



SET Professionals WHO'S WHO

in Science, Engineering
and Technology

AGRICULTURE &
FORESTRY



BUILT
ENVIRONMENT



EDUCATION



ENERGY



ENVIRONMENT
BIOLOGY & BIOTECH



GEOLOGY & MINING



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proSET (Professionals in Science, Engineering and Technology) is a membership sector of the National Science and Technology Forum (NSTF) consisting of professional bodies and learned societies in science, engineering, technology (SET) and SET education.



proSET

- promotes professional member-based organisations, SET careers and professionals
- provides platforms for collaboration among the member organisations and policy engagement with government
- strives for appropriate, high quality SET education of an international standard in South Africa (SA)
- inspires the youth to choose a SET career
- provides limited funding for projects in the SET sector

The history of proSET

See the history and milestones of the NSTF at the back of the booklet, which places the development of proSET in context.

In 2003, the Scientific, Engineering, Technological Societies and Allied Professions Group of South Africa – SETAG resulted from a merger between the memberships of NSTF and the Associated Scientific and Technical Societies of South Africa – AS&TS. SETAG was therefore the forerunner of proSET. SETAG existed from 2003 to 2010 when it was renamed as proSET.

In 2012, a new proSET Committee was elected, which has been very active ever since. The Committee meets four times per annum and a General Meeting of proSET membership is held annually.

proSET is not a separate legal entity but is governed by the founding documents of the NSTF.

As a sector of the NSTF, proSET established and annually hosted a proSET President's Forum. This Forum was renamed as the discussion forum, which meets once a year and focusses on issues of cross-cutting interest to the proSET member organisations, including issues related to engineering and education.

proSET projects and grants

During 2011, the NSTF concluded an agreement with the former Directors of the AS&TS to transfer the AS&TS funds to the NSTF. After the AS&TS was disbanded, the funds lay dormant for many years. In 2016 the AS&TS Fund was transferred to the NSTF's custodianship. The founding documents of the AS&TS specified that the funding may only be transferred to an organisation with similar objectives. The funding is therefore ring-fenced for the benefit of proSET projects that are consistent with the mandates of the NSTF and the AS&TS, which are in fact similar. Since 2016 the AS&TS Fund has been managed by the NSTF Secretariat and is audited on an annual basis as part of NSTF.

The following are current categories of funding:

1. proSET – NSTF Awards

This constitutes a modest research grant in the form of a prize for one or two of the NSTF-South32 Award winners in the TW Kambule-NSTF categories.

2. proSET Committee projects

STEMulator.org

The STEMulator, an NSTF-proSET Committee project, is an electronic web-based interactive animated landscape. Clicking on an object, reveals its

structure or workings and the related SET elements. As the user clicks through to various levels, more information is revealed, primarily in visual form. Examples include the inner structure and workings of buildings, dams, cars, airplanes, animals and the human body. Among others, it also shows how SET applies to production processes, supply chains and the links among various parts of a system. This project is aimed at:

- Engaging NSTF and proSET members
- Generating enthusiasm for, enhancing knowledge about and relating information about SET among the public
- Facilitating an interest in SET among school learners
- Providing career guidance information in the SET environment for learners at all school levels
- Enhancing the understanding by the general public and government structures of the role that SET plays in everyday life
- Being available in a practical way to schools and other entities

The project was initially partially sponsored by the Carl & Emily Fuchs Foundation. Various sponsors and partners have since supported the STEMulator.

The proSET members' information booklet

The public at large, government structures and employers in general, as well industry and commerce have a limited understanding of and appreciation for the importance of SET, the relevant professions and the organisations which are focused on SET. In addition, the SET professionals are not sufficiently aware of what the entire SET spectrum offers.

This booklet aims to enhance understanding of the SET environment and the role of the various professions active in these fields. It is in the form of a handy reference document that can be used to:

- promote effective interaction among members
- create awareness and understanding of the professional societies that operate in the fields of SET practice as well as SET education
- facilitate establishing multidisciplinary professional teams cooperating in projects
- enable various stakeholders to be able to connect and collaborate
- constitute a valuable tool for government and other decision makers by means of providing insight into the roles and demonstrating the value of various professions in SET fields
- provide career guidance at schools, showcasing what career opportunities exist in the SET landscape

- assist especially young graduates to establish and build their personal professional networks
- assist professional societies, organisations, associations and professional registration bodies to attract students and graduates to the professions by illustrating what the various associations offer
- enhance the engagement of the SET professionals by employers and the public at large through enhanced visibility

3. Projects of NSTF/proSET member organisations

Invitations to submit proposals were circulated on an annual basis for a number of years since 2013 and selected by the proSET Committee for support. To qualify for a possible grant, a member organisation must be:

- A voluntary association, a non-profit company or a non-profit organisation
- A paid-up member of NSTF in the proSET sector
- Solvent and have other sources of income excluding proSET funding
- Primarily independent from funding by government structures

The projects submitted for consideration must be:

- Related to science, engineering, technology – SET or SET education including mathematics SET awareness raising or related training in these fields
- Of a common or cross-cutting interest to the SET community
- Already well established or be linked to existing projects
- Projects that will have a multiplier effect such as training trainers
- Projects that will have measurable outcomes that include plans to evaluate processes and outcomes
- Projects that promote ongoing professional development of individual members of proSET member organisations

This booklet

The authors reserve the right to edit material supplied by the member organisations. The authors did their utmost best to verify the information in this booklet but cannot be held responsible for any unintentional inaccuracies that may still be present. The authors also do not endorse any of the projects mentioned in the publication, however worthy they may be. Should the reader identify any inaccurate information, please contact us via email at enquiries@nstf.org.za so that we may rectify the problem.

proSET MEMBERS at a glance

Acronym	Name of organisation	Pg
AEASA	Agricultural Economics Association of South Africa	6
AMESA	Association for Mathematics Education of South Africa	6
ASTEMI	Association of Science Technology Engineering Mathematics and Innovation	6
BWIS	Black Women in Science	7
CESA	Consulting Engineers South Africa	7
COET	Chamber of Engineering Technology	8
CorrISA	Corrosion Institute of Southern Africa	8
EAPASA	Environmental Assessment Practitioners Association of South Africa	9
ECSA	Engineering Council of South Africa	10
ESSA	Entomological Society of South Africa	10
FEMSSISA	Foundation for English, Mathematics, Science, Sport & Innovation of South Africa	11
GASA	Geostatistical Association of South Africa	11
GISSA	Geo-Information Society of South Africa	12
GSSA	Geological Society of South Africa	12
GRASSLAND	Grassland Society of Southern Africa	13
IAIAsa	International Association for Impact Assessment South Africa	13
IEEE	IEEE South Africa	14
IITPSA	Institute of Information Technology Professionals South Africa	15
IMESA	Institute of Municipal Engineering of Southern Africa	15
INCOSE	International Council on Systems Engineering	16
MVSSA	Mine Ventilation Society of South Africa	16
ORSSA	The Operations Research Society of South Africa	17
PSSA	Physiology Society of Southern Africa	18
SAAE	South African Academy of Engineering	18
SAAFoST	South African Association for Food Science and Technology	19
SAAM	South African Association for Theoretical and Applied Mechanics	20
SAARMSTE	Southern African Association for Research in Mathematics, Science and Technology Education	20
SAASA	South African Academy for Science and Arts	21
SAASTE	South African Association of Science and Technology Educators	21
SACAC	South African Council for Automation and Control	21

Acronym	Name of organisation	Pg
SACAP	South African Council for the Architectural Profession	22
SACI	South African Chemical Institute	23
SACNASP	South African Council for Natural Scientific Professions	23
SAGA	The South African Geophysical Association	24
SAGS	South African Genetics Society	24
SAIAE	South African Institute of Agricultural Engineers	24
SAICHE	South African Institution of Chemical Engineers	25
SAICE	South African Institution of Civil Engineering	25
SAIEE	South African Institute of Electrical Engineers	26
SAIIE	Southern African Institute for Industrial Engineering	26
SAIF	Southern African Institute of Forestry	26
SAIMENA	South African Institute of Marine Engineers and Naval Architects	27
SAIMC	Society for Automation, Instrumentation, Mechatronics and Computer Engineering	28
SAIMM	Southern African Institute of Mining and Metallurgy	28
SAIP	South African Institute of Physics	29
SAMA	South African Medical Association	29
SAMF	South African Mathematics Foundation	30
SANBI	South African National Biodiversity Institute	30
SANIRE	South African National Institute of Rock Engineering	31
SASA	South African Statistical Association	31
SASAS	South African Society for Animal Science	32
SASAE	South African Society for Agricultural Extension	32
SASBMB	South African Society of Biochemistry and Molecular Biology	33
SASHG	Southern African Society for Human Genetics	33
SASO	South African Science Olympiad	34
SASPP	Southern African Society for Plant Pathology	34
SASRI	South African Sugarcane Research Institute	35
SAT	Society for Asphalt Technology	35
WISA	Water Institute of Southern Africa	36
ZSSA	Zoological Society of Southern Africa	36

The authors acknowledge **The World According to SAICE** initiative that was published annually in the November issues of the *Civil Engineering Magazine* that served as example and inspiration for this publication.

proSET MEMBERS



Agricultural Economics Association of South Africa – AEASA

The Agricultural Economics Association of South Africa is the professional organisation of **agricultural economists** in South Africa. It was established in 1961 to promote among others training, research and interest in agricultural economics. AEASA has positioned itself strategically for the 21st Century to enable it to be relevant for all agricultural economists, thereby assisting them to serve their communities. The shared vision is that AEASA's products and services should support all agricultural economists active in the industry irrespective of race, language, gender, career choice and educational level.



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Association for Mathematics Education of South Africa – AMESA

The Association for Mathematics Education of South Africa is the professional association for **mathematics education** in South Africa. The organisation was founded in 1993 and represents the interests of the discipline and its members at national and provincial level. In general the aims of the Association are to promote mathematics education and in particular, to enhance the quality of the teaching and learning of mathematics in South Africa.

The Association has partnerships with the South African Mathematics Society (SAMS), the South African Mathematics Foundation (SAMF), the South African National Committee of International Mathematics Union (SANCIMU) as well as the Department of Basic Education and the Department of Science and Innovation.

AMESA has organised structures in each of the nine provinces of South Africa. On its website one can learn more about the organisation, its activities, publications, how to become a member, and its governance. The website also features the latest news about AMESA and mathematics education.



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Association of Science Technology Engineering Mathematics and Innovation – ASTEMI

The Association of Science Technology Engineering Mathematics and Innovation

brings organisers of science, technology, engineering, mathematics and innovation (STEMI) Olympiads and competitions together. It is a national, non-profit organisation of independent organisations, universities, teachers, public organisations and volunteers dedicated to improving and promoting science education and providing recognition for outstanding achievement by both learners and educators.

Its aim is to expand Olympiads and competitions to a broader base of learners and educators. Olympiads and competitions have a positive impact on education and on educational institutions in South Africa, recognising the need to promote stronger collaboration in order to meet the challenges of STEM education in South Africa today.



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Black Women in Science – BWIS

Black Women in Science is a registered non-profit company which aims to deliver capacity development interventions that target young black women scientists and researchers. The organisation was founded in 2015 to develop professional research and science conduct, leadership and mentorship skills for women within all scientific disciplines, in tertiary institutions and professional environments nationally and internationally. The organisation promotes a postgraduate culture amongst African students and improves their academic experience by providing support, training, a professional network and exposure to opportunities. In an article in The Conversation the founder, Ndoni Mcunu (now deceased), expresses her view on why there are so few black women in science.



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https://www.facebook.com/BlackWomenInScience/?ref=aymt_homepage_panel



Consulting Engineers South Africa – CESA

Consulting Engineers South Africa is a voluntary association of **consulting engineering firms** with a member base across the country totaling in excess of 585 companies. CESA is the custodian of the wellbeing of the industry supported by member firms who employ approximately 21 000 people.

The organisation serves as a channel for clients to address industry concerns while at the same time providing a platform for the sharing of information with the aim of assisting in optimising the planning and delivery of infrastructure projects both in the public and private sector. CESA is committed to the

promotion of excellence in the consulting engineering industry on behalf of its members and stakeholders. Through its members, CESA seeks to continuously improve the quality of life of people by interpreting the environment and pioneering change in partnering with all key stakeholders. In so doing, CESA strives to enhance the industry and provide a credible impact on all South Africans. CESA members are compelled to subscribe to upholding the integrity of the industry by adhering to a professional code of ethics and providing quality and cost-effective professional consulting engineering services.

CESA has local member branches in the following centres: Cape Town, George, Gqberha (Port Elizabeth), East London, Kimberley, Bloemfontein, Durban, Mbombela, Polokwane, Pretoria and Johannesburg.



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Chamber of Engineering Technology – COET

The Chamber of Engineering Technology was established to **enhance the standing and contribution** of the South African engineering profession in the national interest and to the benefit of society. It monitors engineering education and training standards and cares for the interests of its members.

It is recognised as a voluntary association by the Engineering Council of South Africa (ECSA). It liaises on matters concerning education, qualifications, experience and registration. COET is multi-disciplinary, non-political, voluntary and not-for-profit. It publishes a regular online newsletter. Membership is open to engineers, technologists, technicians and persons associated with engineering in a professional capacity, including specified scope practitioners. Membership categories also include students, graduates and persons in training.



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Corrosion Institute of Southern Africa – CorriSA

The Corrosion Institute of Southern Africa serves a broad spectrum of stakeholders with an interest in **controlling the impact of corrosion** on asset lifecycles, productivity, and human life. These anticorrosion experts ensure that

legacies are preserved, economic imperatives are achieved, and that human lives are enriched and safeguarded in the process. Their activities extend to recognising corrosion as a problem requiring specialised attention, promoting standardisation in corrosion control technology, promoting study and scientific research into corrosion and materials protection technology, and encouraging reporting, discussion and publication of corrosion experience and knowledge. CorriSA offers internationally-acclaimed and accredited NACE training courses. The website includes links to awards and news related to this specialist area.



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Environmental Assessment Practitioners Association of South Africa – EAPASA

The Environmental Assessment Practitioners Association of South Africa (EAPASA) was established in 2012. EAPASA is a legally constituted entity and a statutory body, appointed by the Department of Forestry, Fisheries, and the Environment (DFFE) under Section 24H of the National Environmental Management Act, Act No. 107 of 1998 (NEMA as amended) and Section 24H Registration Authority Regulations as the only registration body for professional Environmental Assessment Practitioners (EAPs) in South Africa. The organisation is also recognized by the South African Qualifications Authority (SAQA) as a Statutory Professional Body in terms of the NQF Act, Act 67 of 2008 (as amended, March 2018). EAPASA exists to promote the advancement of the practice and quality of environmental assessment and management in South Africa in the public interest and in the interest of the environment and in terms of relevant legislation.

EAPASA registers Environmental Assessment Practitioners (EAPs) based on the set of core competencies under the Section 24H Registration Authority Regulations of the National Environmental Management Act (NEMA), Act 107 of 1998, as amended. The organisation also registers Environmental Control Practitioners (ECPs) based on their SAQA recognition and through a set of core competencies in line with environmental compliance issues. The Vision and Mission of EAPASA is to promote public interest through the improvement of the quality of environmental assessment and management practice in South Africa. This is undertaken by establishing, promoting, and maintaining the registration of Environmental Assessment Practitioners (EAPs) in South Africa (SA) in terms of Section 24H of the National Environmental Management Act (107 of 1998) and the registration of ECPs. The role of EAPASA as a quality assurer has been achieved by making EAPASA the only Registration Authority which ensures a regulated, consistent, and improved standard of environmental management in SA.



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Engineering Council of South Africa - ECSA

The Engineering Council of South Africa is a statutory body established in terms of the Engineering Profession Act (EPA), 46 of 2000. The primary role of ECSA is the **regulation of the engineering profession** in terms of this Act and it is the only body in South Africa that is authorised to register engineering professionals and bestow the use of engineering titles, such as Pr Eng, Pr Tech Eng, Pr Techni Eng, Pr Cert Eng, on persons who have met the requisite professional registration criteria. ECSA's core functions include the accreditation of engineering programmes, registration of persons as professionals in specified categories, and enforcing the Code of Conduct for registered persons.

ECSA achieves its vision of engineering excellence, transforming the nation through determining standards for education and accreditation of educational programmes, as well as registration of engineering practitioners. It develops and sustains a relevant, transformed, competent and internationally recognised engineering profession. ECSA educates the public on expected engineering quality standards and protects the interest of the public against sub-standard quality of engineering work. Its regulatory efforts ensure environmental protection. The organisation also engages with government to support national priorities. The website includes *Engenius* for children, latest news, information on continuing professional development and more. ECSA is a member of the International Engineering Alliance, has an Agreement of Organisational Cooperation with the Institute of Engineers of Australia, a Memorandum of Understanding (MOU) with the Engineers Registration Board and an MOU with the Engineering Institution of Zambia.



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Entomological Society of South Africa - ESSA

The Entomological Society of South Africa was founded in 1937. ESSA is a not-for-profit professional society and promotes **entomology** in Africa and communication between entomologists by means of the publication of its

journal, *African Entomology* and its biennial Congresses. It is an independent, professional society that is recognised by the South African Council for Natural Scientific Professions, and is represented on various other scientific bodies. ESSA accommodates all persons who are interested in entomology, both professionals and amateurs.



The Entomological Society
of Southern Africa

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Foundation for English, Mathematics, Science, Sport & Innovation of South Africa - FEMSSISA

The Foundation for English, Mathematics, Sciences, Sports and Innovation of South Africa is a registered non-profit company. It was founded in 1998, when the first Grade Three Mathematics Olympiad was presented by the then Institute for Advancement of Mathematics and Science. Gradually grades one and two papers were introduced and the Olympiads later consisted of two rounds. In 2011 all the Olympiads were merged under one umbrella body: FEMSSISA. Among FEMSSISA's activities are a two-round **Mathematics Olympiad** for grades one to eleven; **teacher development courses**; and **workshops in mathematics problem solving**. The activities arrange participation for South African learners in international mathematics, science and English and Sports Olympiads and contests at, among others, City Montessori Schools in Lucknow, India. Their vision is to provide the resources to address South Africa's issues in respect of mathematics and the sciences.



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Geostatistical Association of South Africa - GASA

The Geostatistical Association of Southern Africa is an association created to **promote the professional interests of geostatisticians** through increasing awareness of geostatistics and the application of spatial statistics in Southern Africa. It achieves its goals by facilitating communication between practitioners and representing the opinions of professional geostatisticians to the public and industry. Historically, the science of geostatistics has been developed within the context of the mining and petroleum industry, but it can also be practically applied in the fields of environment, agriculture, forestry, fishery and epidemiology.



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Geo-Information Society of South Africa – GISSA

The Geo-Information Society of South Africa represents the **geo-information community** in South Africa as a national, unified, representative body to promote and protect the interests of its members on all forums. It provides information on events and training, news including reports, information on government and standards related topics, GIS education, and more. GISSA is registered as a non-profit company.



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Geological Society of South Africa – GSSA

The Geological Society of South Africa is a not-for-profit scientific and professional society for **earth scientists**. It was established in 1895. Their objective is to promote and advance the earth sciences, including studies in the earth sciences, the associated public interest in the earth sciences, the earth sciences professions and the interests of the practitioners in earth sciences, and to encourage and uphold the highest professional and ethical standards amongst members.

The website includes upcoming events and publications focused on the earth sciences. Regular publications include *The South African Journal of Geology* (a peer reviewed scientific journal), *Geobulletin* (a quarterly news journal) and a monthly electronic newsletter. The GSSA runs a strong meeting programme, and has student and professional award programmes. The GSSA is the voluntary association for geology and earth science fields of practice within the South African Council for Natural and Scientific Professions (SACNASP). The South African Institute of Mining and Metallurgy (SAIMM) and GSSA are co-patrons of the SAMREC – SAMVAL Mineral Resource Reporting Codes. The Society has a number of active local branches and specialised divisions. Partnerships and/or informal agreements are in place with the Southern African Institute of Mining and Metallurgy (SAIMM), South African Geophysical Association (SAGA), South African Institute of for Engineering and Environmental Geologists, Geostatistical Association of South Africa, Fossil Fuel Foundation, Geological Society of

America, American Association of Petroleum Geologists and the European Federation of Geologists.



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Grassland Society of Southern Africa – GSSA / Grassland

The Grassland Society of Southern Africa, founded in 1966, is a dynamic and inclusive forum for scientists and practitioners in **rangeland ecology and pasture management**. It champions the sustainable use of rangelands and pastures for the benefit of people and the environment. The Society publishes the *African Journal of Range and Forage Science* and *Grassroots*, a free quarterly online bulletin. An annual Congress, supported by over 180 South African and international delegates, is held each July. The GSSA also holds an annual Research Skills Workshop over a one or two-day period, which has proved immensely popular among students and researchers.

The GSSA has a multi-disciplinary base and promotes interaction between environmental practitioners, scientists and students. Members and associates of the GSSA are active in a range of applied fields such as livestock production, wildlife management, nature conservation, water catchment management, rangeland rehabilitation and socio-economic aspects of rangeland management.



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International Association for Impact Assessment South Africa – IAIAsa

The International Association for Impact Assessment South Africa is the South African affiliate of the international body, IAIA, by means of a Memorandum of Understanding (MOU). It is the leading voluntary association of professionals in the Integrated Environmental Management (IEM) sector as it brings together **researchers, practitioners, and users of various types of assessment tools** in the IEM field.

It functions as a voluntary association of more than 1000 members, representing the interests of environmental practitioners and allied professions. It ensures continuous professional development for their members by offering the latest learnings in the IEM profession in South Africa through regular branch events,

training, and an annual national conference. The organisation shares key learnings in the IEM profession with members by providing frequent newsletters, as well as by means of a set number of branch events which are held in seven of the nine provinces in South Africa.

The organisation prides itself in being a knowledge sharing community of practitioners that promotes sound science and integrated participatory decision making to support sustainable development.

IAIAsa also has an MoU with the International Association for Public Participation Southern Africa (IAP2SA). In addition, IAIAsa is an accredited Voluntary Association with the South African Council for Natural and Scientific Professions (SACNASP). It is the first Voluntary Association to be recognised by the Environmental Assessment Practitioners Association of South Africa.

The Association has close relationships with National Clean Air Association, the Environmental Law Association, and is building other strategic relationships for the benefits of its members.



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IEEE

As a non-profit organisation, IEEE is a world leading professional association for the advancement of technology. The IEEE is over 135 years old. Its name was originally an acronym for the Institute of Electrical and Electronics Engineers, Inc. Today, the organisation's scope of interest has expanded into so many related fields, that it is simply referred to by the letters I-E-E-E (pronounced eye-triple-e).

IEEE is the world's largest technical professional organisation dedicated to **advancing technology** for the benefit of humanity. The organisation and its members inspire a global community to innovate for a better tomorrow through its more than 423 000 members in over 160 countries. It also does this through its highly cited publications, conferences, technology standards, and professional and educational activities. IEEE creates an environment where members collaborate on world-changing technologies – from computing and sustainable energy systems to aerospace, communications, robotics, and healthcare – to engineer a better tomorrow.

IEEE achieves its mission and vision in various parts of the world, via its local organisational units, or IEEE Sections such as the IEEE South Africa Section. The

website for IEEE South Africa provides news, information on events, societies, and affinity groups and includes a resources section.

IEEE

South Africa Section

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Institute of Information Technology Professionals South Africa – IITPSA

The Institute of Information Technology Professionals South Africa is the professional body for **ICT practitioners** in South Africa. It was established in 1957. It was formerly known as the Computer Society South Africa. As a professional body it is recognised by the South African Qualifications Authority (SAQA). The organisation's aims are: to further the study, science and application of Information and Communications Technologies (ICTs), to maintain and promote codes of conduct and ethics, to define and promote standards of ICT knowledge and professionalism, to promote formulating effective policies on ICT and related matters and to extend the knowledge and understanding and use of ICTs in the community. Services include an accredited Professional Member programme that is internationally accredited by the International Professional Practice Partnership (IP3) of the International Federation for Information Processing (IFIP). IITPSA is the South African country member of IFIP and is a member of the African ICT Alliance. The website features news, information on activities, careers.



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Institute of Municipal Engineering of Southern Africa – IMESA

The Institute of Municipal Engineering of Southern Africa promotes the interests of **municipal engineers and their profession**. Its mission is to promote excellence in the engineering profession for the benefit of municipalities and their communities. Municipalities are key role-players in identifying needs, prioritising funding and implementing integrated development planning for community-based programmes.

IMESA is a platform for the exchange of ideas and viewpoints on all aspects of municipal engineering with the aim of expanding the knowledge and best practices in all Local Government municipalities. It represents over 1 400 individual members and a number of companies involved in the field of municipal

engineering and the built environment, as well as representing several Southern African countries. Its head office is in Westville. IMESA has seven branches countrywide. Since 1961, IMESA has been playing a significant role in municipal engineering, sharing knowledge and acting as a catalyst in developing new initiatives. The Institute also advises Councils on municipal engineering matters and serves the broader community through representation on a number of national bodies where it provides input from the perspective of municipal engineers. It offers training, conferences, bursaries and other services to its members.



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International Council on Systems Engineering – INCOSE

INCOSE SA founded in 2002 is the South African chapter of the International Council on Systems Engineering (INCOSE). INCOSE is a not-for-profit membership organisation founded in 1990 to develop and spread the interdisciplinary principles and practices that enable successful systems. It is an open society, espousing systems thinking and systems engineering principles for all. Through organising various activities and in sourcing information it ensures its members are knowledgeable professionals capable of being world-class systems engineers and systems thinkers. The purpose of INCOSE SA is to foster the definition, understanding, and practice of world-class systems engineering in industry, academia, and government.



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Mine Ventilation Society of South Africa – MVSSA

The Mine Ventilation Society of South Africa was formed in 1944. It aims to promote and advance the science and practice of **ventilation engineering, particularly mine ventilation, air quality and associated problems**. Activities include: encouraging member co-operation for a healthy and safe working environment, providing a forum for engagement including communication between regulatory authorities and the industry, propagating knowledge, and promoting professional development. It also produces a journal. The focus is on promoting best practice and high professional standards, and aligning the profession with statutory requirements.

The Society currently has 715 active members. MVSSA members have close ties with colleagues in the Underground Ventilation Committee (UVC) of the North American Society of Mining Engineers and the Mine Ventilation Society of Australia sub-committee of the Australian Institute of Mining and Metallurgy.



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The Operations Research Society of South Africa – ORSSA

The Operations Research Society of South Africa is the national professional body tasked with **furthering the interests of those engaged in, or interested in, Operations Research (OR) and decision science activities**. ORSSA is continually involved in matters which concern operations researchers. Membership includes a wide range of students, academics and practitioners across South Africa as well as corporate members.

ORiON is the official journal of ORSSA and is published biannually. The ORSSA website is the Society's main vehicle for keeping its members up to date with news and events within the Society. The Society awards a number of prizes and awards annually to recognise outstanding achievements in the field of Operations Research. The Tom Rozwadowski medal is the Society's premier award and has been awarded on an almost annual basis since 1971.

A national conference is organised by the Society at different venues annually, usually during the month of September, to serve as a forum for communication about OR. ORSSA, founded in 1969, continues to inform members of the latest developments in the field of optimisation, mathematical modeling and decision making. The Society also supports two special interest groups in Data Science and Quantitative Finance. ORSSA is a member of the International Federations of Operations Research Societies (IFORS), the Association of European Operational Research Societies (EURO) and a founding member of the African Federation of Operations Research Societies (AFORS)



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Physiology Society of Southern Africa – PSSA

The Physiology Society of Southern Africa promotes all aspects related to the teaching, research and dissemination of the discipline of physiology. By providing a spectrum of physiological information, the society strives to play a role in the establishment and advancement of physiological sciences within Southern Africa and the rest of Africa. The organisation held its first meeting in Johannesburg in September 1971. Among the advantages of being a member are student travel fellowships for conference attendance support, eligibility for PSSA conference awards, access to information on equipment availability and expertise in specific methodologies, academic support and increased visibility of research activities. The PSSA is affiliated to the Southern African Neuroscience Society, the African Association of Physiological Sciences, the International Union of Physiological Sciences (IUPS) by the South African chapter that is supported by the National Research Foundation, and the American Physiological Society.



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South African Academy of Engineering – SAAE

The South African Academy of Engineering promotes the **technological welfare** of the nation by marshalling the knowledge and insights of eminent members of the South African **engineering profession** who are a source of expert advice around global competitiveness and quality of life. SAAE is a young, growing, non-profit, independent institution with more than 200 accredited Fellows. The Academy comprises eminent engineering professionals of all disciplines and related professions with proven ability and achievement. It is able to harness their wealth of knowledge and experience which provides a unique resource for independent, evidence-based advice utilising the interdisciplinary background of the Fellows. It functions as a voluntary association according to a constitution and follows the model of Academies of Engineering in many countries around the world. The SAAE maintains relations with overseas Academies of Engineering and it is a member of the International Council of Academies of Engineering and Technological Sciences since 2009. SAAE runs projects, conducts lectures and develops technical reports.



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South African Association for Food Science and Technology – SAAFoST

The South African Association for Food Science and Technology is a non-profit, largely volunteer-run, national association for food scientists and other technical professionals. SAAFoST has as its mission to promote professionalism, integrity and high standards in the food industry. It is also active in advancing and growing knowledge of food science and technology and offers grants, bursaries and scholarships. The Association organises a biennial congress; many webinars, meetings, seminars, workshops, exhibitions; and assists with educational activities. It publishes a membership magazine, *FST* (Food Science and Technology), which contains scientific research and food industry related articles. The Association is affiliated to the Institute of Food Technologists (IFT, USA) and the Institute of Food Science and Technology (IFST, UK). SAAFoST is a representative on the Food Legislation Advisory Group (FLAG) and therefore contributes towards the formulation and revision of food regulations as published by the Directorate of Food Control of the Department of Health.

SAAFoST was instrumental in establishing the Food Advisory Consumer Service (FACS) in January 1995 as a resource for South African consumers interested in factually correct information on food issues such as health, nutrition, safety, preservatives, colours, additives, chemicals, irradiation, processing, labelling, etc. The Association administers this internet-based service with the assistance of the SA National Consumer Union, The Association for Dietetics in SA, the Nutrition Society of SA and the national Department of Health; Directorate Food Control. FACS has joined the international network of Food Information Organisations that has members in Europe, the USA, New Zealand, Argentina, Brazil, Mexico and China.

Two Meritorious Awards for Journalism are made available annually to authors or presenters of objective and scientifically correct articles in the local press or media which contribute towards sound consumer knowledge and education. The Association also responds to, and challenges, misleading articles, advertisements and claims concerning food processing and the food industry.

Currently SAAFoST has in the order of 2 000 members throughout Southern Africa in three branches: Cape, KwaZulu-Natal and Northern. The national secretariat is situated in Durban.



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South African Association for Theoretical and Applied Mechanics – SAAM

The South African Association for Theoretical and Applied Mechanics serves the **mechanics community** in South Africa. It promotes activities concerning theoretical, experimental and computational mechanics to further expertise in mechanics. SAAM represents the interests of the mechanics community of South Africa – recognised nationally and internationally as an adhering organisation of the International Union for Theoretical and Applied Mechanics (IUTAM) and the International Association for Computational Mechanics (IACM). The association provides South African representation in that organisation, planning and hosting of international IUTAM congresses and periodically coordinates and organises South African conferences on theoretical, experimental and computational mechanics. SAAM formally cooperates with IUTAM and IACM.



SOUTH AFRICAN ASSOCIATION FOR THEORETICAL AND APPLIED MECHANICS

<https://saam.africa/contact-us/>


Southern African Association for Research in Mathematics, Science and Technology Education – SAARMSTE

The aim of the Southern African Association for Research in Mathematics, Science and Technology Education is to advance **research in mathematics, science and technology education (MSTE)** in Southern Africa. Among its goals are fostering a sense of community among researchers in MSTE; promoting research to improve and develop MSTE programmes in response to current and future needs; seeking representation in relevant MSTE policy-making bodies. SAARMSTE organises conferences at which the results of MSTE research can be presented; and assists in the development of research skills of people interested in entering the MSTE field. The organisation develops further expertise in that field by means of organising workshops, short courses and exchange visits. It also liaises with other MSTE bodies and provides avenues for local publication of the findings of research in MSTE.

SAARMSTE makes research results in MSTE available and accessible to policy makers and practitioners. In addition it aims to build an open forum for debate encompassing different MSTE research paradigms and encourages discussion and research around key issues in MSTE. SAARMSTE is an affiliate member of the South African Educational Research Association. It has a strong informal partnership with the National Association for Research in Science Teaching in the USA that has facilitated international doctoral students to come to the SAARMSTE Research School in alternate years.



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South African Academy for Science and Arts – SAASA

The South African Academy for Science and Arts (Suid-Afrikaanse Akademie vir Wetenskap en Kuns) was founded in 1909. Its mission and general objectives are the **advancement of science, technology and the arts**, as well as the promotion of the usage of the Afrikaans language and the maintenance of good linguistic standards. It also aims to deliver a service to the community. This multidisciplinary organisation is a non-profit company. It serves the interests of all South Africans and strives to uphold excellence, fairness and exemplary scientific, moral and democratic values.



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South African Association of Science and Technology Educators – SAASTE

The South African Association of Science and Technology Educators aims to promote **science and technology education** by enhancing the quality of teaching and learning of science and technology in South Africa. Among their objectives are to employ strategies to improve science results from Grade 4-12 by 5% annually; and to empower educators to ensure that girls' and black learners' pass rates in sciences increase by 5%. They also encourage schools to participate in the Eskom Expo and Olympiads.



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South African Council for Automation and Control –SACAC

The South African Council for Automation and Control was formed in 1961 by the joint efforts of the CSIR and the professional institutes of engineering, computers and control disciplines. The primary mission of SACAC is to **promote the multi-disciplinary sciences of computation, automation and control** and their

application to industry in Southern Africa. SACAC is the nominated National Member Organisation for South Africa to IFAC (International Federation of Automatic Control).

Today SACAC comprises over 50 corporate and institutional members representative of leading corporations, tertiary educational establishments, professional institutions, research organisations and private companies involved in computation, automation and control. SACAC facilitates the interchange and dissemination of information about leading edge technologies and their application locally and internationally. This is done through organising symposia, workshops and other regular events. SACAC also provides a link between its members and various other national organisations, keeping them informed of any relevant developments.



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South African Council for the Architectural Profession – SACAP

The South African Council for the Architectural Profession (SACAP) is legally charged to regulate the architectural profession in South Africa by the Architectural Profession Act 2000, Act 44 of 2000. The architectural profession includes professional architects, senior architectural technologists, architectural technologists, draughts persons, specified categories, and candidates in each of the categories of registration, all of whom are required to be registered with SACAP before they can practice architecture. SACAP regulates the architectural profession by establishing standards for registration, education, training, professional skills, conduct, performance, and ethics. SACAP maintains a register of candidates and professionals who meet these standards, approves programmes at universities that professionals must complete to register with SACAP, and acts when registered professionals fail to meet SACAP's standards.

Therefore, only registered persons are exclusively permitted to use the titles prescribed in the Architectural Profession Act. A person who is not registered in terms of this Act cannot use the name of any registered person or the prescribed titles as per the Identification of Work. Furthermore, SACAP plays a crucial role in protecting the public and upholding professional standards. In addition, SACAP is a member of the Canberra Accord in which countries such as United States of America, Canada, China and Mexico 'amongst others' recognise substantial equivalence of accreditation systems, underscoring its commitment to international best practices in architectural education and qualifications.



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South African Chemical Institute – SACI

The South African Chemical Institute promotes chemistry, chemists, the chemical industry and chemical education in South Africa. The Institute promotes the development and image of chemistry in different ways, to advise on chemical education and other chemistry related legislative matters and issues of public and environmental concern, to play a leading role in assuring the professional competence and integrity of chemists and to foster international collaboration as part of the African chemical community. The Institute is recognised as a Professional Body by the South African Qualifications Authority. The website among others, includes a salary survey, events, vacancies, news, details on chemistry departments.



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South African Council for Natural Scientific Professions – SACNASP

The South African Council for Natural Scientific Professions is the legislated regulatory body for natural science practitioners in South Africa. Its mission is to be an efficient statutory Council for the recruitment, registration and regulation of Natural Scientific Professionals to ensure high quality services for social benefit and economic growth. The natural sciences encompass a wide range of scientific fields covering all of the basic sciences and many of their applied derivatives.

SACNASP was established in 1982 as a juristic person by an Act of Parliament, the Natural Scientists Act, 1982 [Act 55 of 1982], which has subsequently evolved into the directives of the Natural Scientific Professions Act, 2003 [Act 27 of 2003] as amended. The Council is therefore mandated as the regulating authority to implement the provisions of the Act, under the oversight of its Executive Authority, the Minister of Science and Innovation. The mission of the Council is to establish, direct, sustain and ensure a high level of professionalism and ethical conscience amongst scientists. Their conduct should be internationally acceptable and in the broad interests of the community.



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The South African Geophysical Association – SAGA

The South African Geophysical Association was founded in 1977 to foster and encourage the **development of Geophysics** in South Africa and has since grown to over 350 members worldwide. SAGA hosts regular monthly talks, produces a topical newsletter, presents shorts courses annually, and runs biennial technical meetings. SAGA is administered by a council of elected officials, with elections taking place annually at the AGM and by postal ballot. Its biennial Conference, a staple of the geophysical fraternity in Africa, provides a forum for engagement, idea generation and sharing.



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South African Genetics Society – SAGS

The South African Genetics Society is the official professional organisation for **geneticists** in South Africa. SAGS is a Voluntary Association registered with SACNASP, the regulatory body for natural science practitioners in South Africa. It actively promotes and oversees genetics as an academic discipline in South Africa. SAGS assists and advises on the establishment of standards of teaching, training and research in genetics. It also communicates information to the general public on the value of historic and new developments in genetics, and encourages education and training in this regard. The Society strives to facilitate multi-disciplinary and multi-institutional scientific co-operation in genetics, in the context of Southern Africa and Africa. It supports and fosters a focus on genetics by means of congresses, symposia, workshops, newsletters, publications and its website.



<https://sagene.co.za>



South African Institute of Agricultural Engineers – SAIAE

The South African Institute of Agricultural Engineers was established in 1964. It represents the discipline of agricultural engineering in South Africa. It aims to, amongst others, promote and develop the science and technology of **agricultural engineering** and encourage research and training in agricultural engineering. The website of the Institute for example provides links to its newsletter, employment opportunities, events, training and detailed information on standards and norms in the industry.



THE SOUTH AFRICAN INSTITUTE
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South African Institution of Chemical Engineers – SAICHE

The South African Institution of Chemical Engineers is a professional society dedicated to advancing the science and practice of **chemical engineering**. Its aim is to promote high standards in the profession by enhancing professional competence. SAICHE promotes opportunities for professional development, monitoring chemical engineering education in South Africa, offering continuing education programmes and Continuing Professional Development accreditation. The website for example provides news, event info and information for students. SAICHE closely collaborates with the Institution of Chemical Engineers (IChemE).



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icheme-worldwide/south-africa



South African Institution of Civil Engineering – SAICE

The South African Institution of Civil Engineering is a learned society that is internationally recognised and connected and a professional home for more than 15 000 civil engineers, technologists and technicians. In 1903 SAICE was originally established as the Cape Society of Civil Engineers and has a long and proud history. SAICE is a not-for-profit, non-partisan organisation and is committed to upholding and advancing the professional ethics and excellence in the civil engineering profession. Among other things it strives to advance professional knowledge and improve the practice of civil engineering. SAICE is also the voice of civil engineering practitioners and a custodian of civil engineering heritage in the country. SAICE members plan, provide and maintain the infrastructure which supports the everyday life and activities of modern society all over South Africa and is also involved in projects around the globe. The website for example contains information about SAICE geographical and professional practice units, international agreements, publications, training courses and events.



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South African Institute of Electrical Engineers – SAIEE

The South African Institute of Electrical Engineers was established in 1909. The Institute is a non-profit organisation which has grown to the extent that there are approximately 7000 members on its membership roll. Members are professionally engaged in the full range of **engineering activities, including academic research, manufacturing, electronics, telecommunications, measurement and control, mining, and electrical power infrastructure and services.** They make meaningful contributions to the quality of life for the community and to the sustained advancement of technology. The website contains information about the mission, objectives and work of the Institute.



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Southern African Institute for Industrial Engineering – SAIIE

The Southern African Institute for Industrial Engineering strives to be a vibrant, learned society, representing and promoting all **industrial engineering professionals** in Southern Africa. Modern industrial engineering constitutes the integration of resources and processes into cohesive strategies, structures and systems for the effective and efficient production of quality goods and services. It draws upon specialised knowledge and skills in the mathematical, physical, behavioral, economic and management sciences and fuses them with the principles and methods of engineering analyses and design to find optimal and practical solutions, which contribute to the success and prosperity of an industrial undertaking, thereby fundamentally contributes to the creation of wealth. The website for example includes newsletters, information on events and awards, links to the SAIIE ISI-listed *South African Journal of Industrial Engineering*.



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Southern African Institute of Forestry – SAIF

Southern African Institute of Forestry is a professional association of **forestry practitioners** geared towards delivering a professional service to forestry in Southern Africa. Its mission is to assist members to achieve excellence in the practice of forestry, and to promote growth and sustainability in the industry as responsible custodians of a sensitive environment. SAIF strives to promote all

aspects of forestry; improve practice in the professional and technical aspects of forestry; enhance the status of members and protect their interests; and to represent the profession of forestry in Southern Africa. The website features information on the institute, monthly newsletters, important industry links and publications. The SAIF also runs a photo competition.



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The South African Institute of Marine Engineers and Naval Architects – SAIMENA

SAIMENA is South Africa's (SA) only technical society dedicated to marine engineers and naval architects. Established in 1974 and formally operating from 1975, it was created in response to legislation requiring professional engineering societies to be South African-based.

SAIMENA has branches in Cape Town and Durban and about 300 members, and represents professionals across the maritime sector, including seagoing engineers, shipbuilders and repairers, naval architects, marine engineers, marine consultants, classification and salvage organisations, marine suppliers, educators and the South African Navy.

SAIMENA provides a professional and technical forum for knowledge-sharing, industry engagement and professional development within the maritime sector. Its branches host regular technical meetings featuring local and international speakers, while the Institute supports emerging maritime professionals through university engagement, industry events and academic merit awards. It also facilitates networking through professional publications and social activities. Despite challenges facing SA's maritime industry, including the decline of local shipbuilding and the growing number of engineers working internationally, SAIMENA continues to promote technical excellence, collaboration and professional development across the marine engineering and naval architecture community. It has three areas of interest in support of our members:

South African Maritime Safety Authority (SAMSA). SAIMENA is a standing member on the SAMSA Seafarers Syllabus Committee (providing marine engineering related input and guidance).

Engineering Council of South Africa (ECSA). SAIMENA is an ECSA Recognised Voluntary Association (providing inputs to relevant ECSA policies, accrediting Maritime engineering related CPD activities and CPD service providers).

Universities. SAIMENA serving on Industry Advisory Boards / Councils of academic institutions offering maritime engineering related studies; providing

industry representation and also support to students via industry exposure, guidance and mentoring by our members.



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Society for Automation, Instrumentation, Measurement and Computer Engineering - SAIMC

The Society for Automation, Instrumentation, Measurement and Computer Engineering is a not for profit company that strives to be the driving force behind the development of the automation industry profession in Southern Africa. Among other issues it creates awareness of the profession, defines and supports education, reviews technologies, and sets standards. Activities include organising technology evenings and courses, publishing a newsletter, engaging on curricula, and publishing technical papers. SAIMC has partnerships and/or cooperation agreements with the Automation Federation, ECSA Voluntary Association and Intsimbi Future Production Technologies Initiative. The contact detail for specific branch chairs or committee members is published on the regional branch pages under the branches tab on the website.



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Southern African Institute of Mining and Metallurgy - SAIMM

The Southern African Institute of Mining and Metallurgy started as a learned society in 1894 after the invention of the cyanide process that saved the SA gold mining industry of the day. This 125-year-old professional body enjoys both local and international links aimed at disseminating knowledge and assisting its members to source information regarding technological developments in the mining, metallurgical and related sectors. The overarching objective is to ensure that their member engineers remain relevant and are able to continue developing professionally as they progress in their respective careers. They are also guided by a professional code of ethics that ensures reciprocity with similar bodies around the globe. This allows them to collaborate on global initiatives and to influence policy that directly affects the industry. The SAIMM also actively participates in promoting and meeting industry related obligations to various communities and the environment.



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South African Institute of Physics - SAIP

The South African Institute of Physics was established in 1965 as a voluntary, not for profit **physics learned society** in South Africa. The SAIP has a membership of over 3500 including professionals and students in a wide range of physics-related fields of practice. In 2015 the SAIP was registered with SAQA as a voluntary professional body for physics in South Africa. Since the SAIP became a Professional Body the majority of the new members are also applying for the professional designation. At present 347 members are registered as professional physicists.

The SAIP performs the following pivotal roles by coordinating the network of physicists in the country, promoting the study and applications of physics, promoting physics research collaborations, advising government on science policy and investment in science, monitoring the quality standards of physics training, and fostering the growth of physics in South Africa. The SAIP ensures that South Africa maintains a robust physics environment capable of supporting a knowledge-based economy by means of several programmes and projects. The SAIP has partnerships with the following international organisations: International Union of Pure and Applied Physics, International Union of Pure and Applied Biophysics, Australian Institute of Physics, American Physical Society and the National Society of Black Physicists.



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South African Medical Association - SAMA

The South African Medical Association (SAMA), established in 1927 and formally reconstituted in its current form in 1998, is a non-statutory, voluntary professional association representing medical practitioners in both the public and private sectors in South Africa. Registered as a non-profit company, SAMA serves the interests and needs of its members across healthcare-related matters and provides an advocacy platform to unite, guide and support medical practitioners. Through its national network of branches and extensive membership, SAMA advocates for the medical profession, supports its members, and contributes to

broader discussions and initiatives aimed at improving healthcare and promoting the health of the nation. The contact detail for specific branch chairs or committee members is published on the regional branch pages under the branches tab on the website.



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South African Mathematics Foundation – SAMF

The South African Mathematics Foundation is a non-profit company and was founded in 2004 by the Association for Mathematics Education of South Africa (AMESA) and the South African Mathematical Society (SAMS) as a national office for mathematics. The office cooperates with government, schools and other stakeholders to improve **mathematics education** in South Africa. The vision of SAMF is to play a leading role in expanding the base of mathematics excellence in South Africa by contributing towards professional development of mathematics educators, promoting the advancement of mathematics through creating awareness of and developing skills in mathematics, research, and advocacy. It identifies and nurtures mathematically talented young people towards an innovative landscape in South Africa for science, business, finance and engineering. Representation on the SAMF Board includes representatives of the SA Statistics Association, SA Mathematical Society, SA Institute of Chartered Accountants, Department of Basic Education, Department of Science and Innovation, Department of Higher Education and Training, NRF/SAASTA, STATS SA, Actuarial Society of SA and AMESA.



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South African National Biodiversity Institute – SANBI

The South African National Biodiversity Institute is a public entity that leads and coordinates research and monitors and reports on the state of biodiversity in South Africa. The institute provides knowledge and information, gives planning and policy advice and pilots best-practice management models in

partnership with stakeholders. SANBI engages in ecosystem restoration and rehabilitation, leads the human capital development strategy of the sector and manages the National Botanical Gardens as “windows” to the South African biodiversity for enjoyment and education. South Africa is one of the most biologically diverse countries in the world, after Indonesia and Brazil. South Africa is surrounded by two oceans, occupies only about 2% of the world’s land area, but is home to nearly 10% of the world’s plants, 7% of the reptiles, birds and mammals and 15% of known coastal marine species. Among other activities, SANBI collaborates with numerous local and international organisations with reference to the Biodiversity Heritage Library (BHL).



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South African National Institute of Rock Engineering – SANIRE

The South African National Institute of Rock Engineering (SANIRE) is dedicated to actively promoting the rock engineering profession in SA. Guided by its core values of honesty, integrity, professionalism, accountability, and transparency, SANIRE plays a vital role in advancing discipline through education, professional development, and ethical practice. The organisation fosters interest in Rock Engineering by supporting educational initiatives, encouraging research, and facilitating the exchange of knowledge and expertise. SANIRE also provides a platform for networking and collaboration among professionals, ensuring the continued growth and excellence of the rock engineering community in SA. The organisation works in partnership with Southern Africa Institute of Security and Risk Management (SAISRM).



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South African Statistical Association – SASA

The South African Statistical Association (SASA) is committed to advancing the development and application of statistical science in SA. As a professional body, SASA promotes excellence in statistical practice, education, and research, while upholding the values of integrity, professionalism, transparency, and accountability. The Association serves as a platform for statisticians across academia, industry, and government to collaborate, exchange knowledge, and

engage in continuous professional development. Through conferences, workshops, and publications, SASA fosters innovation and supports the growth of the statistical profession in addressing national and global challenges.



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South African Society for Animal Science – SASAS

The South African Society for Animal Science (SASAS) was formerly known as the South African Society of Animal Production (SASAP). The Society was founded in 1961. SASAS's mission is to **advance animal science and promote viable animal production systems**, while sustaining natural resources and the environment and thereby to serve the interests of human welfare too. The focus is on issues pertaining to the southern African region. The scope of SASAS's interests includes all facets of the husbandry of farm livestock species (cattle, sheep, goats, pigs, poultry, ostriches and horses), including the products derived from them (meat, milk and dairy products, wool, mohair, leather and eggs), and relevant aspects of aquatic and wildlife species. The main disciplines of interest are nutrition, genetics, physiology, meat science, wool science and pasture science. Sociological and managerial aspects of well-defined livestock production and farming systems are also of interest. SASAS organises an annual scientific congress, as well as occasional symposia and publishes a scientific journal, the *South African Journal of Animal Science* which can be accessed through the SASAS website. SASAS is also a member of the World Association of Animal Production.



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South African Society for Agricultural Extension – SASAE

The South African Society for Agricultural Extension is a scientific society that is committed to the **promotion of the science and vocation of agricultural extension**, in the interests of its members. Among its objectives are to advance and apply the science and practice of agricultural extension within rural development as a scientific discipline. This is achieved by stimulating thought, study, research, discussion and the publication and exchange of knowledge both nationally and internationally. The *South African Journal of Agricultural Extension*

(SAJAE) is published by SASAE. It was published for the first time in 1966. The journal publishes scientific articles on extension and the extension profession, as well as rural development.



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Facebook www.facebook.com/SASAEsociety/



South African Society of Biochemistry and Molecular Biology – SASBMB

The South African Society of Biochemistry and Molecular Biology is a society of South African scientists involved in biochemistry and molecular biology research. The society aims to promote the development and understanding of this research in South Africa and to facilitate communication among scientists. SASBMB members include university students, post doctorate fellows, junior researchers and established professional and academic scientists. The society is governed by a council of nominated members, including two student members. SASBMB hosts a biennial national congress featuring lectures, seminars and poster presentations by students, junior researchers and established scientists. The website for example offers information on its congresses and news.



Email secretary@sasbmb.org.za

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Southern African Society for Human Genetics – SASHG

The Southern African Society for Human Genetics is a multidisciplinary, non-discriminatory, non-profit professional society dedicated to advancing the science and practice of human and medical genetics in Southern Africa. The organisation brings together professionals from different disciplines within human genetics to facilitate collaboration, knowledge sharing, and professional development, while promoting high ethical and professional standards. SASHG provides a platform for education and engagement through two conferences, symposia, and other activities, and fosters collaboration with similar organisations internationally. Established in 1986, following the formation of a cytogenetic study group in 1978, SASHG is registered as a Public Benefit Organisation and plays an important role in promoting research, education, professional practice, and collaboration in the field of human genetics across the region.



Email sashgmembers@gmail.com | <https://sashg.org/>



South African Science Olympiad – SASO

The South African Science Olympiads (natural, life, and physical sciences) were initiated under the auspices of SAASTE-KZN in 1997 by a group of science lecturers at the then Springfield College of Education in Durban. These Olympiads were initiated to **improve teaching and learning of the sciences at primary and secondary schools** in KwaZulu-Natal. Since 2000 these Olympiads have been offered to learners throughout the country in 10 grades and three learning areas. Between 13 000 to 18 000 learners participate annually. Government, independent, and private schools participate and is open to all learners, dependent on an entry fee. Olympiads aim to identify talent in the science field through participation in the first and final rounds as well as revision programmes. Learners are exposed to a problem-solving approach enabling them to improve significantly in science. Further development of talent can be achieved through training camps, tuition groups and participation in international Olympiads. SASO is recognised and affiliated to four International Olympiads:

1. International Biology Olympiad
2. International Physics Olympiad
3. International Chemistry Olympiad
4. International junior Science Olympiad



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Southern African Society for Plant Pathology – SASPP

The Southern African Society for Plant Pathology promotes **plant pathology** as a discipline in Southern Africa by acting as the official mouthpiece of plant pathologists in Southern Africa. The society, a not-for-gain association, provides opportunities for networking and exchanging information, coordinates affiliations with related scientific societies, and disseminates information on plant pathology.



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South African Sugarcane Research Institute – SASRI

The South African Sugarcane Research Institute is a world-renowned agricultural research institute that contributes to the sustainability of sugarcane producers and the sugarcane industry. Research at SASRI is clustered within four multidisciplinary programmes including Variety Improvement, Crop Protection, Crop Performance and Management, as well as Systems Design and Optimisation. The programmes focus on foundational research and technology development aligned with requirements of small-scale and large-scale producers and the biosecurity obligations of the industry. An extension service provides the essential link between researchers and sugarcane farmers. SASRI offers a range of services including fertiliser advice, disease diagnoses and education courses. The website includes information about the SASRI research focus.



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Society for Asphalt Technology – SAT

The Society for Asphalt Technology (SAT) is a learned society of individuals in the asphalt sector based in SA which also serves the interests of members in Lesotho, Eswatini, Zimbabwe, Botswana and Namibia. SAT was established in October 1994 and it is a non-profit, voluntary organisation dedicated to promoting technical and professional excellence in the asphalt and bituminous products industry. SAT collaborates closely with the Southern African Bitumen Association (Sabita) and maintains international affiliations to connect local practitioners with global developments. As a voluntary organisation of the Engineering Council of South Africa (ECSA), SAT members benefit from CPD recognition and ongoing professional support. SAT has the following partnerships:

- MoU with the University of Pretoria (UP) and Walter Sisulu University (WSU)
- Road Maintenance Forum
- Road Pavement Forum



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Water Institute of Southern Africa – WISA

The Water Institute of Southern Africa is a not for profit company and is recognised as a Professional Body by the South African Qualifications Authority. WISA focusses on professionalising and promoting excellence in the water sector. WISA strives to be an effective and efficient organisation, subscribing to the principles of its memorandum of incorporation and complying with the principles of good corporate governance. Its vision is to inspire passion for water by means of connecting the knowledge and expertise of water professionals with ever changing needs of water users. WISA's aims to inspire every person in Southern Africa to have a passion for water to ensure that water is available for future generations. WISA encourages its members, the water sector and water users to uphold and promote its five values including the principles of Integrity, Professionalism, Community, Innovation, Trustworthiness. WISA is constantly evolving to meet the ever-changing needs of the sector and its members. WISA's functions for example include items such as developing sector expertise, advocacy and lobbying in the sector, professionalisation and dissemination of information. The website assists in promoting the WISA aims in the water sector.



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Zoological Society of Southern Africa – ZSSA

The Zoological Society of Southern Africa was originally formed with the vision of promoting zoology by means of conferences and a scientific journal for all sub-disciplines of Southern Africa. Among the objectives of the society are to promote, facilitate and encourage zoological research in Southern Africa, to preserve Southern African fauna and to support relative legislation but if necessary, to oppose legislation tending to have adverse effects on the field as such. Additional objectives are to be actively concerned with the welfare of animals, to assist in the co-ordination of zoological research in Southern Africa by means of congresses, meetings and publications covering current research work, including to have contact with foreign zoological societies and international organisations dealing with zoology. The organisation strives to co-operate with public authorities, act in an advisory capacity where asked to do so, stimulate public interest in zoology by means of publications, meetings, film shows and any other means. ZSSA publishes a zoological journal.



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HISTORY AND MILESTONES OF THE NSTF

This section briefly deals with important highlights, facts and timelines.

1991 A new South Africa in the making

The pre-cursor of the NSTF, the National Science and Technology Initiative (NSTI) participated in the South African landmark Convention for a Democratic South Africa (CODESA), a major initiative marking the end of the apartheid era and planning for a democratic national system of innovation.

1995 NSTF is born

As a result of the findings and recommendations of the NSTI, government with key stakeholders founded the NSTF to oversee the establishment of the national science system. NSTF contributed and provided input into the White Paper on Science and Technology and other policy and planning processes within government and initiated the discussion that led to the declaration of South Africa's first Year of Science and Technology in 1998.

1998 The Year of Science and Technology and year of the founding of the NSTF Awards

1998 is declared the Year of Science and Technology by the South African government and NSTF establishes the prestigious annual NSTF Awards to honour role models and reward excellent achievements in science, engineering and technology (SET). NSTF participated and added considerable value to initiatives and processes relating to the establishment of the National Research Foundation (NRF).

2002 An important policy role

The NSTF played an active role in the evaluation, review and implementation processes of the National Human Resource Development Strategy, the National Development Research Strategy and the National Research and Technology Foresight Exercise.

Ethics discourse

NSTF initiated debate and discussions on Ethics in SET in South Africa. It resulted in a discussion document and a charter that aimed to establish a National Consultative Council on SET Ethics in South Africa.

DST

NSTF Participated in the lobbying for the establishment of a separate government department that would focus entirely on SET in South Africa. The structure and plans for the new Department of Science and Technology (DST – now the Department of Science and Innovation) were presented to the NSTF and its members for comment.

2003 Growth and innovation

NSTF commissioned a joint study between the NSTF and National Advisory Council on Innovation (NACI) which culminated in the Growth and Innovation Report featuring the interaction between economic growth, science, technology and human capital.

proSET:

Created a new membership group, known as SETAG (Science, Engineering, Technology and Associated Group), consisting of professional bodies and learned societies. Some of the membership of the Associated Scientific and Technological Societies of South Africa (AS&TS Trust) joined the NSTF under SETAG which was renamed proSET (Professional in Science, Engineering and Technology) in 2009. This sector accounts for about 40 percent of NSTF member organisations.

NEPAD

NSTF substantially contributed to the development of the science and technology division of the New Partnership for Africa's Development (NEPAD), to ensure that SET plays its rightful role on the African continent.

2004 STEM education

NSTF aspired to change the face of education in South Africa by initiating discussions and leading national consultations that resulted in the formulation and implementation of the National Strategy for Mathematics, Science and Technology Education.

2005 The Awards Communications sub-committee

This committee was established and was later renamed to become the NSTF Awards Committee

2006 DST policies

Discussion of and stakeholder feedback on the National System of Innovation (NSI) and the DST's Ten Year Innovation Plan received attention. DST presented their plans for the Technology Innovation Agency, Human Capital Development, the Youth into Science Strategy and the Hydrogen Economy.

2007 "Section 21" company under the Companies Act.

NSTF registers as a Section 21 company to facilitate donations and associated transactions. Legislation was subsequently amended and all Section 21 companies are currently referred to as 'non-profit companies'.

DST projects

NSTF managed the National Youth Service (NYS) on behalf of DST for five years, benefitting 330 young unemployed diploma and degree graduates. The programme provides science graduates with additional skills to enable them to find suitable employment. This project is currently managed by the South African Agency for Science and Technology Advancement (SAASTA) of the NRF.

2007 Bursary programme

NSTF managed the DST 'Incentive' Bursary Scheme for eight years. This scheme benefitted more than 70 students. Both the NYS and Incentive Bursary Scheme programmes were formally evaluated and the reports are available on request.

2007-2008 Science Councils and Statutory Bodies sector

A sub-committee was established for this sector in NSTF.

2008 NSTF Awards

The 10th anniversary of the Awards was celebrated in this year.

Brilliants Programme

The NSTF initiated this programme to recognise top matric performers in physical science and mathematics, previously called the Education Recognition Programme.

2009 Renaming SETAG to proSET

SETAG, which was established in 2003, was renamed as Professionals in Science, Engineering and Technology – proSET.

2011 BHP Billiton

This company became the co-branding sponsor of the NSTF Awards for five years.

2015 New NSTF Awards trophy

The new trophy, manufactured from titanium and using additive manufacturing, 3D printing, was launched to celebrate the second decade of NSTF as well as the United Nations International Year of Light and Light-based Technologies. Simultaneously, the Special Annual Theme Award was introduced in the NSTF Awards, and the first winner was announced.

2016 South32

South32 became the co-branding sponsor of the NSTF Awards.

Carl and Emily Fuchs Foundation sponsorship

As one of 12 beneficiaries, sponsorship for the 50th Anniversary programme of the Foundation was awarded to NSTF for its youth outreach programmes.

2018 Organised DST consultations

The DST launched its new Science, Technology and Innovation White Paper and the NSTF facilitated consultations.

NSTF Awards

The 20th anniversary of the Awards was celebrated in this year.

2020 NSTF's Silver Jubilee and first live online Awards event

The NSTF celebrates its 25th anniversary.

2021 First hybrid NSTF Awards event from two cities simultaneously

The 23rd NSTF Awards Gala Event was another milestone broadcasting simultaneously from two cities.

proSET MEMBERS at a glance

AEASA 	EAPASA  Environmental Assessment Practitioners Association of South Africa <i>Advancing environmental assessment practice in South Africa</i>	GRASSLANDS 	ORSSA 	SAASTE  South African Association of Science and Technology Educators	SAIchE 	SAMF 	SASBMB 
AMESA 	ECSA  ENGINEERING COUNCIL OF SOUTH AFRICA	IAIASA  International Association for Impact Assessment South Africa	PSSA  Physiology Society of Southern Africa	SACAC  SOUTH AFRICAN COUNCIL FOR AUTOMATION AND CONTROL	SAICE  GROWING FORWARD TOGETHER	SAIMM  THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY	SASHG  SASHG SOUTHERN AFRICAN SOCIETY FOR HUMAN GENETICS
ASTEMI  SCIENCE TECHNOLOGY ENGINEERING MAKING THE FUTURE POSSIBLE OLYMPIADS & COMPETITIONS	ESSA  The Entomological Society of Southern Africa	IEEE  South Africa Section	SAAE  SOUTH AFRICAN ACADEMY OF ENGINEERING	SACAP  South African Council for the Architectural Profession	SAIEE 	SAMA  SOUTH AFRICAN MEDICAL ASSOCIATION ESTABLISHED IN 1902	SASO  National Science OLYMPIAD
BWIS  BLACK WOMEN IN SCIENCE In Our Element	FEMSSISA  Federation for Women in Science, Engineering, Medicine, and Statistics in South Africa	IITPSA  Institute of Information Technology Professionals South Africa	SAAFoST  SOUTH AFRICAN ASSOCIATION FOR FOOD SCIENCE & TECHNOLOGY	SACI 	SAIIE 	SANBI  Biodiversity for Life South African National Biodiversity Institute	SASPP 
CESA  Consulting Engineers South Africa	GASA  Geostatistical Association of Southern Africa Fostering Geoscientists www.gasa.org.za	IMESA 	SAAM  SOUTH AFRICAN ASSOCIATION FOR THEORETICAL AND APPLIED MECHANICS	SACNASP  South African Council for Natural Scientific Professions	SAIF 	SANIRE  SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING	SASRI  SOUTH AFRICAN SUGARCANE RESEARCH INSTITUTE
COET 	GISSA  Geo - Information Society of South Africa	INCOSE  SOUTH AFRICA	SAARMSTE  Southern African Association for Research in Mathematics, Science and Technology Education	SAGA  SOUTH AFRICAN GEOPHYSICAL ASSOCIATION	SAIMENA  The South African Institute of Marine Engineers & Naval Architects	SASA  South African Statistical Association	SAT  Society for Asphalt Technology
CorriSA  CORROSION INSTITUTE SOUTHERN AFRICA	GSSA  Geological Society of South Africa	MVSSA 	SAASA  DIE SUID-AFRIKAANSE AKADEMIE VIR WETenskap EN KUNDE Established 1961	SAIE  THE SOUTH AFRICAN INSTITUTE OF AGRICULTURAL ENGINEERS	SAIMC  PROGRESS BY CONTROL	SASAE  SOUTH AFRICAN SOCIETY FOR AGRICULTURAL EXTENSION	ZSSA  ZSSA Zoological Society of Southern Africa



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National Science and
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www.stemulator.org