enhancing the country’s research productivity and capacity through the strengthening of indigenous journals; putting in place a quality-assurance system for published works; designing a robust system for the accreditation of research journals; promoting an open access system to enhance the visibility of South African research papers and make them accessible to the entire international research community; establishing a national research publications information and research centre; and increasing the exposure of teachers, teachers-in-training and learners to ASSAf’s science magazine, *Quest*.

Further detailed information on the Scholarly Publishing Programme is given later in this report.

Programme 3: International Academy Relations

The International Liaison Office of the Academy, staffed by a full-time member of staff, has been active in consolidating existing international relations and expanding formal relations with other science academies. During the year 2007/08, ASSAf negotiated bilateral agreements with the national science academies of India, Nigeria and Uganda.

The ASSAf partnership with the US National Academies continued to make a major contribution to the development and recognition of the Academy. The African Science Academies Development Initiative (ASADI) development programme, funded and organised by the US National Academies, has provided an effective vehicle for improving cooperation between African science academies and their Members/Fellows, and is capitalising on work done in individual countries for the benefit of other countries.

The ASADI III conference was held in Dakar, Senegal, from 11-16 November 2007 and focused on the value of national science academies in informing water security policy decision-making in Africa for the achievement of health and development objectives.

ASSAf nominated speakers and policy-makers for this purpose and beneficially secured the participation of two South African speakers and three policy-makers at the event. The Academy was also well represented by its President, Prof. Robin Crewe; Executive Officer, Prof. Wieland Gevers; Chief Operations Officer, Dr. Xola Mati; International Liaison Officer, Mr. Simon Rambau; and Projects Officer, Ms. Nthabiseng Taole. ASSAf was also fortunate to have secured the participation of Mr. G Oliphant, Chairperson of the Portfolio Committee on Science and Technology, as well as Ms. C September, Chairperson of the Portfolio Committee on Water Affairs and Forestry, supported by Ms. SB Dawood, Researcher, Portfolio Committee on Water Affairs and Forestry.

Training sessions for ASADI members and other Network of African Science Academies (NASAC) members were also held during the Dakar conference as part of the development initiative.
The Academy is a founder member of NASAC, and is currently its Vice-President. ASSAf has also been working towards increasing its collaboration activities with regional (Southern African Development Community or SADC) academies and national and regional academy-like bodies, such as the South African Regional Universities Association (SARUA), to encourage their participation in Academy activities. The establishment and strengthening of young academies within Africa was further discussed during the NASAC General Meeting where participants agreed that the network should assume its position as a stand-alone collective entity, in a formidable and professional manner, rather than continue as a shadow organisation.

ASSAf is an active collaborator of the Academy of Science of the Developing World (TWAS) which has programmes to stimulate scientific development in developing countries and co-sponsors ASSAf's Young Scientist Award for South Africa.

ASSAf is one of 90 member Academies of the InterAcademy Panel (IAP), head-quartered in Trieste, Italy. As part of the IAP Global Water Programme, ASSAf, in partnership with the Water Research Commission (WRC) of South Africa participated in workshops that aim to bring together water researchers and high-level water managers to discuss the major problems presently faced by them and to find possible solutions to these problems. A number of African science academies participated, as well as the Africa Academy of Sciences. A Proceedings Report entitled *IAP Water programme: Regional Report for Africa* was published in July 2007.

A significant outflow of ASSAf's Membership of the IAP has been its continuing inclusion in the annual meetings of the G8 plus 5 grouping, where the national science academies of the 13 countries discuss key issues of common interest and provide evidence-based advice to the heads of state at the G8 summit meeting. In addition, they issue consensus statements to international bodies and the world media/public. The 2007 meeting took place in Germany where energy, climate change and innovation statements were presented to the G8 heads of states.

ASSAf's membership of the InterAcademy Medical Panel (IAMP) provides valuable contact with the main medical academies world-wide and a focus on health problems of the developing world. In 2007, ASSAf accepted an invitation from the IAMP to host a workshop on scientific writing, aimed at young science scholars and professionals in the SADC region. Accordingly, from 4-6 March 2008, ASSAf, in collaboration with the IAMP, hosted the workshop in Pretoria. The workshop participants included 22 young professionals and students from the medical science field in South Africa, Botswana, Lesotho, Namibia, Swaziland and Mauritius. Prof. Anthony Mbewu, Co-chair of the IAMP and President of the Medical Research Council of South Africa (MRC) delivered an introductory address on the significance of developing scientific writing skills, specifically within the medical fraternity, and highlighted the challenges currently limiting the recording and dissemination of ongoing scientific activities and developments on the continent.

The workshop facilitators and presenters included representatives from the NRF, IAMP, the World Association of Young Scientists-Africa (WAYS-Africa), ASSAf's Executive Officer, Prof. Wieland Gevers and the Editor of the *South African Journal of Science*, Dr. Graham Baker. Subjects under discussion at the workshop included a general introduction to scientific writing; the structure and composition of scientific writing proposals; purpose and readership-driven research writing; accessing research grants; and communicating scientific writing to the medical fraternity. Upon completion of the three-day workshop, participants were acknowledged for their contributions by the awarding of certificates of attendance. In turn, they expressed unanimous support for a more sustainable and broader impact approach to developing scientific writing skills in South Africa and the SADC region, which was expected to take the form of a long-term online scientific writing course for young scientists and clinicians.
ASSAf participated in other international events such as an International Human Rights Network of Academies and Scholarly Societies, which was attended by Prof. Peter Vale; the India-Brazil-South Africa (IBSA) Summit, which was attended by members of the ASSAf Secretariat; and the General Assembly of the International Union of Academies for Humanities and Social Sciences, which was attended by Prof. Vivian de Klerk.

**Programme 4:**

**National and Regional Activities**

An Annual General Meeting (AGM) is held each year to inform ASSAf Members of previous and future activities, and also to serve as a forum for the election of new Academy Members. The ASSAf AGM was held on 26 November 2007 at the University of Pretoria, where the Academy formally presented its published report on *HIV/AIDS, TB and Nutrition* and during which several awards were granted for outstanding achievement in science research. The event was attended by ASSAf Members, past ASSAf awardees and staff, representatives of government departments and academics across the science disciplines.

The guest of honour and main speaker was the Minister of Education, Ms. Naledi Pandor, who presented the ASSAf 2007 Science-for-Society Gold Medals and the ASSAf/TWAS Prizes for Young Scientists for 2006 and 2007. She delivered an introductory speech prior to the awarding of ASSAf scientific merits of achievement during which she thanked the organisers for the opportunity to interact with prominent scientists and scholars. The Minister emphasised that South Africa was eagerly awaiting the day when ASSAf would assume its rightful place as a formidable force of innovation for science and technology development. She stressed that the Academy was not sufficiently visible in the public domain but added that the work it had conducted on scholarly publishing in South Africa was commendable. She further requested the Academy to consider undertaking research on other pressing matters, such as a review of higher education in South Africa and the participation of women in science.

ASSAf annually awards up to two ASSAf Science-for-Society Gold Medals for outstanding achievement in scientific thinking for the benefit of society. In 2007, the Academy awarded Science for Society Gold Medals to Professors PS Steyn and JD Comins.

The Sydney Brenner Fellowships, initiated by Nobel laureate, Dr. Sydney Brenner, and co-funded by the Oppenheimer Memorial Trust, were awarded to two young women scientists from the University of Cape Town, Dr. Zenda Woodman and Dr. Shaheen Mowla.

ASSAf partnered with other organisations with local chapters to offer public lectures in the principal South African metropoles. In addition, each year, the Academy hosts an outstanding international scientist to give a series of lectures in the main regional centres.

ASSAf hosts the secretariat for the Committee of Heads of Organisations for Research and Technology (COHORT). This committee consists of CEOs and Presidents of science and research councils, as well as the Department of Science and Technology, the Department of Education, and the Department of Environmental Affairs and Tourism. The partnership between ASSAf and COHORT enhances high-level policy advice and access to research resources from the institutions constituting COHORT.
ASSAf
Consensus Studies: An Overview

Summary of ASSAf Studies in 2007/08
Committee on Scholarly Publishing
Committee on Science for Poverty Alleviation
Committee on Humanities and Social Sciences
Committee on Science Education
Consensus Panel on HIV/AIDS, TB and Nutrition
ASSAf Consensus Studies: An Overview

Summary of ASSAf Studies in 2007/08

<table>
<thead>
<tr>
<th>ASSAf PROJECT/ COMMITTEE</th>
<th>TITLE OF REPORT</th>
<th>ADVICE / IMPLEMENTATION OF RECOMMENDATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Committee on Scholarly Publishing</td>
<td><em>A Strategic Approach to Research Publishing in South Africa</em> (published in 2006)</td>
<td>National Scholarly Editors’ Forum established; Code of Best Practice in Editorial Discretion and Peer Review adopted; study on peer-reviewed books and book chapters begun; national publishing platform team set up; criteria for peer review panels adopted.</td>
</tr>
<tr>
<td>Consensus Panel on HIV/AIDS, TB and Nutrition</td>
<td><em>HIV/AIDS, TB and Nutrition</em> (published in July 2007)</td>
<td>Placed on agenda of the National Health Research Committee (DoH); referred to the Medical Research Council.</td>
</tr>
</tbody>
</table>
Committee on Scholarly Publishing

During the 2007/08 financial year, the Scholarly Publishing Programme of the Academy was overseen by the Academy’s Committee on Scholarly Publishing in South Africa, chaired by Prof. Wieland Gevers. The Committee’s work was supported by the ASSAf Scholarly Publishing Unit (SPU), comprising Dr. Xola Mati (Director), Ms. Nontando Guwa (replaced by Ms. Nthabiseng Taole in July 2007) and Mr. Thabo Radebe. A proposal was submitted to the DST in June 2007 requesting funding over 3-4 years for a programme of implementation of the ten recommendations developed in the 2006 Academy Report on A Strategic Approach to Research Publishing in South Africa, after it had become clear that the Department had accepted the recommendations, provided the Academy also had the policy-directed support of the Department of Education and other stakeholders. The proposal was accepted after the necessary assurances had been provided and a contract was signed in March 2008.

The ASSAf Scholarly Publishing Programme is conceptualised as a concerted intervention into the country’s National System of Innovation (NSI), focused on the enhancement of the quality, quantity and world-wide visibility of original, peer-reviewed publications produced by researchers in the public sector, and the fostering of a new generation of highly competent and productive scientists and scholars.

The ASSAf Programme recognises that human capital in science and technology (S&T) is probably the single biggest asset a country can have in promoting national development in the global, science-driven knowledge economy of the 21st century. South Africa is currently still lagging markedly behind similarly placed countries in the production of internationally indexed research outputs, research-competent postgraduates and exploitable intellectual property (patents). An intervention that simultaneously and cost-effectively addresses a number of inter-linked but different supply-line problems in this area is likely to be strongly supportive of other, much more costly strategic investments directed at the same end.

Implementation of the ten recommendations of the 2006 ASSAf Report on a Strategic Approach to Research Publishing in South Africa, based as it was on the most detailed investigation of South African research productivity ever conducted, would represent precisely the kind of systemic intervention that would underpin other measures to improve the country’s research productivity and capacity, while rendering them more effective and efficient.
Components/sub-projects of the Scholarly Publishing Programme (SPP): (linked to grouped recommendations in the ASSAf Report)

A. Recommendations 1, 3 and 5 - Strengthening indigenous journals

Recommendation No 1: that all stakeholders in the South African research enterprise should each in their own way support local/national research journals that actively seek to be of international quality and are indexed in an internationally recognised, bibliometrically accessible database, through following best-practice in editorial discernment and peer review, including adaptations

- that address inherent problems and capitalise on technological innovations;
- that judiciously enrich content to promote coherence and value-adding functions;
- that provide the local scholarly community with opportunities for participating in the full range of scholarship-enhancing activities associated with the process of publishing original research outputs;
- that vigorously seek financial sustainability from multiple income streams; and
- that accept systemic peer review and periodic audit which has a marked developmental focus.

Recommendation No 3: that the proposed best-practice guidelines presented in Chapters 1 and 6 of this Report be widely discussed under the aegis of the Academy of Science of South Africa, formulated into a concise readable document, and then publicly adopted by editors and publishers throughout South Africa, especially those relating to effective peer review and wise and appropriate editorial discernment.

Recommendation No 5: that ASSAf be mandated jointly by the Departments of Education and Science and Technology to carry out external peer review and associated quality audit of all South African research journals in 5-year cycles, probably best done in relation to groups of titles sharing a particular broad disciplinary focus, in order to make recommendations for improved functioning of each journal in the national and international system.

Chapters 2, 3 and 4 of the ASSAf Report contained detailed descriptions of all scholarly journals published in South Africa that are accredited by the Department of Education to be recognised as valid research outputs of higher education institutions. Their weaknesses and strengths, individually and collectively, were carefully and fully analysed in order to identify strategies for improved functioning in future. The Scholarly Publishing Unit (SPU) held a successful and well-attended forum of editors of national scholarly journals in July 2007, out of which came a mandate to sustain the forum as a consultative and advisory body, managed by the Academy. Terms of reference for a National Scholarly Editors’ Forum were subsequently agreed by the participating editors and the Committee for Scholarly Publishing in South Africa, and confirmed by the ASSAf Council, these have now been published. A second mandate was provided for the drafting and adoption of a National Code of Best Practice in Editing and Peer Review (see Recommendation No 2 above), similarly agreed by both the Forum and the Academy, and published in June 2008. A third mandate was for a system of discipline-grouped peer review of South African journals, to be conducted by ASSAf panels set up under the Academy’s guidelines for impartial, multi-disciplinary review panels. The ASSAf Committee accepted criteria and process guidelines for such peer reviews in April 2008, and the first two panels will soon begin their work.
The periodic, grouped, quality assurance-directed peer review of South African research/scholarly periodicals will function analogously to the quality audits of the Council of Higher Education/Higher Education Quality Committee (CHE/HEQC), and will focus on: the quality of editorial and review processes; fitness of purpose; positioning in the global cycle of new and old journals listed and indexed in databases; financial sustainability; and scope and size issues. The ASSAf panels carrying out the reviews will each comprise 6-8 experts, at least half of whom will not be directly drawn from the areas concerned and will require data-gathering, interviews, and international comparisons, before reports with recommendations are prepared, approved, and released to stakeholders, such as national associations, the Departments of Science and Technology and of Education, the CHE/HEQC, the NRF and Higher Education South Africa (HESA), and all research-active institutions.

A database of editors and other information about all research/scholarly journals published in South Africa has been brought to 80% completion and made available on the ASSAf website. The completed database will support the work of the SPU and the National Scholarly Editors’ Forum, which will function mainly in virtual mode through electronic and other forms of communication, but also through convened workshops and conferences on key topics, such as copyright issues, open access conversion, open source software, and economies of scale in publishing logistics. A focused analysis of the editorial and financial models used by accredited South African research journals, drawing on data collected in the Report's 2004-5 survey is being completed and updated, stratified by journal discipline, size and frequency of publication, among other parameters. This will be used as a baseline for continued planning in the system, and maintained and updated annually as part of the relevant ASSAf information system.

ASSAf has also been working with a number of institutions to ensure that a variety of capacity-building workshops, courses and on-line offerings are available, especially a system of cooperative, ongoing, online science-writing and media-writing courses offered free to registered users. (A special workshop organised in South/Southern Africa under the auspices of the InterAcademy Medical Panel (IAMP) will soon be examining the requirements and optimal organisation of such offerings.)

B. Recommendation 4 - Quality assurance in the production of papers

**Recommendation No 4:** That the quality assurance system now being put into place by the Council of Higher Education/Higher Education Quality Committee (CHE/HEQC) be used by that agency and by its partner higher education institutions to promote best-practice in publishing of original research work, and to emphasise and enhance the training function served by the whole exercise of publishing original papers in the peer-reviewed literature.

ASSAf is negotiating to ensure the incorporation of the best-practice guidelines research training and practice into the systems of quality assurance being set up for research operations and especially for training of postdoctoral fellows and masters and doctoral students, by both the CHE/HEQC at the generic level, and by each higher education institution, in order to achieve significant improvements in the quality, quantity and impact or outputs at a system level. A sustained series of interactions and consultations is planned, both collectively and individually targeted, beginning in setting-up mode and moving in later years to maintenance mode.
C. Recommendation 2 - Accreditation of journals for ALL stakeholders

**Recommendation No 2:** that both high-level (Departments of Education and of Science and Technology, CHE/HEQC, NACI and NRF) and wide-ranging (higher education institutions, science councils) discussions be held to design a robust, well-informed and accountable mechanism for the accreditation of research journals (and probably also of books and other outputs of scholarship), that will meet the different although often convergent requirements of the multiple stakeholders in the National System of Innovation.

This recommendation arises from the finding of the ASSAf Report that the current accreditation system of the Department of Education is not yet able to meet the needs of other participants in the National System of Innovation. Thus the accreditation step in respect of every single research publication, over which the DoE has complete control, feeds decisively into the policy frameworks of other organisations, such as the CHE/HEQC (in terms of its functions of quality assurance of research and postgraduate training at higher education institutions), the NRF (for general grant-making and bursaries at the same institutions), the Department of Science and Technology, NACI and the scientometric compilers of annual S&T indicators (as one of the key determinants of output units), and the higher education institutions and science councils (in terms of internal planning and resourcing policies and reward systems), not to mention the publishers and editors of the journals themselves. The accreditation function has to be credible, transparent, well-administered, and generally promotive of higher standards and greater general utility and significance, nationally and internationally.

The ASSAf Scholarly Publishing Programme has the potential to generate a new method of accreditation, one based on peer review of groups of journals and the identification among them of high-quality, internationally significant, sustainable scholarly periodicals that can be accredited, supported to become open access, free online publications, and developed into national assets (see below). In addition, the Academy will arrange workshops and policy-directed meetings to review accreditation options, and to suggest how these can be developed into robust, well-founded and accountable procedures for the accreditation of articles in research periodicals’ as well as monographs, books and conference proceedings. Such new mechanisms would be designed both to provide an upwardly moving trajectory for quality in the system and to meet varying requirements of stakeholders other than the DoE.

The DoE has commissioned the Academy to conduct a second study on a strategic approach to scholarly publishing in books and book chapters. (Later, attention will also be given to conference proceedings and technical reports.) The book study is being conducted by a Consensus Panel chaired by Prof. Wieland Gevers, and is likely to produce its Report by the end of 2008. It is focussed on the following issues:

1. How closely do (scholarly) book chapters correspond to original, peer-reviewed, editorially selected journals articles as ‘research outputs’ as defined in the DoE policy?
2. How much ‘re-publication’ or ‘pre-publication’ of substantive journal article content occurs in book chapters?
3. How does peer review as typically carried out in the case of books differ from ‘gold standard’ peer review methodology used by journal editors?
4. How well do books achieve the defined purposes of research outputs in terms of impact analysis e.g. citation analysis; book reviews; sales and re-printings; any other measures?
5. How much should book chapters be ‘weighted’ in terms of the DoE policy framework?
   (Journal article = 1.0)
6. How are the ‘target audiences’ of scholarly books to be identified, as DoE policy is that the target of accredited book chapters should be peers and ‘other knowledge producers’?

7. How many book chapters are really not ‘original, fully described additions to existing knowledge’ but rather authoritative analyses, syntheses, and/or consolidations, in effect or potentially assisting others to map out new routes to new knowledge?

8. Does online publishing of books (already) enhance dissemination and access, and is the (print) book publishing route a weakened, or less effective form of knowledge dissemination relative to the journal route?

9. How do different disciplinary areas compare in their (volume) use of books as opposed to journals, as selected standard dissemination routes?

10. What are the time delays in book as opposed to journal publishing?

11. What are the trends for the future role(s) of books as vehicles for the dissemination of scholarly knowledge?

D. Recommendation 6 - The Open Access issue:

Recommendation No 6: that the Department of Science and Technology takes responsibility for ensuring that Open Access initiatives are promoted to enhance the visibility of all South African research articles and to make them accessible to the entire international research community. Specifically:

- online, Open Access (‘Gold Route’) versions of South African research journals should be funded in significant part through a per-article charge system (linked in the case of higher education institutions to an agreed fraction of output publication subsidies, and in the case of other research-producing institutions to adapted budgeting practice), but publishers should still sell subscriptions to print copies and should maximise other sources of income to lower the article-charge burden;

- a federation of institutional Open Access repositories, adhering to common standards, should be established (‘Green Route’), with resources made available to help institutions in the preliminary stage, this virtual repository to be augmented by a central repository for those institutions which are unable to run a sustainable repository;

- national harvesting of South African Open Access repositories should be undertaken as a matter of urgency, preferably by the NRF; and the importance of affordable bandwidth for research communications for this purpose be drawn to the attention of DST officials negotiating for better rates.

This recommendation of the ASSAf Report is by far the most far-reaching and complex. The scope and multifarious nature of the issues was fully described in the Report, but it is clear that full and successful implementation will require the combined efforts of many players. The National Scholarly Editors’ Forum will be particularly important in this regard. A generic model needs to be developed for converting an appreciable number of South Africa’s high-quality journals into ‘Gold Route’ Open Access periodicals, promoting their visibility (and citation rates), enhancing access, and generating a powerful information system; simultaneously, the ‘Green Route’ of institutional repositories and a national, inter-operable repository system needs to be established in order to ensure that South African scholars also have untrammelled access to publications which appear in journals published outside the country.
The requirements for the envisaged Open Access initiatives include: adequate bandwidth and information technology infrastructure within institutions (SANREN, TENET, and the institutions themselves), as well as the solution of technical issues (such as whether open source software can be used in building repository systems), and legal/financial issues (copyright; business models).

The ASSAf Committee on Scholarly Publishing in South Africa has established a task team to investigate the best ways to create a national platform for the publication of high-quality, Open Access journals in the country. The task team has among other activities examined existing organisations already operating locally such as SABINET and African Journals Online (AJOL), as well as international examples, such as Hindawi Publishers in Cairo, the CSIRO in Australia, and SciELO in Brazil and a number of other South American countries. The last-mentioned will be visited by a delegation from the task team, as it appears to combine the most desirable features, such as effective mechanisms for journal selection for inclusion in the service (analogous to ASSAf's envisaged peer review panels - see above); free online Open Access publishing; a variety of features to facilitate contextual understanding and contact between readers and authors; and an advanced information system including citation indexing and web-based usage statistics, etc. The task team is charged to report before the end of 2008.

It is possible that the national platform envisaged by the ASSAf project may involve subsidisation of selected, high-quality research journals in a managed and sustainable way, specifically to supplement revenue streams that will mostly be inadequate to support online publication with universal free access. Declining subscriptions will be the main problem, while advertising and sponsorship may increase. ASSAf will oversee a system of bidding-for-subsidy on the basis of business plans in each case, and will negotiate with government on a possible supplementary model of per-article charges paid by institutions from their awarded output subsidies. A generic model of paid part-time editors-in-chief and associate editors will be developed, using well-established models already in use elsewhere and fully discussed and debated in the National Scholarly Editors’ Forum. The selection of journals for part-subsidisation and conversion to full Open Access will be overseen by the Academy and linked to the peer review-based quality assurance system described above. The subsidised set would include journals indexed by the Thomson Scientific (ISI) and/or the IBSS, as well as journals not yet indexed, spread across the main disciplinary areas.

Institutional repositories are already under development in a number of universities and science councils, but their expansion is now urgent and will be promoted by the ASSAf programme in association with other partners, such as the DST and the DoE.

E. Recommendation 7 - a virtual, national information centre on research outputs published in, and from South Africa

Recommendation No 7: that a consortium of agencies be asked by the Department of Science and Technology to form a virtual ‘national research publications information and research centre’, probably best overseen by the Academy of Science of South Africa, which will continuously gather and analyse information on South African journals, as well as on publications in foreign journals emanating from authors working in this country, following up on the studies presented in this Report and in the (rather few) previous relevant publications. This entity could also be used to support the training function envisaged in Recommendation 2.
A number of government departments require reliable information for policy implementation purposes - the Department of Education and/or ASSAf, for accreditation of local journals; the National Research Foundation, for assisting value-based grant-making; the Council on Higher Education/Higher Education Quality Committee, for enhanced quality assurance at research-active institutions; agencies carrying out large-scale evaluations of R&D, such as the HSRC, reliable bases for validating output data; and higher education institutions and other research producers, for accelerated researcher development and overall research planning.

The ASSAf Committee on Scholarly Publishing in South Africa expects to enter into a series of memoranda of understanding with existing organisations in order to establish a logical, flexible, comprehensive, virtual national information system on all research and scholarly publications published in, or from South Africa. Some of these will be commissioned to undertake studies and prepare draft recommendations on particular areas of information not yet properly characterised or available in the system. Access to the virtual information system will be free and well-coordinated to ensure maximum usefulness and relevance. The ASSAf-overseen national (virtual) information system will be closely aligned with the national database and dissertation information system currently being set up under the aegis of the NRF.

F. Recommendation 8 - Teachers and learners can also benefit from ASSAf's science national magazine, Quest

**Recommendation No 8:** that a wide-ranging project be initiated that will sharply increase the exposure of teachers, teachers-in-training and learners to local science journals and magazines that present the country's foremost scientific work in accessible form, and are effectively linked to the media.

One of the most cogent reasons for publishing research journals locally is the opportunity to reach the next generation in ways that are not possible with expensive international periodicals; this can only be done in partnership mode, however, and will not happen without strong sponsorship and appropriate resourcing.

ASSAf's science magazine *Quest: Science for South Africa* is already a potentially powerfully pervasive vehicle for achieving the goals embraced in this recommendation. The present quite limited distribution will be massified considerably (probably by 10 times, to reach more young people in more national science and technology events and schools than is now possible), and in order to reach a much greater proportion of the target audiences national-wide. The magazine has been very well received in all sectors, and the Academy will ensure its receipt and use in many more colleges, universities, senior schools and other institutions, given the resources needed for scaling-up production and distribution. The quarterly magazine also lends itself to much-needed research on teaching and learning in the science and mathematics areas - a pilot study is underway in the School of Education at the University of Cape Town. In principle, every editor in the country is being invited to submit newly published articles to the Editor of *Quest* for possible conversion into effective feature articles in *Quest*. 
ASSAf originally constituted its Committee on Science for Poverty Alleviation (CSfPA) to contribute to one of the five new national missions outlined in South Africa's Research and Development Strategy, accepted by Cabinet in 2005: *Science and technology for the alleviation/reduction of poverty*.

The objectives of the Committee were to:

- oversee a managed forum to assist the national mission of harnessing new developments in S&T for economic growth and sustainable development;
- address a series of selected problem areas by bringing together, in a carefully planned, multi-disciplinary workshop mode, leading national (and some international) researchers from a variety of disciplines; and
- generate new insights that can assist government policy-makers and others, on the basis of properly debated scientific and technological findings, in the fight to alleviate poverty in South Africa.

The establishment of CSfPA was based on the successful practice of the US National Academies of creating long-lived 'Boards' to oversee their activities in focus areas such as 'Global Health' or 'Microbial Threats'. Although ASSAf borrowed the model from the US National Academies as its mentor within the ASADI project, adjustments to meet ASSAf's needs were made when necessary, in order to support crucial functions of the Academy endeavouring to become a new and potentially important element in the country's science system. In this case, the CSfPA was considered to be a successful 'Board', but the Consensus Panel methodology was also used to address particular issues, apart from the more typical convened workshop approach.

During 2007/08, ASSAf augmented the Committee on Science for Poverty Alleviation to generate Forum-type Studies of selected topics in three broad areas: small-scale agriculture; health of poor communities; and general environmental and other sustainability aspects of smaller (secondary) cities. In each case, the Committee will identify the topics that have the best chance of generating new ideas and recommendations for implementation in the field, based on the best scientific evidence that can be found.

Following the departure of the outgoing Chair (Prof. Sagadevan Mundree resigned to take up an appointment in Australia), Prof. Eugene Cloete of the University of Pretoria took over chairmanship of the Committee.
1. **Small-Scale Agriculture in South Africa**

Most African countries depend on agriculture for foreign currency earnings; approximately 50-75% of the labour force is in agriculture. Although Africa's crop production is the lowest in the world, agriculture still serves as the sole source of income for up to 70% of the population in Africa. South Africa has a large and critically important commercial agricultural sector, but the above-mentioned general features of the African continent are present also in surprisingly large measure. The workshop held in October 2006 revealed that much needs to and can be done to improve productivity in the small-scale, largely (but by no means entirely) subsistence-level agricultural sector in this country. In July 2007, the Proceedings of this workshop were published as *Science-Based Improvements of Rural/Subsistence Agriculture*.

2. **Health of Poor Communities**

Community health has received enormous attention in terms of ‘conventional’ policy development and resources, but remains stubbornly problematic. Innovative, science-based approaches are likely to be very helpful in bringing about real change and relief. Issues including sanitation; availability of safe drinking water; drugs and therapeutic resources generally; infectious disease; and malnutrition have been identified.

3. **General Environmental and Other Sustainability Aspects of Smaller (Secondary) Cities**

The focus of activities of the Committee during 2007/08 has been Local Economic Development in Small Towns. Planning for a workshop aimed at addressing key questions related to the viability of small towns was well advanced by the end of 2007, but due to commitments of invited speakers the workshop was postponed and was finally held in June 2008. A proceedings report from this workshop will be published.
Committee on the Humanities and Social Sciences

On 7 March 2008, ASSAf's Council approved a proposal authored by Professors Peter Vale and Louise Vincent, to convene a Consensus Panel on ‘An Enhanced Status and Role for the Humanities in South Africa’. The Panel, co-chaired by Prof. Peter Vale/Prof. Jonathan Jansen seeks to investigate the status quo of Social and Human Sciences in South Africa, which is judged by many to be in a state of crisis, largely owing to the complex politics of the country's transition; the search for social justice; politically-driven emphasis on the economically-grounded idea of 'developmentalism'; and the growing realisation that the challenges faced by our society are so urgent and immediate that the reflective and critical modes of thinking favoured in the Humanities seem to be unaffordable luxuries.

This climate is one which favours immediate action and answers rather than solutions arising from the exploratory and speculative approach favoured in the Humanities. A workshop of invited participants was held in Grahamstown, from 15-16 January 2008, during which challenges threatening the viability of the Humanities in South Africa were discussed. The January workshop's report prompted the Academy's interest in the subject and Council's decision to undertake a consensus study of this nature.

The Panel will focus on describing the potential social and economic importance, and analysing the present strengths and weaknesses of the Humanities; understanding and explaining issues around their funding; enquiring into the anatomy of particular disciplines; and making the case for strengthening the Humanities in South Africa. Furthermore, the Consensus Panel will investigate the current positioning of the Humanities and look towards securing the long-term value of the Humanities in South Africa's national life, which will require a critical assessment of the Humanities as a whole; a clear-eyed insight into the state of individual academic disciplines; and addressing difficult issues, such as academic standards, research and infrastructural funding.

These proposed studies will include:

- Research which would examine what Humanities graduates actually do in society and the economy - not immediately upon leaving university but in the medium and long term; and what their perceptions are of what they do and how their activities and work actually affect the world.
• Research into the effects of the changing academic landscape on the Humanities: to what extent they were taken into account during the institutional mergers and the national system of programmatic planning, and what has been happening within the disciplines in response to these developments.

• Policy and technical research to provide a better understanding of how state approaches to funding have impacted on the Humanities as defined above.

• Research into a select number of disciplines in the Humanities in order to understand them more fully: this will include student enrolment, staff qualifications, postgraduate studies and research, and governance issues.

• Contributions from inter alia a respected and highly placed school-teacher, because of the importance of providing a deeper understanding of the value of the Humanities at schools.

During 2008/09, the Consensus Panel will produce a report on the present status and role of the Humanities in South Africa; and motivated and detailed suggestions on ways to strengthen and advance the contribution to national life and development that could be made by the Humanities in the country. The publication of a peer-reviewed Consensus Report will be followed by an international conference on the Humanities, to be organised by ASSAf, in partnership with the HSRC, the NRF and other agencies.

### Committee on Science Education

The Academy hosted a meeting on 23 August 2007 to discuss the possibility of forming an ASSAf Science Education Committee and to map out a provisional agenda of the Committee's roles and responsibilities. The meeting was well-attended by some of the leading thinkers and practitioners in science education in South Africa and select ASSAf Members.

The ASSAf Council is awaiting a revised proposal to establish a Science Education Committee, to ensure that science and technology education is cultivated and enhanced among the South African youth. ASSAf's involvement in science education has thus far been realised through its participation in NASAC and the Africa-wide focus on improving the knowledge and skills-base of science teachers through prestigious examinations and inquiry-based science workshops. The Committee repeatedly acknowledged the strides made by France in respect of science education development, and cited their strategy as a possible source of direction in developing its own work on the subject.

Strong support was shown for the establishment and formalisation of an ASSAf Science Education Committee that would bridge the gap between top scientists and school-teachers; provide critical commentary on proposed science curricula; generate authoritative evidence-based findings on rural science teaching and resource management, science teaching and learning in general, and systemic problems in South African schools; report on ICT as a vehicle for popularising science in schools; and examine the existing knowledge base on national science teaching.
Consensus Panel on HIV/AIDS, TB and Nutrition

Nutrition no substitute for HIV/Aids and TB drugs

In October 2005, ASSAf appointed the study panel, chaired by Wits professor and National Health Laboratory Services Prof. Barry Mendelow. The diverse panel included nutritionists, immunologists, biochemists, infectious disease physicians and paediatricians, policy experts, epidemiologists and generalists.

ASSAf published a Consensus Report on *Nutritional Influences on Human Immunity, with Special Reference to HIV Infection and Clinical TB* (Final title: *HIV/AIDS, TB and Nutrition*). The report was printed in both a condensed and a full version, and widely disseminated to all ASSAf's national and international stakeholders. The issues concerning nutritional influences on human immunity and response to major pandemic infections, such as TB and HIV infections, have been among the most controversial in South Africa in the last half-decade. These issues have given rise to serious differences in the approach to public policy in addressing the ravages of these diseases. The report provided clear guidance on the key issues, and a set of recommendations based on the best evidence and the most integrated understanding of the ways in which nutrition affects people suffering from infections, such as tuberculosis and HIV-caused immunodeficiency states.

The nutrition report was widely featured in news media in South Africa and internationally, and the Department of Health issued a press statement indicating its general support for the findings and recommendations (the Presidency and ruling party discussed the report in its organ *ANC Today*, but mainly in relation to what it claimed was distorting media coverage). The report has been placed on the agenda of the new National Health Research Committee (NHRC), and the Medical Research Council was formally requested to respond to the research recommendations.
Consensus Study on Clinical Research

A second health-related Consensus Study on Clinical Research by a Panel chaired by Prof. Bongani Mayosi, is now in active process to help address a number of urgent and inter-dependent issues concerning Clinical Research and related training in South Africa.

The Consensus Panel on the Enhancement of Clinical Research in South Africa, set up by the ASSAf Council late in 2007, has met three times, most recently in Cape Town on 26 March 2008, and hopes to complete its work by the end of 2008 or by early 2009. The brief of the Study Panel, to be appointed by ASSAf, will be to examine and address the most relevant and reliable evidence on the key questions below, especially regarding clinical trials; and to make recommendations that are most appropriate and feasible, based on that evidence:

- How do we contribute to building a national culture in which clinical research is seen as essential and clinical trials are widely accepted and promoted as the most reliable basis for establishing the efficacy and safety of new therapies, procedures and approaches?
- How can we best equip and encourage clinicians-in-training to embrace clinical research and evidence-based practice as indispensable elements in delivering effective health care?
- How can we improve the level of funding and execution of clinical research for investigator-driven clinical research, including clinical trials research?
- How can we ensure that clinical research flourishes in South Africa under conditions that protect the rights and safety of individuals, but at the same time acknowledges the needs of industry and other funders of research?
- How can government, parastatal institutions, academia and industry interact more constructively in creating a favorable and enabling environment for clinical research to be conducted?

The definition of clinical research to be used in the study is an adaptation of the National Institutes of Health (NIH) definition of clinical research, where clinical research is defined as patient-related or orientated research. This is research primarily conducted with human subjects (and on material derived from them, such as tissues, specimens and cognitive phenomena) during which investigators (or their colleagues) examine mechanisms of human disease or the efficacy of interventions, often in the form of clinical trials. The information and expertise thus derived can be applied with immense benefit in developing cost-effective preventive and/or therapeutic strategies at all levels of health care.
ASSAf
Publications and Corporate Communication Activities

Communication Activities
- Internal Communication
- External Communication

Publications Activities
- Corporate Publications
- Periodical Publications
  - Quest: Science for South Africa
  - South African Journal of Science
- Academy Reports
- Monitoring and Evaluation
- Media Coverage
ASSAf Publications and Corporate Communication Activities

Communication Activities
The Academy's primary drive during 2007/08 was improving its communication channels with its varied stakeholder groups, both internal and external. ASSAf focused on professionalising its communication, analysing issues of accessibility, target audiences, and long-term impacts.

As part of the Academy's outreach initiative, the activities and publications are targeted at inspiring and encouraging the youth's interest in science at school-level, in order to lay a solid foundation of scientific development for future generations.

ASSAf also focused on playing a leading role in public discourse on the sciences and scientific development in South Africa and throughout the SADC region. The Academy made use of its relationship with Sci Dev.Net's Christina Scott (recipient of the TWAS Award for Popularising Science in 2007) to popularise and publicise the work of the Academy, and in so doing, diversify and expand its market segments.

Communication activities were aimed at promoting public awareness, understanding of and accessibility to science, and facilitating real solutions to national problems and fostering positive change through the application of evidence-based scientific findings and recommendations through means that were intelligible and accessible to all stakeholder groups. The Academy continued to position the ASSAf brand as a dominant, authoritative voice in South Africa and the SADC region, as the leading African science academy, and the only nationally recognised science academy. Communication also sought to have ASSAf recognised as an 'agent of science' or 'mediator' between the general public and science disciplines, and an authoritative voice and reliable source of information.

Internal Communication
The Academy's most important resource is that of its internal stakeholder group, which comprises both its Secretariat staff and Membership base. The intellectual capability of the Academy resides in these two internal groups, which through the leadership of the Council, interface to convert the expertise of the collective Members into relevant activities and publications that are of critical importance for the sustainability of the Academy.

Internal communication during 2007/08 centred on the following activities:

- Staff meetings;
- Council meetings;
- Academy newsletter;
- Staff training and development.
External Communication

External communication took the form of meetings, seminars, press briefings, workshops, roundtable discussions, forums, etc.

The Academy focused on identifying its existing market segments and their corresponding communication needs, in order to maximise the potential of ASSAf's services and products.

Communication with other science academies, particularly those in Africa, was strengthened during 2007/08, through the ASADI partnership. Information and knowledge-exchange and capacity building, were the foci of activities. Interaction with the US National Academies added much value to these activities. Engagements with other international science academies also served to acquaint ASSAf with international trends and to become internationally recognised.

The close relationship with the DST and other government departments served to raise awareness of ASSAf activities and publications served to influence their decision-making by the application of ASSAf's recommendations and findings and to emphasise the important role that ASSAf publications play in science education. In this respect, the magazine *Quest*, was promoted at schools and science events to foster an interest in science.

Publications Activities

Corporate Publications

The Academy produces a number of annual corporate publications, as well as *ad hoc* corporate publications, as required.

In the main, these corporate publications include the following:

- Business Plan report and presentation (annually);
- Annual Report and presentation (annually);
- *Science for Society Newsletter* (quarterly);
- Press releases;
- Member communiqués;
- Academy's website.

Periodical Publications

ASSAf's two flagship periodicals include:

- *Quest: Science for South Africa* magazine; and the
- *South African Journal of Science*
Introduction to Quest Magazine

*Quest: Science for South Africa* is a full-colour, quarterly, popular science magazine published by ASSAf and supported by the DST.

*Quest* – for learners and the general public – is totally dedicated to accurate and attractive presentation of South Africa’s latest scientific achievements and ongoing research. It offers contributors, organisations and advertisers the opportunity to reach the general public and the upcoming generation of adults. Young people in South Africa encounter sponsored copies of *Quest* that are distributed to public high schools with science departments. They form an important readership, as the country’s future scientists, scientifically-aware adults, decision-makers, and opinion-formers. Copies of each issue of *Quest* are distributed to all Members of ASSAf, and to representatives of government departments, parastatals, and science councils - including the DST, the Department of Education (DoE), and the South African Agency for Science and Technology Advancement (SAASTA). *Quest* is used to support projects and initiatives that target the youth, science educators, and scientists (for example through SciFest Africa; science olympiads; National Science, Engineering and Technology Week; and the NSTF Awards). The magazine is available to the general public through retail sales in bookstores and by subscription.

**Quest Editorial Board**

The role of the Editorial Board is to advise both the publisher and the Editor regarding the content of the magazine, to provide the Editor with leads and information about current trends in significant evidence-based science in South Africa, and to put their expertise to the service of the magazine in assuring the highest possible quality and presentation of the material presented. All material published in *Quest* during the financial year 2007/2008 has been vetted, approved, and checked by at least one Member of the Editorial Board.
Members:

Prof. Wieland Gevers (Chair, Executive Officer)
Dr. Elisabeth Lickindorf (Editor: Quest)
Dr. Graham Baker (Editor: *South African Journal of Science*)
Prof. Jonathan Jansen (ASSAf Vice-President)
Prof. Phil Charles (ASSAf Member, SAAO)
Prof. Anusuya Chinsamy-Turan (ASSAf Member, UCT)
Prof. George Ellis (ASSAf Member, UCT)

*Quest Management Committee*

The role of the *Quest* Management Committee has been actively to involve all key members of the team working on the production, publishing, and funding of the magazine, and to coordinate and oversee the entire publication process. The different portfolio-holders were responsible for reporting to the *Quest* Project coordinator and to the Management Committee. The latter then, cooperatively, had the task of identifying areas of progress and weaknesses, suggesting and implementing solutions, alerting the team as a whole to potential direct and indirect consequences of decisions taken in their areas of expertise, and designing and developing opportunities for the periodical’s further sustainability.

Members:

Dr. Graham Baker (Chair)
Prof. Wieland Gevers (ASSAf Executive Officer)
Dr. Xola Mati (ASSAf Chief Operations Officer)
Mr. Morakeng Malatji (ASSAf Financial Manager)
Dr. Elisabeth Lickindorf (*Quest* Editor and Project Coordinator)
Ms. May Chellew (*Quest* Finance Administrator)
Ms. Meg Kemp (*Quest* Subscriptions, Distribution, and Website)
Ms. Barbara Spence (*Quest* Advertising)

*Quest Complimentary Distribution to Dinaledi and Public High Schools*

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of Public Schools</th>
<th>Dinaledi Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Cape</td>
<td>515</td>
<td>60</td>
</tr>
<tr>
<td>Free State</td>
<td>273</td>
<td>30</td>
</tr>
<tr>
<td>Gauteng</td>
<td>552</td>
<td>68</td>
</tr>
<tr>
<td>KwaZulu-Natal</td>
<td>1199</td>
<td>67</td>
</tr>
<tr>
<td>Limpopo</td>
<td>617</td>
<td>48</td>
</tr>
<tr>
<td>Mpumalanga</td>
<td>310</td>
<td>28</td>
</tr>
<tr>
<td>North-West</td>
<td>316</td>
<td>39</td>
</tr>
<tr>
<td>Northern Cape</td>
<td>132</td>
<td>10</td>
</tr>
<tr>
<td>Western Cape</td>
<td>284</td>
<td>39</td>
</tr>
</tbody>
</table>

The Academy distributed complimentary copies of *Quest* magazine to South African Dinaledi and public high schools with science departments, through the support and endorsement of the DST. During 2007/2008, one complimentary copy of *Quest* was distributed to each public school with a science department and three complimentary copies to each Dinaledi school. In addition, *Quest* issues were made available through the Academy’s outreach activities, which included national science events, such as the National Science and Technology Forum (NSTF) Awards Ceremony, National Science Week, SciFest Africa, Maths Week, and the South African Maths Olympiad and the South African Agency for Science and Technology Advancement (SAASTA).
Introduction to the South African Journal of Science

The journal serves a multi-disciplinary readership, and as such, articles are presented bi-monthly in a style that is intelligible to specialists and non-specialists alike. The intention of the *South African Journal of Science* (SAJS), since its inception, has been to cover all the sciences, from archaeology and atmospheric sciences to zeolites and zoology, including the sciences basic to medicine and engineering, as well as policy-related issues. The editorial format of the *SAJS* is modelled to some extent on *Nature* (UK) and *Science* (USA).

Priority is given to individual papers likely to be of interest to a relatively broad readership. The regrettable barrier to the accessibility of original papers, imposed by the increasing specialisation of research, is partly balanced by the breaking-down of the traditional boundaries of academic disciplines, which means that researchers in related fields really have to learn to talk to each other. Another key editorial ingredient is suites of articles on themes with a distinctive African relevance – such as HIV/AIDS, first reports of the fossil treasures excavated at Sterkfontein, the atmospheric and oceanographic sciences focused on the southern African region, and the latest coelacanth research.

Evolution of SAJS over the years

- The *SAJS* is over a century old, having been established in 1903.
- The *SAJS* was originally a once-a-year publication of the proceedings of the annual meetings of the South African Association for the Advancement of Science.
- The annual volume became a monthly publication in August 1947.
- A new look for the *SAJS* was introduced in January 1973 (it has subsequently been much refined, and a full electronic version to complement the print edition, has been available since 1999).
• Since 1973, the SAJS has in turn been published by Macmillan Journals in London (the then publisher of Nature), the Associated Scientific and Technical Societies of SA (AS&TS), the Foundation for Education, Science and Technology, and the NRF. It has long enjoyed the financial support of the DST (and its predecessors).

• The SAJS is an official publication of ASSAf, where its editorial staff members are housed.

• Dr. Graham Baker has served as Editor of the SAJS for 35 years. In its centenary year (2004), a comprehensive citation analysis showed that the SAJS was ranked 14th among 46 periodicals in the category of multidisciplinary journals indexed in the ISI’s Journal Citation Reports, with an impact factor of 0.94. (Impact factors vary, of course, and in the four years up to 2006 it has been in the approximate range 0.6-0.9).

SAJS Editorial Board

The SAJS Editorial Board’s role during the 2007/08 financial year was to provide support to the Editor as well as to advise the ASSAf Council, in effect the publisher, on the strategic direction of the SAJS, as one of its most significant enterprises.

Members: Prof. Wieland Gevers (Chair and Executive Officer)  
Prof. Michael Berger  
Prof. Michael Cherry  
Prof. Roseanne Diab  
Prof. Jonathan Jansen  
Prof. Harm Moraal  
Prof. Gansen Pillay  
Dr. Graham Baker (Editor: SAJS)
Subscription rates from 2006 to 2008

<table>
<thead>
<tr>
<th>SAJS Subscription rates</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private - ZAR</td>
<td>380</td>
<td>400</td>
<td>420</td>
</tr>
<tr>
<td>Institution - ZAR</td>
<td>590</td>
<td>610</td>
<td>640</td>
</tr>
<tr>
<td>International - US $</td>
<td>140</td>
<td>145</td>
<td>152</td>
</tr>
<tr>
<td>International - UK £</td>
<td>90</td>
<td>95</td>
<td>100</td>
</tr>
</tbody>
</table>

Subscription numbers from 2006 to 2008

Subscription numbers grew by about 5% between 2006 and 2008, and have reached around 700.

Subscribers include ASSAf Members, who obtain complimentary copies of *SAJS*; African science academies with whom ASSAf partners in the ASADI programme; distribution agents; private subscribers; science councils; and universities, among other readership segments.

Manuscript profiles

In the year to 3 April 2008, the editorial staff dealt with 428 manuscripts of various kinds. Of those received, 272 were considered to be of sufficient merit for subsequent review in the orthodox way, making use of a database of some 1000 referees. The *SAJS* currently publishes about 140 manuscripts in per annual volume of some 600 print pages (supplemented increasingly by online material accessible via the *SAJS* website) in six issues.

Academy Reports

Academy study publications are the collective products of the findings and recommendations of Consensus and Convening Committees, for the benefit of both policy and decision-makers and South African society at large. Such publications include reports on the following:

- consensus activities;
- convening activities;
- forum-based activities;

While a number of ASSAf studies were in various stages of progression towards the end of 2007/08, the Academy published two Committee study reports, namely:

1. Committee on Science for Poverty Alleviation, Proceedings Report on *Science-Based Improvements of Rural/Subsistence Agriculture*, July 2007; and


Monitoring & Evaluation

As part of the ASADI programme, ASSAf took part in the development of a monitoring and evaluation framework for the African academy members, namely Uganda, Nigeria and South Africa.

During 2007/08, ASSAf consulted a wide array of stakeholder groups to determine the extent to which each market segment’s needs were being addressed by the Academy, and to assess the relevance of the expansion
of the ASADI programme. Evaluation questionnaires were submitted to the media, government departments, parliamentary portfolio committees, non-governmental organisations, universities, science councils, and other important stakeholders. The results of this questionnaire, as well as those of an all encompassing mid-term evaluation at the end of 2009, seek to deliver preliminary results on ASSAf's movement towards a more stakeholder-centric and service-delivery oriented value proposition approach to delivering on its core mandate of providing evidence-based findings and policy advice to South African society.

Generally speaking, the results of the completed evaluation questionnaires revealed the following:

- The Academy needs to be more conscious of government and stakeholder-related issues;
- More purposeful and consistent engagement is needed with the media;
- Communication strategy is needed to bridge the divide between the media and scientists, particularly in the manner in which report findings and recommendations are communicated;
- Further interaction was requested by the Parliamentary Portfolio Committee on Science and Technology;
- The Academy is highly regarded among science councils and research institutions.

**Media Coverage**

For example, media coverage of the *HIV/AIDS, TB and Nutrition* Report released in 2007/08 was extensive, including both national and international media, and a variety of media ranging from electronic, through to the print media to broadcast media. Details are given in the following table.
| Name                        | Reference                                                                 | |
|-----------------------------|---------------------------------------------------------------------------| |
| BBC News Online             | http://news.bbc.co.uk/nolpda/ukfs_news/hi/newsid_6959000/                  | |
| Bbc.co.uk                   | 6959205.stm?item=07072000news                                            | |
| Centre for the Study of HIV/Aids, UP | http://www.csa.za.org/article/articleview/453/1/1/                     | |
| Environmental News Network  | http://www.een.com/health/commentary/22491                                | |
| News24.com                  | http://www.news24.com/News24/South_Africa/Aids_Focus/0,2-7-659_2169864,00.html | |
| SciDev.Net                  | http://www.scidev.net/content/news/eng/improved-nutrition-cannot-replace-hiv-or-tb-drugs.cfm | |
|                            | http://www.scidev.net/content/opinions/eng/nutrition-and-disease-debate-should-shift-to-science.cfm | |
| ScienceNOW                  | http://sciencenow.sciencemag.org/cgi/content/full/2007/822/1?rss=1         | |
| allAfrica.com               | http://allafrica.com/stories/200708220477.html                             | |
| SAJS Commentary             | July/August 2007 - vol. 103, No.7/8                                      | |
| Independent Online          | http://www.iolhivaids.co.za/index.php?fSectionId=1608&fArticleId=3999637 | |
| Oneworld TV - not open access | http://africa.oneworld.net/article/country/710/m/2007/8                | |
| HEARD                       | HIV Report being used as staff training tool for HEARD staff - Prof. Timothy Quinlan, HEARD, University of KwaZulu-Natal | |
Annual Financial Statements for the Year Ended 31 March 2008
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- Approval of Annual Financial Statements  
- Report of the Independent Auditors to the Council, Academy of Science of South Africa  
- Balance Sheet at 31 March 2008: (Statement of Financial Position)  
- Income Statement for the year ended 31 March 2008 (Statement of Financial Performance)  
- Statement of Changes in Reserves for the year ended 31 March 2008  
- Cash Flow Statement for the year ended 31 March 2008  
- Notes to the Financial Statements for the year ended 31 March 2008  
- Detailed Income and Expenditure for the year ended 31 March 2008
Council's Responsibility for Annual Financial Reporting

The preparation of the financial statements is an accurate reflection of the Academy’s state of affairs as at the year ending 31 March 2008. The Council hereby acknowledges its responsibility as Accounting Authority of the Academy.

Approval of the Annual Financial Statements

The Annual Financial Statements for the year ended 31 March 2008 are set out in pages 65 to 73 and were approved by ASSAf’s Council on 18 June 2008. In the Council’s opinion, the Annual Financial Statements fairly reflect the financial position of ASSAf as at 31 March 2008 and the results of its operations for the year then ended.

Prof. Robin Crewe
Chairperson, ASSAf Council
President, ASSAf

Prof. Roseanne Diab
Executive Officer,
ASSAf (with effect from 1 May 2008)

Report of the Independent Auditors to the Trustees of the Academy of Science of South Africa

Balance Sheet at 31 March 2008: (Statement of Financial Position)

Income Statement for the year ended 31 March 2008: (Statement of Financial Performance)

Statement of Changes in Reserve for the year ended 31 March 2008

Cash Flow Statement for the year ended 31 March 2008

Notes to the Annual Financial Statements for the year ended 31 March 2008
Report on the financial statements
We have audited the accompanying financial statements of the Academy of Science of South Africa, which comprise the balance sheet as at 31 March 2008, and the income statement, statement of changes in equity and cash flow statement for the year then ended, and a summary of significant accounting policies and other explanatory notes set out on pages 3 to 10.

Members’ Council responsibility for the financial statements
The members’ council is responsible for the preparation and the fair presentation of these financial statements in accordance with their accounting policies. This responsibility includes: designing, implementing and maintaining internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

Auditor’s responsibility
Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. These standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement, including the assessment of the risk of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal controls relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal controls.

An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Unqualified opinion
In our opinion, these financial statements fairly present, in all material respects, the financial position of the Academy of Science of South Africa as at 31 March 2008, and of its financial performance and its cash flows for the year then ended in accordance with its accounting policies.
Emphasis of matter
As is explained in note 9 to the financial statements, the Academy needs ongoing donor support if it is to continue operations. These financial statements have been prepared on the basis of accounting practices applicable to a going concern which assumes that the Academy will generate sufficient funds by way of grants from donors to continue funding its activities in the ensuing year. Accordingly they do not include any adjustments, relating to the recoverability and classification of assets or to the amounts and classification of liabilities, that would be necessary if the Academy were unable to continue as a going concern.

Supplementary information
The supporting schedule set out on page 11 is presented for information purposes only and is not covered by the audit opinion.

Douglas & Velcich
Chartered Accountants (S.A.)
Registered Accountants and Auditors

Johannesburg
18 June 2008
### Annual Financial Statements

#### Balance Sheet at 31 March 2008

<table>
<thead>
<tr>
<th>Notes</th>
<th>2008</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R</td>
<td>R</td>
</tr>
</tbody>
</table>

**ASSETS**

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non - Current assets</td>
<td>138,487</td>
<td>168,731</td>
</tr>
<tr>
<td>Equipment</td>
<td>138,487</td>
<td>168,731</td>
</tr>
<tr>
<td>Current assets</td>
<td>5,274,831</td>
<td>4,336,852</td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>5,274,831</td>
<td>4,336,852</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td><strong>5,413,318</strong></td>
<td><strong>4,505,583</strong></td>
</tr>
</tbody>
</table>

**RESERVES AND LIABILITIES**

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reserves</td>
<td>4,969,591</td>
<td>3,700,007</td>
</tr>
<tr>
<td>Accumulated fund</td>
<td>4,969,591</td>
<td>3,700,007</td>
</tr>
<tr>
<td>Current liabilities</td>
<td>443,727</td>
<td>805,576</td>
</tr>
<tr>
<td>Accounts payable</td>
<td>443,727</td>
<td>805,576</td>
</tr>
<tr>
<td><strong>Total reserves and liabilities</strong></td>
<td><strong>5,413,318</strong></td>
<td><strong>4,505,583</strong></td>
</tr>
</tbody>
</table>

---
## Income Statement for the year ended 31 March 2008

<table>
<thead>
<tr>
<th>Notes</th>
<th>2008</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td><strong>INCOME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants received</td>
<td>5</td>
<td>8,602,988</td>
</tr>
<tr>
<td>Membership fees</td>
<td></td>
<td>20,500</td>
</tr>
<tr>
<td>Interest received</td>
<td></td>
<td>457,194</td>
</tr>
<tr>
<td>Income from publications</td>
<td></td>
<td>356,602</td>
</tr>
<tr>
<td><strong>EXPENDITURE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advertising and marketing</td>
<td></td>
<td>172,852</td>
</tr>
<tr>
<td>Annual report production</td>
<td></td>
<td>107,371</td>
</tr>
<tr>
<td>Asset below R 7,500 written off</td>
<td></td>
<td>7,400</td>
</tr>
<tr>
<td>Auditors' remuneration</td>
<td>7</td>
<td>46,583</td>
</tr>
<tr>
<td>Bank charges</td>
<td></td>
<td>12,590</td>
</tr>
<tr>
<td>Computer expenses</td>
<td></td>
<td>41,911</td>
</tr>
<tr>
<td>Conferences and seminars</td>
<td></td>
<td>341,063</td>
</tr>
<tr>
<td>Consensus panel on clinical research</td>
<td></td>
<td>38,864</td>
</tr>
<tr>
<td>Depreciation</td>
<td></td>
<td>30,244</td>
</tr>
<tr>
<td>Equipment rental</td>
<td></td>
<td>18,834</td>
</tr>
<tr>
<td>Honorarium</td>
<td></td>
<td>78,753</td>
</tr>
<tr>
<td>Insurance</td>
<td></td>
<td>3,796</td>
</tr>
<tr>
<td>Loss on disposal of asset</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>NRF service levy</td>
<td></td>
<td>242,906</td>
</tr>
<tr>
<td>Printing and stationery</td>
<td></td>
<td>1,184,830</td>
</tr>
<tr>
<td>Science awards</td>
<td></td>
<td>47,776</td>
</tr>
<tr>
<td>Recruitment and staff development</td>
<td></td>
<td>109,377</td>
</tr>
<tr>
<td>Refreshments</td>
<td></td>
<td>54,328</td>
</tr>
<tr>
<td>Rent, electricity and maintenance</td>
<td></td>
<td>25,845</td>
</tr>
<tr>
<td>Salaries and contributions</td>
<td></td>
<td>2,785,092</td>
</tr>
<tr>
<td>Subscription fees</td>
<td></td>
<td>1,677</td>
</tr>
<tr>
<td>Study of books as research publications</td>
<td></td>
<td>434,605</td>
</tr>
<tr>
<td>Technical services</td>
<td></td>
<td>916,505</td>
</tr>
<tr>
<td>Telephone, faxes and postage</td>
<td></td>
<td>257,245</td>
</tr>
<tr>
<td>Travel and accommodation</td>
<td></td>
<td>1,187,167</td>
</tr>
<tr>
<td>Website maintenance</td>
<td></td>
<td>20,086</td>
</tr>
<tr>
<td><strong>SURPLUS FOR THE YEAR</strong></td>
<td></td>
<td>1,269,584</td>
</tr>
</tbody>
</table>
Statement of Changes in Reserves for the year ended 31 March 2008

<table>
<thead>
<tr>
<th></th>
<th>Accumulated funds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R</td>
</tr>
<tr>
<td><strong>Balance at 31 March 2006</strong></td>
<td>3,695,368</td>
</tr>
<tr>
<td>Surplus for the year</td>
<td>4,639</td>
</tr>
<tr>
<td><strong>Balance at 31 March 2007</strong></td>
<td>3,700,007</td>
</tr>
<tr>
<td>Surplus for the year</td>
<td>1,269,584</td>
</tr>
<tr>
<td><strong>Balance at 31 March 2008</strong></td>
<td>4,969,591</td>
</tr>
</tbody>
</table>
### Cash Flow Statement for the year ended 31 March 2008

<table>
<thead>
<tr>
<th>Notes</th>
<th>2008</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td><strong>Cash flows from operating activities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash receipts from donors and customers</td>
<td>8,980,090</td>
<td>5,690,018</td>
</tr>
<tr>
<td>Cash paid to suppliers and employees</td>
<td>(8,499,305)</td>
<td>(6,675,185)</td>
</tr>
<tr>
<td><strong>Cash generated/(utilised) from operations</strong></td>
<td>480,785</td>
<td>(985,167)</td>
</tr>
<tr>
<td>Interest received</td>
<td>457,194</td>
<td>271,602</td>
</tr>
<tr>
<td><strong>Net inflow/(outflow) from operating activities</strong></td>
<td>937,979</td>
<td>(713,565)</td>
</tr>
<tr>
<td><strong>Cash flows utilised in investing activities</strong></td>
<td>-</td>
<td>(53,550)</td>
</tr>
<tr>
<td>Acquisition of equipment, at cost</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Proceeds on disposal of assets</td>
<td>-</td>
<td>30,743</td>
</tr>
<tr>
<td><strong>Net (outflow) from investing activities</strong></td>
<td>-</td>
<td>(53,550)</td>
</tr>
<tr>
<td><strong>Net increase in cash and cash equivalents</strong></td>
<td>937,979</td>
<td>(767,115)</td>
</tr>
<tr>
<td>Cash and cash equivalents at beginning of year</td>
<td>4,336,852</td>
<td>5,103,967</td>
</tr>
<tr>
<td><strong>Cash and cash equivalents at end of year</strong></td>
<td>5,274,831</td>
<td>4,336,852</td>
</tr>
</tbody>
</table>
Notes to the Financial Statements for the year ended 31 March 2008

1. ACCOUNTING POLICIES

The financial statements are prepared on the historical cost basis, except for financial instruments as indicated below. The financial statements incorporate the following principal accounting policies which are consistent, in all material respects, with those applied in the previous year :-

1.1 SIGNIFICANT JUDGEMENTS

In preparing the annual financial statements, management is required to make estimates and assumptions that affect the amounts represented in the annual financial statements and related disclosures. Use of available information and the application of judgement is inherent in the formation of estimates. Actual results in the future could differ from these estimates which may be material to the annual financial statements.

1.2 Equipment and depreciation

Equipment is stated at cost less provision for depreciation. Depreciation is calculated to write off the cost of the assets on the straight line method over their expected useful lives at the following rates:-

- Office equipment - 15 % per annum
- Office furniture and fittings - 15 % per annum

1.3 Income

Income is brought to account as and when received.

1.4 Expenditure

Expenditure is accounted for on the accrual basis.

1.4 Financial instruments

Measurement

Financial instruments are initially measured at cost, which includes transaction costs. Subsequent to initial recognition, these instruments are measured as set out below:

Cash and cash equivalents

Cash and cash equivalents are measured at fair value.
1.4 Financial instruments (continued)

**TRADE AND OTHER PAYABLES**

Trade and other payables are measured at amortised cost using the effective interest method.

1.5 Investment income

Interest is recognised on a time proportion basis, taking account of the principal outstanding and the effective rate over the period to maturity, when it is probable that such income will accrue to the Academy.

2. **EQUIPMENT**

<table>
<thead>
<tr>
<th></th>
<th>Office equipment and computers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>31 March 2008</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance at 1 April 2007</td>
<td>168,731</td>
<td>168,731</td>
</tr>
<tr>
<td>At cost</td>
<td>201,623</td>
<td>201,623</td>
</tr>
<tr>
<td>Accumulated depreciation</td>
<td>(32,892)</td>
<td>(32,892)</td>
</tr>
<tr>
<td>Depreciation for the year</td>
<td>(30,244)</td>
<td>(30,244)</td>
</tr>
<tr>
<td><strong>Net book value 31 March 2008</strong></td>
<td>138,487</td>
<td>138,487</td>
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<tr>
<td>At cost</td>
<td>201,623</td>
<td>201,623</td>
</tr>
<tr>
<td>Accumulated depreciation</td>
<td>(63,136)</td>
<td>(63,136)</td>
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</table>

| **31 March 2007** |                               |       |
| Balance at 1 April 2006 | 107,631 | 107,631 |
| At cost            | 117,330 | 117,330 |
| Accumulated depreciation | (9,699) | (9,699) |
| Additions          | 84,293  | 84,293  |
| Depreciation for the year | (23,193) | (23,193) |
| **Net book value 31 March 2007** | 168,731 | 168,731 |
| At cost            | 201,623 | 201,623 |
| Accumulated depreciation | (32,892) | (32,892) |
Notes to the Financial Statements for the year ended 31 March 2008 (Continued)

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<th>2008</th>
<th>2007</th>
</tr>
</thead>
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<td>Cash at bank - call account</td>
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<td>Interest received</td>
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<td>(271,602)</td>
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<td>Trade and other payables</td>
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<td>(776,070)</td>
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Notes to the Financial Statements for the year ended 31 March 2008 (Continued)

7. AUDITORS’ REMUNERATION

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<td><strong>Total</strong></td>
<td>46,583</td>
<td>29,180</td>
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</table>

8. TAXATION

The Academy is exempt from income tax under section 10(1)(cn) as read with Section 30 of the Income Tax Act.

9. GOING CONCERN

The existence of the Academy is dependent on the continued support of its donors, by way of grants. Should the grants be withdrawn it is highly unlikely that the Academy will be able to continue as a going concern. Donors have agreed to continue supporting the Academy in 2008/2009 financial year.

10 FINANCIAL RISK

10.1 Currency risk
The Academy is exposed to currency risk to the extent that grants are received by the Academy in foreign currency.

10.2 Interest rate risk
The Academy is exposed to interest rate risk, as it places funds at both fixed and floating interest rates. The risk is managed by maintaining an appropriate mix between fixed and floating rates and placings within market expectations.

10.3 Credit risk
The Academy's credit risk is attributable to liquid funds. The credit risk on liquid funds is limited because the counter party is a bank with credit rating assigned by international credit-rating agencies. The Academy has no significant concentration of credit risk.

10.4 Liquidity risk
The Academy manages liquidity risk by monitoring forecast cash flows and ensuring that adequate cash reserves are maintained.
### Detailed Income and Expenditure for the year ended 31 March 2008

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<tr>
<th></th>
<th>ASSAf</th>
<th>IAP</th>
<th>PUBLIC</th>
<th>ASSA</th>
<th>SYDNEY</th>
<th>COHORT</th>
<th>SAJS</th>
<th>SAJQ</th>
<th>SAJR</th>
<th>USGE</th>
<th>USIN</th>
<th>USPA</th>
<th>USSC</th>
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<td>1,008,080</td>
<td>272,505</td>
<td>455,820</td>
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<td>151,080</td>
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<td><strong>Unexpended surplus/(deficit)</strong></td>
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<td>117,215</td>
<td>(76,601)</td>
<td>(1,794)</td>
<td>(4,829)</td>
<td>(13,766)</td>
<td>(194,447)</td>
<td>(564,247)</td>
<td>1,486</td>
<td>229,633</td>
<td>284,430</td>
<td>-</td>
<td>1,269,584</td>
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</tbody>
</table>
ANNEXURE A

Abbreviated Biographies of ASSAf Members

- **Quarraisha Abdool Karim** is Professor and Head of the Women and Aids Programme at the Centre for the Aids Programme of Research in South Africa, CAPRISA, University of KwaZulu-Natal. She has been Director: HIV/AIDS in the Department of Health, and Scientific Director, HIV-NET at the Medical Research Council.

- **Salim S Abdool Karim** is Pro Vice-Chancellor (Research) at the University of KwaZulu-Natal in Durban. He is also Professor in Clinical Epidemiology at the Mailman School of Public Health at Colombia University and Adjunct Professor in Medicine at the Weill Medical College of Cornell University. He is Director of CAPRISA - Centre for the Aids Programme in South Africa.

- **Robert M Adam** is Chief Executive Officer of the Nuclear Energy Corporation of South Africa (NECSA). He was the Director-General in the Department of Science and Technology (DST).

- **Ralph D Adendorff** is Professor in the Department of English Language and Linguistics at Rhodes University. He was Associate Professor and Director of the Linguistics Programme at the University of Natal.

- **Jimi Olalekan Tosin Adesina** is Professor of Sociology at Rhodes University, and directed the UN Research Institute for Social Development's Africa Regional Research Project on Social Policy. He is Secretary General of the African Sociological Association, a member of the Executive of the Council for Social Science Research in Africa (CODESRIA), and has served as President of the South African Sociological Association.

- **Miriam Adhikari** is Professor and Head, Paediatrics at the Nelson Mandela School of Medicine, at the University of KwaZulu-Natal.

- **Jillian Adler** is Professor of Mathematics Education at the University of the Witwatersrand, and part-time distinguished Chair at King's College London, and Vice-President, International Commission for Mathematical Instruction.

- **Erna Alant** is Professor, Centre for Augmentative and Alternative Communication (CAAC). She has been involved in the field of disability as training research and activist for the rights of people with severe disabilities.

- **Mark Alexander** is Professor of Civil Engineering at the University of Cape Town, and specialises in concrete materials engineering.

- **Marco Andreoli** is a Specialist Scientist in the Nuclear Liability Management Department of the South African Nuclear Energy Corporation (NECSA) and Research Fellow in the School of Geosciences at the University of the Witwatersrand.

- **Reinhard Richard Arndt** was President of the Foundation for Research Development, now incorporated into the NRF. He established RAU’s Chemistry Department and was also Professor of Organic Chemistry at the University of Stellenbosch.

- **Lewis David Ashwal** is Professor of Petrology and Director of the African Lithosphere Research Group at the University of the Witwatersrand, School of Geosciences. Previously, he was Professor of Geology at Rand Afrikaans University (now University of Johannesburg).

- **Ahmed A Azad** was Director of Research in the Health Sciences Faculty, University of Cape Town. He was Senior Scientist at the CSIRO in Melbourne, Australia.

- **Saleem Badat** is Professor and Vice-Chancellor at Rhodes University. Previously, he was the CEO of the Council on Higher Education.

- **Yunus Ballim** is Professor and Deputy Vice-Chancellor: Academic at the University of Witwatersrand.
Annexure A

- **Jacek Banasiak** is Professor in the School of Mathematical Sciences at the University of KwaZulu-Natal and was the Head of the School between 2005-2007. He is Chairman of the South African National Council for the International Mathematical Union and member of the Advisory Board of the African Institute of Mathematical Sciences. Previously, he was the Vice-President of the South African Mathematical Society.

- **Eric Bateman** is Professor of Respiratory Medicine and Clinical Director of the Department of Critical Care, University of Cape Town and Groote Schuur Hospital, Founder and Director of UCT Lung Institute. He is Chair of the Global Initiative for Asthma and on the Executive of the World Health Organisation Global Alliance Against Chronic Respiratory Diseases.

- **Ahmed Cassim Bawa** was Deputy Vice-Chancellor (Research, Knowledge Production and Partnerships) at the University of KwaZulu-Natal. Previously, he was Deputy Vice-Chancellor (Academic) at the University of Natal. He was Professor and Distinguished Lecturer in the Department of Physics at Hunter College in the City University of New York.

- **Solomon R Benatar** is Emeritus Professor of Medicine and Founding Director of the University of Cape Town's Bioethics Centre. He was previously Chairman of the UCT's Department of Medicine and Chief Physician at Groote Schuur Hospital. He is Professor in Public Health Sciences at the University of Toronto, and Director of a NIH (Fogarty International Centre) funded programme for capacity building in International Research Ethics in southern Africa.

- **Michael B Berger** is an Honorary Research Associate, Kaplan Centre for Jewish Studies and Research. Previously, he was Professor and Head of Chemical Pathology at the Red Cross Children's Hospital and University of Natal. He was President of the South African Association of Clinical Biochemists and the Lipid and Atherosclerosis Society of South Africa.

- **Patricia Berjak** is Professor Emeritus and Research Associate of the University of KwaZulu-Natal. She is a Fellow of the University of Natal and the Third World Academy of Sciences. Her status as a world leader in her field is acknowledged in her being one of a small number of scientists to hold the 'A' rating of the National Research Foundation.

- **Ann Bernstein** is Director of the Centre for Development and Enterprise (CDE). She is a visiting professor at the University of Cape Town and has been a member of the Board of the Development Bank.

- **Arvin Bhana** is Director of Research, HSRC and Professor of Psychology at the University of KwaZulu-Natal. Previously, he was the Head of Department at the School of Psychology at the University of Durban-Westville.

- **Ramesh Bharuthram** is Deputy Vice-Chancellor, Research at the University of the Western Cape. Previously, he was Dean of Science at the University of the Witwatersrand, and Professor of Physics, Dean of the Faculty of Science, Deputy Vice-Chancellor, and Director: Research at the University of KwaZulu-Natal.

- **Krish Bharuth-Ram** is Professor at the University of KwaZulu-Natal and Director of iThemba Labs.

- **Kanti Bhoola** is an Adjunct Professor at the University of Western Australia, where he is Head of the Inflammation/Immunology Unit in the Lung Institute. He is also an Honorary Professor in the Faculty of Health, University of Witwatersrand. Previously, he was Professor of Clinical and Experimental Pharmacology at the then University of Natal and was Senior Research Director, Faculty of Health, Centre for Research Development, Technikon Natal (now Durban University of Technology).

- **Nicolas Biekpe** is a Professor of Development Finance and Econometrics, at the University of Stellenbosch Business School.

- **Judith Bishop** is Professor of Computer Science at the University of Pretoria. Prior to her appointment she lectured at the University of the Witwatersrand, rising to Professor and Head of Department. She is founding Fellow of the SA Institute of Computer Scientists and Fellow of the British Computer Society.

- **Nigel Tempest Bishop** is Professor of Applied Mathematics at the University of South Africa. He lectured at the University of the Witwatersrand, Johannesburg, until his appointment as Professor at UNISA. He served as Deputy Dean of the Faculty of Science at UNISA.
Dr Liesbeth Botha joined the CSIR on 1 August 2008 as Executive Director: CSIR Materials Science and Manufacturing. She was Executive Director: Innovation and Commercialisation at the University of Stellenbosch and Professor in electronics and computer engineering at the University of Pretoria.

Rudie P Botha is Professor of General Linguistics at the University of Stellenbosch. He is a Research Fellow at the Netherlands Institute for Advanced Studies.

Thomas Hamilton Bothwell is Emeritus Professor of Medicine and an Honorary Professorial Research Fellow at the University of the Witwatersrand. He was Academic Head of the Department of Medicine and Chief Physician, at the Johannesburg Hospital and Dean of Faculty of Medicine at the University of the Witwatersrand. He was awarded the ASSAf Science for Society Gold Medal in 2003.

Paul Anthony Bowen is Professor and Head of the Department of Construction Economics and Management at the University of Cape Town. He currently serves on the South African Council for the Quantity Surveying Profession, is Chairman of the Quantity Surveying Standards Generating Body, and is a member of the Western Partnership and Accreditation Board of the Royal Institution of Chartered Surveyors.

Charles Kimberley Brain was Research Director at the Transvaal Museum.

George Branch is Professor of Zoology and the Marine Biology Research Institute, University of Cape Town. He has been Deputy Director of the Marine Biology Research Institute and Director of the Coastal Ecology Research Unit.

Chris Brink is Vice-Chancellor of Newcastle University, UK, and was previously Principal of the University of Stellenbosch. He was also Professor and Head of Mathematics at the University of Cape Town and Pro Vice-Chancellor (Research) at the University of Wollongong in Australia.

Paul Andries Brink is Professor and Chairman of the Research Committee, Department of Internal Medicine, University of Stellenbosch.

James R Bull is Professor Emeritus and Honorary Research Associate in Organic Chemistry at the University of Cape Town.

Renier Adriaan Burger is Professor and Director of Unit for Space Physics at the North West University. Previously he was Professor of Space Physics at the Potchefstroom Campus of the University of the North-West.

Sandra Beatrice Burman is Professor of Socio-Legal Studies at the University of Cape Town and Director of the Interfaculty Centre for Socio-Legal Research. She was a Research Fellow at Queen Elizabeth House, Oxford University.

Philip Allen Charles is Director of the South African Astronomy Observatory (SAAO). Previously he was Professor and Head of Astronomy at the University of Southampton.

Arthur Chaskalson is the former Chief Justice of South Africa. He was also the President of the new Constitutional Court of South Africa.

Nithaya Chetty is Professor and Director of Computational Physics at the University of KwaZulu-Natal. Previously he was a Senior Lecturer in the Department of Physics at the University of Natal.

Rachel Chikwamba is the Research Group Leader for the Plant Biotechnology group at CSIR. She is also an Adjunct Senior Lecturer in the University of Pretoria’s Department of Botany and a member of the Forestry & Agricultural Biotechnology Institute (FABI).

Anusuya Chinsamy-Turan is a Palaeobiologist in the Department of Zoology, University of Cape Town. She was Director of the Natural History Collections of Iziko Museums of Cape Town.

Renfrew Christie is Dean of Research, University of Western Cape. He was Academic Planning Officer UCT and is the Chairperson of the UWC Community Law Centre.

Paul Cilliers is Professor of Philosophy at the University of Stellenbosch. He has held research fellowships at the Phillips University of Marburg, the Free University of Amsterdam and the Institute for the Study of Coherence and Emergence (ISCE) in Boston.
• Walter T Claassen was Professor and Vice-Rector for Research at the University of Stellenbosch.

• Peter Eiddon Cleaton-Jones was Head of the Dental Research Institute, University of Witwatersrand (a Joint MRC/Wits Research Unit). He is currently active in the Steve Biko Centre for Bioethics and the Division of Maxillo-facial & Oral Surgery at the University of Witwatersrand.

• Eugene Cloete is Professor and Head of the Microbiology Department, and Chairperson of the School of Biological Sciences at the University of Pretoria.

• Maureen Coetzee is head of the Vector Control Reference Unit of the National Institute for Communicable Diseases in Johannesburg and research Professor at the School of Pathology, University of the Witwatersrand.

• John Darrell Comins is Emeritus Research Professor, previously Director of the DST/NRF Centre of Excellence in Strong Materials, Chairman of the Materials, Chairman of the Materials Physics Research Institute and Director of Raman and Luminescence Laboratory at the University of the Witwatersrand. He was awarded the ASSAf Science for Society Gold Medal in 2007.

• Neville Raymond Comins is the National Innovation Advisor for COFISA (Cooperation Framework on Systems of Innovation between Finland and South Africa), and a consultant on Science Park development. Previously he was the Founding CEO of The Innovation Hub.

• Simon H Connell is an Extraordinary Associate Professor at the North West University, Mafikeng Campus

• Hoosen Coovadia is a paediatrician and expert in perinatal HIV transmission. He was the Head of the Department of Paediatrics at the then University of Natal. He now holds the Victor Daitz Chair for HIV/Aids research at the University of KwaZulu-Natal, and is International Vice-Chair of the National Institutes of Health (USA) IMPAACT Network. He was awarded the ASSAf Science for Society Gold Medal in 2004.

• Anna Coutsoudis is Professor in the Department of Paediatrics and Child Health, Nelson R Mandela School of Medicine at the University of KwaZulu-Natal and Chair of iThemba Lethu an HIV/AIDS organisation caring for children.

• Richard Mark Cowling is Professor of Botany at the Nelson Mandela Metropolitan University and Honorary Professor in Botany at the University of Cape Town. He has been President of the International Society of Mediterranean Ecologists.

• Robin Michael Crewe is Vice-Principal of the University of Pretoria. He was Director of Communication Biology Research Group of the University of the Witwatersrand and Dean of Science Faculties at both the Universities of the Witwatersrand and Pretoria. He is currently the President of the Academy of Science of South Africa.

• Felix Dapare Dakora is Professor and Chair: DST/NRF Research Chair at the Tshwane University of Technology. Previously he was Dean of Research at the Cape Peninsula University of Technology. He was Associate Professor of Botany at the University of Cape Town.

• Peter Dankelmann is an Associate Professor, School of Mathematical Science at University of KwaZulu-Natal

• Dennis Martin Davis sits as Judge on the Cape High Court, and is also a Competition Appeal Court Judge.

• Santi Daya is Professor of Pharmaceutical Sciences at Rhodes University.

• Christiaan Rudolph de Beer is Vice-Principal of the University of Pretoria. He has held numerous academic and management positions at the Potchefstroom University for Christian Higher Education (now North-West University) and the University of Pretoria.

• John Wesley de Gruchy is Professor of Christian Studies at the University of Cape Town. He was a President of Theological Society of Southern Africa and Member of American Academy of Religion.

• Okkert C de Jager is at the Unit for Space Physics, North-West University. He holds the Research Chair of the Department of Science and Technology and National Research Foundation for Astrophysics and Space Science. He is also the South African group leader of the High Energy Stereoscopic System (HESS) collaboration
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• **Vivian Anne de Klerk** is Professor and Dean of Student at Rhodes University and was Head of the Department of English Language and Linguistics at Rhodes University. She served as President of the Linguistics Society of Southern Africa.

• **Cheryl de la Rey** is Chief Executive Officer, Council on Higher Education, and was Professor and Deputy Vice-Chancellor for Research and Innovation of the University of Cape Town, as well as Executive Director for Research Promotion at the National Research Foundation.

• **Wessel Van Zyl de Villiers** is General Manager, Nuclear Energy Corporation of South Africa (NECSA) and Vice-Chair Suid Afrikaanse Akademie vir Wetenskap an Kuns.

• **David Dewar** is Professor of Architecture, Planning and Geomatics and Deputy Dean of the Faculty of Engineering and the Built Environment at the University of Cape Town. He was a Director of the Urban Problems Research Unit and Dean of the Faculty of Fine Art and Architecture.

• **Maarten de Wit** is the Phillipson-Stow Professor at the University of Cape Town, and founding director of the Centre for Interactive Graphical Computing of Earth Systems (CIGCES) and the Africa Earth Observatory Network (AEON).

• **Roseanne Denise Diab** is Professor in the School of Environmental Sciences at the University of KwaZulu-Natal and Executive Officer of the Academy of Science of South Africa (as of May 2008).

• Kathleen Ann Driver is Professor of Mathematics and Dean of the Faculty of Science, University of Cape Town as of January 2006. She was previously Head of Mathematics at the University of the Witwatersrand.

• **John Duncan** is Dean of Research at Rhodes University. He was previously Head of the Department of Biochemistry and Microbiology at Rhodes University.

• **Norman TF Duncan** is Professor of Psychology and Head of the School of Human and Community Development at the University of the Witwatersrand.

• **Lourens Marthinus du Plessis** is Professor of Public Law at the University of Stellenbosch. He was also Professor Extraordinaire in the Department of Comparative and Public International Law at University of the Western Cape.

• **Wilhelmina du Plessis** is Professor at the North-West University. She teaches environmental law, legal pluralism, land law and legal history.

• **Anton Eberhard** is Professor at the Graduate School of Business at the University of Cape Town. Previously, he was a Director of the Energy and Development Research Centre at the University of Cape Town.

• **George Adriaan Ekama** is Professor of Water Quality Engineering in the Department of Civil Engineering at the University of Cape Town.

• **George Francis Rayner Ellis** is Professor Emeritus of Mathematics at the University of Cape Town. He was Professor of Cosmic Physics at SISSA (Trieste) and has been visiting professor at Texas, Alberta, London, Hamburg, Chicago and Boston. He was awarded the ASSAf Science for Society Gold Medal in 2005.

• **Petra Engelbrecht** is Executive Dean, Faculty of Education Sciences on the Potchefstroom Campus of North-West University and was Senior Director, University of Stellenbosch University and Professor of Educational Psychology.

• **Theunis Erasmus** was Vice-Rector at the University of Pretoria, and Chairman of the Suid-Afrikaanse Akademie vir Kuns en Wetenskap.

• **Arthur George Every** is Research Professor of Physical Acoustics at the University of the Witwatersrand, and has held visiting positions at a number of overseas universities, including Oxford, Cornell, Illinois and Bordeaux.

• **Bernard Fanaroff** is Managing Director of Fanaroff Associates and has been project manager of the South African Square Kilometre Array project. Previously, he has been the Deputy Director-General in the Office of President Mandela and Deputy Director-General in the Department of Safety and Security.
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- **Jill Margaret Farrant** is Professor and Head of Department of Molecular and Cell Biology, University of Cape Town.
- **Michael William Feast** is Emeritus Professor of Astronomy at the University of Cape Town. He was a Director of the South African Astronomical Observatory and has been the Vice-President of the International Astronomy Union.
- **Johannes Wolfgang Fedderke** is Professor and Director of Economic Research South Africa and Professor at the University of Cape Town. Previously he was Professor and Gencor Chair in Economics at the University of the Witwatersrand.
- **Johannes Gerhardus Field** is Professor of Zoology at the University of Cape Town, Chair of the Global Ocean Observing System (GOOS) of UNESCO AND ICSU and has been President of the Scientific Committee on Oceanic Research (SCOR).
- **Brian Figaji** is a retired Professor, and was previously Vice-Chancellor of the (then) Peninsula Technikon
- **Rosalie Finlayson** is Professor and Acting Director: Academic Planning at the University of South Africa. She has served as the Deputy Head of the Department of African Languages at UNISA.
- **Peter I Folb** was Professor and Head of Department of Pharmacology at the University of Cape Town. He is now an advisor and project leader to the MRC programme on indigenous medicines.
- **Sharon Fonn** is Professor and Head of the School of Public Health, University of the Witwatersrand. She has been involved in an international initiative with the World Health Organisation, the Francis Xavier Bagnoud Centre for Health and Human Rights of the Harvard School of Public Health.
- **Richard Francis Fuggle** was the Shell Chair of Environment at the University of Cape Town. He is the founder and Director of the University's Environmental Evaluation Unit.
- **Christoph Friedrich Garbers** was the President of the CSIR, and former chairperson of the NRF Board. He is currently Professor of Organic Chemistry at the University of Stellenbosch
- **Geoffrey Graham Garrett** is Chief Executive of Australia's Commonwealth, Scientific and Industrial Research Organisation (CSIRO). He was Head National Materials Research Institute, Executive Vice President: Operations and President and CEO at the CSIR.
- **Jan Collins Geertsema** is the Quality Manager of the Faculty of Natural Sciences at North West University at Potchefstroom. Previously he was Dean of Research, Dean of the Faculty of Natural Science and Professor of Statistics at the University.
- **Gert Johannes Gerwel** is Chancellor of Rhodes University, Distinguished Professor in the Humanities at University of the Western Cape and Honorary Professor in the Humanities at University of Pretoria. Chairman of the Human Sciences Research Council, Nelson Mandela Foundation, Mandela Rhodes Foundation, Institute for Justice and Reconciliation and the African Centre for the Constructive Resolution of Disputes. He served as Director-General in the Office of President Mandela and Secretary of the Cabinet.
- **Wieland Gevers** was Executive Officer of the Academy of Science of South Africa. He was previously Senior Deputy Vice-Chancellor at the University of Cape Town, President of the South African Biochemical Society, President of the Royal Society of South Africa and President of the Academy of Science of South Africa. He directed MRC Research Units at both the University of Stellenbosch and Cape Town.
- **David Glasser** is Professor of Chemical Engineering and Director of the Centre of Material and Process Synthesis at the University of the Witwatersrand. He was Dean of the Faculty of Engineering and Head of Dept of Chemical Engineering. He was awarded the ASSAf Science for Society Gold Medal in 2006.
- **Ivy Marian Archibald Gledhill** is a Fellow of the Defence, Peace, Safety and Security Unit of the CSIR. She was President of the South African Council for Automation and Computation and is President of the South African Association for Theoretical and Applied Mechanics 2000-2008.
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- **Richard Joseph Goldstone** is co-chairperson of the Human Rights Institute of the International Bar Association. He was Justice of the Constitutional Court of South Africa. He served as the Chief Prosecutor of the United Nations International Criminal Tribunals for the former Yugoslavia and Rwanda.

- **Robert Mervyn Gous** is Senior Professor in Animal and Poultry Science at the University of KwaZulu-Natal. He is a past Vice-President of the World's Poultry Science Association and present chairman of the South African Branch of this Association.

- **Glenda Elisabeth Gray** is Professor and Co-chair for HVTN (NIH/HIV Vaccines Trials Network), Perinatal HIV Research Unit, Chris Hani Baragwanath Hospital, a research unit affiliated to the University of the Witwatersrand.

- **Diane Jeanette Grayson** runs her own consultancy, Andromeda Science Education. She was Professor of Science Education at UNISA and Head of the Centre for the Improvement of Mathematics, Science and Technology Education. She was Coordinator of the Science Foundation Programme and Associate Professor.

- **Gideon Petrus Greyvenstein** is General Manager at the Pebble Bed Modular Reactor (PBMR) and was Professor of Thermal Fluids and Thermodynamics of the University of the North-West.

- **Nicolaas Johannes Grove** is Registrar of the University of Pretoria. Previously, he was Professor Department of Mercantile and Labour Law and Professor Department of Private Law.

- **Ariff Ahmed Haffejee** is Professor of Surgery and Chief Specialist Surgeon at the University of KwaZulu-Natal.

- **Fritz JW Hahne** was Professor of Theoretical Physics and Dean of Science at the University of Stellenbosch.

- **Ray Haines** is retired Professor from the University of KwaZulu-Natal, now at the University of Cape Town. He was Professor of Inorganic Chemistry at the University of Natal, Pietermaritzburg, and directed the University of Natal/CSIR Unit of Metal Cluster Chemistry.

- **Ronald Harley** is Professor at the Georgia Institute of Technology, Atlanta, USA. He was Professor of Electrical Machines and Power Systems, Department Head of Electrical Engineering and for some periods also the Dean of Engineering at the University of Natal.

- **Susan Therese Largier Harrison** is Professor in the Department of Chemical Engineering, University of Cape Town and Director of the Bioprocess Engineering Research Unit.

- **Rashid Hassan** is Director of the Centre for Environmental Economics and Policy in Africa, University of Pretoria.

- **Manfred Armin Hellberg** is Emeritus Professor of Physics and Senior Researcher Associate at the University of KwaZulu-Natal. He was Professor and Head of Department, Dean of Science and was twice Pro Vice-Chancellor at the University of KwaZulu-Natal.

- **Fred Thomas Hendricks** is Dean of Humanities at Rhodes University.

- **Winston Hide** is Professor and Director of the South African National Bioinformatics Institute at the University of the Western Cape.

- **Diane Hildebrandt** is the Unilever Professor of Chemical Engineering at the University of Witwatersrand.

- **Michael Johann Richard Hoch** is an Honorary Research Fellow at the University of the Witwatersrand, and Visiting Research Scientist at the National High Magnetic Field Laboratory, Tallahassee, FL, USA. He was City of Johannesburg Professor of Physics and Head of the Physics Department and served as Dean of Science at the University of the Witwatersrand.

- **Jan-Hendrik Servaas Hofmeyr** is Professor in the Department of Biochemistry at the University of Stellenbosch. He is a member of the Programme Committee of the Stellenbosch Institute of Advanced Study.

- **Catherine A Odora Hoppers** was a Professor at the University of Pretoria, specialising in indigenous knowledge.
• Sarah Jane Howie is Professor and Director of the Centre for Evaluation and Assessment in the Faculty of Education at the University of Pretoria. Previously she was a Research Specialist at the Human Sciences Research Council.

• Henk Huismans was Professor and Head of the Department of Virology, and Director of the Molecular Biology of Orbiviruses Research Group, at the University of Pretoria.

• Brian John Huntley is Emeritus Professor in the Department of Botany, University of Cape Town, previous CEO of the South African National Biodiversity Institute (SANBI), He continues to serve as an advisor to SANBI on strategic projects.

• Gregory Dudley Hussey is Professor and Interim Director of the Institute of Infectious Diseases and Molecular Medicine at the University of Cape Town. Previously, he was Head of the Pediatric Infectious Diseases Unit in the School of Child and Adolescent Health at UCT.

• David Harris Jacobson is a UK Chartered Engineer. He was a Professor at the Department of Computational and Applied Mathematics University of the Witwatersrand, Associate Professor, Harvard University and he has been an Honorary Professor at the University of the Witwatersrand.

• Wilmot James is Executive Director of the Africa Genome Education Institute, and a Board member of the Ford Foundation. He was previously Dean of the Faculty of Humanities and Professor of Sociology at UCT, and Director of IDASA.

• Jonathan David Jansen is Professor of Curriculum Studies and formerly the Dean of the Faculty of Education at the University of Pretoria. He previously was appointed as the Administrator of the Durban University of Technology.

• Estrelita Janse van Rensburg is Professor and Head of Department of Medical Virology at the University of Pretoria. She is also a part-time Professor in the Department of Virology at the University of Limpopo.

• Hendrik Christoffel Janse van Rensburg is Director of the Centre for Health Systems Research & Development at the University of The Free State. Formerly, he was Head the Department of Sociology.

• Mohamed S. Jeenah is Deputy Vice-Chancellor, Research at the Nelson Mandela Metropolitan University.

• Trevor Jenkins is Professor Emeritus and Honorary Professorial Research Fellow, Division of Human Genetics, School of Pathology, National Health Laboratory Service at the University of the Witwatersrand. He was Professor and Head, Department of Human Genetics and Director at the University of the Witwatersrand. He was awarded the ASSAf Science for Society Gold Medal in 2003.

• Colin Thomas Johnson is Vice-Principal and Pro Vice-Chancellor of Rhodes University. He was Professor and CEO of the Agricultural Research Council. He has been Professor of Botany and Dean of the Faculty of Natural Science at the University of the Western Cape.

• Eugene Llewellyn Julies is Executive Director of Warrodoms Consulting, and Chief Technical advisor to the Ministry of Commerce in Afghanistan. He was the CEO of the South African Bureau of Standards.

• Eliot Kahn (deceased) was Dean of Law at the University of the Witwatersrand.

• Loveness Kaunda is Director of the International Academic Programmes Office at the University of Cape Town. Previously she was Dean of Students at the University of Cape Town.

• Michael Charles Kew is Honorary Professor, Department of Medicine, University of Cape Town, and Emeritus Professor and Honorary Professional Research Fellow, Department of Medicine, University of Witwatersrand.

• Rifka Kfir is CEO of the Water Research Commission and was Executive Director: Knowledge Management at the National Research Foundation (NRF).

• Benito Makhala Khotse is Visiting Professor of Comparative Education at Seton Hall University, New Jersey, USA. He was Deputy Vice-Chancellor at the Free State University in Bloemfontein.
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- **Ralph Emmanuel Kirsch** was Professor in the Department of Medicine, Faculty of Health Sciences, University of Cape Town. He has served as President of the Colleges of Medicine of South Africa.

- **Johann Frederick Kirsten** is Professor and Head of the Department of Agricultural Economics, Extension and Rural Development at the University of Pretoria.

- **Duard Godfried Kleyn** is Professor and Dean of the Faculty of Law at the University of Pretoria.

- **Horst Helmut Klump** is Professor emeritus of Biochemistry at the University in Cape Town and Visiting Professor in the Department of Chemistry and Biological Chemistry, Rutgers University, New Jersey, USA.

- **Carolina Koornhof** is Dean of the Faculty of Economic and Management Sciences at the University of Pretoria.

- **Girish Jayant Kotwal** was Professor and Chair of Medical Virology and member of the Institute of Infectious Diseases and Molecular Medicine at the University of Cape Town.

- **Bernard Christiaan Lategan** is Director of the Stellenbosch Institute for Advanced Study. He was dean of the Faculty of Arts and Social Sciences, and served on the Council of the University of Stellenbosch.

- **Attie Johannes Ligthelm** is Dean of the School of Dentistry of the University of Pretoria. He joined the Faculty of Dentistry and served as Head of the Department of Oral Pathology and Oral Biology at the University of Pretoria.

- **Brenda Louw** is Professor in the Department of Communication Pathology at the University of Pretoria. She is also the Director of the Centre for Early Intervention in Communication Pathology.

- **Johann RE Lutjeharms** is the Professor and head of Ocean Climatology at the University of Cape Town.

- **Silvana Luyckx** (deceased) was a Visiting Professor at the School of Chemical and Metallurgical Engineering, University of the Witwatersrand.

- **Christopher Cuthber Posela Madiba** is Chief Director for Systems Development and Coordination in the Department of Education. He was a lecturer in Physics at the University of Witwatersrand and was an Associate Researcher at the Schonland Centre for Nuclear Sciences.

- **Nomathemba Virginia Magi** is a Project Manager at the Department of Education. She was the Dean of the Faculty of Education at the University of Zululand.

- **Sunil Dutt Maharaj** is Professor of Applied Mathematics in the School of Mathematical Sciences at the University of KwaZulu-Natal and Director of the Astrophysics and Cosmology Research Unit. He was Head of School of Mathematical Sciences.

- **Thokozani Majozzi** is an Associate Professor, Department of Chemical Engineering at the University of Pretoria and Vice-Chairman of the Professional Advisory Committee in Chemical Engineering of the Engineering Council of South Africa.

- **William M Makgoba** is Professor and Vice-Chancellor at the University of KwaZulu-Natal. Previously, he was President of the Medical Research Council and Deputy Vice-Chancellor at the University of the Witwatersrand. He was awarded the ASSAf Science for Society Gold Medal in 2003.

- **Duma Enoch Malaza** is Executive Director of Higher Education South Africa. He is the former Director of Quality Assurance at the University of Pretoria. He has served as Director of Planning University of Cape Town, Deputy Vice-Chancellor and Acting Vice-Chancellor at the University of Transkei.

- **Johannes Albertus Geldenhuys Malherbe** is retired Professor of Electronic and Computer Engineering at Pretoria University. He was Dean of Engineering and Vice-Principal at the University of Pretoria. He was Managing Director of the Laboratory for Advanced Engineering.

- **Chabani Noel Manganyi** is Chairman of the Council for Higher Education (CHE) and was Vice-Principal of the University of Pretoria. He has been Vice-Chancellor of the University of the North and Director-General in the Department of Education.
• Thabane Vincent Maphai is Chairman of BHP Billiton SA and formerly Corporate Affairs Director of South African Breweries and non-Executive Chair of Castle Brewing, Namibia. He was appointed Professor at the University of Cape Town. He was Research Executive Director of Social Dynamics at the Human Sciences Research Council.

• Adrian David Marais is Head of the Division of Lipidology in the Department of Internal Medicine at Groote Schuur Hospital and has a joint appointment with the University of Cape Town Health Sciences Faculty.

• Jacobus Gideon Maree is Professor in the Faculty of Education at the University of Pretoria. He is also an Editor of Perspective in Education and the South African Journal of Psychology.

• Tshilidzi Marwala is the Carl and Emily Fuchs Chair of Systems and Control Engineering as well as the South Africa Research Chair in Systems Engineering, both at the University of the Witwatersrand.

• Thoko V Mayekiso is Professor and Acting Dean and Head of School of Human and Community Development, University of the Witwatersrand.

• Bongani Mawethu Mayosi is Professor and Head of the Department of Medicine at the University of Cape Town and Groote Schuur Hospital, and Consultant Cardiologist

• Anthony David Mbewu is the President of the Medical Research Council of South Africa and a Visiting Professor in Cardiology and Internal Medicine at the University of Cape Town. Previously, he was the Executive Director for Research at the MRC.

• Veronica McKay is Professor and the Director of the Institute of Adult Basic Education and Training at the University of South Africa.

• Barry Vincent Mendelow is Emeritus Professor in the Department of Molecular Medicine and Haematology at the University of the Witwatersrand. He was Professor and Head of Pathology at the Chris Hani Baragwanath Hospital and Head of the Department of Molecular Medicine and Haematology at the University of Witwatersrand.

• Rajend Mesthrie is Professor of Linguistics at the University of Cape Town and holder of an NRF Research Chair. He is currently President of the Linguistics Society of Southern Africa.

• Joseph Philip Michael is Professor of Organic Chemistry at the University of the Witwatersrand. He has served as Assistant Dean in the Faculty of Science, and is Deputy Head of the School of Chemistry.

• John Robert Midgley is Professor of Law and Dean of the Faculty of Law at Rhodes University. He was a Research Fellow at the University of Leicester.

• Duncan Mitchell is Professor of Physiology at the University of the Witwatersrand.

• Valerie Mizrahi is Research Professor, Director of the Molecular Mycobacteriology Research Unit, Co-Director of the DST/NRF Centre of Excellence for Biomedical TB Research at the University of the Witwatersrand and National Health Laboratory Service.

• Philemon Mphathi Mjwara is the Director-General of the Department of Science and Technology. He was the Group Executive of Research and Development: Strategic Human Capital Development at the Council for Scientific and Industrial Research.

• Renosi D Mokate is Deputy Governor and Executive Director at the Reserve Bank. She previously served as Chairperson of the Financial and Fiscal Commission.

• Khotso Mokhele is the Chairperson of the National Skills Initiative and -President of ICSU: Africa Regional Office. Previously he was President of the National Research Foundation.

• Harm Moraal is Professor, and Director of the Antarctic Research Programme at the Potchefstroom University. He was previously Associate Professor and Head/Director of School of Physics.

• Vincent Clifford Moran is Emeritus Professor from the University of Cape Town. He holds a research position in the Zoology Department at UCT, where he was Dean of the Faculty of Science.
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- **Lynn Morris** is a Chief Specialist Scientist and Head of the AIDS Unit at the National Institute for Communicable Diseases in Johannesburg. She holds a joint appointment (Associate Professorship) at the University of the University of the Witwatersrand.

- **Johann Mouton** is Professor in Sociology and Social Anthropology and Director of the Centre for Research on Science and Technology at Stellenbosch University. He was formerly Head of the Centre for Research Methodology at the HSRC and Executive Director of the Centre for Science Development.

- **Bangilizwe R Mqeke** is Professor and Dean of law at Rhodes University. He is also an Advocate of the High Court of South Africa.

- **Sospeter Mwijarubi Muhongo** is the Regional Director of the ICSU Regional Office for Africa. He is the Chair of the UN-proclaimed International Year of Planet Earth (IYPE). He is Professor of Geology, Co-Editor in Chief of the Journal of African Earth Sciences, an Associated Editor of Precambrian Research and -President of the Commission of Geological Map of the World (CMGW)

- **Johan Pieter Muller** is Professor and Deputy Dean for Research and Postgraduate Affairs and Director of the Graduate Humanitie at the University of Cape Town.

- **Marie E Muller** is Professor and Dean of the Faculty of Humanities at the University of Pretoria.

- **Sagadevan Govindasamy Mundree** is the former CEO of the PlantBio Trust. He was an Associate Professor in the Department of Molecular and Cell Biology at the University of Cape Town.

- **Christina Mynhardt** is Professor in the Department of Mathematics and Statistics at the University of Victoria, Canada.

- **Mbulelo Vizikhungo Mzamane** is Director of the Centre for African Literacy Studies at the University of KwaZulu-Natal and the former Rector of the University of Fort Hare.

- **Gonasageran Naidoo** is Professor in the School of Biological and Conservation Sciences, University of KwaZulu Natal. He served the former University of Durban-Westville as head of Botany, Director of the School of Biology and Deputy Dean of the Science Faculty.

- **Shamila Nair** is Research Programme Manager, European Commission, DG Research at the European Union in Brussels. Previously she was Deputy Scientific Coordinator, European Food Safety Authority, EU, Brussels.

- **Luigi Renzo Nassimbeni** is Senior Research Scholar of the University of Cape Town. He held the chairs of Chemical Crystallography and Physical Chemistry at UCT.

- **Nicoli J Nattrass** is Professor or Economics and Director of the Centre for Social Science Research (CSSR) at UCT.

- **Daniel James Ncayiyana** is honorary Professor of Obstetrics and Gynaecology at the Universities of Cape Town and KwaZulu-Natal. He serves as Advisor to the President of the HSRC. He was Acting Vice-Chancellor, University of Transkei, Deputy Vice-Chancellor at the University of Cape Town and Vice-Chancellor, Durban Institute of Technology.

- **Njabulo Simakahle Ndebele** was Professor and Vice-Chancellor of the University of Cape Town. He has served as Vice-Chancellor of the University of the North, Vice-Rector of the University of the Western Cape, and Pro-Vice-Chancellor National University of Lesotho.

- **Phuthi E Ngoepe** is Professor and Director of the Materials Modelling Centre of the University of Limpopo.

- **Mokubung Nkomo** is Professor in the Department of Education Management at the University of Pretoria. He was the former President, as well as the former Executive Director of the Group: Education and Training, at the HSRC.

- **Wiseman Nkuhlu** is chairman of the NEPAD Steering Committee and was the economic advisor to President Thabo Mbeki.
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- **Jo MF Noero** is Professor and Director in the School of Architecture at the University of Cape Town. He was the Ruth and Norman Moore Chair of Architecture at Washington University and Director of Graduate Studies.

- **Loyiso Gordon Nongxa** is Professor, and Vice-Chancellor and Principal at the University of Witwatersrand. He was previously Deputy Vice-Chancellor: Research at the University of Witwatersrand, and Dean of Science at the University of the Western Cape.

- **Tebello Nyokong** is Professor of Physical Chemistry at Rhodes University. The Order of Mapungubwe: Bronze was bestowed on her by President Mbeki. She was also the winner of the SABC2/Shoprite-Checkers Woman of the year in Science and Technology in 2004.

- **Cyril Thomas O’Connor** is Dean of the Faculty of Engineering and the Built Environment and Director of the Mineral Processing Research Unit at the University of Cape Town. Previously, he was Professor and Head of the Department of Chemical Engineering at UCT.

- **Darragh O’ Donoghue** is Co-Director of the Whole Earth Telescope, and Head of the Instrumentation Division at the South African Astronomical Observatory (SAAO).

- **Douglas William Oliver** is Professor of Pharmacology and the Director of the School of Pharmacy at the North-West University. He was Director of the Focus Area for Drug Design and Development of North-West University.

- **Gilbert Oke Martin Onwu** is Professor of Chemical Education in the Faculty of Education and Head of the Department of Science, Mathematics and Technology Education at the University of Pretoria. He was Professor and Head of the Institute of Science and Mathematics Education University of Venda.

- **Phillip Onyebujoh** is the Manager for Proof of Principle and Implementation Research on Tuberculosis and Leprosy at the World Health Organisation.

- **Frederick Mark Orkin** is Director General at South African Management Development Institute. Previously he was President and CEO of the Human Sciences Research Council, Head of Statistics South Africa and Professor of Social Research Methodology in the Faculty of Management at the University of the Witwatersrand.

- **Nicky Gopalan Padayachee** was Professor and Dean of the Faculty of Health Sciences, University of Cape Town. He is President of the Health Professions Council of South Africa.

- **Norman Pammenter** is a Professor Emeritus and Senior Research Associate of the University of KwaZulu-Natal, and is a Fellow of the University of KwaZulu-Natal.

- **Mohammed Iqbal Parker** is the Director of the Africa component of the International Centre for Genetic Engineering and Biotechnology, Institute for Infectious Disease and Molecular Medicine at the University of Cape Town. He was President of the South African Society of Biochemistry and Molecular Biology.

- **John E Parkington** is Professor in the Department of Archaeology at the University of Cape Town.

- **Adrian (Adi) Walter Paterson** is General Manager: Business Development and Operations at PBMR. Previously, he was a Deputy Director-General in the Department of Science and Technology. He has served on the Executive of both the CSIR and the University of Pretoria. He was a Member of the National Advisory Council on Innovation and is a Member of the South African Academy of Engineering.

- **Robert Clive Pattinson** is Professor and Clinical Head of the Department of Obstetrics and Gynaecology at the University of Pretoria and Chief Specialist at Kalafong Hospital. Previously he was a Director of the Maternal and Infant Health Care Strategies Research Unit at the MRC.

- **William Pick** was Professor of Community Health at the University of the Witwatersrand, and Interim President of the Medical Research Council.

- **Pragasen Pillay** is a Professor in the Department of Electrical & Computer Engineering and holds the Jean Newell Distinguished Professorship in Engineering at the Clarkson University, New York. He is a part-time Professor at the University of Cape Town.
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- Carl Wilhelm Irene Pistorius is the Vice-Chancellor and Principal of the University of Pretoria. He was the Chairperson of the National Advisory Council on Innovation (NACI). Previously, he was President of the Corrosion Institute of Southern Africa.

- Nyameko Barney Pityana is Principal and Vice-Chancellor of the University of South Africa. He is Chairperson of Higher Education South Africa and Chairman of the African Council for Distance Education. He was previously Chairperson of the South African Human Rights Commission.

- Hans Jurgens Potgieter is a retired Professor and Dean of Microbiology in the Faculty of Science at the University of the Free State.

- Anastassios Pouris is Professor and Director of the Institute for Technological Innovation at the University of Pretoria. Previously, he was CEO of the Foundation for Education Science and Technology (FEST).

- Bernard Alexander Prior is Professor of Microbiology and the former Chairman of School of Biological Sciences at the University of Stellenbosch. He was the Director of the UNESCO Industrial Biotechnology.

- HW Pritchard is Head of Research in the Seed Conservation Department of the Royal Botanic Gardens Kew, UK and a member of Kew's Senior Science Group. He is a Founding Trustee of the International Society for Seed Science, Chair of the Seed Storage Committee of the International Seed Testing Association, Governor of Writtle College, partner institute to the University of Essex, UK and Fellow of the Institute of Biology and Linen Society.

- Otto Walter Prozesky was Vice-Principal of the University of Pretoria, first Director of the National Institute of Virology and then President of the Medical Research Council. He is a Fellow and past President of the Royal Society of South Africa, and a Member of the Suid-Afrikaanse Akademie vir Wetenskap en Kuns. He is presently Vice-Chairman of the Poliomyelitis Research Foundation.

- Mapule F Ramashala is the Chair of the MRC and former Vice-Chancellor of MEDUNSA.

- Raj Ramesar is Professor and head of the Division of Human Genetics at the University of Cape Town. He is also the Director of the MRC Human Genetics Research Unit, and CANSA's Colorectal Cancer Research Consortium.

- Mamphela Aletta Ramphele is the Chair of Circle Capital Ventures. She is a former Managing Director of the World Bank and former Vice-Chancellor of the University of Cape Town.

- Michelle Ramsay is Professor at the University of Witwatersrand and Head of the Molecular Genetics Laboratory in the Division of Human Genetics at the National Health Laboratory Services.

- Douglas Eric Rawlings is Professor and Head of the Department of Microbiology and Deputy Dean of the Faculty of Natural Sciences at the University of Stellenbosch. He was formerly a Professor of the Microbiology Department at University of Cape Town.

- Batmanathan Dayanand Reddy holds the South African Research Chair in Computational Mechanics and Director of the Centre for Research in Computational and Applied Mechanics at the University of Cape Town. He has served as Dean of the Faculty of Science at the University of Cape Town.

- Priscilla Reddy is Professor and Researcher at the Medical Research Council.

- Vera Helen Rees is Professor and Executive Director in the Department of Obstetrics and Gynaecology at the University of the Witwatersrand. She has served as the Chairperson of Medicines Control Council.

- Carolus J Reinecke was Professor of Biochemistry and Vice-Chancellor, of the then Potchefstroom University for CHE.

- Linda Marlene Richter is Executive Director of Child, Youth & Family Development at the Human Sciences Research Council and an Honorary Professor at the University of the Witwatersrand.

- Terence John Robinson is a Professor of Zoology and Head of the Department of Botany and Zoology at the University of Stellenbosch. He was a research associate in Dr David Ledletter's laboratories at the Institute for Human Genetics, Baylor College of Medicine at the Texas Medical Centre in Houston.
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• Justus Christiaan Roux is Professor and Director of the Centre for Language and Speech Technology at Stellenbosch University.

• Heinz Rüther is Professor for Geomatics at the University of Cape Town. He was Head of the Department of Surveying at the University of Cape Town.

• Edward Peter Rybicki is a Professor in Microbiology in the Dept of Molecular and Cell Biology and Member of the Institute of Infectious Disease and Molecular Medicine at the University of Cape Town.

• Roelf Feenstra Sandenbergh is Professor and Dean of the Faculty of Engineering, Built Environment and Information Technology at the University of Pretoria.

• Lawrence Schlemmer is Executive Director of the strategic research company MarkData. He was Vice-President of the HSRC, Professor and Director of the Centre for Policy Studies at the University of the Witwatersrand.

• Mary Cathrine Scholes is a Professor in the School of Animal, Plant and Environmental Sciences at the University of the Witwatersrand. She has worked at North Carolina State University, the National Centre for Atmospheric Research, Colorado State University and in the Amazon of Peru.

• Robert J Scholes is a CSIR Fellow in the Natural Resources and the Environment division. He was a leading participant in the 5-year international Millenium Ecosystem Assessment.

• Barry David Schoub is Director of the National Institute for Communicable Diseases formerly the National Institute for Virology, the major repository of expertise in public health aspects of communicable diseases, nationally and on the African continent.

• Casper Schutte was Professor of Chemistry at the University of South Africa, and interim manager of the South African Bioinformatics Initiative.

• Soraya Seedat is Professor and Co-Director of the MRC Unit on Anxiety and Stress Disorders at the University of Stellenbosch.

• JR ‘Bob’ Seretlo is Professor Emeritus of Physics of the University of Fort Hare. He was Dean of the Faculty of Science at the University of Fort Hare.

• Mamokgethi Setati is Professor and Executive Dean of The College of Science, Engineering and Technology at the University of South Africa; honorary Professor of mathematics education at Wits University and Professor extraordinaire at the Tshwane University of Technology.

• Lawrence Vere Shannon is a retired Honorary Professor of Oceanography. He was Director of the South African Sea Fisheries Research Institute (now Marine and Coastal Management).

• John Francis Sharpey-Schafer is a retired Nuclear Physicist attached to the Universities of Western Cape and Zululand. He was Director iThemba LABS.

• Olive Shisana is the President and CEO at the Human Science Research Council. She was Executive Director of the Social Aspects of HIV/AIDS and Health at the HSRC, Professor and Head of Department of Health Systems Management and Policy at MEDUNSA and DG of the Department of Health.

• Sibusiso Sibisi is the President and CEO of the Council for Scientific and Industrial Research. He was Executive Director (R&D) at Plessey South Africa and Deputy Vice-Chancellor for Research and Innovation, University of Cape Town.

• Roy W Siegfried is Emeritus Professor at the University of Cape Town. He has served as Director of the Sir Percy Fitzpatrick Institute of African Ornithology.

• Silvester Ron Simango is a Senior Lecturer in the Department of English Language and Linguistics at Rhodes University. He taught at the University of the North (now the University of Limpopo) and the University of Malawi.
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- **Ratnamala Singh** is Professor of International Higher Education Policy In the Centre for Higher Education Research and Information at the Open University In the United Kingdom. Previously she was Executive Director of the Higher Education Quality Committee, Council for Higher Education.

- **Beric William Skews** is Director of the Flow Research Unit at the University of the Witwatersrand. He was Manager of R&D at Eskom.

- **Hendrik Christoffel Snyman** is retired Emeritus Professor of Physics at the Nelson Mandela Metropolitan University and former Rector and Vice-Chancellor of the Port Elizabeth Technikon.

- **Himla Soodyall** is Associate Professor at Wits and the Director of the MRC/NHLS/Wits Human Genomic Diversity and Disease Research Unit at the National Health Laboratory Service & Wits University. She is a Principal Medical Scientist at the NHLS.

- **Theodor John Stewart** is Professor in the Department of Statistical Sciences at the University of Cape Town. He headed the CSIR's Division of Operations Research and Statistics and was Head of the Department of Statistical Sciences at UCT.

- **Pieter Streicher Steyn** is President of IUPAC, and Professor of Chemistry and Senior Director of Research (Science) at Stellenbosch University. He was Director of the Division of Food Science and Technology of the CSIR, Head of the SASOL Centre for Chemistry and SASOL Professor of Chemistry at Potchefstroom University. He was awarded the ASSAf Science for Society Gold Medal in 2007.

- **Pieter Helenius Stoker** is Research Professor Emeritus at the School of Physics, Potchefstroom Campus, North West University. He was head of Department of Physics, Potchefstroom University for CHE.

- **Anton Stroh** is Dean of the Faculty of Natural and Agricultural Sciences at the University of Pretoria and is also a Director on the Board of Citrus Research International

- **Rolf Heinrich Stumpf** is Vice-Chancellor of the Nelson Mandela Metropolitan University in Port Elizabeth. He was President of the Human Sciences Research Council and served as Deputy Vice-Chancellor at the University of Stellenbosch.

- **Gerald Edwin Swan** is Head of the Department of Pharmacology and Toxicology and Dean of the Faculty of Veterinary Science of the University of Pretoria.

- **Chris F Swanepoel** is Professor and Vice-Principal: Academic & Research at the University of South Africa.

- **Nthoana Tau-Mzamane** is the former President/CEO of Agricultural Research Council. She has served as the Deputy Director-General and Head of the Department of Agriculture Land and Environment in the Limpopo Province.

- **John Reginald Nuttall Taylor** is Professor of Food Science at the University of Pretoria. He was Head of the Food Science Department at the University of Pretoria.

- **Petro Terblanche** is Professor and Executive Director of the Technology and Innovation Directorate at the Medical Research Council of South Africa. She was formerly the head of the CSIR's Biochemtek division.

- **Jennifer Ann Thomson** is a Professor in the Department of Molecular and Cell Biology, UCT. She was Professor and Head of the Department of Microbiology, UCT; Director of the Laboratory for Molecular and Cell Biology, CSIR; and Associate Professor, Department of Genetics, WITS University.

- **Phillip Vallentine Tobias** is Professor Emeritus and Honorary Professorial Research Fellow in the School of Anatomical Sciences, University of the Witwatersrand. He has been Honorary Professor at University of Pennsylvania, University of Vienna, University of Balearic Isles, Cambridge University, University of Florence, Andrew D. White Professor-at-Large, Cornell University and Director, Palaeo-Anthropology Research Unit/Sterkfontein Research Unit.

- **Peter Daughtrey Tyson** is Professor Emeritus, former Deputy Vice-Chancellor and Vice-Principal, Director of the Climatology Research Group, University of the Witwatersrand. He has served as the Vice-President ICSU and the Chairman START Scientific Steering Committee.
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- **Peter Christopher Julius Vale** is Nelson Mandela Professor of Politics in the Department of Political and International Studies at Rhodes University. He was Director of Research at the SA Institute of International Affairs and was formerly a Professor at the University of the Western Cape.

- **Annél van Aswegen** is Director: Human Resources at the University of Pretoria. She was Acting Registrar: Professional Services and a member of the Executive at the University of South Africa.

- **Jan Horn van Heerden** is Professor and Head of Department of Economics at the University of Pretoria.

- **Willem Francois Petrus van Heerden** is Professor and Head of the Department of Oral Pathology and Oral Biology in the School of Dentistry at the University of Pretoria.

- **Paul David van Helden** is Professor and Head of Medical Biochemistry at Stellenbosch University. He is the Director of the MRC/US Centre for Molecular and Cellular Biology, and co-director of the DST Centre of Excellence in molecular tuberculosis research.

- **Anton Albert van Niekerk** is Professor of Philosophy and Director of the Centre for Applied Ethics and Head of the Unit for Bioethics at the University of Stellenbosch. Previously, he was Chair of the Philosophy Department at Stellenbosch.

- **Frederik van Niekerk** is Executive Director: Research and Innovation at North West University. He previously held senior positions at NECSA, Denel Aviation and PBMR. He joined the then Potchefstroom University in 2001 as Vice-Rector: Technology and was appointed Vice-Rector: Academic in 2002.

- **Johan van Staden** is Professor Emeritus and Director of Research Centre for Plant Growth and Development, School of Biological and Conservation Sciences University of KwaZulu Natal. He is the Editor of the South African Journal of Botany, Associate Editor of the Journal Ethnopharmacology and Managing Editor of Plant Growth Regulation.

- **Johan Daniel van Wyk** is Emeritus Professor of Electrical Engineering at the University of Johannesburg. He was Professor of Electrical and Computer Engineering at Virginia Polytechnic Institute and State University. Research Leader in the National Science Foundation Engineering Research Centre for Power Electronic Systems, Blacksburg, Virginia, USA and is at present Research Professor at this centre, He was Extraordinary Professor at the University of Pretoria and is also Visiting Professor at the University of Johannesburg.

- **Johan van Zyl** is Professor of Agricultural Economics and the Group Chief Executive Officer of Sanlam Limited. He was previously CEO of Santam and Vice-Chancellor and Principal at the University of Pretoria.

- **Daniel W Verwoerd** is Research Coordinator of the Faculty of Veterinary Science of the University of Pretoria. He was the founder of the Molecular Biology Section and Director of the Onderstepoort Veterinary Institute of Agricultural Research Council

- **Zeblon Zenzele Vilakazi** is Director at iThemba LABS and was Deputy Director at iThemba LABS. He was a Chairman of South African Institute of Physics (SAIP).

- **Sibusiso Vil-Nkomo** is Professor and Executive Director: Institutional Advancement at the University of Pretoria; he has been Dean of Commerce at the same University.

- **Daniel Visser** is Professor and has served as Head of the Department of Private Law and Dean of Law at the University of Cape Town.

- **Wilma Viviers** is the Director of the School of Economics, Risk Management and International Trade in the Faculty of Economic and Management Sciences at the North-West University (Potchefstroom Campus).

- **James Andrew Volmink** is Professor of Community Health in the Faculty of Health Sciences, Deputy Dean (Research) of the University of Stellenbosch and is Director of the South African Cochrane Centre of the Medical Research Council and the was Professor of Primary Health Care at the University of Cape Town.

- **Gerhard von Gruenewaldt** is Research Advisor to the Wits Foundation and a Consultant to the NRF. He was Vice-President of Foundation for Research Development.
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- **Hester H Vorster** is Professor and Research Director of the Africa Unit for Transdisciplinary Health Research, at the University of North-West.
- **Anthony David Mortimer Walker** is a Professor Emeritus (Physics) at the University of KwaZulu-Natal. He is part time Director of Special Projects in the Research Office and Honorary Research Associate in Physics at the University of KwaZulu-Natal.
- **Brian Warner** is Distinguished Professor of Natural Philosophy at UCT. Previously he was Head of the Department of Astronomy at the same university. He was awarded the ASSAf Science for Society Gold Medal in 2004.
- **Vanessa Jane Watson** is Professor in the School of Architecture, Planning and Geomatrics at the University of Cape Town.
- **Mark Charles M Wentzel** is Professor with the Water Research Group in the Department of Civil Engineering at the University of Cape Town.
- **Patricia Ann Whitelock** has a joint appointment with the South African Astronomical Observatory and the University of Cape Town. She was Acting Director of SAAO.
- **Anna-Lise Williamson** is a Professor at the Department of Clinical Laboratory Service at the University of Cape Town.
- **Francis Wilson** is Professor Emeritus in Economics at UCT. He was for many years the Director of the Southern Africa Labour and Development Research Unit (SALDRU).
- **Brenda Wingfield** is a Professor in the Department of Genetics at the University of Pretoria and Programme Leader of the DST/NRF Centre of Excellence in Tree Health Biotechnology.
- **Michael Wingfield** is Professor and Director Forestry and Agricultural Biotechnology Institute, University of Pretoria. He is also the Director of the DST/NRF Centre of Excellence in Tree Health Biotechnology and Tree Protection Co-operative Programme.
- **Maria Philliphina Wissing** is Professor, School for Psychosocial Behavioural Sciences at the University of North-West.
- **David Randle Woods** has been Vice-Chancellor of Rhodes University and was the Head of the Department of Microbiology and Director of the Microbial Genetics and Industrial Microbiology Research Unit at the University of Cape Town.
- **Hong-Kun Xu** is senior Professor at the University of KwaZulu-Natal. He has held visiting positions at the University of Seville, Spain, the University of Newcastle, Australia, the University of Calabria, Italy, Pukyong National University, Korea, and Tokyo Institute of Technology, Japan.
- **Alphose Zingoni** is Professor of Structural Engineering and Mechanics in the Department of Civil Engineering of the University of Cape Town. He was Dean of the Faculty of Engineering at the University of Zimbabwe.