ENGINEERING COUNCIL OF SOUTH AFRICA

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REPORTS AND ACCOUNTS for the year ending 31 March 2006

Minister Angela Thoko Didiza
Department of Public Works

Dear Ms Didiza

It is an honour and a pleasure to submit, in terms of section 16 (1) of the Engineering Profession of South Africa Act, 46 of 2000, the Annual Report on the activities of the Engineering Council of South Africa for the financial year 1 April 2005 to 31 March 2006, together with the audited accounts.

Mr SE MADONSELA Pr. Eng.
PRESIDENT

Prof. R NAYAGAR
CHIEF EXECUTIVE OFFICER
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Message from Engineering Council of South Africa President

Mr Sipho Madonsela

The new Council consisting of 50 members has been functioning since 24 November 2005. I am proud and privileged to have been elected to lead this esteemed Council and therefore commence my four year term in the affirmation and assurance that I shall be working with a highly respected group of Council members who bring with them a wealth of information and expertise relating to the profession.

I am also pleased to be succeeding Mr RA Pullen who was at the helm for twelve years and has certainly left very big shoes to fill! Bob Pullen fortunately will now continue as Vice-President of the organisation which can only benefit the organisation in terms continuity. I remain affirmed in my belief that Bob Pullen will continue to add value and guide us all with his well-regarded and generous wisdom concerning the intricacies of ECSA.

The Council’s membership consists of driven, experienced and motivated people. Some members are engineering practitioners while others bring with them expertise of managing consultancies, large co-operations, state owned enterprises and private businesses. Members of the public are also represented on this Council. It is my thinking that the confluences of these expertises can only continue to benefit the profession in the long run.

The attributes exhibited by the Council members are further augmented by the Chief Executive Officer and his team. Professor Ravi Nayagar also recently began his period in office and I am confident of his capability to maintain the already existing structures as well as his ability to take the organisation to new heights.

It is for this reason that I have committed my period in office to the following and restricted to these new performance areas:

- Performance contract with government
- Transformation of ECSA as an organisation
- Elevation of the status of the engineering profession
- Capacity building in the profession
- Promote ECSA’s relationship with industry, the public and organs of state.

I would finally like to thank all the members of the committee structures at the organisation who bring to fruition the mandate ECSA has been handed by the Government – to register professionals and in turn look after the public health and safety.

The 2005/2006 annual report has been prepared for you to have a clearer and better understanding of the Engineering Council of South Africa and its workings. I trust that you will appreciate all the work that is being carried out on behalf of the profession.

I thank you.

S E Madonsela
President ECSA
Message from Engineering Council of SA Chief Executive Officer

Prof Ravi Nayagar

It is indeed my pleasure to write this message to you in my capacity as Chief Executive Officer of the Engineering Council of South Africa. I would like to thank my predecessor Mr Paul Roux who has been an employee of the organisation for 27 years! In those 27 years he rose through the ranks and remained dedicated to the cause even though he himself began his career in the legal field. Paul Roux leaves behind a legacy of many attributes; however his commitment is certainly uppermost on that long list. He was committed to the cause of the professional engineering practitioner, evident by the manner in which he tirelessly took on various tasks and projects nationally and internationally to see to it that South Africa continues to produce among the best engineering practitioners in the world. Paul Roux’s hard work and commitment are profoundly appreciated by the profession – thank you Paul.

My tenure in this position began in March 2006 in the final month of the 2005/2006 financial year. I have been in the employ of ECSA since June 2004 and therefore have a good understanding of where and how ECSA is positioned in the global domain.

The President and I are in the fortunate position to have similar outlooks in terms of our aspiration for the organisation and profession into the future. We see the profession increasingly becoming the strength to be reckoned with on the African continent and in time the world.

This annual report covers all the areas of responsibility that ECSA is traditionally bound to facilitate in terms of the Act, Act 46 of 2000. I would however like to bring ECSA and its activities into new areas of involvement and opportunity such as:

- Poverty alleviation.
- Implementation of compulsory registration development of strategic alliances with organisations such as divisions of the United Nations.
- Promotion of engineering amongst women and previously disadvantaged South African citizens.
- Alleviation of the scarce skills challenge the nation faces in this time of economic boom in the built environment.

As you read the report you will observe evidence of work that has already begun aiming towards achieving the abovementioned goals.

ECSA remains active in accrediting the universities and universities of technology engineering programmes on a cyclical basis which has been acknowledged by the Council for Higher Education. The Council for Higher Education accredits the institutions’ facilities and how they are administered. An opportunity was identified which looked to have the Council for Higher Education enabling ECSA to accredit programmes on its behalf. A Memorandum of Understanding is yet to be completed wherein the two organisations agree to work together; this has to date not been completed however this is seen as an opportunity to realise another great opportunity for ECSA’s influence on the national platform.

An exciting first for ECSA is the development of the Engenius Campaign, which seeks to promote engineering amongst the younger generation as well as the adult population. It was mentioned in the previous report that ECSA is looking to create a better and improved impression and interest for the engineering career amongst children of a school going age. As a result stakeholder meetings are being scheduled to solicit support and endorsement of the programme by government departments as well as
major role players in industry. I foresee the Engenius programme taking leaps and bound into the future and elevating the status of engineering as a whole.

The statistics for registration over the reported period are satisfactory however the registration team is looking to increase the statistics in all categories of registration. We are also preparing our infrastructure for the definite increase in registrations once compulsory registration comes into effect. At the time of reporting some of the activities being carried out in preparation for compulsory registration include: working towards the completion of the work by the Identification of Engineering Work Steering Committee and the roll out of Re-registration and the Continuing Professional Development structures in the organisation in collaboration with the Voluntary Associations. ECSA is therefore very pleased with the progress of preparing for the implementation of compulsory registration.

Registration discussions and meetings continue to develop identified Specified Categories of registration. A particular category of registration is the Lifting Machinery Inspectors, which is being developed in conjunction with the Department of Labour for purposes of registering Lifting Machinery Inspectors as opposed to licensing them. The target date for all Lifting Machinery Inspectors to have registered with ECSA in order to continue practicing is September 2006. The abovementioned are but some of the activities that are keeping the entire organisation active. Other projects will be reported on in the next reporting period. As this is a year of firsts I would also like to mention that this is the first Annual Report being published in a non-traditional fashion. This annual report should make for some good brief reading on the pertinent issues concerning the engineering profession.

Please do not hesitate to contact my office via my e-mail ceo@ecsa.co.za should you feel the need to address any issues discussed in this report or any other issues you wish to bring to the attention of the organisation.

I enthusiastically look forward to serving the public and the profession on behalf of the Department of Public works.

Thank you

Prof. Ravi Nayagar
CEO ECSA
ECSA Council Members 2005-2009

Seated Left to Right:
Ms. H S Pieterse; Prof. B M Lacquet; Prof. E P Kearsley; Ms. M Cilliers; Prof. R Nayagar (Chief Executive Officer); S E Madonsela (President); R A Pullen (Vice President); Ms. A L Povey; Dr. N E Chinkanda; Ms. M Sonnekus; Prof. B d L Figaji

Standing Middle row left to right:

Standing back row Left to Right:
du T Grobler; CFB Havenga; T N Maphumulo; F B Reinders; M Kibido; R P Gerber; H Bhengu; Dr. O S W Franks; P. S Moncur; Dr F. W Petersen; J. C Perkins; S A S Amod

Apologies: J K S Makaleng; Ms C Fourie; AJ Hay; Ms J Janjic; B F Kirchmann; LJ Madisha; JKS Makaleng; HE Makwarela; MMM Maliba; RP Mohring; PD Naidoo; VP Padayachee; Ms BG Sudano

ECSA Directorates

Mr Mosotho Petlane, Director: Strategic Development
This directorate is responsible for the following departments:
Accreditation and Education – Manager Mrs Louise Venter
Corporate Communications – Manager Ms Daniella Melk
Legal Matters – Manager Mr Anthony Faul

Mrs Liesel Kirsten, Director Strategic Implementation and Quality
This directorate is responsible for the following department and its activities:
Standards and Procedures – Manager position is vacant
All Engineering Standards Generating Body activities
Development of specified categories of registration

Mr Enslin Naudé, Director: Finance and Administration
This directorate is responsible for the following departments:
Accounts – Manager Mr Gerard Schekkerman
Administration – Manager Mrs Rina Marais
Registration – Manager Mr Johan Pienaar
DIRECTORATE: STRATEGIC DEVELOPMENT

INFORMATION MATTERS

The Council consists of a total of fifty members drawn from the following sectors in the following proportions:

- Thirty registered persons (excluding candidates) of whom twenty must actively practice in the engineering profession
- Ten persons of whom at least six must be professionals in the service of the State
- Ten members of the public nominated through an open process of public participation

LEGAL MATTERS

Identification of functions
The Identification of Engineering Work Steering Committee (IDoEW-SC) was formally constituted in November 2004 to undertake the Identification of Engineering Work on behalf of ECSA Council. The 22 Steering Committee members were drawn from the constituencies of engineering disciplines, professional categories, consulting engineering and ECSA functionaries. In addition a list of persons was drawn up comprising more than 50 persons to serve as a reference group. The Terms of Reference of the Steering Committee were drawn up against the background of the legal obligations of ECSA regarding the identification of engineering work which would be reserved for persons registered with ECSA.

Summary of work completed
The strategy adopted was to meet the key needs of the IDoEW project as expeditiously as possible, with a comprehensive Baseline Report to Council explaining the Steering Committee’s reasoning and approach to IDoEW, with generic listing of engineering work to be reserved. This was followed by a Framework Document for specifying such engineering work. This provided the basis for the proposed Regulations and the basis for a complete listing of engineering work to be reserved for registered persons, to be drawn up in a phased manner over the longer term. The Baseline Report and Framework Document were submitted to ECSA’s Council in November 2005, and have been accepted. The baseline Report and the Framework Document were published for general comment by interested and affected parties. The final major task of the SC was to draft the actual Regulations which would written in the format of regulations published by the Minister of Public Works once the Council for the Built Environment has approved the proposed Regulations.

Progress with the Regulations
The Regulations were the most critical of all the deliverables of the Steering Committee, as they form the basis for enforcement of the legislation for identification of engineering work to be reserved. The drafting of the proposed Regulations was led by Mr Paul Roux outgoing CEO of ECSA and the first draft was considered by the Steering Committee in March 2006.

The submission of the first draft of the proposed Regulations is considered a most significant event which has a long history of previous unsuccessful attempts by ECSA to identify engineering work for purposes of enforcing compulsory registration in the engineering profession.

It is planned to publish the draft proposed Regulations and supporting documents for general comments on ECSA’s Website as soon as possible.

It is anticipated that the final recommendations would be submitted to the ECSA Council in August 2006, whereafter the proposed Regulations would be submitted to the Council for the Built Environment for further processing.
Amendments to Act 46 of 2000
In the previous reporting period it was reported that the Engineering Council of South Africa had identified shortcomings of the New Act and recommended that these shortcomings be addressed. To date the amendments are still being considered.

Amendments to ECSA Rules
The Legal Matters Committee is still in the process of revising the rules to bring them into line with the new Act. Progress on this work will be reported on in the following reporting period.

Disciplinary Matters
As in the previous reporting period, the Legal Department's workload during the 2005/2006 financial year continued to increase substantially. There were 120 complaints being investigated by the Investigating Committee (IC). This is a 115% increase from the previous financial year. There are 26 disciplinary matters which will require disciplinary hearings to be held, over a period of approximately 6 -12 months. A further 15 matters are scheduled to be heard by a Disciplinary Tribunal within the period May - December 2006. For the period April 2005 to March 2006, a total of 21 disciplinary hearings were held. In all these matters the relevant engineers were found guilty of various contraventions of ECSA's Code of Professional Conduct and sanctioned by a Disciplinary Tribunal.

Specific Matters
- The Department of Labour's investigation into the Neptune Bridge Collapse – Coega Development, Port Elizabeth, was concluded during the latter half of 2005 and the Presiding Officer's findings are expected by May 2006.
- In the 1998 Injaka Bridge collapse matter, the Investigating Committee (IC) has identified three engineers who may have been negligent during the design and construction phase of the bridge. The IC has resolved that prima facie evidence of improper conduct exists and recommended to Council that charges are to be preferred against the engineers. Due to the expected high costs involved for the conducting of ECSA's Disciplinary Hearing, the Department of Public Works have been approached for the necessary funding.
- In the 2004 Cleveland bridge collapse matter two engineers have been identified by the IC as having possibly contravened ECSA’s Code of Professional Conduct. ECSA’s IC resolved that sufficient evidence of improper conduct exists and recommended to Council that charges are to be preferred. Charge sheets have been drafted and will be served on the relevant Respondents in due course.
- A section of the Centurion Mall roof to the parking collapsed and an engineer was killed. An expert was appointed to investigate the reasons for the collapse on behalf of the IC. From his report it appears that the design engineer contravened ECSA’s Code of Professional Conduct. The IC recommended to Council that charges are to be preferred and Council accepted the recommendation. The pro-forma Complainant has been briefed to draft the charge sheet which will be served on the Respondent.
- The matter against an engineer In the Western Cape (39 complaints) has been investigated by the IC who found that sufficient evidence of improper conduct exists. By approval of Council, a Senior Advocate, Advocate V Gajoo SC, from the Durban Bar has been appointed as the pro-forma Complainant assisted by Advocate Andre Swanepoel from the Pretoria Bar. The charge sheet has been finalized and served on the Respondent and his Plea thereto is expected by the end of August. Pre-trial conferences with a view of curtailing the proceedings will take place during September and it is anticipated that the hearing will be conducted during November 2006.
- Of interest is a particular matter which was finalized during the latter part of 2005 which involved a registered Professional Engineer who operated on the South Coast of Kwa-Zulu, Natal. The engineer was duly charged and he appeared before a Disciplinary Tribunal on 5 different charges of improper conduct, each with various separate sub-charges. He was found guilty by the Disciplinary Tribunal. A fine of R50 000-00 was imposed on him and his registration suspended for a year. This is the second most severe sanction imposed on any registered member.
Details for these cases and the charges appear on the ECSA website in the Legal section.

**Criminal Matters**
Criminal matters involve persons who fraudulently make use of the ECSA certificate of registration and/or the illegal use of the reserved titles. Regrettably little support or co-operation from the South African Police Services (SAPS) has resulted in only a few of the criminal cases being concluded.

Various consultations with a number of Senior State Prosecutors have taken place in an attempt to get the matters finalised. It seems that a few indictments will be issued in respect of persons who purport to be registered engineers. Some matters are still under investigation as the police are investigating matters other than those reported by ECSA against those Individuals.

One matter against an Engineer is already in the Mthatha High Court for trial. The matter has been postponed to enable the accused to arrange for his defense.

In most matters, the police and the prosecution are convinced that ECSA has sufficient prima facie cases against the engineers and ECSA is waiting for the SAPS to affect an arrest.

**Code of Conduct**
During 2006, ECSA appointed a working group to consider the revision of the Code of Professional Conduct, which was promulgated under Board Notice 107 of 1997 and published in Government Gazette No 18454. This old Code of Professional Conduct was replaced with the present Code. The new Code of Conduct was published in the Government Gazette No. 28605 of 17 March 2006 under Board Notice 15 of 2006. In comparison to the old Code of Conduct, the new Code elaborates on the following:

- Competency
- Integrity
- Public Interest
- The Environment
- The Dignity of the Profession.

It has given a wider version of the objectives of the Code and definitions as contained in the Act.

The new Code of Professional Conduct is available on ECSA’s website.

**Voluntary Associations**
The final rules were published on 4 March 2005 in Government Gazette No. 27324 under Board Notice 29. Since the publication of the Rules, ECSA has received 40 Application for recognition as voluntary associations in the following categories:

- 26 in Category A
- 03 in Category B
- 10 in Category C; and
- 01 still has not identified a category in which it wishes to be recognised.

Statistics of Voluntary Associations that have been recognized to date:

- 15 Associations have been recognised in Category A;
- 02 in Category B;
- 08 in Category C; and
- A further two will soon be receiving their recognition.

Other applicants have still not met the criteria set out for recognition and their applications will be considered when they have complied with the requirements for recognition.

**Fees Committee**
As previously reported, in terms of ECSA fulfilling its statutory obligation, the Council must, after consultation with the voluntary associations, representatives of service providers and clients in the public and private sector, determine guideline professional fees.
The Fees Committee annually reviews the fees determined by Council for engineering work performed in private consulting practice in terms of Section 34(2) of the Act. The committee consists of Council members, and representatives of the following organisations:

- SA Association of Consulting Engineers (SAACE);
- South African Black Technical & Allied Career Organisation (SABTACO) as providers;
- S A Property Owners Association (SAPOA) as users of engineering services;
- Department of Public Works as a user of engineering services;
- Department of Water Affairs and Forestry as a user of engineering services;
- National Roads Agency as user of engineering services.

A revised version of the Guideline Scope of Services and Tariff of Fees, as well as the Indicative Time Based Fees was published in the Government Gazette on 31 March 2006 in Government Gazette No. 28643 of 31 March 2006 under Board Notice 16. Certain amendments to the Guideline Scope of Service and Tariff of Fees were published Government Gazette No. 28774 on 13 April 2006 under Board notice no 30.

There has also been a call for new nominations for members to serve on the Fees Committee. The current committee is working towards revising the fees for 2007 as mandated by the Act.

EDUCATION MATTERS

The Education and Accreditation department at ECSA is mainly concerned with maintaining the quality and standard of engineering programmes offered at tertiary education institutions. Therefore teams of experienced accreditors appointed by the Council conduct accreditation visits at engineering faculties offering engineering programmes on a five year cyclical basis.

Other duties and activities of the department include assessing engineering qualifications presented for registration but not accredited by ECSA (mainly foreign qualifications) – this is the work of the Qualifications and Examinations Committee (QEC).

The Education Advisory Committee (EAC) appointed a Working Group to look into the development of a generic accreditation policy for conventional universities and universities of technology (former technikons). The working group will benefit from the experience of its members and from the involvement of the Committee on Higher Education (CHE). At this stage, significant contributions and progress has been noted and the document is hoped to be finalised early in the next financial year.

Accreditation

The accreditation of engineering programmes at tertiary education institutions was carried out during the year current reporting period as usual. The following institutions are scheduled to take place in the following reporting period:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Regular Visit</th>
<th>Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Cape Town</td>
<td>All ECSA Accredited Programs</td>
<td>April</td>
</tr>
<tr>
<td>Eastern Cape</td>
<td>All ECSA Accredited Programs</td>
<td>May</td>
</tr>
<tr>
<td>Durban Inst of Tech</td>
<td>All ECSA Accredited Programs</td>
<td>May</td>
</tr>
</tbody>
</table>

In an effort to capacitate accreditation teams, 2 accreditation training workshops were planned for the university and university of technology teams. The objectives of the workshops are to give:

(i) orientation of the tasks to new members joining accreditation teams;
(ii) recapitulating to old members;
(iii) provide an update on latest accreditation news and information-sharing sessions to all attendants.

However, due to capacity and other related problems in the year, the training for university of technology teams did not take place as scheduled.
Evaluation of Foreign Qualifications

164 applications for registration with foreign qualifications were received by the University Qualifications and Examinations Committee and examined in accordance with ECSA evaluation procedures. Of these:

- 81 were for the Candidate Engineer status, of which:
  - 37 were recognised
  - 21 not recognized
  - 36 interviewed
  - 02 alternate route
  - 01 more information requested from applicant

- 83 were for the Professional Engineer Status, of which:
  - 36 were recognised
  - 16 not recognized
  - 29 interviewed
  - 01 alternate route
  - 01 more information requested from applicant

Relationship between ECSA and the Council on Higher Education

As mentioned in the previous reporting period, the Council on Higher Education (CHE) and ECSA are still in the process of negotiating the signing of a Memorandum of Understanding (MoU). This MoU will formalise the arrangement that ECSA accredits engineering programmes on behalf of the CHE, for purposes of the Higher Education Act and to enable ECSA to conduct accreditation visits completely on a delegated basis from the CHE.

The fundamental differences between the two organisations in terms of accreditation, is that ECSA's accreditation teams primarily investigate the engineering content and relevance of the programmes. The CHE looks at the institution's facilities and how they are administered.

Unfortunately the work on developing policy documents for this purpose, continues therefore the MoU has not yet been signed.

Merit Medals

The ECSA merit medal is awarded annually to the most deserving engineering student who has achieved a *cum laude* status. The merit of each award is assessed by the educational institution concerned.

The recipients of the medal in the reporting year are listed below:

- North West University – Gerbrand Breed
- University of Witwatersrand – Thomas Dessen
- University of Cape Town – SA Salehin B Sc (Eng) Electrical & Computer Engineering
- Stellenbosch University – Christie Dorfling – B Sc (Eng) Chemical Engineering
- Tshwane University of Technology – Jackle Friederich & Christos Pieterson
- University of Kwa-Zulu Natal – Jeremy Douglas
- Durban Institute of Technology – Ramchunder Rishaal
- Vaal University of Technology – J P du Toit

Career Guidance and Promotion of the Profession

It was mentioned in the previous report that Council had approved a proposal for a campaign to promote engineering as a career and preferred profession. The programme is named Engenius. The aim of this campaign is to promote:

- Awareness of and interest in engineering,
- To stimulate interest in career opportunities in engineering and associated industries, and,
- To improve engineering related education.

To date the programme has been branded and has been launched as the Engenius campaign. A small group of volunteer engineering practitioners have during the reporting period visited the Sci-Bono Science Centre in Newtown Johannesburg to address grade 11 and 12 students about engineering. In addition to this, visitations have been arranged in collaboration with the South African Institute of Chartered Accounts to take place later on in 2006.
Meetings are being held and continue to be scheduled to be held with stakeholders from government departments, national and provincial governments, professional institutes, organised business and labour for purposes of seeking support and endorsement from these key role players.

The Engenius Campaign will also aim at educators, parents and the public at large.

Information will continue to be supplied in subsequent reports.

INTERNATIONAL MATTERS

The International Affairs Committee – previously known as the International Committee, is concerned primarily with international mutual recognition of degrees, qualifications and registration in various categories in engineering. ECSA has obligations in this regard and because of the standing and recognition that the organisation has achieved over the years, it has seen to it that this committee finds a leading and strategic role to play in what may be understood as facilitating Africa’s development in the long term.

Following the appointment of the new Council, the International Affairs Committee is now chaired by Mr Trueman Goba and Mr Alec Hay who is now vice Chairman. Some new members of Council also indicated an interest in joining the committee.

Through this committee ECSA continued with its collaboration with the World Federation of Engineering Organisations (WFEO) and was represented at meetings in Shanghai and Puerto Rico. As a national member of WFEO, ECSA is also active in the African Federation of Engineering Organisations (AFEO).

Regarding the Washington, the Sydney, and the Dublin Accords, as well as the Engineers and Engineering Technologists’ Mobility Forums, ECSA continued to meet its commitments. The committee responded to various enquiries from countries overseas either regarding possibly assisting them in developing their accreditation processes, or to observe accreditation visits at their institutions. Among these were the Russian Association of Engineering Education (RAEE) and the Accreditation Board for Engineering Education of Korea (ABEEK).

ECSA was represented at the last International Engineers Meetings (IEM) in Hong Kong in June 2005 and will be represented at the IEM Workshop in Dublin in June 2006.

Mr Alec Hay presented a paper at the World Congress on Engineering Education (WCEE) in Budapest in March 2006 on “International Recognition of Engineering Professionals”.

ECSA also held a meeting in March 2006, with City and Guilds Institute representatives who were visiting Johannesburg in March 2006. City and Guilds conducted examinations for Engineering Council (UK) however no further collaboration with ECSA, has yet been planned planned.

Finally, three Mutual Exemption Agreements (MEA’s) and their respective addendums were signed with Engineers Ireland.

Engineers Australia and the Canadian Council for Professional Engineers (CCPE) had also approached ECSA, to consider developing MEA’s between South Africa and the respective countries. Negotiations with the Institute of Civil Engineers (UK) are also pending.

Initiatives into Africa

ECSA signed a Memorandum of Understanding with the Secretariat of the New Partnership for Africa’s Development (NEPAD) as part of initiatives to pursue a role of collaborating jointly with engineering bodies and educational institutions in Africa, in capacity building, knowledge sharing and institutional development. Visits were made to the University of Botswana, and other cross border higher education initiatives such as in Mozambique and Namibia are on-going.
DIRECTORATE: STRATEGIC IMPLEMENTATION AND QUALITY

STANDARDS AND PROCEDURES
In the previous reporting period, ECSA’s Engineering Standards Generating Body (ESGB), also acting as a Standards Generating Body for the South African Qualifications Authority (SAQA), maintained an ongoing programme of developing various qualifications.

Previously registered with SAQA are the BSc (Eng)/BEng degree (NQF Level 7 - 560 credits), and they are in use at South African Universities. The ESGB is in the process of finalising and submitting the following qualifications to SAQA: Engineer Certificate (NQF Level 8), Technologist Certificate (NQF Level 7), Technician Certificate (NQF Level 6), Certificated Engineer Certificate (NQF Level 7), Certificate in Forensic Engineering (NQF level 7), Certificate in Lifting Machinery Inspection (NQF level 5), Certificate in Medical Equipment Maintenance (NQF Level 5), Certificate in Engineering (NQF Level 5), Certificate in Metrology (NQF level 5), Certificate in Fire Engineering (NQF levels 4 & 5) and standards in Non Destructive Testing.

ECSA has engaged the Mine Health and Safety Council (MHSC) to consider registration as the mechanism of licensing under the Mines Health and Safety Act. The MHSC has engaged with their stakeholders and have subsequently compiled a draft position paper for discussion.

A registration category for Lifting Machinery Inspectors (LMI) is being established on request of the Department of Labour (DoL). The DoL is requiring all LMIs to register by September 2006. It is envisaged that more requests from the DoL will follow. This approach supports ECSA’s effort to integrate licensing and registration.

Specified categories
Part of ECSA’s mandate is to register engineering practitioners in particular established registration categories; viz professionals, candidates and specified categories.

ECSA has also turned its attention to the question of the registration needs of Specified Categories of engineering practitioners who would typically be those groups practicing in areas of engineering technology which do not readily fit into the four Professional Registration Categories.

However the principle of inclusivity as pronounced in the Policy Document on the Professions in the Built Environment is an important consideration for ECSA to consider the licensing of these practitioners, either through external legislation or through the Engineering Profession Act. It is of course important that the licensing of these practitioners be desirable, feasible and sustainable.
DIRECTORATE: FINANCE AND ADMINISTRATION

REGISTRATION MATTERS

Registration Statistics
Registration in all professional categories remained stable for period up to March 2006 with only a slight decline of 9 members for the professional engineer category down from 14754 to 14745 members. This represents a reduction of less than 1% and can possibly be attributed to registered persons retiring.

The registration categories of Professional Certificated Engineers and Professional Engineering Technologists had significant increases of 1.99% and 3.55% respectively. The most significant increase was again recorded at the Professional Engineering Technician Category where an increase of 17.82% was recorded. In the candidate categories, the candidate technician category again recorded the highest increase of 17.82% followed by candidate technologist with 13.93% and candidate engineers and certificated engineers with 2.11% and 0.02% respectively.

Visits to tertiary institutions as well as industry visits are but some of the contributing factors to the increase in registration in the technician and technologist categories. Various programmes to promote engineering will be taken on in the year ahead which will help to educate engineering practitioners and potential engineering practitioners about registration with ECSA and the profession.

A table reflecting registration as at 31 March for the four periods preceding this report is included.


<table>
<thead>
<tr>
<th>Registration Category</th>
<th>31/03/2003</th>
<th>31/03/2004</th>
<th>31/03/2005</th>
<th>31/03/2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International Professional Engineers</td>
<td>9</td>
<td>15</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td><strong>Professionals</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Engineers</td>
<td>14,687</td>
<td>14,728</td>
<td>14,754</td>
<td>14,745</td>
</tr>
<tr>
<td>Professional Engineering Technologists</td>
<td>2,357</td>
<td>2,522</td>
<td>2,617</td>
<td>2,710</td>
</tr>
<tr>
<td>Professional Certificated Engineers</td>
<td>792</td>
<td>793</td>
<td>803</td>
<td>819</td>
</tr>
<tr>
<td>Professional Engineering Technicians</td>
<td>395</td>
<td>800</td>
<td>1,094</td>
<td>1,289</td>
</tr>
<tr>
<td><strong>Candidates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidate Engineers</td>
<td>3,093</td>
<td>3,224</td>
<td>3,269</td>
<td>3,338</td>
</tr>
<tr>
<td>Candidate Engineering Technologists</td>
<td>507</td>
<td>573</td>
<td>646</td>
<td>736</td>
</tr>
<tr>
<td>Candidate Certificated Engineers</td>
<td>100</td>
<td>107</td>
<td>106</td>
<td>109</td>
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<tr>
<td>Candidate Engineering Technicians</td>
<td>563</td>
<td>699</td>
<td>833</td>
<td>973</td>
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<tr>
<td><strong>Specified Category</strong></td>
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<tr>
<td>Registered Lift Inspectors</td>
<td>160</td>
<td>155</td>
<td>161</td>
<td>163</td>
</tr>
<tr>
<td><strong>Dormant (since 28 August 2001)</strong></td>
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<tr>
<td>Registered Engineering Technicians</td>
<td>1,332</td>
<td>1,224</td>
<td>1,156</td>
<td>1,120</td>
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<tr>
<td>Reg. Eng. Technicians (Master)</td>
<td>529</td>
<td>504</td>
<td>495</td>
<td>475</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>24,515</td>
<td>25,338</td>
<td>25,949</td>
<td>26,496</td>
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</tbody>
</table>
ECSA in terms of Section 26 of the Engineering Profession Act (Act 46, 2000) must identify work which may be performed by persons registered in any of the categories referred to in Section 18 of Act 46 of 2000, including work which may fall within the scope of any other profession regulated by the Professions’ Acts referred to in the Council for the Built Environment Act, 2000. Resulting from the above the importance of registration has now become apparent to most qualified engineering practitioners and as a result the registration department has been inundated with requests to address many major stakeholders in the engineering profession on matters pertaining to registration. From the above it is clear that a significant increase in the number of applications for registration in all categories can be expected and this expectation has also been confirmed by a number of stakeholders that have to date been addressed on matters pertaining to professional registration. This poses the challenge to ECSA’s registration department to ensure that enough capacity is available to handle the envisaged influx of applications.

**Continuing Professional Development (CPD)**

Section 22(1) of the Engineering Profession Act requires that a registered practitioner has to renew his or her registration and has to *apply, in the prescribed manner, to the Council for the renewal of his or her registration*. Council decided that the most appropriate way for ECSA to give effect to the provisions of the Act would be to link renewal of registration with CPD.

The Council meeting of May 2005 approved the final Policy Document on CPD, therefore allowing for CPD to come into effect on 1 January 2006. Registered persons will then be required to renew their registration in a five yearly cycle after the initial phasing in period.

The policy document and a full explanation of the procedure are available on the ECSA website for perusal.

It is envisaged that a random audit of 10% of registered persons on the register due for renewal in each year will be carried out. Upon receipt of an audit advice the registered person will need to submit documentation substantiating their CPD activities throughout the period to be audited.

A phasing-in system over five years, until 2011, will be instituted for the initial renewal of registration. The table below gives details of when the initial renewal and subsequent renewals will be required according to each registered professional practitioner’s original date of registration.

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<tbody>
<tr>
<td>First Renewal of Registration</td>
<td>2007</td>
<td>2008</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
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<tr>
<td>Number of credits required for First Renewal of Registration</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
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<tr>
<td>Number of credits required for Second and Subsequent Renewals of Registration</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
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</table>

In short, all registered persons will be required to start formally with undertaking CPD activities on 1 January 2006. The CPD activities of the first group of registered persons (having registered in the years listed in column 1 above) will be assessed early in 2007. Meaning that they will be required to prove they have acquired at least 5 CPD credits during 2006. The second group of registered persons will be required to prove that they have acquired 10 CPD credits during the years 2006 and 2007, and so on.

As far as acknowledgement of developmental activities (category 1 activities) is concerned, ECSA has given approval to Voluntary Associations recognised as such in terms of the Act, as well as accredited
tertiary institutions to run activities, which will be acknowledged for obtaining CPD credits. All other bodies, such as private companies or state organizations, would need to have the contents of every event they provide for in Category 1, approved by the recognized voluntary association for the discipline or category of registration concerned and for the assignment of the appropriate credits.

FINANCIAL MATTERS
ECSA achieved a new record high in its expenditure for the 2005/2006 financial year when the expenditure budget exceeded R20 million. This is primarily due to the ever increasing activities carried out by the Council in accordance with its mandate.

The income from annual fees ECSA’s major source of income, financed 83% of the expenditure. Application fees contributed 9%, and the balance came from interest accrued and additional sources of income.

Funding of the disciplinary tribunals remains the major concern and ECSA therefore intends to again approach the Department of Public Works to request financial assistance from the State in order to fund crucial legal matters.

An abridged version of ECSA’s financials for the reporting period appears in Annexure A.

ECSA personnel
The office of the Engineering Council of South Africa is based in Bruma Johannesburg and is run by a staff compliment nearing the mark of 40. As the activities of ECSA have increased over the years there has been a need to increase the staff compliment accordingly.

There remain three Directorates at ECSA however due to Professor Nayagar’s appointment as CEO the following is now applicable.

The directorates are:

- Administration and Finance, headed by Mr Enslin Naudé Pr Eng
- Strategic Development and Transformation headed by Mr Mosotho Petlane
- Strategic Implementation and Quality headed by Mrs Liesel Kirsten.

Professor Ravi Nayagar took office on 01 March 2006 after the outgoing Chief Executive Officer, Mr Paul Roux retired.

ACCOUNTS - Annexure A