



ANNUAL REPORT 2005



DURBAN
UNIVERSITY of
TECHNOLOGY

A leading University of Technology in Africa





Creative Name Change Campaign

When the Higher Education landscape changed in South Africa in 2002, the ML Sultan and Technikon Natal merged to form the Durban Institute of Technology.

In order to further streamline and harmonise the academic Faculties of all tertiary institutions in South Africa, the Ministry of Education recommended additional restructuring to ensure that South Africa's tertiary education institutions were able to position themselves against global benchmarks to attract the finest students and staff, to provide a complete set of practical and academic campuses, to offer an optimal mix of academic and vocational qualifications, and to provide for the development of skills required by the country. The former technikons were renamed universities of technology.

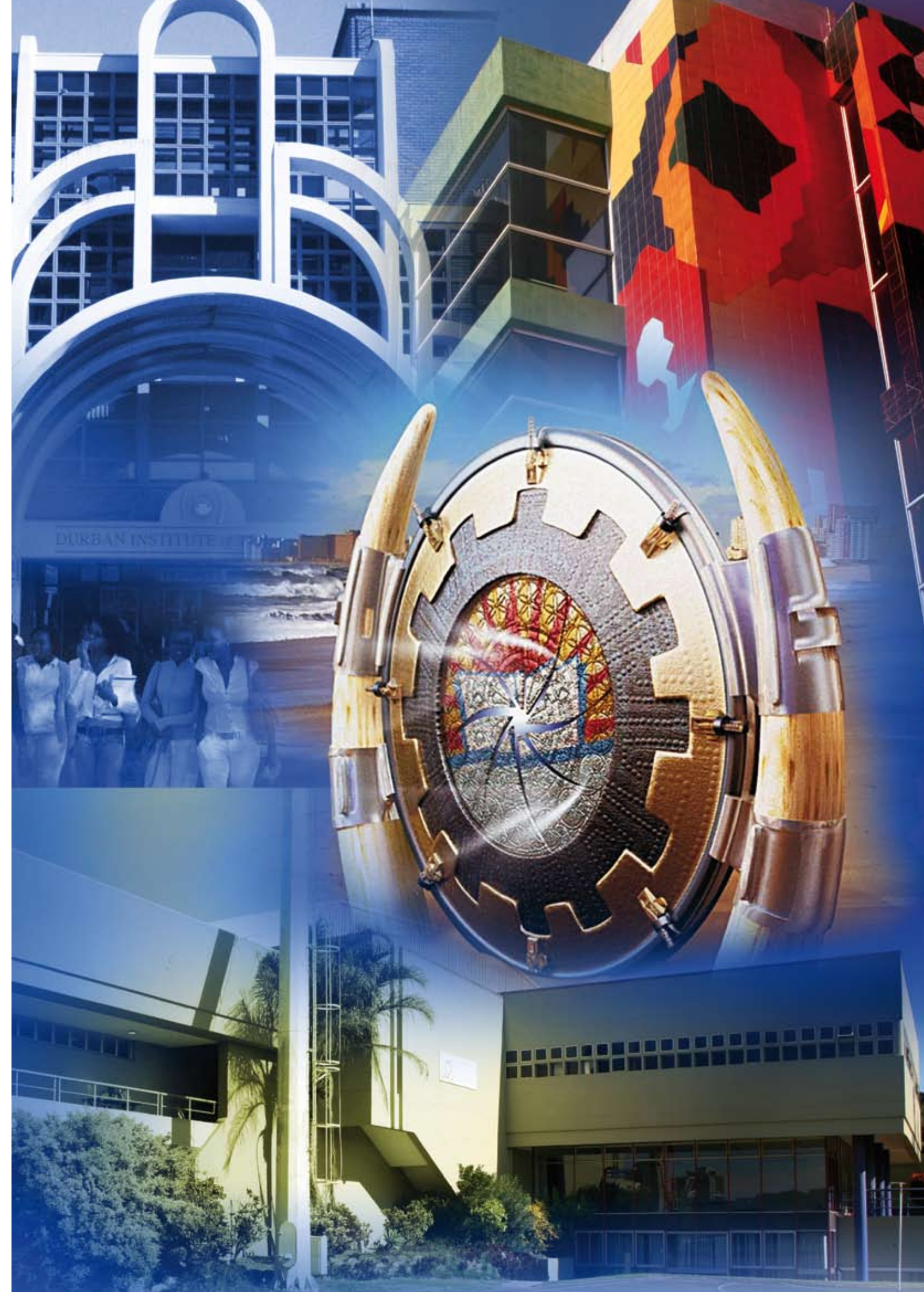
In March 2006, the Durban Institute of Technology formally became the **Durban University of Technology (DUT)**, a proudly South African University of Technology. The impetus of the name change was to align the vision and mission of the University, which identifies DUT as "a leading University of Technology that nurtures holistic education and the advancement of knowledge".

We are excited about the launch of this creative campaign to promote the DUT brand. To differentiate ourselves, we are using different straplines, according to specific target markets.

Our corporate message is:	DUT: Igniting Powerful Minds
For recruitment purposes:	DUT, where U want to be
For our Alumni:	DUT Illuminates my future
Internal Stakeholders:	we are a Unique, United, University of Technology

Our Logo:

The Open Book:	Represents the sharing of knowledge and learning.
The Waves:	Reflects the sea or water and depicts the institution's geographical location.
The Rising Sun:	Signifies glory, splendour and authority. It is placed behind the open book to support the academic aspirations of the new institution.
The Cog:	Refers to the technological aspects of DUT.
The Tusks:	A feature which aesthetically holds the logo and symbolises the unification of the two previous institutions. It also promotes a feeling of unique Africanism.





Vision

A leading University of Technology in Africa that nurtures holistic education and the advancement of knowledge.

Mission

To serve the needs of developing societies within a dynamic global context and to enable quality teaching, learning, research and community engagement by:

Providing

quality, career-focused education, and

Promoting

a values-driven ethos

sustainable partnerships with industry, community and society

excellence in applied and relevant research

Empowering

staff and students to succeed, and

Ensuring institutional sustainability.

Institutional Goals

These Institutional Goals chart the course that enables the University to realise its Vision for the future and to fulfil its Mission. The goals encompass all facets of the Institution's values and advances DUT's vision to be a leading, dynamic University of Technology.

- To promote learning through high quality programmes, research and support services that will produce competent graduates
- To ensure that the institution is strategically positioned within a global context
- To ensure institutional sustainability
- To enhance quality of student life
- To increase and enhance community engagement and partnerships
- To attract and retain quality staff and promote staff advancement
- To continuously provide improved quality services and infrastructure.

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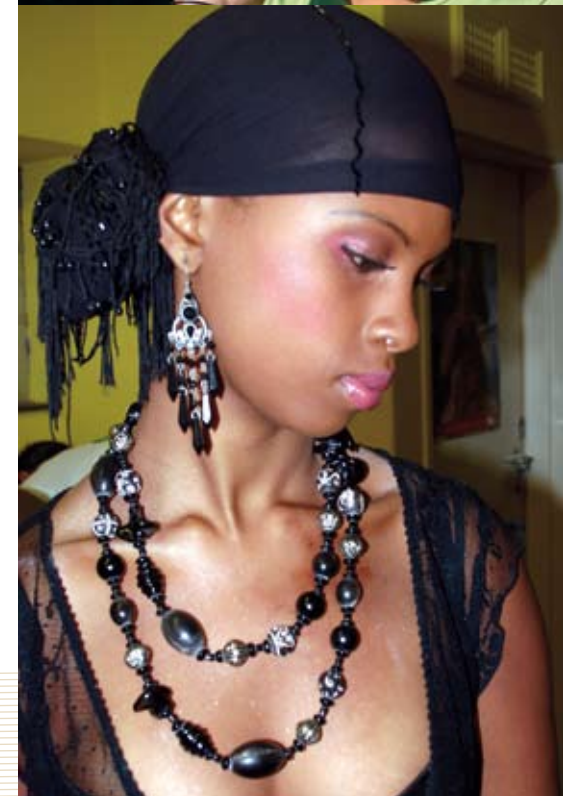
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Message from the Council

The year under review ushered in a variety of changes at the University. As Council, our brief was to ensure due oversight from a governance perspective. In this role, the chairperson relies heavily on the members of the Executive of Council, as well the remaining members who serve in a plethora of sub-committees.

Council wishes to acknowledge and pay tribute to its members for their incisive contributions. Further, it is incumbent on us to recognise the sterling contribution made to the University by Mrs Vanessa Leo who, during her term as Chair, personified the idea of selfless volunteerism in the service of the public good. So, too, did a large slate of councillors who concluded their legislated terms. President Thabo Mbeki has spoken at great length about the virtues of volunteerism in a State of the Nation address. I am proud to be associated with a Council that takes that concept seriously.

It was in the latter part of 2005 that Miss Ellen Tshabalala was elected to take up the baton from Mrs Leo, along with Advocate Karthi Govender who served as the Deputy Chair of Council. Nevertheless, this report is intended as an overview of the entire academic year during which time Council had insight into all the areas being reported on.

The Higher Education Act is rigidly prescriptive when it comes to the roles, functions and responsibilities of Council. Most prominent among these is the prerogative of Council to select and appoint members of the Executive Management.

In February 2005, Council approved the appointment of Professor Bonganjalo C. Goba on a fixed term contract. He assumed office in early April, immediately following the conclusion of Professor Dan J. Ncayiyana's term. In welcoming Professor Goba to the University, we acknowledge Professor Ncayiyana for the distinction with which he served in that role. In filling the Vice Chancellor's position, Council was both decisive and expeditious in ensuring that there was no vacuum in the University's most senior executive position.

Among the policy documents that the Vice Chancellor brought to Council for approval was a far-reaching restructuring of the Executive team. After interrogating the proposals, the portfolios of Deputy Vice Chancellor (Financial and Information Services), DVC (Academic), DVC (Administration and Corporate Services) and Executive Director (Student Services), and the attendant portfolios reporting straight to the Vice Chancellor, were approved in mid-September.

In the latter part of the year Council was pleased to invite Professor Hugh Africa to facilitate a workshop for both serving and new members



of Council. Given Professor Africa's vast experience in Higher Education, Council was able to come up with the terms of a sound working relationship and a code of conduct.

Outstanding labour related matters received attention throughout the year. In May, Phase 1 of job grading was approved. The Conditions of Service policy, although with a few outstanding issues, was approved in November.

The University's property portfolio was expanded, with Council approving the purchase of the Gardens Guest House property in Botanic Gardens Road, as a training facility for the Department of Hospitality Management Sciences. It is expected that it will be both a training centre and an income-generating facility, by offering accommodation to the general public, when available.

With the passage of new legislation it became necessary to amend the nomenclature to identify ourselves more explicitly as a University of Technology. Accordingly, the Durban Institute of Technology evolved into the Durban University of Technology. This is ordinarily a complex process fraught with all kinds of difficulties. We did, however, approve the name change through a participatory process involving the stakeholders within Council. The revised corporate identity was planned for roll-out in 2006.

Council

Vice Chancellor's Report

In the year under review one of our most prominent institutional objectives was to undertake a far-reaching visioning exercise. The outcome of that exercise were Mission and Vision statements and a Strategic Plan that has enabled us to set course for the next five years.

I am pleased that these expressions of institutional intent emerged from a widely consultative process and that they enjoy the broadest possible legitimacy. That said, it is not expected that those documents should be cast in stone. Progressive organisations are the ones that consistently engage with the strategic institutional objectives and revise them as circumstances change. The one approach that will be consistent though, is the fact that consultation with our stakeholders is a critical facet of planning.

The next major challenge that confronted us was to translate the institutional objectives into a programme of action. To this end, I commissioned an operational plan that would set very definite targets and also act as one of the performance management tools at our disposal. In our first iteration of the operational plan, we were chasing tight deadlines and, in part, omitted the intensive consultative process that characterised the visioning exercise. We then put the first draft of the operational plan out for further consultation and we anticipate that its outcome will be an institutional blueprint that will meet with Council's approval.

My commitment is to build a values-driven institution with a view to developing a new organisational culture. I believe the values we have established in our Mission and Vision statement will go a long way in assisting us in this regard. The Institutional Forum's contribution to what it has called a "healing process" has been a valuable intervention as we grapple with a new organisational culture.

As a newly merged institution we believe we needed to address the outstanding issues that have created alienation, mistrust and a lack of shared purpose and direction for the future. I believe promoting our new Mission and Vision has enhanced a sense of belonging among staff and students.

Above all, our collective commitment is to ensure that we create an enabling environment to realise the objective of becoming a "leading University of Technology in Africa that nurtures holistic education and the advancement of knowledge". This is a tall order which required a sense of urgency and, among our short-term accomplishments, we convened a Labour Consultative Forum which brought all the unions together to sit with the Executive and iron out the outstanding labour matters. This is a forum where the stakeholders continue to engage management vigorously and I believe that it has promoted a healthy labour relations regime. One of its most valuable outcomes was finalising the University's new Conditions of Service.



Professor Bonganjalo Goba

Other outstanding matters since the merger have included improvements to our physical infrastructure, providing adequate resources for our core academic business, improving the quality of life for our students, especially by focusing on improving residences, revising financial aid policies and engaging in curriculum debates to ensure that we offer relevant academic programmes. Elsewhere in this report there is more detailed reference to our interventions in the year under review, as well as the quantum of funds made available to meet these demands.

Equity remains a major priority for the institution in responding to the transformation agenda of both the country and Higher Education. Council set aside a sum of R2.5 million in this financial year as a special allocation to advance our equity objectives. I am pleased to report that we began identifying promising students to serve as junior staff under a new programme, called 'GOOT' - "Growing our own timber". Given the peculiarities in the evolution of our University, the skewed diversity profile continues to reflect Africans and Coloureds as being the most under-represented groups. Our equity strategies have been directed accordingly.

Our efforts to address gender equity are also paramount in our transformation agenda. Here again the distribution is rather skewed, with males dominant in most senior positions in the University.

This is a useful juncture at which to reflect on the advances in highlighting the role of women in enhancing our research capacity. In a detailed publication titled, "Women in Research", our Director of Research, Professor Gansen Pillay, profiled no fewer than 110 women researchers at DUT who are engaged in high quality research in subjects as diverse as assessing milk quality using the electronic nose to neural network modelling of mammalian cell cycle regulation; to the translation of computer software into indigenous African languages; to the interface between literature and tourism. With these existing strengths, there ought to be no further obstacles to identifying more women for key academic and leadership positions within the University.



Soon after the Minister of Education gazetted Council's recommendation to change the institution's name to the Durban University of Technology, our Public Affairs Division successfully repackaged the University brand and launched it among our stakeholders and external audiences. Additionally, the Director of Public Affairs, Ms. Nomonde Mbadi, has been engaged in developing a fresh and revitalised corporate image, which has been timetabled for roll-out during the course of 2006.

The University's international relations have gained tremendous impetus in the year under review. This has manifested itself in a growing body of international students, who now number in excess of 1 000 from more than 40 countries, mainly in Africa but including China, India, Pakistan, Bangladesh, Malaysia and Singapore. We also have a small but growing number of post-doctoral students and academic staff that we have succeeded in recruiting from abroad. It has been a valuable outcome that we have been able to secure an undertaking for short-term placements abroad for our administrative and support staff, notably from the Government of India, which has funded a series of scholarships.

As regards relationships with foreign universities, we have looked to direct a greater focus on the developing countries of the South while retaining some of our mutually beneficial northern relationships. Our Memoranda of

Understanding have been whittled down to those only where there is active person-to-person contact, mainly in the areas of research collaboration, staff and student exchanges and joint community engagement projects. I am indebted to the leadership of our Director of Research for facilitating our MoUs within this strategic framework.

In the Southern African Development Community (SADC) we have, in the course of the year under review, built a sound relationship with the governments of Mozambique, Botswana, Rwanda, Mauritius and Lesotho and have a programme to extend that during 2007. A large student delegation from our Department of Journalism undertook a field tour in Mozambique towards the end of the year. This was one of the first initiatives of its kind and was the first visit to our southern African neighbour for all of those students. The objectives of the tour interfaced directly with our revised teaching and learning strategy and was critical in broadening the world view of a group of students who will, no doubt, be influential in shaping public opinion in the years ahead. While accompanying the student delegation on one of the legs of their tour, I was delighted to be received by the Mozambican Minister of Higher Education.

DUT's relationship with the United States has, historically, been a strong one. Our long-standing partner, Savannah State University in

Georgia, through the good offices of Dr Alex Kalu, has collaborated with us in a number of renewable energy projects, the latest of which was handed over to His Majesty, King Goodwill Zwelithini kaBhekuzulu. This was in the form of a groundwater pumping station in the KwaMajomela district, near Nongoma. The station uses power from solar panels to draw water up to a village that is located a significant height above sea level and which has, hitherto, not been on the potable water grid. We also collaborate with Savannah State in water projects in Mozambique.

A project that has yielded significant benefits in terms of developing institutional capacity is the USAID-funded Tertiary Education Linkages Project (TELP). This project has been with us from the early days of our democratic dispensation. Its programme of action was in direct response to the development and capacity-building imperatives identified by government. TELP's role in strengthening our capacity for Higher Education transformation in South Africa has been a most compelling intervention. While there have been a host of individuals who have made the success of this project their personal and professional missions, I want to reserve a special word of acknowledgement for Dr Gloria Braxton and Ms Liz Lowe, who were critical to shaping these successful outcomes.

While TELP will close out during the course of 2006, the South Africa-Netherlands Partnership in Alternatives in Development (SANPAD) is gathering increased momentum. The project is under the enthusiastic and expert leadership of one of the university's former executives, Professor Anshu Padayachee. She has been at great pains to ensure the University's ongoing participation in SANPAD's programmes. Its Research Capacity Initiative (RCI) in particular, has been very valuable for us in enhancing the academic qualifications of our staff. Additionally, SANPAD has facilitated our contact with Netherlands' institutions and has brought out expert support in establishing the International Desk in my office.

Elsewhere in this report members of my Executive team provide overviews of their respective ambits. I shall, therefore, not dwell on any singular aspect, suffice to say that in the academic arena, our throughput performance has been our constant preoccupation. Throughput rates for universities of technology or our predecessors, the technikons, have been well below that of the traditional universities for a variety of reasons. Notable among these is the almost instant employability of our undergraduate students as well as our graduates on account of their readiness for the world of work. A case in point is that of students getting snapped up by employers while serving their internships. A good many of those faced with the allure of paid employment do not return to complete their qualifications.

The low throughput is also explained, in part, by shortcomings in our teaching and learning methodologies. The "softer" issues of adequate funding, residential accommodation and mentorship also impact on the potential of our students to succeed. We are in the process of rolling out a comprehensive strategy and I have every confidence that our staff and students are ready to put shoulder to the wheel and meet the goals and

objectives identified in our Mission statement.

It is no secret that our financial affairs since the merger have come under close scrutiny. One of my initial requests on assuming office was to have Council institute a special audit and due diligence. Council, in its wisdom, chose another route to address these issues. We are still in the midst of that exercise and I am therefore unable to provide a comprehensive insight in that regard. I must, however, point out that year-on-year, going back to the merger, Council has approved the University's budgets and audited financial statements have consistently given the University a clean bill of health. We remain committed, however, to sound and clean financial administration in the discharge of our duties as publicly accountable officials.

Governance-related tensions created a series of rocky patches for the University. Council was unable to function optimally and we sought external intervention, notably through my correspondence with the Minister of Education. I am, however, indebted to those members of Council who gave selflessly of their time and expertise in the service of the University. South African Higher Education is still in the throes of transitional tensions, but I am hopeful that we will turn the corner.

All told, I think it divine providence to have been chosen to lead a fine management team and to be at the helm of this extraordinary institution, which is on the threshold of making its mark in both South African Higher Education and in the realm of our emerging continent.

Professor Bonganjalo C. Goba, PhD



Council's Report on Corporate Governance

The following statement is given to assist readers of the Annual Report to obtain an understanding of the governance structure and procedures applied by the Durban University of Technology's Council.

The Durban University of Technology is committed to the principles of discipline, transparency, independence, accountability, responsibility, fairness and social responsibility as advocated in the King Report on Corporate Governance. Accordingly the Council endorses and, during the period under review has applied, the Code of Corporate Practices and Conduct and the Code of Ethical Behaviour and Practice as set out in the King II Report. In supporting these Codes, the Council recognises the need to conduct the business of the Durban University of Technology with integrity and in accordance with generally accepted practices. Monitoring the Durban University of Technology's compliance with the Code forms part of the mandate of the Durban University of Technology's Audit Committee.

The Council

The Durban University of Technology comprises academic and non-academic persons appointed under the Statutes of the Durban University of Technology, the majority (at least 60 per cent) of whom are neither employees nor students. The role of Chairperson of the Council is separated from the role of the Durban University of Technology's Chief Executive, the Vice Chancellor. Matters referred to the Council for decision-making are set out in the Statutes of the Durban University of Technology, by custom and under the Higher Education Act, 1997. The Council is responsible for the ongoing strategic direction of the Durban University of Technology, approval of major developments and the receipt of regular reports from management on the day-to-day operations of its business.

The Council met eight times and has several committees, including a Remuneration Committee, a Finance Committee, a Council Membership Committee and an Audit Committee. All of these committees are formally constituted with terms of reference and comprise mainly members of the Council who are neither employees nor students of the Durban University of Technology.

Executive Committee

The Executive Committee, *inter alia*:

- acts on behalf of the Council in urgent matters with subsequent reporting to Council;
- considers and makes recommendations to the Council on matters referred to the Council by Committees of the Council, the Senate and its Committees, the Executive Management, and the Joint Committees



Mr Manoj Madanjit

- of the Council and the Senate, thus serving as a clearing house for the Council;
- approves staff appointments, dismissals, transfers, promotions and demotions;
- determines the conditions of service, salaries and job gradings of Executive Management;
- makes recommendations to the Council on policy issues.

Remuneration Committee

The Remuneration Committee's specific terms of reference include direct authority for, or consideration and recommendation to the Council of, matters relating to, *inter alia*, general staff policies, remuneration and prerequisites, bonuses, Executive remuneration, members of Council remuneration and fees, service contracts and retirement funds.

Finance Committee

The Finance Committee, *inter alia*, recommends the Durban University of Technology's annual revenue and capital budgets and monitors performance in relation to the approved operating and capital budgets. It is responsible for assuring the financial health of the institution as a "going concern". It is also responsible for ensuring that the accounting information systems are in place and the personnel complement are maintaining the accounting records of the institution in good order.

Council Membership Committee

The Council Membership Committee considers nominations for vacancies in the Council membership under the relevant Statute.

Audit Committee

The Audit Committee, whose chairperson and members are members of

Council, or are not members of Council but are specialists in the field. Both the internal and external auditors have unrestricted access to the Audit Committee, which ensures that their independence is in no way impaired. Meetings are held at least twice a year and are attended by the external and internal auditors and appropriate members of Executive Management. The Audit Committee operates in accordance with written terms of reference, confirmed by the Council, which provides assistance to the Council with regard to:

- ensuring compliance with applicable legislation and the requirements of regulatory authorities;
- matters relating to financial and internal control, accounting policies, reporting and disclosure;
- internal and external audit policies;
- activities, scope, adequacy and effectiveness of the internal audit function;
- assessment of all areas of financial risk and the management thereof;
- review/approval of external and internal audit plans, findings, problems, reports and fees;

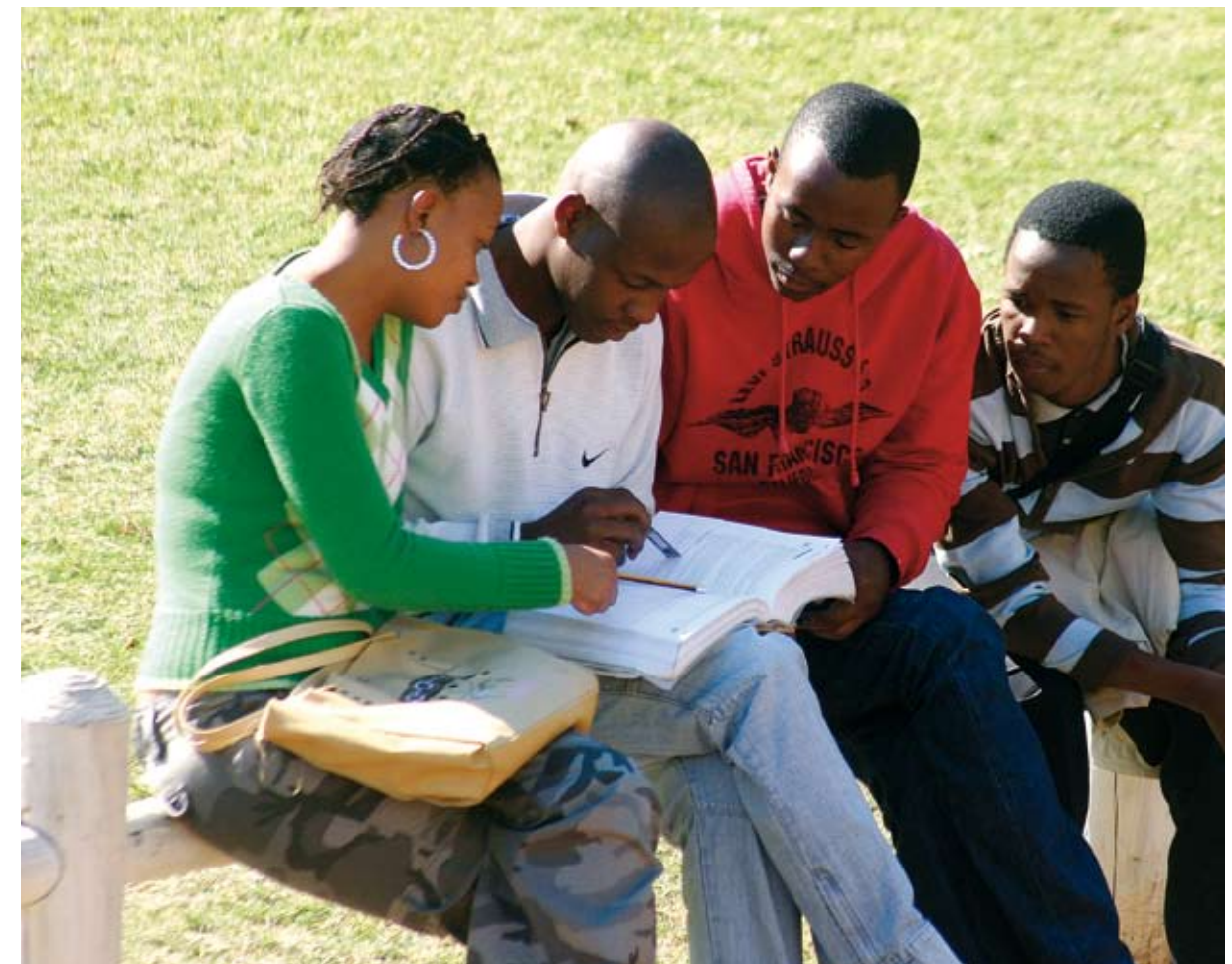
- compliance with the Code of Corporate Practices and Conduct;
- compliance with the Durban University of Technology's Code of Ethics.

Conflict Management

A group of individuals has been identified who are professionally qualified and experienced in mediation, arbitration and dispute resolution and are available to the Council to assist in the resolution of any disputes between parties within the institution, with the objective of avoiding conflict. During the current year it was not necessary to call upon their services.

Statement on worker and student participation (co-operative governance)

The Durban University of Technology makes use of a variety of participating structures on issues which affect employees and students directly and materially, and which are designed to achieve good employer/employee and student relations through effective sharing of relevant information, consultation and the identification and resolution of conflicts.



These structures embrace goals relating to productivity, career security, legitimacy and identification with the Durban University of Technology.

An affirmative action programme forms part of the Durban University of Technology's training programme and business plan.

Statement on internal administrative/operational structures and controls

The Durban University of Technology maintains systems of internal control over financial reporting and safeguarding of assets against unauthorised acquisition, use or disposition of such assets. Such systems are designed to provide reasonable assurance to the Durban University of Technology and Council regarding the preparation of reliable published financial statements and the safeguarding of assets. It includes a well-documented organisational structure and division of responsibilities, established policies and procedures, which are communicated throughout the Durban University of Technology, and the careful selection, training and development of its people. Internal auditors monitor the operation of the internal control systems and report findings and recommendations to management and the Council. Corrective action is taken to address control deficiencies and other opportunities for improving the system when identified. The Council, operating through its Audit Committee, provides oversight of the financial reporting process.

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention or overriding of controls. Accordingly, even an effective internal control system can provide only reasonable assurance with respect to financial statement preparation and the safeguarding of assets. Furthermore, the effectiveness of an internal control system can change with circumstances.

The Durban University of Technology assessed its internal control systems as at 31 December 2005 in relation to the criteria for effective internal control over financial reporting described in its Internal Control Manual. Based on its assessment, the Durban University of Technology believes that as at 31 December 2005, its system of internal control over its

operational environment, information reporting and safeguarding of assets against unauthorised acquisition, use or disposition, met those criteria.

Statement on the Code of Ethics

The Durban University of Technology's Code of Ethics commits the institution to the highest standards of integrity, behaviour and ethics in dealing with all its stakeholders, including its Council members, managers, employees, students, customers, suppliers, competitors, donors and society at large. The Council members and staff are expected to observe the institution's ethical obligations in order to conduct business through the use of fair commercial competitive practices.

Financial risks

Decisions on the level of risk undertaken are confined to the Management Committee that has established limits by transaction type and by counter party. Trading for speculative purposes is prohibited. All interest rate derivative transactions are subject to approval by the Director: Finance before execution.

The institution is adequately covered in terms of its insurance policy against fire and allied perils, business disruption, theft, money, fidelity, public liability, accidental damage and employer's liability.

Management and controls of the consequence of risk

All potential risk consequences are identified and evaluated by the Audit Committee and Management, and the conditions within which such risks arise are constantly controlled and monitored. Management, based on cost-effectiveness analysis, employs methods of minimising adverse consequences. The management of such conditions are therefore, in place.

Mr Manoj Madanjit

Report by the Institutional Forum

The year 2005 saw a deepening of the role of the Institutional Forum (IF) in fulfilling its statutory role in terms of the Higher Education Act. The IF continued to engage actively with the DUT community in various ways. The Forum's advisory role to Council continued, and a workshop planned for 2006 will look at ways to enhance this liaison. Engagement with Management has been marked by regular meetings with the Vice Chancellor, as well as the active participation of the Vice Chancellor at IF meetings. Plans are afoot to arrange quarterly meetings between Executive Management and the IF.

Engagement with other stakeholder groups is via the elected stakeholder representatives at IF, and there is a vibrant culture of dignified debate at meetings.

As a collective, the IF has grown into a cohesive and highly functional unit, within which a wonderful spirit of co-operation and respectfulness has emerged. This has allowed the IF to function so as to always place the interests of DUT and its people first. This is reflected in the agenda, decisions and ethos of the IF. I am most fortunate to work with a team of IF members who stand together and shoulder the mandate of the IF with the requisite diligence, responsibility and drive.

I must commend the IF as a collective for the tenacity of purpose with which it operates. This culture of vigorous participation has allowed the IF to be part of the major decisions at the University. It has been included in all major Committees of the institution, including the Selection Committee for Senior Management appointments, the Academic Planning Committee and the Institutional Planning Committee.

The IF has played a pivotal role in the development of a Strategic Plan for DUT for 2005-2010 and continues to be involved in the unfolding of this process.

The Forum has taken proactive steps to address the needs of physically challenged members of the DUT community and continues to play an advocacy role to effect change that will make our environment friendly to these members of our community.

The statutory role of the IF to foster an institutional culture which promotes tolerance and respect has led to the IF proposing to Management an Institutional Healing Project.

A proposal has been submitted for consideration and the various aspects of this project should come to fruition in 2006 and beyond. It is hoped that this project will lead to the emergence of a common DUT culture, one that embraces diversity, tolerance and the set of core values enshrined in our Strategic Plan.

The statutory role of the IF to advise on the creation of an appropriate



Dr Lavern Samuels

environment for instruction, research and learning, which has been dealt with by submissions to management that highlight the various areas of our infrastructure and of campus life, in general, that need active intervention to allow our core business to flourish within the University.

The IF has taken a proactive and leading role in encouraging preparation for the 2007 Institutional Audit of DUT by the Higher Education Quality Committee (HEQC). This is not an *ad-hoc* arrangement but is part of a greater commitment to the continuing quality improvement cycle at DUT. The IF will continue to play a strong advocacy role on institutional quality matters. The Chair of IF is actively involved in the Project Management team (PMT) that is driving the preparation for the 2007 Institutional Audit.

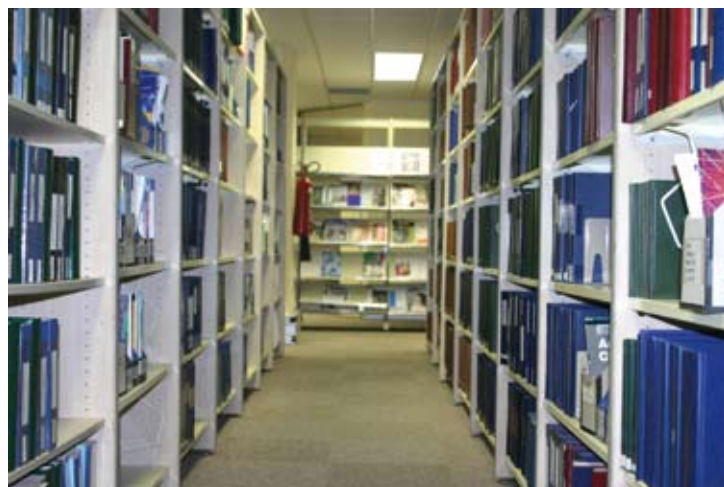
The year 2005 also saw the approval and promulgation of the DUT Statute. The Forum played a prominent role in finalising the submission of the Statute to the Ministry of Education. This statute, which will be implemented in 2006, will see the IF, for the first time, being allocated a seat on Council.

In terms of the Codes of Conduct, Mediation and Dispute Resolution, the IF successfully supported the withdrawal of Section 189 of the Labour Relations Act. The Forum has also made input into Race and Gender Equity policies, some of which will come before Council in 2006. The IF has played an instrumental role in the finalisation of the DUT Conditions of Service and continues to play a role in such matters.

The constructive engagement illustrated in this report is being nurtured and augmented, and is expected to continue with added verve in 2006. The vibrant functioning of the IF augurs well for the University, as well as for the model of co-operative governance envisaged by the Higher Education Act.

Dr Lavern Samuels

Chairperson: Institutional Forum



Senate Report to Council

2005 was a year in which several significant advances were made in the academic sector. In stock exchange parlance, it was a time where the bulls were in the ascendant and the bears took a back seat.

The strategic planning exercise, which had begun in 2004, reached fruition. In its wake came a growing awareness that the various improvements that were needed could be taken forward only through leadership that was fully supportive of the academic sector combined with rigorous and realistic planning. Another important factor, as noted by the Dean of Arts, was that the impact of the merger was becoming less significant. Its effects were still felt, but were gradually receding.

It was a year in which we continued to grapple with restructuring. It is hoped that the process can be completed in the course of 2006. In order to do this successfully, it became apparent that the engagement of the wider institutional community was of great importance.

It is gratifying to note that there is a discernable growth of interest in academic research and the acquisition of higher qualifications. As the reports of the four Faculties show, many of our staff are now very much aware of the importance of this issue. It is commendable that they are putting in so much effort, in spite of the heavy teaching loads they continue to carry.

Professor Darren Lortan
Deputy Vice Chancellor: Academic

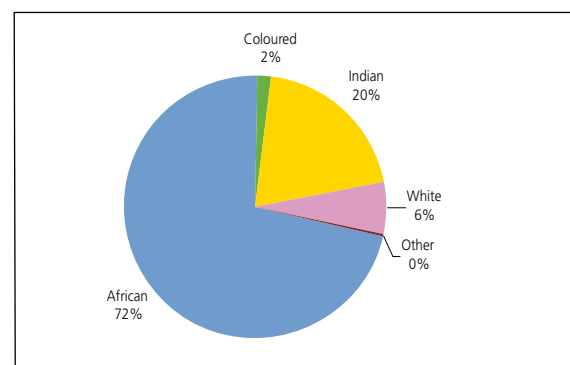


Professor Darren Lortan

Student profile and academic success rates Composition and size of student body - 2005

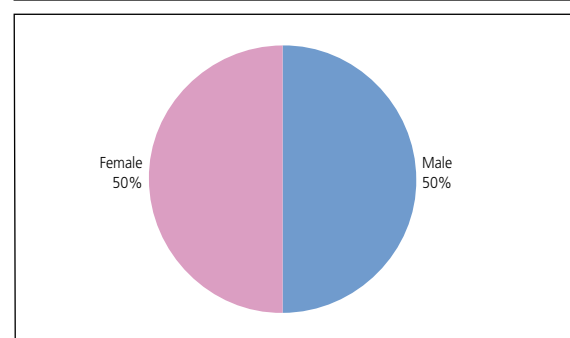
Headcount Enrolment by Race

African	Coloured	Indian	White	Other	Total
16 270	374	4 532	1 470	56	22 702



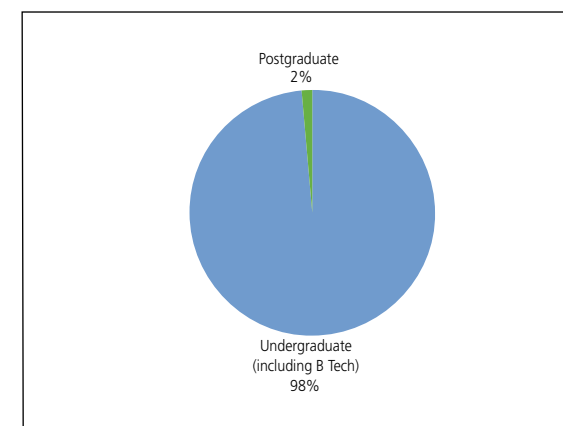
Headcount Enrolment by Gender

Male	Female	Total
11 379	11 323	22 702



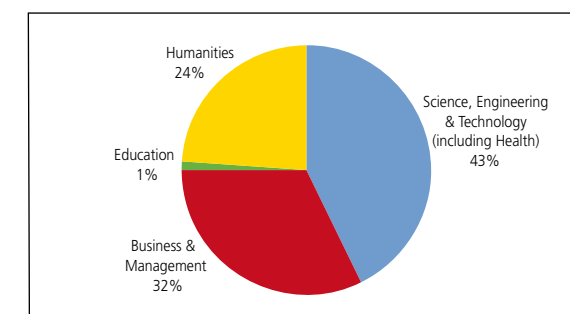
Undergraduate/postgraduate headcount

Undergraduate (including B Tech)	Postgraduate	Total
22 360	342	22 702



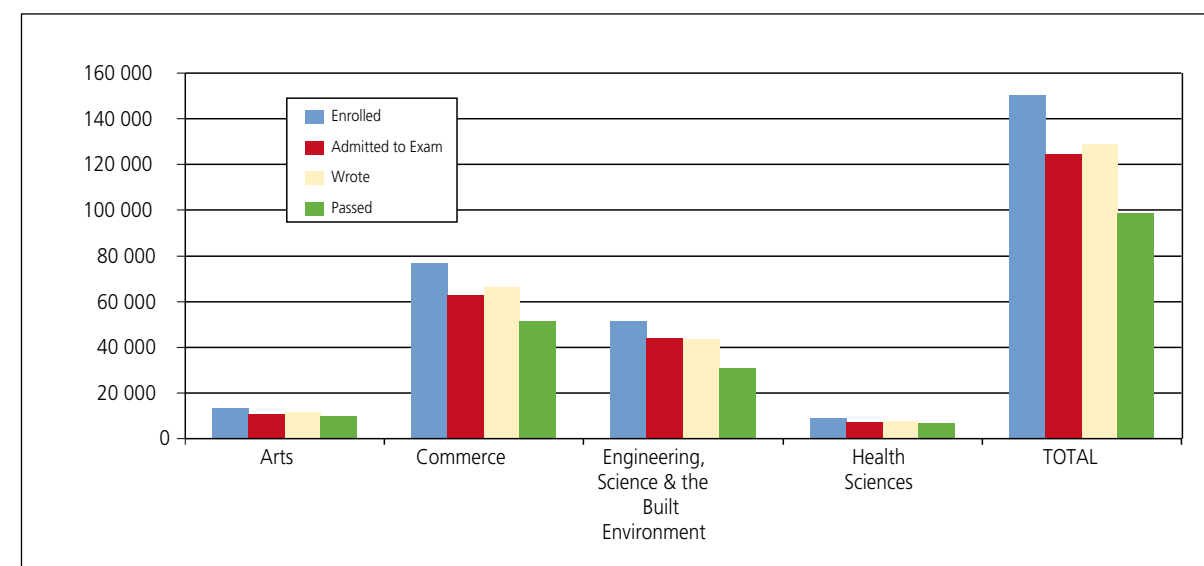
Enrolment per full-time equivalent

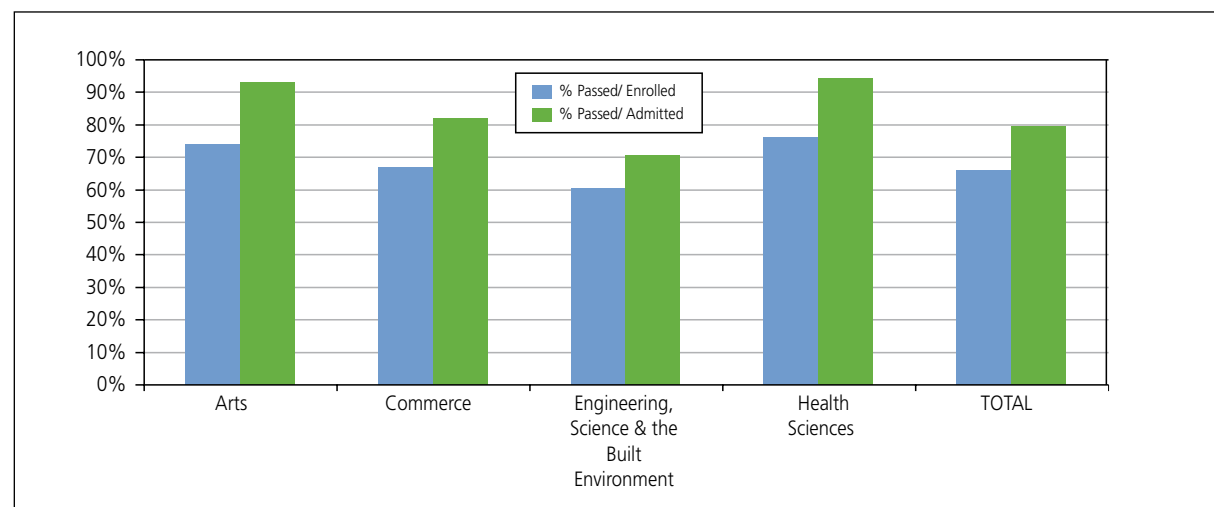
Science, Engineering & Technology (including Health)	7 325
Business & Management	5 522
Education	194
Humanities	4 083
Total	17 125



Summary of Exam Statistics per Faculty for 2005

Faculty	Subject Enrolments					
	Enrolled to Exam	Admitted	Wrote	Passed	% Passed/Enrolled	% Passed/Admitted
Arts	13 341	10 571	11 329	9 846	74%	93%
Commerce	76 603	62 643	66 106	51 311	67%	82%
Engineering, Science & the Built Environment	51 479	43 926	43 490	30 998	60%	71%
Health Sciences	8 753	7 074	7 614	6 672	76%	94%
TOTAL	150 176	124 214	128 539	98 827	66%	80%





Academic Progress in 2005

2006 Graduation Ceremonies: Graduates per Faculty according to level of study

Qualification	Arts	Commerce	ESBE	Health	Total
National Certificate	0	25	0	40	65
National Higher Certificate	0	234	0	0	234
National Diploma	288	1 679	734	252	2 953
National Higher Diploma	0	0	13	16	29
Bachelor of Technology	68	449	226	163	906
Professional First B Degree	21	0	0	0	21
Post Diploma Diploma	2	0	0	0	2
Master of Technology	5	5	8	49	67
Doctor of Technology	0		2	2	4
Total	384	2 392	983	522	4 281

2006 Graduation Ceremonies: Graduates per Race and Gender

Faculty	African		Coloured		Indian		White		Other		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Total
Arts	85	99	1	8	15	34	59	82	0	0	160	223	383
Commerce	724	1077	12	14	217	248	50	38	9	3	1012	1380	2392
ESBE	367	200	13	4	177	94	116	10	2	1	675	309	984
Health	44	155	2	12	38	133	48	89	1	0	133	389	522
Total	1 220	1 531	28	38	447	509	273	219	12	4	1 980	2 301	4 281

Centre for Research Management and Development (CRMD)

The 2005 Annual Research Report of the Durban University of Technology provides stakeholders with a comprehensive overview of the status of research at the institution. As a university of technology, the institution is carefully locating itself within the South African research arena. DUT does not see itself as a research-intensive organisation. However, research is a core function and the selection of DUT's applied research programmes, which are defined by "excellence with relevance", are central to a number of regional and national imperatives, contribute to poverty eradication and attempt to address the Millennium Development Goals.

The National Research Foundation (NRF) of South Africa is one of the key funders of research at the DUT. The following research niche areas were funded by the NRF in 2005, viz.:

- ▶ Water and wastewater technology
- ▶ Appropriate design education for sustainable development
- ▶ Materials design and manufacture
- ▶ Dynamical systems research
- ▶ ICT and development.

In 2005 DUT continued to recognise and affirm its researchers. This was achieved by acknowledging and celebrating all NRF-rated researchers, creating a forum and providing funds to address gender equity in research.

Below is a summary of the various NRF grants which our researchers have secured, partnerships with industry, external research grants, and the postgraduate student intake.

Thuthuka Programme:

Prof S Singh, Department of Biotechnology
 Prof J L Conolly, Centre for Higher Education Development
 Dr K Bisetty, Department of Chemistry
 Mrs T Padayachee, Department of Food Technology
 Dr K Permaul, Department of Biotechnology
 Mrs A Razak, Department of Nursing
 Mr D Singh, Department of Physics
 Prof B Odhav, Department of Biotechnology
 Mrs P Reddy, Department of Environmental Health
 Mr S Ramsuroop, Department of Chemical Engineering
 Ms S Mistry, Department of Mathematics
 Dr J Raju, Department of Library and Information Studies
 Mrs R Rampersad, Department of Public Relations Management
 Mr V Mohanlal, Department of Biotechnology
 Dr N Deenadayalu, Department of Chemistry

**Professor Gansen Pillay****Institutional Research Development Programme:****Water and Wastewater Technology**

Prof F Bux, Centre for Water and Wastewater Technology
 Dr V Ndinisa, Department of Chemical Engineering
 Dr A Telukdarie, Department of Chemical Engineering
 Dr F M Swalaha, Department of Biotechnology
 Dr V L Pillay, Department of Chemical Engineering

Appropriate Design for Sustainable Education

Prof I G Sutherland, Department of Graphic Design
 Ms K L Wells, Department of Graphic Design
 Mr Chris de Beer, Department of Jewellery Design

Dynamical Systems Research

Prof K Duffy, Centre for System Research
 Prof S Moyo, Department of Mathematics
 Dr R Naidoo, Department of Mathematics
 Dr P Govender, Department of Electrical Engineering

Materials Design and Manufacture

Prof M Kekana, Department of Mechanical Engineering
 Prof M Walker, Department of Mechanical Engineering
 Prof P Tabakov, Department of Mechanical Engineering
 Prof D Johnson, Department of Mechanical Engineering

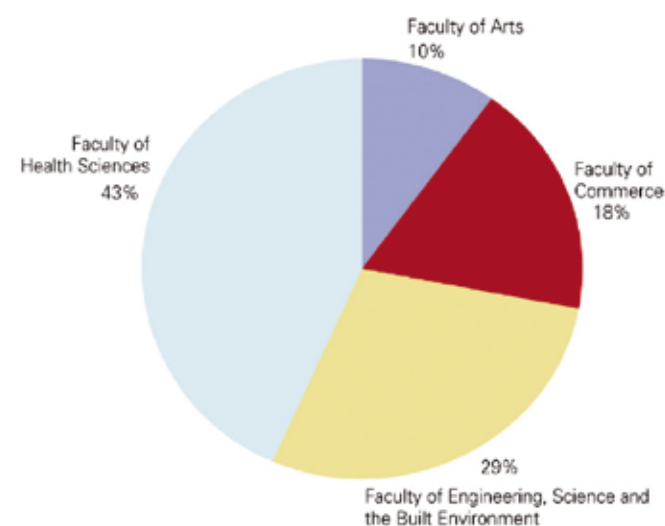
ICT and Development

Prof M Wallis, Executive Dean (Commerce)
 Ms D Heukelman, Department of Information Technology
 Ms M P Njobe, Department of Information Technology
 Ms T Jacobs, Department of Financial Accounting
 Dr T Nepal, Department of Information Technology

Postgraduate students at DUT: 2005

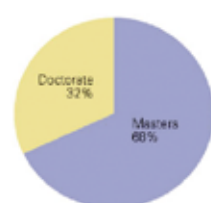
DUT is proud that its postgraduate student numbers are showing healthy growth. There is clear evidence of a vibrant research ethos and culture developing on the campuses of the newly re-named Durban University of Technology.

The chart on the right shows the percentage per faculty of all postgraduate students at DUT.



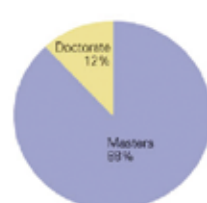
Masters and Doctorate students per Faculty

Faculty of Arts



Total no:
Masters: 23
Doctorates: 11

Faculty of Commerce



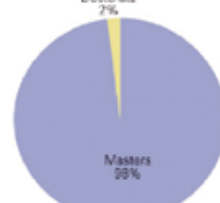
Total no:
Masters: 53
Doctorates: 7

Faculty of Engineering, Science and the Built Environment



Total no:
Masters: 76
Doctorates: 20

Faculty of Health Sciences



Total no:
Masters: 143
Doctorates: 3

As a developing research institution, DUT introduced numerous interventions to address capacity-building in research. These included, *inter alia*, providing funds for:

- ▶ seed grants
- ▶ major capital research equipment
- ▶ visiting researchers
- ▶ postdoctoral fellowships
- ▶ hosting of national and international conferences
- ▶ participation in national and international conferences
- ▶ the women in research initiative
- ▶ publications writing workshops.

DUT, through its research programmes, also contributed to another core function of the institution, *viz.*, Community Engagement. The currency of DUT's research is measured by its impact on the communities we serve. This is clearly evident from some of the research/community engagements to which our researchers have committed. A comprehensive review on DUT's research and community engagement initiatives were presented in a bulletin.

The fruits of DUT's investment in research can be measured only by the quantity and quality of its research output. While the higher degree student throughput is still being finalised, indications are that there is an improvement compared to 2004. We are able, however, to report on peer-reviewed

publications of the University and provide a summary of participation by DUT researchers at national and international conferences (Annual Research Report, 2005). It is hoped that an intensification of efforts to ensure capacity building in research would yield the products that we seek, would increase research funding and would allow DUT to take its rightful place in research among South Africa's Higher Education institutions.

The commitment, perseverance and dedication of DUT's researchers is noted with pride and is gratefully acknowledged.

Professor Gansen Pillay

Director: Centre for Research Management and Development



Centre for Higher Education and Development (CHED)

CHED experienced some staff changes during 2005 with the three-year appointments of Delysia Timm (Head of Department of Educational Technology) and Liz Harrison (Head of Department of Learning and Teaching); the permanent appointment of a Recognition of Prior Learning (RPL) Co-ordinator, Dr Gavin Hendricks, and a Curriculum Developer, Mrs Sindi Mthembu, who joined the academic staff of the Department of Learning and Teaching. We were sad to bid farewell to Dawn Greeff, Administrator in CHED who retired at the end of 2005 after 20 years' service.

Academic staff in the two CHED departments – Educational Technology and Learning and Teaching – continue to focus on the achievement of the goals outlined in the 2004 Senate Approved Learning, Teaching and Assessment Strategy, through academic development aligned to the HEQC definition:

“Academic development encompasses four interlinked areas of work: student development (particularly foundational and skills-oriented provision), staff development, curriculum development and institutional development.” (HEQC, 2004).

Staff in CHED work in project teams to meet the academic development needs of the Faculties through focusing on developing learning, teaching and assessment practices.

Mandy Hlengwa was seconded to CHED until 2007 to co-ordinate the DoE-funded Foundation project. A team of eight CHED staff, with staff from the mainstream departments, teach core practices and design materials and learning experiences for the foundation programmes. In 2005, the first students were registered for foundation programmes: in the Faculty of Health Sciences, two separate programmes in Dental Technology and Somatology; in the Faculty of Arts, one programme across five departments; and in the Faculty of Commerce, one extended curriculum programme across five departments. Across all the foundation programmes the success rate of the learners ranged from a 62% to 94% pass rate in this, the first year of offering.

The access project is co-ordinated by Shoba Rathilal. Her team of five CHED staff were actively involved in reviewing the SATAP (South African Tertiary Access Project) tests for use at the end of 2005 and beginning of 2006. These tests have mainly been administered to learners for the foundation programmes.

The co-ordination of RPL processes by the newly appointed Dr Hendricks in CHED resulted in approximately 30 candidates from



Delysia Timm

across the Faculties being granted RPL status. The number of requests for such access to, and advanced standing in, DUT qualifications based on demonstrated competence gained through informal and non-formal learning and experience, is growing as academic departments engage in RPL processes.

Most new academic staff who joined DUT in 2005 attended an induction programme offered by Nalini Chitanand to familiarise staff with DUT academic processes and to provide tips and ideas for teaching. An Induction Policy for DUT was circulated for comment and will be finalised in 2006 for submission to Senate for approval. CHED has also contributed to the formulation of an Academic Promotions Policy and a Curriculum Policy at DUT.

Paulette Powell and six CHED staff in the Curriculum Development Project assisted staff through departmental workshops in all Faculties with developing qualifications to meet South African Qualifications Authority (SAQA) requirements. Learning programmes that are aligned to DUT need to be reviewed and registered with SAQA by June 2006.

CHED has been working with CQPA on the Community-Higher Education Service partnership (CHESP) pilot project to develop a quality framework for Service Learning (SL) at DUT. Delysia Timm facilitated SL capacity-building workshops with the Interior Design Department, members of which were involved in a pilot project with the Centre for the Rehabilitation of Wildlife (CROW). Further SL capacity-building workshops will be offered during 2006 to promote the SL teaching strategies for all Faculties.

The assessor training course, offered through a blended learning approach (online and face-to-face) by CHED at the Steve Biko, ML Sultan and Pietermaritzburg campuses, was attended by 140 academic staff who now need to submit portfolios of evidence to achieve their certificates. Assessor Training, a project co-ordinated by Gayne Reddy and facilitated by five CHED staff, is offered as a short course against one of the unit standards

of the Postgraduate Certificate in Higher Education at NQF level 7. It will continue to be offered on a monthly basis for 2006. Monthly sessions for portfolio development are also planned for 2006 to support academics.

CHED continued to provide staff development to academic staff by teaching and supervising members of the University's academic and support staff who were registered at UKZN for either MEd (Higher Education) or the PGDHE. Professor Joan Conolly has been co-ordinating this project, as well as supervising MTech (Education) and DTech (Education) postgraduate students of DUT.

The Space Cadets, Pioneers and Astronauts programmes continue to attract academic staff with a passion for using educational technologies, especially e-learning, in their classrooms. The Space Cadets programme is for staff to gain the necessary basic computer and pedagogical skills for e-learning and hence entry into the Pioneers programme. The Pioneers programme, offered annually and co-ordinated by Mari Pete, has academic staff from across the Faculties using WebCT, a Learning Management System, to design and develop online learning programmes for students. 2005 was the first time that the Astronauts programme was offered to DUT academic staff as part of the UKZN MEd (Higher Education) and is for advanced web-based learning practitioners. Charl Fregona has been actively involved in the national forum for the HEQC criteria for e-learning at the programme level.

National South African Academic Development Association Conference hosted by CHED

The highlight of the year was the National SAADA conference CHED hosted on behalf of DUT in December 2005. The conference was attended by 300 delegates from Africa and abroad. The conference was a triumph of teamwork, as CHED, Public Affairs, Audiovisual, ICT, Design Unit, Maintenance, Protection Services, Finance and Academic Departments, Clothing Technology, Graphic Design, Photography, Somatology, Languages

and Translation and Jewellery Design worked together in the Doing It Together Pilot project co-ordinated by Len Rosenberg. Delegates reported that SAADA 2005 was 'the best conference they had attended'. The late Dr Prem Naidoo of the HEQC and Prof Gina Wisker of Anglia-Ruskin University, Cambridge (internationally renowned for her work on supervision and teaching of postgraduate learners, particularly students studying in foreign countries) were keynote speakers.

The conference also marked the launch of the new Higher Education Learning and Teaching Association of South Africa, a professional association for higher educators wishing to share knowledge and experiences about the challenges facing Higher Education nationally and internationally.

Broadly speaking, research at CHED has focused on the use of educational technologies to develop online courses, learner-centred learning materials, and teaching and learning in terms of curriculum considerations including assessment, teaching methodology, programme design, RPL, Work-Integrated Learning (WIL), integrated project-based learning and the implementation of higher education policy.

CHED staff are recipients of funding from the National Research Foundation (NRF) in the Open Focus Areas of Indigenous Knowledge Systems and Education, and in the Thuthuka Development Programme. Apart from national paper presentations, including keynote addresses and plenary presenters and publications at international conferences, staff members also contribute to research in the field by being judges and adjudicators at conferences, and in supervising Masters and Doctoral theses, doing critical reading for PhDs, and reviewing international journals. Academics in the department are currently supervising or co-supervising a total of nine DTech, six MTech and four MEd students.

Delysia Timm

Acting Director: Centre for Higher Education Development

Centre for Quality Promotion & Assurance (CQPA)

The CQPA, on the 8th floor of Block D on the ML Sultan Campus is comprised of a Director, two Quality Assurance Managers, a Senior Administrative Officer and a Secretary. The role of the CQPA is to develop, implement and monitor systems, policies and processes with regard to quality promotion and assurance. The CQPA also monitors the extent to which the institution has aligned its quality assurance systems with national imperatives, i.e. fitness of purpose as defined by the Higher Education Quality Committee (HEQC).

The CQPA implemented DUT's five-year cycle for the review of academic programmes and reviewed the following programmes: BEd. Education, Chiropractic, Translation and Interpreting Practice, Language Practice, MTech Education, Governmental Studies, Office Management & Technology, Public Relations and Sport Management. In addition, six programmes in Engineering underwent an accreditation visit from the Engineering Council of South Africa (ECSA). The CQPA will conduct follow-up visits to these departments to assess the progress made with the implementation of improvement plans. The internal and external reports were tabled at the relevant QA committee meetings and the institution must address those issues related to infrastructure and resource provision. The CQPA also conducted an audit of the assessment-certification value chain and the report, including recommendations, was submitted to Executive Management. The CQPA prepared an annual report that was submitted to the Quality Assurance Committee (QAC) on issues that have emerged through a range of quality assurance processes. These issues will also be tracked to identify emerging trends.

Building capacity for quality assurance has been a key thrust in the CQPA's activities for the year. In this regard, materials have been developed for training internal staff to serve on evaluation panels. The development of these materials was facilitated by financial support from TELP. Other capacity-building initiatives include workshops for departments prior to their programme being reviewed and workshops to facilitate the development of quality management systems. The latter were conducted at the request of, for example, the Finance Department. Two TELP-funded workshops were held, one on developing a tracking system for quality at DUT and the other on facilitating the development of improvement plans in Engineering programmes prior to the ECSA accreditation visit. The workshop on tracking quality was conducted for senior and executive managers and this is recognised as an area that needs further development and resourcing. The CQPA made a presentation on quality assurance at DUT's induction programme for new staff and also made a presentation on quality management to students



Mrs Bella Sattar

registered for the Postgraduate Diploma in Higher Education.

DUT is to be audited by the HEQC in 2007 and the CQPA, in preparation, mapped out processes that require participation from a broad range of stakeholders in the institution. The plan was presented to, and supported by, Council and Executive Management. A steering committee has been established which is chaired by the DVC: Academic and workshops were conducted to facilitate the work of the various task teams. Staff from the CQPA visited institutions that had already been audited in order to identify good practices with regard to planning and preparation for the audit. The lessons learnt have been written up as a paper that is to be published in the CQPA newsletter.

The work of the CQPA is extremely demanding and there is a need for additional staff. While an additional QA Manager's post has been approved, this is yet to be effected.

One of the QA managers had responsibility for co-ordinating the TELP II project at DUT, which comprised one 'long' and one 'short' project. The primary focus of both projects was that of quality management. The 'long' project focused on the development of Quality Management Systems (QMS) in the following departments/sectors:

- ▶ Finance
- ▶ Management Information
- ▶ Library
- ▶ ICT.

The 'short' project focused on managing the quality of multi-campus provision. The CQPA was actively involved in both projects and supported participants by conducting capacity-building workshops with regard to quality management.

The CQPA, together with CHED, was instrumental in highlighting the need for DUT to engage with service-learning in academic programmes. This was done through a project with CHESP/JET for the purpose of developing

a QA framework for Service Learning (SL) and implementing this framework in a pilot programme, viz. Interior Design. This project has highlighted the challenges for DUT with regard to SL implementation and giving effect to the mission of DUT as well as the goals of the White Paper. The project will be reported in a special publication.

DUT is still developing many of its policies and thus established a number of policy development task teams. The CQPA participated in the following task teams: Workload Policy; Assessment Policy; Policy Audit; Learning Programme Development Policy and Co-operative Education Policy task teams respectively.

The HEQC (together with the now disbanded CTP) initiated a national project on the quality management of the design and development of learning programmes that incorporate work-integrated learning. In KwaZulu-Natal, the project was managed by the CQPA but was a collaborative project with Mangosuthu Technikon. Participants from both institutions included representatives from the Biomedical Technology Programme, Quality Assurance and Curriculum Development. The public and private laboratory services in the province also took part, as did representatives from professional bodies. The project will be completed only in 2006 and the outcome will be the development of a good practice guide for the quality management of WIL (Work Integrated Learning) as well as key lessons for the quality management of the development of innovative learning programmes. The CQPA is also participating in the HEQC merger project, which is an externally funded project through which a diagnostic analysis of DUT will be conducted as the first phase of the project.

One of the QA Managers served on the National Working Group for the development of level descriptors and the Director was appointed to the Audit Committee of the HEQC. The Director has previously served as a member of the Board of the HEQC.

Staff from the CQPA were invited to facilitate a workshop for Walter Sisulu University, the purpose of which was to reconceptualise the experiential learning practices of the new institution in light of different practices, i.e. work-integrated learning and service-learning, at the previous institutions. The outcome of the workshop was agreement on developing a unit that had responsibility for the full range of experiential learning practices and thus incorporated and strengthened the different forms of experiential learning.

The Director and Managers participated in and attended a number of national workshops and seminars to keep abreast of developments and to network with colleagues in other institutions. One staff member was a member of the writing team for the CHESP/JET service-learning capacity-building manual that is to be published as a reference book. Two staff conducted research on the DUT merger and have written a case study to be published in a book, and one article on the student satisfaction survey is in progress. Five conference papers were presented, two papers were presented at regional workshops and one co-authored paper on multi-campus provision was submitted for publication.

Mrs Bella Sattar

Director: Centre for Quality Promotion and Assurance



Library Overview

For the Library, 2005 can be best described as the year of the Unicorn. The migration to the new library system permeated almost every aspect of the library's work and staff have had to adjust accordingly. The level and intensity of effort, input, planning and testing required on the part of staff could not have been anticipated, to the extent that it overshadowed all other activities during the course of the year.

Vision and Mission

Various members of staff contributed to the institutional process of drafting the Vision and the Mission of DUT. In turn, in November, a workshop was conducted to revisit the Library's Vision and Mission in light of the new DUT strategic goals and framework. This process will continue in 2006.

Library collection and usage

The total book and audio visual budget for 2005 was R2,125,000.00. If this is divided by the number of student FTEs for 2005, the calculation shows that R124.02 was available per student FTE for these library materials. The headcount figure, which is more accurate in terms of usage, shows that potential expenditure would be only R98 per head. If one considers that the average cost of an item in 2005 was R530, this points to a wholly inadequate budget. With a headcount of 21 682 students for 2005, and a total count of 172 071 volumes, the average number of volumes available per student is 7.93. The international norm is 16 books per student, so DUT does not measure well in this regard.

A project to determine the currency of DUT books and media was carried out during the course of the year. The analysis indicated that 26% of the total stock was dated pre-1980. After conducting a more detailed investigation it was clear that results varied according to subject disciplines: stock in the Faculty of Arts was the most outdated, with only 23% of the material published after 1995. Of the engineering and science material, 27% fell within that category; and 31% post-1995 for the health-related disciplines. The commerce stock was the most current, with 37% published later than 1995. The subject librarians will now use the data to concentrate on the subject areas most in need of updating and purchase items to replenish the stock, as well as discarding outdated items if necessary.

Various deliberations attempted to provide lasting solutions for the management of e-collections and to ensure a comprehensive and representative portfolio of electronic resources. This is known as Project e-collection and good progress has been made in terms of holistically reviewing databases to which DUT library subscribes, as well as ensuring adequate African content and relevance where possible.



Mr Roy Raju

Staff development

While there was no specific budget allocated for staff development and training, it is evident that attempts were made to ensure that Library staff were able to attend workshops, seminars and conferences where possible. A number of staff members were able to attend skills development interventions organised through the Human Resources Department's training section.

Two activities were organised which included all Library staff – a workshop on customer care, hosted with funds from the Library's involvement with the TELP II project; and the second a fun event to release tension and relieve stress. A steel drum session was welcomed by staff after several intensive training sessions on Unicorn and the general mid-year malaise. It was good fun and hopefully dissolved some of the stress experienced by staff.

Celebrations

The B M Patel Library celebrations kicked off at the end of 2004 with an open lecture, an unveiling of the plaque and a luncheon. The celebrations spilled over to 2005 when two major activities coincided in April, viz. the book fair, and book launches. The book fair, with more than 15 exhibitors displaying their wares for three days, was the first of its kind for DUT. The following books were launched:

- *Timol – A Quest for Justice* by Mr Imtiaz Cajee (pre-launch)
- *The Lotus People* by Azziz Hassim
- *Communicating with African Patients* by Dr Chris Ellis

Marketing and branding the library

As part of the thrust of branding the DUT Library, new library promotional material has been produced.

The new DUT library logo is



Regional collaboration: eastern seaboard Association of Libraries

DUT Library staff played a prominent role in the planning, testing and implementation of the new library system, which is a regional co-operative venture between DUT, Mangosuthu Technikon and the University of Zululand libraries. While a core group of staff was at the forefront of the implementation, other colleagues played an invaluable and essential role in supporting and continuing normal business. Funding for the system came through a grant from the Andrew Mellon Foundation and support for the purchase of computers from the Anglo American Chairman's Fund.

Professional involvement

The DUT Library has been a key player in the KwaZulu-Natal branch of LIASA for the past two years. A number of staff members serve on the Executive of the KZN branch or the Interest group committees.

Staff are also involved in CHELSA (Committee of Higher Education Librarians of South Africa) at an executive level, COSALC (Coalition of South African Library Consortia) at a board level, in the Sabinet Online Standards Committee (SOSC) and as a reviewer of the NLSA's teleMARC course on non-book materials.



Conclusion

The year under review was, by and large, a period of consolidation during the post-merger period. The merger precipitated significant organisational changes with a new structure, shifts in lines of responsibility and new relationships between the Library and the Faculties.

Initially the adjustment to these changes posed challenges. Acceptance of the changes is beginning to manifest in the first signs of a new organisational culture, new allegiances and a sense of belonging to the new entity.

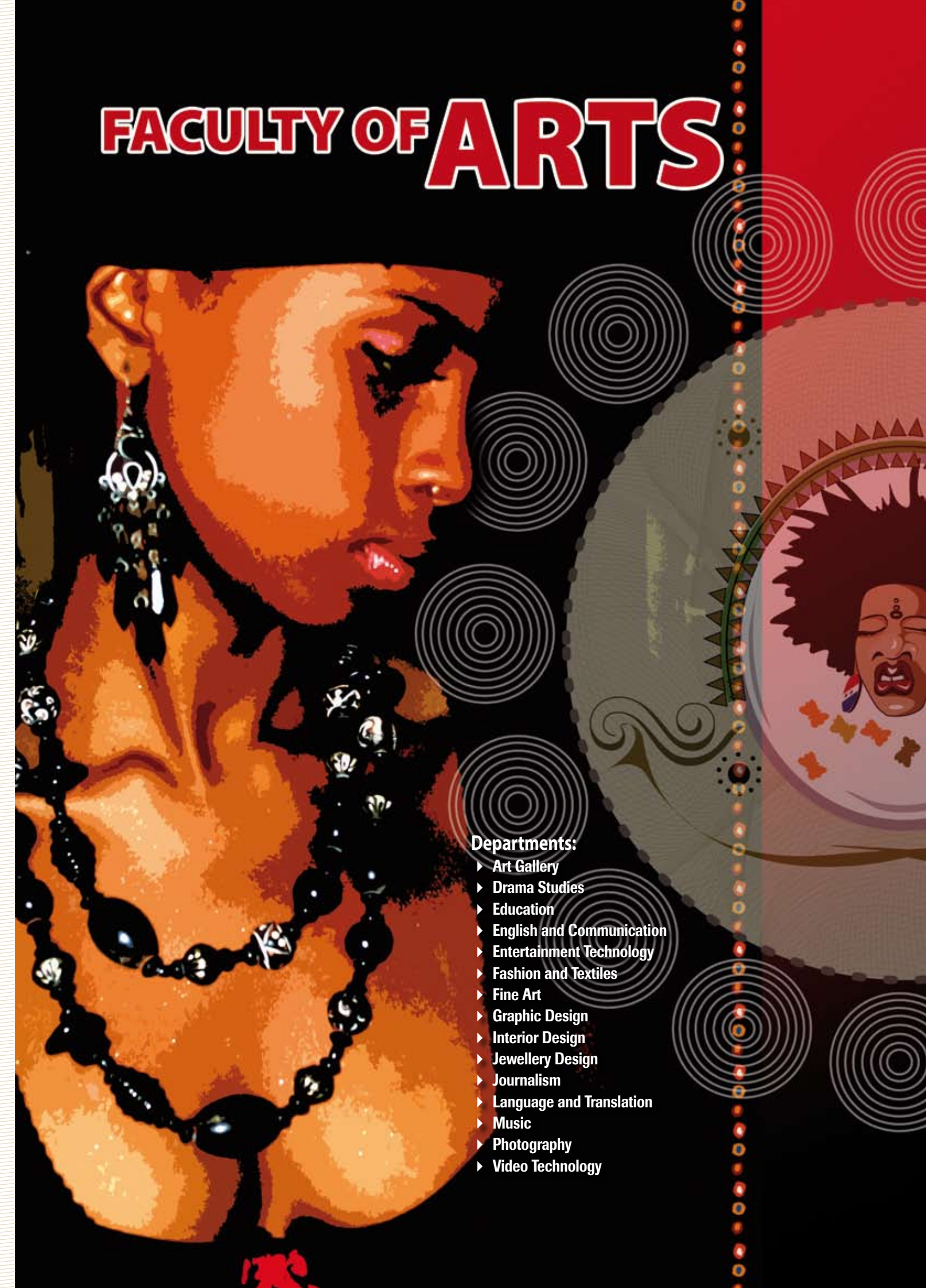
With the challenges of the merger and system migration behind us, we can once again concentrate on the more familiar problems of being responsive to the needs of students and researchers; and the intellectual challenges of the 21st century.

Mr Roy Raju

Director: Library Services



Faculty Reports



As the effects and the general impact of the merger are becoming less significant, the Faculty of Arts has steadily stabilised. This was evidenced by a fuller consolidation of the academic programmes and the manifest enthusiasm displayed by members of staff.

However, the uncertainty regarding the national qualifications framework somewhat retards the zeal to reconfigure the current curriculum. The transformation from a technikon to a University of Technology has further aroused curiosity regarding the implications of such a move. The lack of a nationally well-defined concept of a 'university of technology' poses serious challenges to the Faculty. Despite temporary set-backs, the Faculty of Arts thrived in its quest to be a force to be reckoned with as both a component within the Durban University of Technology and on the wider terrain of South African Higher Education. This report seeks to present aggregated highlights of the Faculty of Arts during the 2005 academic year.

The Faculty of Arts has for the first time, a Vision and a Mission. These were crafted to dovetail with the University's Vision and Mission statements.

Vision

A Faculty that strives to nurture a holistic approach towards education and a critical understanding of society and the world by balancing the intellectual, creative and artistic aspirations with the pragmatic requirements of contemporary professional disciplines.

Mission

- ▶ To empower the Faculty through quality, career-focused teaching in applied and relevant research.
- ▶ To build capacity in a transforming society within a dynamic African and global context.
- ▶ To promote sustainable partnerships with industry, community and society.
- ▶ To encourage entrepreneurial and vocational development through an innovative approach to analytical, creative thinking and artistic expression.
- ▶ To instil in the learner initiative, sensitivity, responsibility and a values-driven ethos.

Strategic Plan

With the adoption of the new Vision and Mission, the Faculty proceeded to draft a strategic plan.

The Strategic Plan has seven key performance areas (KPA's):

- ▶ Throughput rates
- ▶ Teaching and learning
- ▶ Research
- ▶ Quality assurance
- ▶ Staff and student satisfaction



Dr Kenneth Netshiombo

- ▶ Student Support
- ▶ Academic Staff Development

In order to make the Strategic Plan work, the Faculty had to link the plan to resource allocation. Accordingly the plan was costed and the concomitant funds were made available through the Teaching Development Grant. The Faculty has established a special commission to roll out the plan.

Equity Plan

The inequities of the past remain obvious in the Faculty. The current racial and gender imbalances have to be addressed and redressed. The Faculty adopted an equity plan as a tool to tackle the inequities. The Equity Plan is based on four key performance areas, namely:

- ▶ Equity junior lecturer appointments
- ▶ Mentorship programme
- ▶ Staff academic development programme
- ▶ Monitoring and evaluation.

The Faculty established an Equity Commission to drive the process of redressing the past imbalances.

Quality Improvement Plan

As a response to the Higher Education Quality Committee, under the auspices of the Council of Higher Education as well as the Quality Assurance Policy of the Durban University of Technology, the Faculty of Arts had to design a framework that would respond to these imperatives. The Quality Improvement Plan was also adopted by the Faculty Board and is structured according to seven key performance areas, namely:

- ▶ Quality management
- ▶ Faculty Vision and Mission
- ▶ Programme design and co-ordination
- ▶ Student access to programmes
- ▶ Staff development
- ▶ Assessment
- ▶ Student support



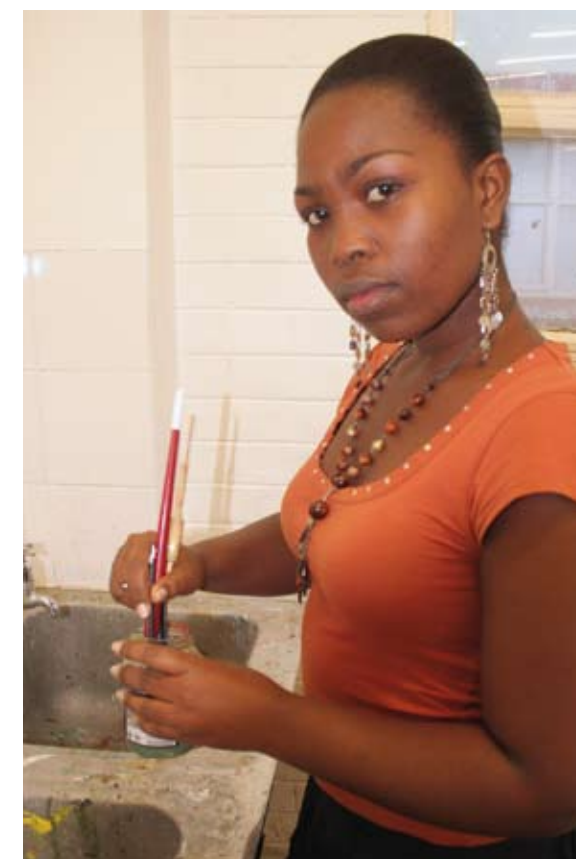
A commission on the Quality Improvement Plan has also been stabilized and its activities are to be funded from the Teaching Development Grant.

Research Development Plan

Whilst the research output of the Faculty has steadily improved, the status quo remains unsatisfactory. The lack of senior academics in certain departments accounts in large part for the low research output. To address this shortcoming a professor in one of the departments has been seconded to the Office of the Dean to act as Faculty research coordinator. The mandate of the coordinator is to roll-out the Research Development Plan under the direction of a special Commission. The activities of the research coordinator and Commission are funded through the Research Development Grant.

Programme Review and Evaluation

In 2005 three academic programmes were reviewed and evaluated. These reviews were based on internal self evaluations that were conducted under the auspices of the Centre for Quality Promotion & Assurance (CQPA). The departments whose programmes were reviewed were Drama Studies, Language & Translation and Education. The MTech in Education was to be evaluated as part of the MEd national review by the HEQC. The Faculty, however, withdrew from the national review and decided instead, to phase out the MTech programme, with the intention of applying for MEd accreditation later.





In the reviews conducted, some good practices were identified while certain gaps were highlighted. The departments that were reviewed will advise and coach all other programmes awaiting a similar process.

Community Engagement

The Faculty continued to run a Saturday School for local Grade 11 & 12 learners. This is an on-going activity that is co-ordinated by dedicated staff members within the Faculty with no additional remuneration for their efforts.

The Siyazama Project, which works with local artists and crafters, has been continuing as well.

Faculty Highlights

Department of Drama Studies

In 2005 the Department mounted eight departmental productions and 36 third-year directing projects, including a production staged at the Grahamstown National Arts Festival, which is the second biggest Arts Festival in the world. A group of second-year dance specialists choreographed and performed work and they were invited to the 2005 Jomba! Dance Festival in Durban. This group has since been invited to participate at Dance Umbrella in Johannesburg.

Department of English and Communication

A female staff member in the Department of English and Communication obtained a PhD. Three staff members presented papers at international conferences. The *French Presence in KwaZulu-Natal* programme, based in Pietermaritzburg, continued to receive accolades.

Department of Education

The department was honored by the appointment of a Visiting Professor for 18 months to assist in the preparation for the national MEd and BEd review.

Department of Entertainment Technology

The Department of Entertainment Technology has worked with the Manyakabana Women's Development Trust in the design and construction of a model house for their Komalume Orphans' Project.

Department of Fashion and Textiles

Students from the Department of Fashion and Textiles were involved in a Celebration of Arts Deco and Fashion Show, which was held at the Parade Hotel.

Department of Fine Art

A senior lecturer and lecturer in the Department of Fine Art were selected to participate in an International Arts Biennale in Belgium and the International Humanist Exhibition, respectively.

Department of Graphic Design

The Siyazama Project exhibited at the Michigan State University Museum in the USA for six months. A special collection for this prestigious exhibition had been commissioned on behalf of the Museum.

Department of Interior Design

The Department of Interior Design won the prize for Best Stand in the Faculty of Arts at the Institutional Careers Fair. Its staff members assisted in the designing and revamping of the DUT Council Chambers as well as in the appointment of an interior design firm to revamp the Playhouse Theatre foyers. The department also took part in an important Service Learning Pilot Project, assisted by CHED and the CPQA.

Department of Jewellery Design and Manufacture

Staff members in the Jewellery Department had their work accepted for the Design Indaba Expo 2006.

Department of Journalism

The Department of Journalism was integrally involved in two forums promoting media freedom. A workshop titled "Challenges Facing Journalism", with respected journalist Khaba Mkhize, took place on World Press Freedom Day (May 3). On South African Media Freedom Day, October 19, the department, together with the South African Broadcasting Corporation (SABC) and South African National Editors' Forum (Sanef), hosted a seminar titled "Researching, Reflecting and Reporting".

Department of Language and Translation

The Department of Language and Translation co-hosted "The Translate-athon", a workshop towards translating computer language and terms into IsiZulu.

Department of Photography

First-year photography students and two schools from Cato Manor were involved in documenting the Durban beachfront and the living environment in Cato Manor.

For the first time, the department was afforded an opportunity to participate



in photographing diplomats and graduands at the University graduation ceremony.

Department of Video Technology

The Department of Video Technology had its studios and facilities refurbished with the result that they have the finest television studios in Durban, and the best training facilities in South Africa. The Head of Department was conferred as MTech (*cum laude*) from the Tshwane University of Technology.

The Gallery

The Gallery targeted full networking opportunities through various media formats, such as participation in art-related conferences and seminars, advertising in art magazines and subscribing to other art magazines and newspapers.

Papers presented

The following members of staff read papers at international conferences:

- Ms Kate Wells - Graphic Design
- Mr Piers Carey - Graphic Design
- Miss Kay Smart - Graphic Design
- Mr Keith Pellew - Interior Design
- Ms Carol de Kock - English and Communication
- Ms Sheela Narsee - English and Communication
- Mr Graham Stewart - English and Communication
- Ms Lolie Makhubu - Language and Translation

Students' Honours

Top honours went to Hylton Revell, John Bruce and Silondile Jali at the Annual Think Ahead Awards in the Department of Graphic Design.

The Department of Jewellery Design had five student finalists in the Anglo Gold Ashanti's Riches of Africa Competition. They were Christy-Anne Bestwick, Vuyani Phakathi, Kelly Meyers, Sofia da Silva Compos and Lisa Hansen. Perusha Naidoo was a finalist in the Jewellery Competition.

Students in the Department of Fashion & Textiles received wide acclaim. Kate Brunyee won the Foschini Annual Design Award and Zimasa Mnyaka won the "Best Range on Show" at the Durban Designer Collection (DDC), in addition to the prestigious Emma Smith Scholarship Award.

The Decorex/Sanlam Young Designers Ahead Competition was won by two students from the Department of Interior Design, Rob Crankshaw and Lyle Drummer. The Department also had four student finalists in the Mr Price/House and Leisure Young Designer Competition, namely Rachel Andrews, Tarika Reddy, Alicja Florys and Tarryn Cole.

Dr Kenneth Netshiombo

Executive Dean of the Faculty of Arts

FACULTY OF COMMERCE

Departments

- ▶ Applied Law
- ▶ Auditing
- ▶ Business Studies
- ▶ Catering Studies
- ▶ Economics
- ▶ Entrepreneurial Studies
- ▶ Environmental and Recreation Technology
- ▶ Financial Accounting
- ▶ Food Marketing and Management
- ▶ Governmental Studies
- ▶ Hospitality Management
- ▶ Human Resources Management
- ▶ Information Technology
- ▶ Library and Information Technology
- ▶ Management Accounting
- ▶ Management
- ▶ Marketing
- ▶ Office Management and Technology
- ▶ Operations and Quality Management
- ▶ Public Relations
- ▶ Sport Management
- ▶ Statistics
- ▶ Taxation
- ▶ Tourism



Professor Malcolm Wallis

Commerce is the largest of the four Faculties at the University with programmes offered on the Ritson and ML Sultan campuses in Durban and on the Riverside campus in Pietermaritzburg, and caters for more than 11 000 students. The Faculty has 21 departments and offers certificates, diplomas, BTech, MTech and DTech degrees in various career-orientated qualifications. The two professional qualifications offered by the Chartered Institute of Secretaries and by the Institute of Marketing Management, respectively, are managed by the Faculty, as well as the BTech in Management for adult learners, which is offered by the Business Studies Unit.

Staffing remains a serious concern for the Faculty as the number of part-time lecturers remains at a high level of 49 while permanent/contract staff numbers remained almost constant at 216. The challenge is to convert part-time posts to permanent/contract positions in order to address the concerns of students who need to engage with lecturers outside of their formal lecture periods.

Physical resources, lecture venues and computer labs in particular, are yet other challenges. Demand for space and equipment keeps growing as capital expenditure lags behind, and to maintain our vision as Africa's leading provider of commerce higher education, this crucial area of infrastructural development needs revision.

Update on Restructuring

Although the restructuring of the Faculty into five schools, viz., Accounting, Consumer Studies, Tourism, Hospitality and Sport Management, Information Technology and Management, has not been formally approved by Council, some departments have merged and one has moved to the Faculty of Engineering, Science and the Built Environment, effectively reducing the size of the Faculty by three departments.

To enhance academic operations on the Riverside campus, three Cluster Heads have been appointed and are full members of the Faculty Board. These Cluster Heads are solely responsible for operational matters and report to departmental HoDs on academic issues. This structure has improved the operational efficiency of the Faculty and has reduced tensions between Durban and Pietermaritzburg sectors.

A clear mandate to merge smaller, non-viable departments is awaited from Executive Management, in line with academic excellence and institutional sustainability imperatives. This affects all Faculties within the University.

Academic Support and Staff Development

Many staff members have attended courses run by the Centre for Higher Education Development (CHED). The assessor training programme, run by CHED, is most popular and continues to attract staff. The Skills Development and Training sector of Human Resources offers a variety of workshops and programmes for staff development using skills levy funds. However this has not performed meaningfully in addressing the training needs of academics in pursuit of professional development and low student pass rates.

Academic support for students is vital in improving graduation and pass rates, a concern expressed by the Department of Education, and to this end CHED needs to play a greater role by engaging affected departments sooner rather than later. Since the new funding formula compensates programmes on enrolments and graduation headcounts, increasing student throughput is one of the many challenges facing the Faculty going forward. Heads of departments were advised to give serious attention to this, especially with regard to student selection, tutorial support, learning and teaching materials, mentorship and coaching and re-curriculation.

Departmental Highlights

The academic departments continue to strive to achieve the very best for students in spite of the numerous challenges.

Auditing

Miss Saleena Sookai passed her National Diploma *cum laude* having obtained distinctions in each subject, a feat very few students achieve. She is currently enrolled for a BTech in Internal Auditing.

Economics

A conference paper, titled *Does attending a historically white university benefit non-white students in introductory Economics in South Africa* was presented in Bergen, Norway, by Dr Kudayja Parker.

Economics has always been a challenge for South African students and to improve their understanding of the subject, the department has prepared a workbook on the discipline.

Financial Accounting

The department has extremely good relations with professional bodies including the KZN Society of Chartered Accountants, Institute of Certified Public Accountants, Public Accountants and Auditors Board and the Association of Black Accountants of South Africa.

The head, Mr Saleem Kharwa, is the current president of ICPA and was interviewed by SABC3 television and Safm in 2005 and also attended an



international conference in Australia.

Mr Cassim Seedat is the co-author of a new book on financial accounting to be published later this year, while Mr Siphon Dlomo completed his MBA.

Hospitality Management Sciences

Formally consisting of three departments, Hospitality Management, Food Marketing and Management and Catering Studies, successful re-circulation has seen the introduction of a new programme, "Hospitality Management", and formed one department. Additional buildings to give effect to this internal merger are planned for completion early next year, at a cost in excess of R14 million. The department continues to be involved in one of Durban's popular fairs, the annual "Tourism Indaba", by offering on-site catering and restaurant facilities for exhibitors and the public. They are also involved in the Comrades Marathon and the Royal Agricultural Show.

Human Resources Management

Professor Dinesh Jinabhai has been appointed research co-ordinator for the Faculty to facilitate research with a view of improving research output. Mrs ME Lourens is currently studying for a DTech in Human Resources at DUT. Re-circulation of the programme in Human Resources Management has been completed and is pending registration with SAQA.

Library and Information Studies

This is one of the smaller departments in the Faculty with a very active research

culture. Dr Naresh Sentoo is a member of SGB for Information and Library Studies, the KZN Branch of the Library and Information Association of South Africa. He also prepared a paper for publication in Public Administration and is researching library services for the disabled.

Dr Jaya Raju was appointed Associate Professor in June 2005. She serves on the Editorial Board of the SA Journal of Libraries and Information Science and on the Commerce Research Committee. Professor Raju has co-authored a book, titled *Descriptive and subject cataloguing: a workbook* and was awarded a National Research Foundation (NRF) grant for a four-year study in library information services. Mrs Maned Mhlongo is currently registered for a PhD at UKZN.

Management

The department continues to attract a large number of students to its programmes, from Diplomas through to Master's level.

Mrs C Womack was admitted as a conveyancer and notary public. Mr Sidney Chetty has registered for a DComm at UKZN. Dr Marie de Beer is involved in entrepreneurial development in the rural community, thanks to NRF funds, and has developed a certificate course in Fundamental Financial Management for rural entrepreneurs.

Marketing

With three staff members having PhDs, the department is able to supervise a relatively large number of MTech (Marketing) students. Currently 12 students are being supervised at this level.



Dr Roger Mason is a co-investigator on marine ecosystems and biodiversity as a NRF niche area. At its annual awards evening, six bursaries were awarded to students of the department.

Operation and Quality Management

Industry participation and involvement is a high point. An active intake of part-time students who are in employment is a key objective of the department. Two students passed *cum laude* in BTech Production Management. Ms S Singh and Mr R Naidoo presented papers at the Faculty Research Day. Ms Singh won the best presentation award in the Commerce category.

Public Relations

Students play an active role in public relations at conferences, including the Second South African AIDS Conference and UNESCO World Heritage Conference. The department's annual awards function hosted by the Advisory Board is a sought-after event where students' work and academic performance are showcased.

Taxation

The large intake of taxation students is indicative of the importance of tax at both national and international level. Many students across Africa are registered for qualifications in tax. Innovative assessment methods like peer review and Moot Courts have won favour with students.

Professor Malcolm Wallis

Executive Dean of the Faculty of Commerce



FACULTY OF ENGINEERING, SCIENCE AND THE BUILT ENVIRONMENT

Departments

- ▶ Architectural Technology
- ▶ Biotechnology
- ▶ Chemistry
- ▶ Chemical Engineering
- ▶ Civil Engineering and Surveying
- ▶ Construction Management and Quantity Surveying
- ▶ Clothing Technology
- ▶ Electronic Engineering
- ▶ Electrical Power Engineering
- ▶ Food Technology
- ▶ Industrial Engineering
- ▶ Maritime Studies
- ▶ Mathematics
- ▶ Mechanical Engineering
- ▶ Physics
- ▶ Pulp and Paper Technology
- ▶ Textile Technology
- ▶ Town and Regional Planning



Professor Suren Singh

For the most part of the year under review, many members of the Faculty occupied themselves with the question of why Engineering, Science and the Built Environment remains the Faculty with the highest research output rate and the lowest cohort throughput rate. Many of these deliberations have resulted in numerous reports being tabled. A number of these have formed the basis of proposals for support through the Research Development and the Teaching Development Grant. It is hoped that these will bear fruit in the years to come.

A significant portion of time was devoted to the curriculum exercise. While a few departments have not exploited this opportunity optimally to facilitate paradigm shifts, it has been the norm that departments have used this as an opportunity to reflect on whether or not their programme design, teaching and learning methodologies and assessment practices were relevant and/or appropriate. The assistance of members of the Centre for Higher Education Development (CHED) is gratefully acknowledged.

Under the auspices of the Centre for Quality Promotion and Assurance, seven departments participated in an internal programme evaluation. Several recommendations emerged from this process, some of which were addressed in time for the accreditation visit by the Engineering Council of South Africa (ECSA). All Engineering departments save one were granted accreditation until 2010. The concerns raised in the ECSA report for the one department that was granted accreditation for one year have been addressed, and that department will be revisited in October 2006. Numerous concerns raised by both the internal review process and the ECSA accreditation visit are being addressed through the normal quality management cycle.

Heads of Departments and their staff continue to strive for excellence in the face of limited resources, outdated workloads and an uncertain Higher Education landscape. Some of the evidence and outcomes of their quest are indicated in the Departmental Reports below.

Department of Architectural Technology

Mr Bush, the HoD for the past seven years, retired in April and Mrs Major resigned in July. There were no subsequent appointments in the

wake of their departure. Mr Rosenberg remains on secondment to the Department of Campus Planning. Ms Whelan returned from study leave abroad. She is registered for a doctorate at the London University School of Oriental and African Studies (SOAS). Mr Luckan is continuing with his fourth year of study towards a MArch at the University of KwaZulu-Natal. Mr Hemraj is continuing his final year studies towards a BArch (Advanced) at the same university.

There was overwhelming interest through the CAO for the 2005 academic intake, with more than 800 applicants. This bodes well if the selection procedure delivers 100 dedicated and able first-year candidates. In 2004, BTech students studying part-time found that the pressures of the buoyant building industry were overly demanding. Few achieved satisfactory progress, attributing office workloads to their non-attendance. For this reason the department has discouraged part-time applicants from registering in 2005.

The expected graduates at the diploma exit level have increased to approximately 45, up from 30 in 2003. This is the first cohort coming through from the merger of 2002.

With the lack of replacement staff and improvement in throughput, the financial situation of the department from a viability perspective looks set to strengthen further.

Ms Whelan presented a paper on her work in Msinga and aspects of traditional architecture in Dubai during December 2004. She continues to work on the Georgetown research and renovation project based outside Pietermaritzburg. The project forms the basis of her thesis and should lead to further publications.

Mr Da Costa travelled to moderate the BTech programme at Cape Technikon and the second-year architecture design course at the University of KwaZulu-Natal. A staff delegation attended a workshop of technikon architecture schools in assessing proposed changes to their common curriculum. Divergent directions have developed between the schools in response to the newly introduced categories of registration with the South African Council for the Architectural Profession.

The annual SA Architectural Student Congress was hosted by the UKZN Department of Architecture. Papers were presented by leading local and international architects and offered an inspiring dose of current knowledge to participants.

Community, industry linkages through the Business Unit, Ark@Tek Studio

The company, Ark@Tek Studio, has a number of projects under way in association with eThekweni Municipality.

The Tara Road housing project, which is in its second year of planning, was awarded Presidential Project status. The project has been stalled due to differences between the City's plans and those of a delegation of Bluff residents.

Other projects include:

- ▶ The Ezimbokodweni Multi-purpose Centre
- ▶ Isipingo Town Centre revitalisation project, in association with the Department of Town Planning Business Unit
- ▶ Continuing internal alterations and refurbishments to the DUT building fabric
- ▶ A mosque in Pakistano
- ▶ A school for the Satha Sai movement in Durban.

Department of Biotechnology

The department strives to offer training for Biotechnology nationally. To this end it has continued to compete and gain recognition as offering leading practitioners in teaching and research. Its success is shown in the quality of its research programmes, its high pass rates and the quality of its graduates. This success is largely due to staff commitment, which is reflected in the excellent feedback received from industry and other institutions. The department strives to ensure that all students and staff have fulfilling careers, through an enabling environment in which all members can develop to their fullest potential. The department sees its people as its most valuable resource. Their knowledge, skills and continuing hard work will ensure that the department will meet and exceed current and future targets.

Biotechnology has rapidly expanded with regards to research activities, collaborators and infrastructure and proudly lays claim to being one of the leading departments in teaching and research. The ongoing research projects in the department focus on water technology, plant biotechnology, enzyme technology and molecular biology. The department continues to strive for producing quality in teaching and research. Its endeavours are reflected in its research programmes.

The area of enzyme technology is headed by Professor S Singh and Dr K Permaul. This group is investigating the production and application of thermostable enzymes. This research involves the application of biotechnological processes in the production and modification of enzymes important in the food, detergent, textile, and pulp and paper industries. This research is important in establishing biological alternatives to the chemical industry, which is heavily reliant on fossil fuels and toxic chemicals that are an environmental threat.

The area of plant biotechnology exploits undeveloped and poorly researched plants for their economic and health potential. The focus is on exploiting local indigenous plants for their commercialisation value, their potential for bioremediation, and for phytochemicals with novel biological properties. These can be used as anti-bacterial, anti-fungal, anti-oxidative and immuno-modulating agents to supplement current chemo-protective compounds against AIDS and related infections.

Other research areas include the development of new commodities, e.g. beverages, beers, wine and jams from exotic plants.

The inter-disciplinary research team is drawn from the

departments of Biotechnology, Food Technology and Medical Technology. It is headed by Professor Bharti Odhav and team members include Dr Reddy, Professor Bajinath, Mr Mohanlal, Ms Juglal, Dr Sankar, six MTech students and several BTech students.

Research on the development of suitable technology for the remediation of domestic and industrial waste streams and provision of potable quality water to the community is headed by Professor Bux. Research projects currently undertaken include bioremediation of heavy metal waste waters using biosorption technology, microbial population dynamics in waste water treatment, activated sludge bulking, biological nutrient removal, biological treatment of industrial effluents, production of valuable bi-products from effluent waste streams, monitoring of specific endocrine disrupting chemicals in the environment due to industrial discharges and the development of a low-cost water treatment process for use in rural areas.

These projects are selected and executed in close consultation with industrial partners and the community. The research team comprises two researchers, namely Professor Bux and Mr Swalaha, a research assistant, Mr Degenaar, five full-time Doctoral and five Masters' students, and a large number of BTech and Diploma students. The activity area is currently recognised as a research niche area by the National Research Foundation (NRF) within the IRDP programme.

The current Biotechnology curriculum was thoroughly scrutinised at several meetings with all staff from the department and service departments. This was then presented, with all the tertiary institutions in the KwaZulu-Natal region and local industries through the Work Integrated Learning (WIL) programme. Numerous questionnaires were directed to industry for feedback with regard to the present curriculum review process. The Biotechnology Advisory Board held a special meeting where the current offering and the SAQA submission were discussed.

In 2005, the department had 60 students registered for the National Diploma, 41 students for the BTech programme, 18 students for the MTech programme and 13 students for the DTech programme.

Forty-one students graduated with the National Diploma in Biotechnology and 21 students with BTech in Biotechnology. We are also very proud of our post-doctoral programme, where we conferred 11 Masters' qualifications. Our first Doctoral graduate was Dr L Reddy.

During 2005 the department hosted a Biotechnology delegation from the United States and an international expert on waste water. A guest lecture was delivered by Dr Sagadevan G Mundree, CEO of PlantBio, on *Biotechnology: a Frontier for Research and Innovation*.

The department hosted the 18th Annual South African Society of Microbiology Symposium where papers were read by Honours and BTech students from the Department of Food Technology, Durban University of Technology; Department of Microbiology and Biochemistry, University of Zululand; Department of Microbiology, UKZN Pietermaritzburg Campus; Discipline of Microbiology, UKZN Westville Campus; South



African Sugarcane Research Institute; Department of Agriculture, UKZN Pietermaritzburg Campus; Biotechnology Department, Durban University of Technology; Department of Biochemistry and Microbiology, UKZN; University of Zululand, and Allerton Provincial Veterinary Laboratory.

The department has established a vibrant postgraduate research activity that constitutes 12 DTech and 17 Masters' students and two post-Doctoral Fellows. The research programme in the department is supported primarily from funding obtained from NRF, South Africa-Netherlands Partnership for Alternatives in Development (SANPAD) and Water Research Commission (WRC). The department's publication record is as follows:

Books/Chapters in Books:

HOLDER, F., ISMAIL, A., MUDALY, D.D. and BUX, F. 2005. Determination of heterotrophic active bacteria in waste water treatment processes using novel molecular techniques. **Water Research Commission Report** No: 1178/1/05.

Articles in Peer Reviewed Journals

MOODLEY, R., SNYMAN, C., ODHAV, B. and BHOOLA, K.D. 2005. Visualization of Transforming Growth Factor- α , tissue kallikrein, and kinin and transforming growth factor BB receptors on human clear-cell renal

carcinoma. **Biological Chemistry**, 386, 375-382.

REDDY, L., ODHAV, B. and BHOOLA, K. 2005. Aflatoxin B₁ induced toxicity in HepG2 cells inhibited by carotenoids: morphology and genomics. **Biological Chemistry** (2-9-2005).

KUNAMNENI, A., SANTHOSH KUMAR, K. and SINGH S. 2005. Response surface methodological approach to optimize the nutritional parameters for enhanced production of alpha-amylase in solid state fermentation by *Thermomyces lanuginosus*. **African Journal of Biotechnology** 4: 708-716.

KUNAMNENI, A., PERMAUL, K. and SINGH, S. 2005. Amylase production in solid state fermentation by *Thermomyces lanuginosus*. **Journal of Bioscience and Bioengineering** 100(2). In Press.

KUNAMNENI, A. and SINGH, S. 2005. Response surface optimization of enzymatic hydrolysis of maize starch for higher glucose production. **Biochemical Engineering Journal** (In Press).

REDDY, P., PILLAY, V.L., KUNAMNENI, A. and SINGH, S. 2005. Degradation of pulp and paper-mill effluent by thermophilic micro-organisms using batch systems. **Water Science** (In Press).



CHRISTOPHER, L., BISSOON, S., SINGH, S., SZENDEFY, J. and SZAKACS, G. 2005. Bleach-enhancing abilities of *Thermomyces lanuginosus* xylanases produced by solid state fermentation. **Process Biochemistry** 40: 3230-3235.

STEPHENS, D.E., RUMBOLD, K., PERMAUL, K., PRIOR, B.A. and SINGH, S. 2005. Directed evolution of the thermostable xylanase from *Thermomyces lanuginosus*. **Journal of Biotechnology**, 2005 (In Press).

LALBAHADUR, T., PILLAY, S., RODDA, N., SMITH, M., BUCKLEY, C., HOLDER, F., BUX, F. and FOXON, K. 2005. Microbiological studies of an anaerobic baffled reactor: microbial community characterization deactivation of health related indicator bacteria. **Water Science Technology** 51 (10): pp. 155-162.

Conferences Attended:

REDDY, L. and ODHAV, B. 2005. *Genomic modulation of aflatoxin B1 by natural products*. 18th International Congress of Nutrition, ICC, Durban, South Africa. 19 - 23 September 2005.

KASSIM, M.A., BAUNATH, H. SANKAR, U. and ODHAV, B. 2005. *Biological risks and safety of traditional leafy vegetables*. Indigenous Plant Use Forum: African Philosophy meets commercialization. Eden Grove Conference Centre, Rhodes University. 27-30 June 2005.

NAIDOO N., BAUNATH, H., ODHAV B. 2005. *Bio-catalogue of traditional leafy vegetables in Africa*. 2005 Indigenous Plant Use Forum: African Philosophy meets commercialization. Eden Grove Conference Centre, Rhodes University, Lucas Avenue, Grahamstown. 27-30 June 2005.

RAMDHANI, N. and BUX, F. *Ribosomal RNA targeting oligonucleotide probing and biochemical characterization of filamentous*. 4th IWA Activated Sludge Population Dynamics Specialist Conference, Gold Coast, Australia, July 2005.

NAIDOO, D., RAMOTHOKANG, T.R. and BUX, F. *Bacteria in pure culture*. 4th IWA Activated Sludge Population Dynamics Specialist Conference, Gold Coast, Australia, July 2005.

RAMDHANI, N. AND BUX, F. *Functional characterization of heterotrophic denitrifying bacteria in waste water treatment systems*. 4th IWA Activated Sludge Population Dynamics Specialist Conference, Goldcoast, Australia, July 2005.

BUX, F. Invited speaker. *Key Environmental issues affecting Health and Economic Sustainability*.

STEPHENS, D.E., PERMAUL, K. and SINGH, S. 2005. *Stability enhancement of a thermophilic xylanase*. 229th ACS National Meeting, San Diego, CA, March 13-17, 2005.

Department of Chemical Engineering

The department continues to gain national recognition as a leading practitioner of chemical engineering teaching and research and continues to strengthen its international links. It is also recognised specifically for its expertise in membrane technology, cleaner production and curriculum development and design, nationally. The department continues to be engaged in several industrial and community-based consulting projects.

One MTech, 36 BTech and 42 National Diploma certificates were awarded in the 2005 graduation ceremony. Ms Reshnee Roopnarian, who received her Bachelor's Degree *cum laude*, was also the recipient of the Silver Medal from the South African Institute of Chemical Engineers for the best BTech student in KwaZulu-Natal.

The department continues to be a major roleplayer in the national curriculum process. Staff members are actively involved in the Engineering Standards Generating Body and the Chemical Industry Education and Training Authority (CHIETA). In August 2005, the Department of Chemical Engineering received full accreditation from ECSA for the full term of five years.

Department of Chemistry

A recent addition to the department is Dr N Deenadayalu, a highly skilled physical chemistry researcher who has published more than 10 research papers in local and international journals.

The award of Associate Professorship has been conferred on Dr GG Redhi, with effect from 1 June 2005. He has made a significant contribution to the department's research output in terms of publications in peer reviewed journals as well as in conference proceedings.

As regards international conferences, Dr K Bisetty presented a paper, *A Theoretical Study of PCU Cage Peptides*, at the 18th Polish Peptide Symposium held at the University of Wroclaw, Poland, from 4-8 September 2005.

Dr N Deenadayalu presented a paper, *Activity coefficients at infinite dilution using polar and non polar solutes in ionic liquids*, at the Carman Conference in November 2005 at the Eskom Convention Centre, Midrand.

The department was visited by several eminent scientists. Dr Josep Canto and Dr Francesc Corcho, from the Computational Chemistry and Molecular Engineering Group in Barcelona were hosted by Dr K Bisetty from 26 to 31 September.

Professor Juan Perez, from the Universitat Politecnica de Catalunya, Barcelona, was hosted by Dr Bisetty from December 3-8. He made a presentation on computer-aided drug design.

The department recently acquired a Sun Java Workstation equipped with a cluster of 16 processors running on the Redhat Linux operating system. This enables research involving high performance computer simulations in



a parallel environment, which is an essential tool in computational chemistry and molecular modelling. A Shimadzu Graphite Furnace Atomic Absorption Spectrometer for trace metal analysis was purchased by the department.

Mr Z Mabaso is the co-ordinator of the science project which focuses on developing and improving the laboratory skills of high school teachers and selected learners from rural schools. This training is conducted on weekends and during school holidays. It improved the pass rate of participating Physical Science learners by up to 30% in the 2004 Matriculation Examination.

Department of Clothing Technology

Celebrating Success was the theme for Clothing Technology for 2005, which focused on the positive aspects of the Clothing, Textile, Footwear and Leather (CTFL) sector. Its Annual Awards Evening was inspirational and encouraging, with Ruth Pillay receiving her Degree *cum laude*. Industry partners showed their support through awards, trophies and constant participation in the department's activities.

In being commissioned to manufacture more than 300 bags for the South African Academic Development Association (SAADA) Conference, the department was able to showcase its flair for product development,

functional design, innovative branding and service delivery. in spite of limited resources, budget and lead times.

Roz Havenga, an Associate Director in the department, presented a paper on Teaching and Learning at the SAADA Conference. Her creative and novel presentation, *Out the Box & Off the Cuff*, was well received by the gathered academics and is currently being written up for publication.

Despite being one of the smallest departments within the Faculty, Clothing Technology managed to achieve one of the highest throughput rates. This success is attributed to the focus the department places on screening applicants, continued holistic development of learners and an unswerving commitment from both academic and support staff to encourage maximum achievement.

More than R1.5 million in bursaries was again awarded to deserving Clothing and Textile students, from the CTFL Sector Education Training Authority (SETA) discretionary grant funding, a result of the close ties the department has with the industry.

Additional funding in excess of R1million was secured from the CTFL SETA and the National Skills Fund (NSF) for textile laboratory equipment, the acquisition of specific resources, and the continued administration of the

KZN CTFL Centre of Excellence (CoE).

The KZN Clothing & Textile Cluster (KZN CTC) was launched during 2005. It provided an opportunity to share information, as well as to benchmark world-class manufacturing and best practice to encourage future growth and development of the sector and its human resources. This forum gave learners and industry access to local experts and those from abroad. Important linkages with GTZ, DTI, DST and Tshumisano were also forged during this process.

Internally, the Clothing Technology staff was represented on the Faculty Board of ESBE, EXCO of ESBE, Senate, Teaching & Learning Committee, Co-operative Education Committee, Skills Development Committee, Health & Safety Committee, Liaison Committee of the KZN CTFL CoE and the Advisory Board.

Externally, the department was represented on the Standards Governing Body (SGB) for the CTFL Sector and Clothing Chamber for the CTFL SETA. The Department was also invited to participate in the following:

- ▶ National Sympotex Conference
- ▶ South African Academic Development Association (SAADA) Conference
- ▶ CTFL National Annual Strategic Conference
- ▶ Higher Education Leadership Management (HELM) Conference

The department is firmly of the belief that given its commitment to its learners, to its industry, and to the University of Technology, it will continue to prosper, going forward. All of this is possible despite the negative perceptions and publicity surrounding the clothing industry.

Department of Construction Management and Quantity Surveying

During the past year, staff have been active in a number of diverse areas. Of the ten full-time academic staff members, three are registered for doctoral degrees and four for Masters level qualifications. In the past year staff were involved in a voluntary basis on a number of forums including the following:

- ▶ eThekweni Municipality's Valuation Appeals Board
- ▶ South African Women in Construction
- ▶ Women for Housing
- ▶ Quantity Surveying Standards Generating Body
- ▶ South African Women Empowerment Foundation
- ▶ Council of the Chartered Institute of Building (Africa)

In addition to this, staff given their diverse skills, were often called on to assist with advice, mediate in construction disputes, and to act as expert witnesses in court cases. Staff members have continued to assist staff, schools, welfare organisations and emerging contractors with property and construction related expertise. The department is involved in the National Recurriculum

Forum for Quantity Surveying and the Standards Generating Body. The department is also represented on the Council of the Chartered Institute of Building (Africa), the professional body for construction professionals.

It is anticipated that the department will join the Department of Civil Engineering and Surveying in forming the new School of Construction Engineering in 2006. Together with the soon to be appointed head of school, the department expects to improve its efficiency by taking advantage of the synergies between the departments. Students will benefit from the scope that will be provided for them to work across disciplines.

The department hosted a visit by the president and the executive director of the Association of South African Quantity Surveyors during the year. They addressed students and staff on issues of accreditation, professional registration and the international job market.

The department's BTech programmes continue to be very popular. The BTech: Quantity Surveying Degree attracted over fifty part-time students, all of whom were employed. The demand for final year BTech students this year has been phenomenal and the department was unable to meet the demand from industry. Recent graduates now occupy senior positions both within the private and public sectors throughout the country and internationally.

Department of Electrical Power Engineering

The highlight of the year was the successful accreditation by the Engineering Council of South Africa (ECSA). This endorsement is valid for the next five years. The staff in the department is credited with the hard work in achieving this accreditation and it is anticipated that the department will now move onto a higher level. The next hurdle looming is the new curriculum development. This process is timetabled for attention over the course of 2006.

The department had 24 BTech students graduate, with three students achieving the qualification *cum laude*. Thirty five students received the National Diploma. There is considerable expectation that these numbers will increase in the years ahead.

The end of 2005 saw the closing down of the offerings of S1 & S2 in Pietermaritzburg. Sadly, the department could not continue to offer these programmes without the necessary funding for equipment and resources and were not prepared to compromise on quality. The BTech programme continued in Richards Bay with increasing popularity due to the phenomenal economic growth in the region.

Among highly commendable achievements by department staff members was Mr Bussy's completion of an MSc through the University of KwaZulu-Natal.

Mr Bonnet, an Eskom TESP grant-holder in developing renewable energy technology projects and capacity-building in this area, received THRIP funding for another year.

Mr Chetty assisted the department in a *locum* position for the academic year. Most staff attended an Assessor Training workshop offered by CHED. It is the intention to continue to use the resources offered by CHED to improve the quality of teaching and learning.

In terms of research, Mr D Almaine continued work for the RTPSS Centre, a collaborative effort between DUT, UKZN and the University of Cape Town along with Eskom, Alektrix, ABB, Siemens and Schweitzer Engineering Labs as industrial partners.

Department of Electronic Engineering

With the exception of the appointment of a replacement lecturer, staffing was reasonably stable for 2005. Mr N Pillay was appointed as a permanent lecturer in the field of Instrumentation and Control. During the accreditation audit by the Engineering Council of South Africa (ECSA), all programmes offered by the department received full accreditation until 2009.

The department held the Chair of the National Electrical Engineering Forum in 2005. It hosted the Electronic Engineering Forum Conference in November 2005 at the Tropicana Hotel in Durban. Fifty-seven delegates from 11 institutions, countrywide, participated in the conference. The theme was the unpacking of the Electrical Engineering curriculum. Proceedings of the conference have been made available electronically on <http://cs.dut.ac.za/eeforum>

Research is an integral and important part of the department's programmes at BTech, MTech and Doctoral levels. The focus areas are computational intelligence, automation and communications technology. Project work and research activities at the BTech level include the strain gauge protection system, the fishtail queuing project and the modelling of an evaporator station. Masters' level research activities being conducted include the development of a system for teaching turbo-code forward error correction techniques, the determination of PID controller tuning parameters using swarm intelligence, fault diagnostics using artificial immune systems, image motion detection using artificial neural networks and electricity demand side management using a fuzzy logic based load shedding controller.

Conference Papers, Presentations and Publications

GOVENDER, P. and RAMBALLEE, A. 2005. *A time-of-use controller for managing domestic loads during peak demand periods*. Proceedings of the International Conference on Domestic Use of Energy, (pp 23) 27, 29 31 March 2005, Cape Town.

GOVENDER, P., DUFFY, K. and VENAYAGAMOORTHY, G.K. 2004. *Neural networks based predictions of herbivore distribution patterns in a South African game reserve*. International Conference on Neuro-computing and Evolving Intelligence (NCEI=04), Auckland, New Zealand.

GOVENDER, P. and LOURENS C.J. 2005. Production optimization using swarm intelligence. Conference of the South African Institute of Industrial Engineers, 21-24 August 2005, Gauteng.

LOURENS C.J. and GOVENDER, P. 2005. *An elephant identification system using computational intelligence*. Conference of the South African Institute of Industrial Engineers, 21-24 August 2005, Gauteng.

GOVENDER, P., BIPRAJ, S., VENAYAGAMOORTHY G.K., OKORO, O.J. and DUFFY, K.J. 2005. *Power line technology for rural communication: benefits and challenges*. Second International Conference on Science and Technology, 12-15 December 2005, Hyderabad, India.

OKORO, O.J. GOVENDER, P. and CHIKUNE, E. 2005. *Teaching control systems engineering with MATLAB/Simulink*. International Conference and Exhibition on Power and Telecommunications (ICEPT 2005), 11-13 October 2005, Lagos, Nigeria.

OKORO, O.J. and GOVENDER, P. (2005). *Simulating a wind energy synchronous generator with skin-effect*. Transactions of the South African Institute of Electrical Engineers (Forthcoming in 2006).

Department of Food Technology

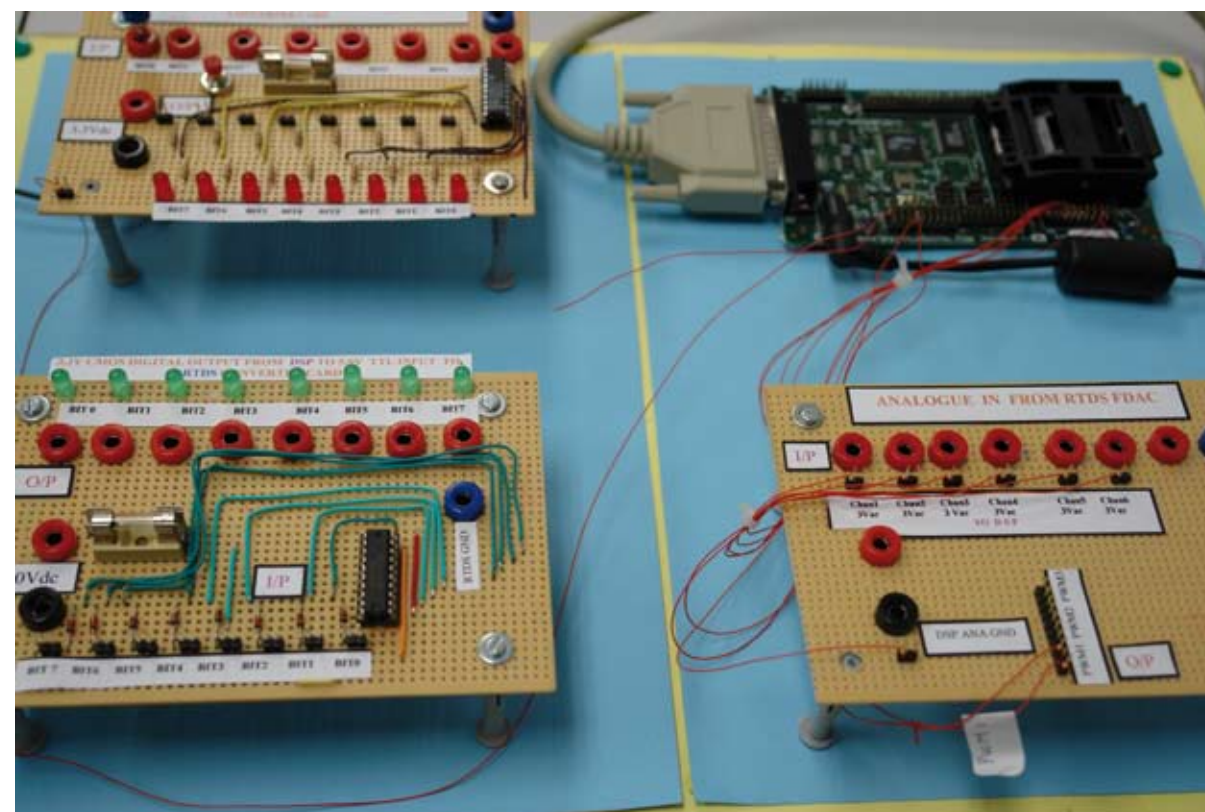
The department offers three programmes, one at Diploma level, one at BTech level and the MTech in Food Technology. Staff include three full-time lecturing staff members – HoD, Mr M Smith, and Senior Lecturers, Mrs M Rutynowska and Mrs T Padayachee. Mr R Dilrajh is the Laboratory Technician on the Steve Biko campus and Ms S Govender is on the ML Sultan Campus. Mrs Rutynowska is to be complimented on her dedication to Food Technology students, her activities with experiential training and her interest in preparing the students for their project presentations.

Ms S Beekrum continues as a contract Laboratory Assistant. Mrs Padayachee is registered for a PhD, and took a portion of 2005 as study leave. She is also kept busy with SETA activities. She organised and mentored BTech students. Mrs Rutynowska and Mr Dilrajh have visited schools and given career talks on food technology.

Mrs Rutynowska attended a HACCP workshop and the SAAFoST Biennial International Congress in Stellenbosch. Mr Dilrajh managed to keep a complex and busy laboratory maintained and running, as well as performing lecturing duties in Food Chemistry II and III.

The continuing problem of the department being split across two campuses renders basic administration a laborious business.

Final-year students presented their research projects at an internal presentation event. Some industry representatives were present, including Unilever and Flavourcraft. Students have been introduced to and use state-of-the-art presentation techniques for projects. All photographic material was digitally stored and combined with other project graphics. The presentations were via data projectors onto a large screen. Final-year students were given a most valuable HACCP workshop by Unilever, which included comprehensive literature. These students also attended the



SAAFoST Road Show programme, which included several industry speakers who presented on working in the food industry. Mrs Rutynowska organised both events.

Experiential training students are employed in the laboratory to help first- and second-year students with practicals and projects. They are able to accumulate credit-bearing hours in this way. This also gives them a base from which to move into industry. A decision was made to merge the Departments of Biotechnology and Food Technology. However the underlying problem of split activities on two campuses remains. Urgently needed extensions to the food technology laboratory in S9 level 01 on the Steve Biko Campus have not yet been implemented.

The department maintains good contacts with industry by visiting students who are doing experiential training. Research, consultancy and project development is also active within the department. Three staff members are presently upgrading their qualifications. Mr Smith retires in 2006.

Department of Horticulture

Mrs Janina Wise left the department after a three-year stint and established a successful business in Pietermaritzburg. Mrs Goodbrand went on maternity leave during the latter half of the year and Mr Jos Meuskens was appointed as a *locum*. At the end of the year Mr Dhiren Govender, a horticulturist from

the Durban Parks Department, was appointed.

A one-day training session on herbarium techniques, hosted by Carol Appollos, Rene Glen and Alfred Ngwenya and staff from the National Botanical Institute (NBI), took place at the Natal Herbarium. The certificate ceremony was incorporated into the departmental awards ceremony at year's end. Second-year students attended a beginner's contact course with Durban Parks horticulturists in April. In September a master gardener's course was arranged for them involving field trips and speakers on various topics at the Visitors' Centre, Durban Botanic Gardens.

A one-day field trip hosted by Raymond Auerbach at Peacevale introduced the learners to permaculture, or sustainable farming using eco-friendly cultivation techniques. Another field trip to Hillary nursery followed, where learners saw how the annuals/bedding plants for the entire City of Durban are produced. Back at the Visitors' Centre, Curator Chris Dalzell showed slides from his horticultural travels while Trafford Petterson, from eThekweni Environmental Management Department, informed the learners about the city's conservation plans. Dr Mike Smith, from the University of KwaZulu-Natal, gave a talk on the use of grey water to irrigate plants.

A large contingent of 67 first-semester learners were enrolled. They received additional teaching inputs from CHED staff Shubnum Rhambaros, heading up English Literacy, and Shoba Rathillal, of Mathematics Literacy. Dedicated teaching time was set aside each week to



address these vital areas.

Second-year learners continued their studies while experiential learners obtained employment locally and abroad, in Dubai and London, respectively. Extensive academic work regarding curricula improvements took place, including a one-day staff workshop and numerous meetings with Mrs Veronica Tredeoux.

The prize-giving event at the NBS Education Centre was attended by Alfred Ngwenya, a taxonomist at the Natal Herbarium, who gave a brief talk on the role of the African Plants Initiative (API), a project whereby images of all the indigenous flora of this province would be placed on the internet. Awards were issued to Maura Heron (Best Horticulture Student in 2nd year), Princess Ngcobo (Best Plant Identification Student overall) and Murray Saunders (Best Horticulture Student in 1st year).

The DUT nursery, under the control of the department, undertook various plant decorations throughout the year, including the annual graduation ceremonies and numerous functions for the Public Affairs and other departments that requested plant decorations on campus. The department won a prize for their stand at the Careers Fair. The nursery sales area was expanded to accommodate additional plant production and the area was fenced and plant boxes were built for plant staging.

A well-attended Advisory Board Meeting was conducted with representatives from commercial nurseries, garden centre retailers and commercial landscapers. Top management and education staff from Durban Parks Department also provided valued input on curricula and work

integrated learning issues. The department collaborated with education staff at Durban Parks Department and produced a detailed proposal on horticultural training to address weaknesses within the work integrated learning (WIL) component of the course. These presentations were made to Senior Management at Durban Parks, the Deputy Vice Chancellor (Academic) and the Executive Dean. The Parks Department is making their extensive resources available to the department and WIL students are to be based at the Durban Botanic Gardens. The pilot run for the School of Horticulture was timetabled for commencement in January.

Department of Industrial Engineering

Mr Uttam Pancha joined the department as a part-time Lecturer. Mr Jay Paramanund was on study leave for 2005, completing his PhD studies. Mr Andrew Naicker completed the MBA at UKZN.

The Institute of Professional Engineering Technologists (IPET) conferred their annual awards on the best engineering graduates at BTech Engineering level at a ceremony in Johannesburg. Two BTech students received awards at this function. Both Lee Ann Krishna (for 2005), and Nerissa Naidu (for 2004), achieved 80% aggregates for the BTech programme. Both also received the Dean's Merit Award for Academic Excellence. Nerissa Naidu received the Engineering Council of South Africa (ECSA) Medal for Outstanding Achievement in Engineering. The Department received full accreditation from ECSA for both the Diploma and BTech until 2009. The contribution by all staff in acquiring this endorsement is acknowledged.

Department of Maritime Studies

As a result of Captain Allan Parkinson being medically boarded in August 2005, and Captain Nigel Rowes' sudden death in September 2005, the existing staff members, both full- and part-time, undertook extra work loads to maintain the smooth running of the department. Assistance from the industry was sought to maintain the staff complement and encouraging support was received in many ways, including financial support.

The number of applications for admission for 2005 in respect of CAO applicants was 307. Only 55 applicants were accepted due to space limitations and staff capacity. A number of students from Kenya, Tanzania, Cameroon, Nigeria, Namibia and the Indian Ocean Rim were attracted to the department.

The department continued its excellent relations with the various sectors of the shipping industry. It was approached by the National Ports Authority regarding the implementation of more integrated co-operation. As a consequence, the Port Academy of South Africa, which is an internal training arm of the NPA and SAPO, offered components of practical training on their full mission bridge simulator which enhanced the practical training of students. The department is involved in maritime initiative seminars, the Society of Master Mariners and the Tysand High School in Richards Bay, as well as helping to set up the offering of maritime studies at Sithembile High school in Clermont.

Maritime Studies has also been involved in government projects and task teams, such as the team which recommended the introduction of a *Tonnage Tax* to attract shipping to the South African flag. This originated from the department's efforts to create more practical training for its students, who are required to spend a maximum of one year on board a foreign vessel. It is with great pride that the department noted that this provision was included in the Budget Speech in 2005, with the possible implementation date being 2007.

In addition to a good working relationship with industry, the department was visited by foreign shipping companies, viz SANKO, a large Japanese ship owner who has undertaken to provide practical training opportunities and possible employment for our students. The following short courses were run by the department:

- ▶ GMDSS
- ▶ Tanker Safety
- ▶ Assessors
- ▶ Bridge Team Management
- ▶ ISPS Code

Steps are presently being taken to enable the department to introduce an exit level at S2 in all programmes and to reintroduce a new, restructured marine engineering qualification. This, it is anticipated, will lead to the offering of a BTech in Maritime Studies replacing the National Higher Diploma.

Department of Mathematics

At the beginning of 2005 two academic staff members, Mr Noor Ally and Ms Thembi Mkhize, joined the Mathematics Department and have both

proved to be valuable appointments. Three members of staff presented research papers at local and international conferences during the year. Ms Thama Duba presented at the Southern African Association of Maths, Science and Technology Education conference held in Namibia. Dr Ramu Naidoo presented at the International Conference of Numerical Analysis and Applied Mathematics in Rhodes, Greece as well as the conference on Technology and Society in Hyderabad, India. Professor Siby Moyo presented at the Sixth International Conference, Symmetry in Nonlinear Mathematics and Physics held in the Ukraine. Professor Moyo was also awarded an NRF Y2 rating and a Vice Chancellor's Research Award for 2005.

Dr Ramu Naidoo set up a website for e-learning for the Mathematics I, III and IV courses. Mrs Shirley Thurbon was involved in the New Linkages Project, which aims to streamline articulation between tertiary institutions and technical colleges. Mrs Thurbon was instrumental in the production of brochures promoting FET colleges as access routes to universities of technology and also encouraging representatives of these colleges to be available at DUT student registration.

Department of Mechanical Engineering

The Department of Mechanical Engineering offers programmes that range from the National Diploma in Mechanical Engineering up to the DTech. It offers both the government ticket and design and manufacturing options with an ever-evolving list of courses that provides students with the freedom to choose from a cutting edge curriculum that develops and influences their life choices.

The department, through its staff, consistently strives to increase access to study and in 2005 had approximately 600 registered undergraduates and 12 postgraduates. At the graduation ceremonies, 51 students received diplomas, 21 received BTech degrees, three received MTech degrees and one a Doctoral degree.

The department currently has 15 full-time academic members of staff and seven support staff. Five members of staff hold Doctoral degrees, all of whom are professors. Dr Pillay, who completed his Doctorate abroad, returned to DUT in 2005. Regrettably he resigned from the University and has joined the faculty at the University of Alabama in the USA. One member of staff was awarded a MSc and is currently on a PhD programme. Two others are currently registered for Masters' programmes. All others hold at least an M+4 qualification.

Highly qualified and well-motivated staff continue to offer quality teaching and research. The department has again been highly ranked in the field of cutting edge research and the postgraduate programme is growing steadily. There are approximately 10 Masters' students and one Doctoral student. Students and the Faculty have continued to be recognised for their originality and impact on research, education and leadership in the field of mechanical engineering.

In pursuit of advancing academic endeavour, in the year under review

research staff have presented technical papers both locally and abroad. Researchers in the department have secured research funding from several organisations including Kentron and the National Research Foundation (NRF).

In order to strengthen the capacity for the local, regional and wider economy, the department through the technology station, has been working closely with industry, developing intellectual, creative and practical capacities. The technology station, which is funded by the Department of Science and Technology, is ably led by Professor Walker.

Due to budgetary constraints, the department limited the acquisition of new laboratory equipment in 2005. The following software packages were acquired: Autocad, Unigraphics, Patran, Adina, Labview and Matlab.

Staff in the department have expertise in a variety of areas of mechanical engineering, including composite materials, controls, design, dynamics, energy, fluids, manufacturing, MEMS design and nano-manufacturing. In order to keep up with the changing nature of the discipline, the department continuously revisits its core syllabi. Students are now able to take examinations in the core areas of mechanical engineering-design, manufacturing and GCC options. It is anticipated that new courses such as finite element methods, composite materials and mechanics of materials will be offered soon.

Department of Physics

The department has made some notable progress in the year under review. Among these are that all academic staff members are now on PhD programmes. A laboratory staff member, Mr Haripersad, successfully completed an Honours Degree in Mathematics and will be pursuing a Master's Degree in the forthcoming academic year.

Mr D Gxawu (England) and Mr IJ Lazarus (SAIP-B South Africa) attended national and international conferences while Mr D Gxawu and Mr R Haripersad published papers in 2005.

To improve the quality of the teaching, staff members attended the on-line Pioneers' course presented by the Centre for Higher Education Development (CHED). Two courses have been implemented using this teaching and learning methodology. The department has also purchased interactive physics software to enhance conceptual learning.

Mr Singh was appointed as acting head of department from November 2005.

Department of Pulp and Paper Technology

Pulp and Paper Technology merged with the Department of Chemical Engineering in 2005. However, due to the unique nature of the pulp and paper programme, it continues to operate fairly independently. Nevertheless, there has been a sharing of teaching methodologies and experiences between the two departments.

Mr Bruce Cahill has been seconded to the department from industry for three years. He has undergone the induction process and has successfully delivered the programme in his first year. Mr Cahill intends registering for

an MTech, and is currently developing his research proposal. Mr Pauck has attended the assessor course, and is currently developing his portfolio. Members of the department are involved in an advisory capacity in contract research by the CSIR for the pulp and paper industry.

The documentation for the registration of the BTech programme has been drawn up, and is awaiting submission, subject to institutional timelines. In the interim the curriculum is under review to bring it into line with the registration documents. Due to the method of staffing the department with secondments from industry, very close links are maintained between the department and the pulp and paper industry. In line with industry requirements for the reintroduction of a National Diploma in pulp and paper technology, preparations will be made in 2006 to introduce the programme in 2007.

Department of Textile Technology

The year under review was most productive. As a result of the move to a new location the department had the opportunity of expanding laboratories during 2004 and 2005, with the help of external funding. New equipment and computers were obtained in 2005 and incorporated into our laboratories. A computer lab for the use of CAD and other design software was established and this was incorporated into student practicals and curriculum. First-year student intake for both 2004 and 2005 has increased compared to previous years. It is encouraging to note the increase in registration for the BTech programme.

Eighteen student bursaries were allocated to first-year textile technology students by the CTFL SETA for 2006 as a means of sustaining growth in student numbers and attracting an increased number of quality students to the textile technology programme. This was in addition to 20 bursaries allocated for 2005. The department continues to host the three-year South African Dyers' and Finishers' Association part-time course in fibres and dyeing. Mr Fassihi continued with his PhD and Mr Sheolal continued with his BTech studies.

Mr Elliot presented a paper at an international textile conference in October 2005. Mr Sheolal attended an international conference in October 2005, which took place in Port Elizabeth.

The head of the department attended various meetings in 2005 as member of liaising committee of CTFL SETA and Centre of Excellence at DUT as well as other textile workshops, locally and nationally. The department is working with the CSIR through the HoD, as he is involved with joint research activities as well as SADFA through the educational committee of SADFA.

Department of Town and Regional Planning

The orientation for students began this year with *The Amazing Planning Race*. The event was organised by the department and senior BTech students to orientate new students, and returning 3rd year students, with the layout of the campus and as a way for new students to get to know senior students.



In June the department hosted a fun sports day for students. This was well attended and everyone had lots of fun. The department was fortunate to host a number of visiting lecturers during the year. They have contributed to students understanding the various challenges facing planners.

Visiting lecturers included:

- ▶ Mr Bheki Shongwe, from Moreland, spoke to first-year students about their involvement in developments on the Umhlanga Ridge and the planning implications of a housing project in which first-year students were engaged.
- ▶ Sugen Moodley and Adrian Masson, from eThekweni Municipality, spoke to BTech students about Integrated Development Plans and Area Based Management respectively. Mr Anton Aiello, from Uchani, spoke to third-year and BTech students about Social Housing.
- ▶ Mr Chris Byron and Mr Derrick Van As spoke to BTech students on Geographical Information Systems (GIS).

The department was involved in a number of initiatives that assist its graduates and form part of its outreach programme. Activities in the year under review included:

- ▶ A capacity-building programme with eThekweni Municipality, which some 60 graduates have attended since 2004 and which provides the necessary 6-12 months of practical work experience.

- ▶ The department, along with its Joint Venture partners, was awarded a capacity-building tender over a three-year period to deliver a suite of 11 courses to KwaZulu-Natal provincial and municipal officials. The bulk of the courses have been approved and delivery is under way.
- ▶ The department was awarded the tender to develop the eThekweni Inner City Development Spatial Framework.
- ▶ The department, along with the Department of Town and Regional Planning at UKZN, has held four joint workshops for the profession, under the banner of the South African Planning Institute. The purpose of the lecture series is to keep abreast of developments in the planning environment, to showcase latest developments and support networking within the profession. Students from the respective institutions are invited to attend the sessions and network with potential future employers.
- ▶ The department continued to be represented on NSB 12 (Construction) and the SGB for Planning. The HoD is a member of the South African Council for Planners.

The department continued to deliver quality research output as detailed below:

Theres Gordon

Financial Modelling: When good education practice is not enough. Lessons



learned. Paper co-authored and presented with Gill Lincoln at the SAADA Conference held at DUT in Durban, 27-30 November 2005 eThekweni Inner City Plan for eThekweni Municipality 2004-5.

Alan Hansen

Poster presentations at ESRI User Conference in San Diego in July 2005: GIS in Education and Mauritius Catchment Management using GIS Multi-level Land Use Survey for eThekweni Municipality in 2005. HIV/AIDS research – spatial, space-time and socio-cultural aspects and implications for intervention and prevention thereof. In progress 2005.

Robynne Hansmann

- ▶ eThekweni Inner City Plan for eThekweni Municipality 2004-5.

Bertha Pitout

- ▶ *Facilitating learning activities in OLS for Town Planning first year students.* Pioneers Online In-House Conference, December 2005.

Joe Kitching

- ▶ Multi-level Land Use Survey for eThekweni Municipality in 2005
- ▶ HIV/AIDS research – spatial, space-time and socio-cultural aspects and implications for intervention and prevention thereof. In progress 2005.
- ▶ Poster presentations at ESRI User Conference in San Diego in July 2005: GIS in Education and Mauritius Catchment Management using GIS.

Gill Lincoln

- ▶ *Financial Modelling: When good education practice is not enough. Lessons Learned.* Paper co-authored and presented with T Gordon at the SAADA Conference held at DUT in Durban, 27-30 November 2005.

Departmental Quality Assurance

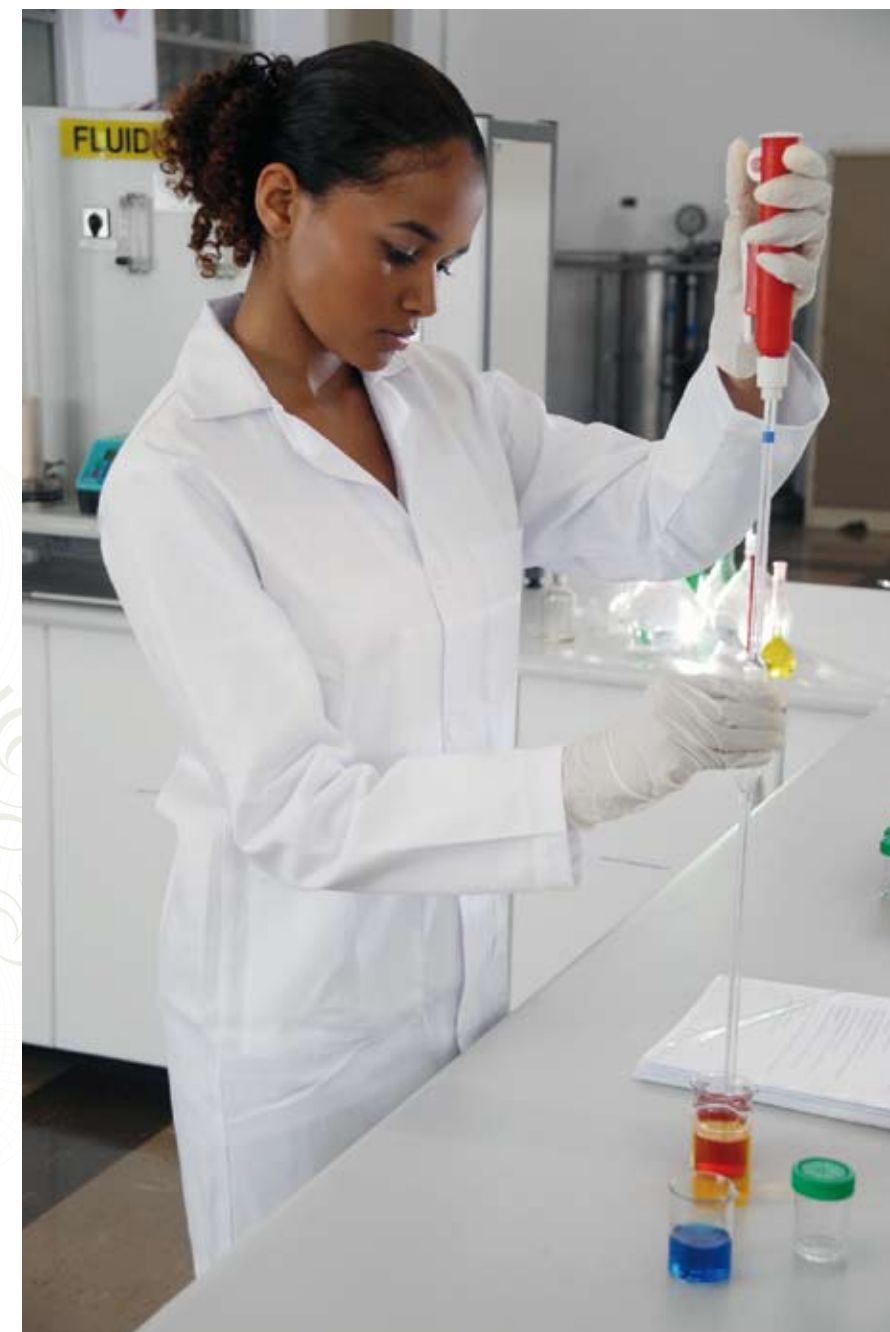
The following quality instruments were applied during the course of the year:

- ▶ Ongoing discussions with students through meetings regarding curriculum issues.
- ▶ Formal subject reviews undertaken by students.
- ▶ Qualitative student programme reviews at exit levels: third-year students and BTech students.
- ▶ Subject reviews
- ▶ Service Department subject reviews .

In addition, the department prepared itself for a self-evaluation to be held in February 2006.

Professor Suren Singh

Acting Executive Dean of the Faculty of Engineering, Science and the Built Environment



FACULTY OF HEALTH SCIENCES

Departments

- ▶ Biomedical Technology
- ▶ Child and Youth Development
- ▶ Chiropractic
- ▶ Clinical Technology
- ▶ Dental Services (Assisting and Technology)
- ▶ Emergency Medical Care and Rescue
- ▶ Environmental Health
- ▶ Homeopathy
- ▶ Human Biology
- ▶ Postgraduate Nursing Studies
- ▶ Radiography
- ▶ Somatology

The Faculty of Health Sciences had a number of successes and challenges during the 2005 academic year. The opening of a 30-seater Faculty Computer Laboratory in April constitutes a milestone for the Health Sciences at DUT. This facility has proved long overdue. It is used for teaching in the mornings and as an open access laboratory for Health Sciences students in the afternoons and evenings. It has already become apparent that it is far from adequate in meeting the computing needs for teaching and learning in the Faculty.

On any given day, long queues of students waiting for space in the laboratory can be seen from as early as 8am. Mr Andile Nokwe was appointed as the Computer Laboratory Technician, a responsibility which he assumed with diligence and dedication. Mr G Bass (HoD: Dental Services) continues to co-ordinate the computer laboratory activities with Ms Wendy Allison, stepping in to assist in the lab whenever the need arises. This commitment is greatly appreciated.

Fulfilling the promise espoused in the Faculty mission "to develop within a values-driven ethos quality health professionals that are practice-oriented; receptive and responsive to health care needs of the people of South Africa and Africa as a whole by providing the highest standards of teaching, learning and community engagement underpinned by a commitment to empowering staff and students to succeed" remains a challenge.

Equity and redress, throughput and research participation and output, continue to present challenges for the Faculty. Student participation and staff demographics by race remain well below national and provincial norms. Although the Faculty's graduation rate increased by 2.25% between 2004 and 2005, throughput for the 2003 cohort (2003 intake) of students was down compared to that of the 2002 intake. Nevertheless, the improvement in graduation rates means that the Faculty is beginning to clear the 'backlog' and thus create access for new entrants within the capped enrolment environment.

The Faculty's mentoring programme, sponsored by MESAB, is beginning to grow. Two more programmes, Somatology and Emergency Medical Care and Rescue, in addition to Dental Technology, implemented mentorship in their programmes and thus became part of the MESAB mentorship programme. In 2005, two mentorship workshops, funded by MESAB, were held in KZN and staff and students from the participating departments attended these workshops. We are confident that this programme will go a long way toward helping learners acquire skills for succeeding in the higher education environment as well as in their academic programmes. Miss A Vahed continues to coordinate the Faculty's mentorship activities. Her commitment and passion for the mentorship strategy is acknowledged and appreciated.

Faculty research output improved slightly, with more staff publishing compared to just one or two, as was previously the case. Research participation is beginning to be seen as an important component of an academic department's work. Professor Nirusha Lachman (HoD: Human



Professor Nomthandazo Gwele

Biology) continues to exert her passion in co-ordinating Faculty research work. Of significance is the assistance offered to the staff in the Faculty by Ms Lavisha Deonarian, in her capacity as Faculty Research Assistant. Her contribution has been invaluable.

Departments continue to achieve extraordinary results in spite of limited resources.

Department of Biomedical Technology

The Department of Biomedical Technology was involved in reviewing and updating the curriculum in Medical Technology through its participation in the CTP/CHE Work Integrated Learning Project. Collaborative work with Mangosuthu Technikon continued in 2005, culminating in a joint Integrated Learning presentation by the final-year students from both institutions. DUT students claimed six out of eight prizes for best presentation.

The 2004 graduates wrote the compulsory board examination in 2005. DUT graduates produced excellent results with highest pass rates both in KZN (70%) and nationally (81%). Three staff members; Mr D Govender, Ms P Pillay, and Ms S Prithelpaul presented papers at national conferences.

Department of Child and Youth Development

In the Department of Child and Youth Development, Ms Jackie Winfield took over the headship from Dr Frida Rundell, who resigned from this position but continues to lecture in the department.

A recirculation workshop involving students' representatives, members of the Professional Board for Child and Youth Care, the South African Council for Social Service Professions, representatives from the SGB for Child and Youth Care Work, the Director of the National Association of Child Care Workers, UNISA and employers was held in June 2005. The programme was facilitated by Liz Harrison and colleagues from the Centre for Higher Education Development. Financial assistance provided by the United Negro College Fund through TELP for the running of this workshop is gratefully acknowledged.

The department maintained its links with its strategic partners such as the Standards Generating Body for Child and Youth Care Work, the Professional Board for Child and Youth Care, EDUCO Africa, Professor Robert Wolff from the USA, Life Line, Ukuba Nesibindi Drop-in Centre in the Warwick Junction triangle, Wylie Child and Youth Care Centre and the Durban Children's Society.

These strategic partnerships add value to the department's academic programme in a variety of ways. Links with the profession through participating in the professional board and SGG for Child and Youth Care Work ensure that the university's academic staff keeps abreast of developments in the profession. Community linkages with NGOs such as the Ukuba Nesibindi Drop-in Centre, EDUCO Africa, and Life Line provide invaluable learning experiences for students. The department spent approximately 40 000 person hours on work-integrated learning, most of which was conducted in settings for children and youth at risk. Foschini donated R48 000 for equipment for the educate centre.

The R100 000 USSAS bursaries received from Professor Wolff ensured access to higher education for students from disadvantaged backgrounds. The partnership with EDUCO Africa provides outdoor camping programmes for second, third and fourth-year learners focusing on personal development, communication, leadership, teambuilding and rites of passage.

Student success continues to be above average. In the 2005 examinations, one learner achieved distinctions in all five subjects and five others achieved an overall average of 75% and above.

An internal review of the department was conducted by the Centre for Quality Promotion and Assurance (CQPA) in 2005, an experience that provided the department with an opportunity for reflection on departmental practices and resulted in recommendations that are being addressed through an action plan.

On the staff side, seven articles were published in the peer-reviewed Child and Youth Care Journal.

Department of Chiropractic

As usual 2005 was a busy year for the Chiropractic Department, for students and the lecturers alike. Drs Shaik and Docrat completed their MSc in Sports Science through the University of KwaZulu-Natal, with Dr De Busser (clinician) following closely behind. The three staff members have now started the research component of their studies, following a year of coursework. Dr Myburgh completed his PhD and is currently on a six-month sabbatical conducting post-doctoral research at Denmark University. The department welcomed Dr Alan Gounden and his surgical team at RK Khan Hospital, who assist with the practical component of Diagnostic III.

The links established with the Nelson R. Mandela School of Medicine, University of KwaZulu-Natal, have been further strengthened with Professor Vawda continuing his association with the chiropractic programme, as well as the newer developments of collaborative research at Masters'

level and co-supervision becoming a norm in the research part of the programme.

The department has been actively involved in the development of audit criteria for the Chiropractic Programme with the Council of Higher Education (CHE). These criteria were used in the internal evaluation of the programme by the CQPA in 2005.

With regard to liaison with the profession, members of staff meet every two months with members of the KwaZulu-Natal Branch of the Chiropractic Association of SA (CASA), where continuing education sessions are conducted. There were various meetings with CASA as well as a meeting with the Council. The department seeks to have more such liaisons. For the profession and for the department in particular, this communication and collaboration is vital.

Twenty-eight MTech students graduated this year. The Masters' research project has been streamlined and throughput in terms of the research process has improved. Some research is also multidisciplinary and new research areas are currently explored to fully maximise multidisciplinary research in chiropractic education and practice.

It is with great sadness that staff and students said goodbye to Donna Weyer-Henderson, a final-year student who tragically passed away in 2005.

The Chiropractic Students' Sports Association (under Dr Charmaine Korporaal's supervision) provided voluntary services at various sporting events in and around Durban during the course of 2005.

The department acknowledges all those chiropractors who continue to take time from their practices to offer voluntary assistance at various sporting events. Some of the students from the chiropractic programme have been selected for inter-provincial, national and international sports teams.

The Chiropractic Day Clinic remains popular and exceptionally busy. Dedicated clinic administrators and clinic staff members, who give their personal touch to the day-to-day running of this clinic, contribute to its popularity.

Department of Clinical Technology

During 2005 the Department of Clinical Technology was involved in reviewing and updating the curriculum in Clinical Technology. The department is in the forefront in the curriculum process nationally, with Dr J Adam as Chair of the standard-generating body for Clinical Technology as an elected HPCSA member. Feedback generated from initiatives in KZN is communicated nationally to the clinical technology stakeholders.

In September 2005, three BTech students presented posters and one student, Ms A Amod, received an award for the Best Poster presentation. All nine students who completed the BTech degree obtained distinctions in their presentations. In 2005, Dr Adam graduated with DTech (Clinical Technology) and became the first person to be awarded this qualification in South Africa.



Department of Dental Services

2005 was a productive year for the Department of Dental Services in the offering of its two programmes in Dental Technology and Dental Assisting. Progress was made in commissioning a dedicated classroom for the Foundation Course students. Donor funding of R60 000 was received from the Victor Daitz Foundation, for which the department was most grateful. Unfortunately, due to extremely slow DUT procedures, the classroom was not completed in 2005, this despite receiving donor money in the first term.

Dental Assisting had a larger intake of students in 2005 and took ownership of new equipment which will improve service delivery.

On the staff side, Miss A Vahed graduated with a MTech (Dental Technology) and Mr A le Roux made significant progress with his studies toward a Doctorate. The write-up will commence in 2006. He also attended the Assessor Training workshop offered by CHED as part of the academic retraining of all academic staff. Mr G Bass registered and completed all his coursework towards a Master's degree in education.

The department appreciates the commitment to the academic programme displayed by a number of part-time and/or contract staff, without whom it would be impossible to effectively run its programmes;

Mr Y Boodhun: Coordinator of the Dental Technology Foundation Programme; Ms R Nair: contract Lecturer in the Dental Assisting Programme; Dr B Holmes-Newsome and Mr T Muslim, both part-time Lecturers in Dental Assisting.

Students performed adequately, academically, during 2005 year-end examinations and the overall pass rate was the best that it has been in years. BTech students, although they were a small class, achieved a 100% pass rate in 2005. The department continues to attract a number of international students from Kenya, Swaziland, Lesotho and China. The tradition of holding regular meetings with local industry continued in 2005. Fruitful discussions have been held. A good relationship exists with local industry.

Staff and students continue to strive forward in a positive manner in providing ongoing community service. The department has supplied many facial prostheses such as eyes, nose, ears and full facial burn splints, skull plates and cleft palate prostheses. The most noticeable achievement in 2005 was supplying prosthetic eyes to a young man who was assaulted and had his eyes gouged out by his attackers. The service was noted by national television and print media. A television news insert appeared nationally on eTV and also on the isiZulu news broadcast. Special acknowledgement goes



out to Mr Peter Furber for his commitment in helping to provide a service to the indigent sections of our population.

The department continues to render support in the form of prosthetic appliances to:

- ▶ The Cleft Palate clinic at Wentworth Hospital
- ▶ Ocular plastic patients from the state health system
- ▶ The ENT department at King Edward VIII Hospital.

The Dental Clinic on campus offers dental appliances to indigent people at reduced rates. This clinic enables Dental Assisting students to work alongside technology students in providing valuable community service.

Department of Emergency Medical Care and Rescue

2005 proved to be a very successful year for the Department of Emergency Medical Care and Rescue. An even greater emphasis was placed on academic efficiency and throughput in 2005. Several innovative teaching and learning strategies, which included the initiation of a mentorship programme, were implemented and closely monitored. These led to a general increase in pass rates across all years of study.

Once again, the department's senior learners did the department proud by winning first prize at the Careers Fair. The stand, which was an almost entirely student-led effort, included dynamic patient simulation demonstrations. The department is extremely pleased with the learners' pride and commitment to the department and thus their chosen profession.

In October 2005, Mr BC Pillay joined the department as the Work Integrated Learning (WIL) Facilitator. Mr Pillay brings to the department many years of clinical and teaching experience in pre-hospital emergency care.

Research in the department has been ticking over slowly but surely. The department initiated a Master of Technology (Emergency Medical Care) for the first time in South Africa. The first five students registered have embarked on niche research projects and are progressing well under the guidance of a highly respected and experienced research team, led by Dr L Grainger. In addition, the department has one confirmed publication, in resuscitation, and a further two articles accepted for publication. The contribution made by the department's international collaborators, Mr Nick Castle and Mr Rob Owen, has been invaluable in this regard.

The department remains committed to improving throughput and staff qualifications and aims to maintain its leadership and continue its influence in pre-hospital emergency care in South Africa through academic excellence and research output.

Department of Environmental Health

2005 was yet another exciting year for the Department of Environmental Health. Two staff members graduated with Master's Degrees. This added to the strength of the department in terms of ensuring properly qualified

members of staff and will hopefully enhance the quality of our academic offerings.

The department continued to work with relevant stakeholders. A collaborative partnership with the Osindisweni Hospital and the DUT Graphic Design Unit (GIS) was established. The new partnership is aimed at broadening innovative teaching and learning strategies to enhance student learning. A tender for training KZN Provincial Health auxiliary health assistants was won by the department. A food-fortification programme sponsored by UNESCO was offered through a workshop, in collaboration with Tshwane University of Technology.

Over the years the department has had difficulty in finding a working strategy to help students succeed in Physics 1. Efforts to address this problem were made in 2005 through provision of a tutoring system and reviewing of the course to ensure relevance of what is taught for Environmental Health. Furthermore, a recirculation workshop involving stakeholders was held. There was a general improvement in year-end results compared to previous years. Nevertheless, research output needs urgent attention. Access to suitable lecturing venues continues to be a challenge.

Department of Homoeopathy

The Department of Homoeopathy has enjoyed a stable, if a somewhat unadventurous year. All staff members have continued to work towards providing a consistent and student-focused homoeopathic education, in spite of professional stresses and legislative turmoil. Student morale and commitment have been maintained at their normal high levels.

The academic staff of the Department of Homoeopathy has applied themselves well to the sometimes onerous task of educating future homoeopaths. Collectively, they are to be commended on their commitment and consistent efforts to improve the quality of teaching and learning. Particular mention should be made of Dr Ingrid Couchman and Dr Izel Botha's innovative integrated games, based on a "Trivial Pursuit-type" handling of clinical and homoeopathic subject material. All academic staff continue to apply themselves to the supervision of research students and of final-year students in the Homoeopathic Day Clinic.

Homoeopathy students were well-motivated and there were few failures across all five years of study. The quality of research is showing consistent improvement and the total departmental research effort seems to be gaining consistency and focus. Particular note should be taken of the various homoeopathic drug trials which have been produced and their inclusion in international homoeopathic databases and source references.

Five final year students were entered into the first international web-based Homoeopathic Medical Student Examination. This examination covered the subjects Anatomy, Physiology, Pathology, Diagnostics, Homoeopathic Philosophy and Materia Medica and was entered by homoeopathic students across the globe. Our students were placed 3rd, 5th, 8th and 17th, earning the Department and DUT a "Certificate of Quality" in recognition of "Top

Quality Education in Homeopathy".

The department maintains its close links with industry and outside institutions. In 2005 the department was privileged to invite Dr Jacques Imberechts (past president of the International Homoeopathic Medical League – LMHI). He was most impressed and has subsequently made representations on the department's behalf at the Education Subcommittee of LMHI.

The department was also visited by a noted Dutch homoeopath and teacher, Dr Alize Timmermann, who will be visiting again in 2006 to offer a free seminar to senior students in the subtleties of homoeopathic case taking. The department was also invited by Dutch and German colleagues to participate in the first global homoeopathic drug trial (proving), based on the department's reputation in homoeopathic proving. This was the first of three provings to be conducted over the next year. Members of staff attended a seminar in homoeopathic case taking and case analysis in Johannesburg. In addition Dr Ross attended a HESA workshop on behalf of the Faculty of Health Sciences, in Performance Management in Higher Education.

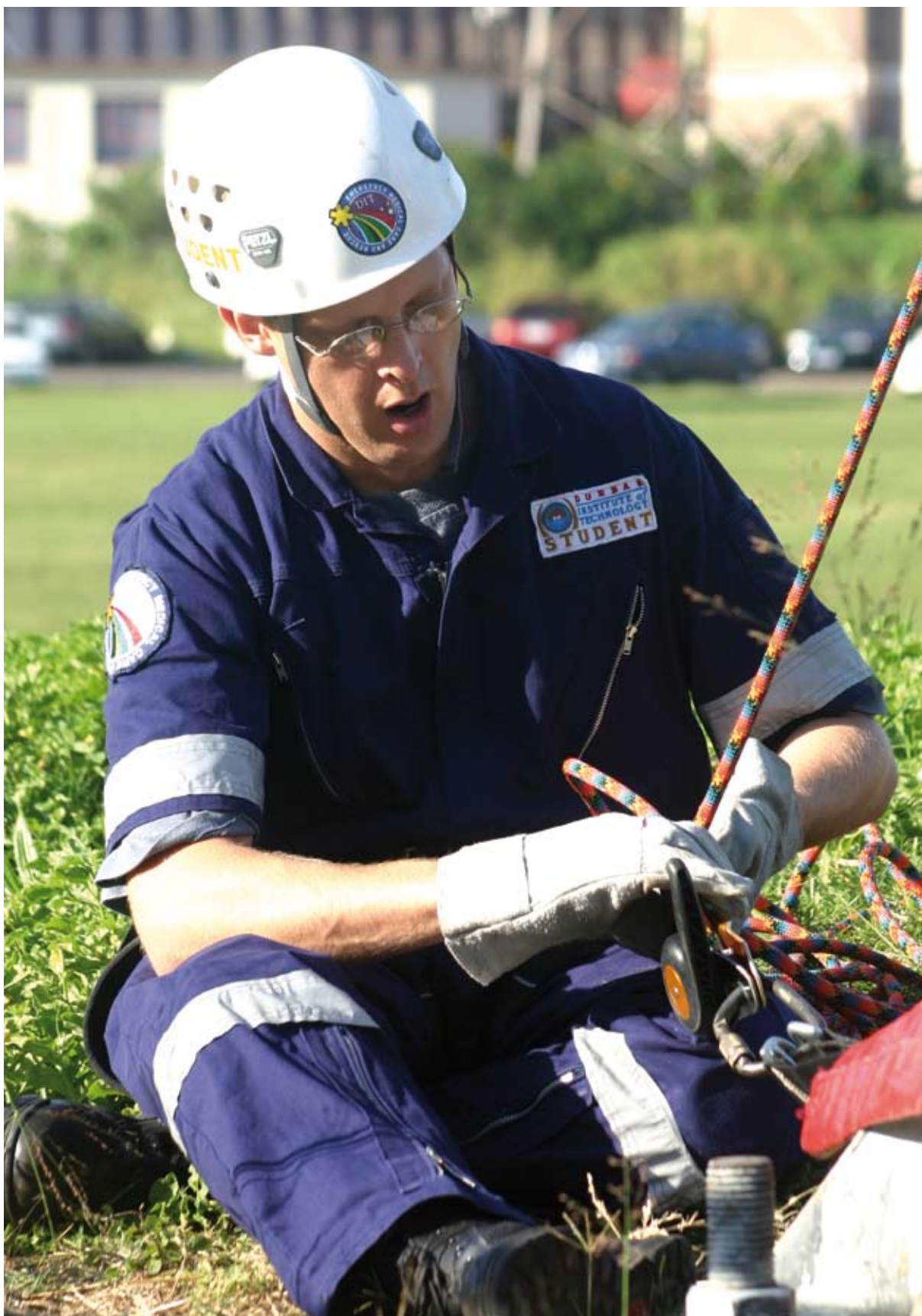
With regard to community involvement, students have continued and extended their activities at Ukuba Nesibindi (Warwick Triangle), and the contribution of the 4th and 5th year students is becoming increasingly valued by communities and enjoyed by students as an educational opportunity. A special note of appreciation needs to be made to Ms Jabulile Ngobese, without whom the department's contribution would have been much more difficult to achieve. Regrettably, the clinical exposure which students enjoyed at Tintswalo Hospital came to an end in 2005, and the department continues to pursue a similar initiative closer to home.

The department has enjoyed a productive year, if not quite as dynamic and extensive as has become customary. It remains confident that the efforts of staff towards integration of homoeopathy into more mainstream medical facilities, and the provision of reliable cost-effective medicine to the broader South African community will be realised and look forward to the realisation of broader goals in 2006.

Department of Human Biology

The Department of Human Biology underwent a change of management at the start of the third term of the academic year. The department acknowledges the contribution of Mr Thys Walters who served as HoD for two terms since his election almost seven years ago. He continues to hold the post of senior lecturer and looks forward to the continued development of his academic career.

Ms Anne Moodley was appointed secretary in September in a full-time temp capacity. Ms Moodley's appointment has had a significant impact on the re-organisation of the department and has made an exceptional improvement to the face of the department. In addition, the department benefited from structural improvements from the reception area and the creation of a seminar room.



In an effort to improve student throughput, the department has instituted a tutoring system which resulted in overall improvement in subject pass rates.

A number of staff presented papers at national and international conferences. Of note was the poster presentation by Mr G Mathura at the National Congress of the Anatomical Society of South Africa (ASSA), for which he won the SV Naidoo Prize for Best Poster. Professor Lachman continued to lead by example in the area of research participation managing to motivate and encourage staff to participate in research, the result of which was that four members of staff, Mr JD Pillay, Ms F Ally, Ms N Pillay and Mrs M Reddy, have all been involved in collaborative research projects in 2005.

In addition, Professor Lachman was recognised for her dedication and excellence in Anatomical Research through her appointment as ASSA Editor of the *Journal of Clinical Anatomy*. Professor Lachman had three SAPSE publications in 2005, all in collaboration with national and/or international researchers in the field of anatomy. The department is also involved in niche area research within the following ambits: Applied Anatomical Studies (Prof N Lachman, Mr JD Pillay, Mrs F Ally, Miss M Cooposami and Mrs D Pillay); Medical Education (Prof Lachman, Mr JD Pillay, Mrs F Ally, Mrs J Ducray, Mrs T Reddy); Oncology Research (Mrs T Reddy).

With regard to improving staff qualifications, Mr JD Pillay completed a Master's Degree in Public Health and Mrs T Reddy secured a seed grant to initiate her PhD.

Department of Postgraduate Nursing Studies

The year 2005 has been a challenging one for the Department of Postgraduate Nursing Studies with a sudden change in leadership following the resignation of Professor Linda Grainger, as well as continued difficulty in filling vacant posts. On a positive note, Ms Enone Pauck was appointed to a half-day permanent position after working as a part-time Lecturer for a number of years. Ms Maureen Harris submitted her DTech (Nursing) thesis for examination in 2005. It is hoped that she will graduate in 2006. Ms Ayisha Razak's proposal for a PhD study was accepted and she is now busy with data collection. She was also funded by the NRF to attend workshops on research supervision. Ms Jabu Makhanya co-authored a chapter titled *Skills mix required to implement a District Health System*. This was published in the *South African Health Review*.

With regard to the academic programme, the structure of the BTech (Nursing) degree was changed to ensure that students exit with a BTech qualification in line with the department's PQM. Before this programme restructuring exercise, students tended to leave the programme without completing it, which had adverse effects for throughput and therefore output funding.

The department moved to its new premises at the beginning of the year. The new location provides adequate office space, a computer room used by

students and three dedicated classrooms. Security and parking, however, remain a challenge, especially on Friday evenings and at weekends when the parking area becomes a venue for student parties, making the premises inaccessible to staff members who want to work during the weekend.

Department of Radiography

Priorities for improving staff qualifications, set in 2004, paid dividends for the Department of Radiography in 2005. Mrs S Naidoo, a recipient of the Australia-Nelson Mandela Scholarship, graduated with a Masters' Degree in Applied Science from the University of Sydney; Mrs L Swindon handed in her MEd dissertation (UKZN) for examination. She will be graduating in 2006. Mrs R Sunder has completed her Masters' coursework and is now finalising her thesis for submission.

Mrs R Sunder and Mrs Naidoo have completed the Pioneers Online WebCT course and plan to introduce online learning in classrooms in 2006. Mr Mdletshe and Mrs Naidoo have also done Project Management courses. The departmental Secretary, Ms Jolene Stone, completed a DUT Basic Administration course and also took part in the ITS update version 13 workshop. In collaboration with industry, all staff members were involved in the re-curriculum process during the past two years.

Twenty nine first-year radiography diagnostic students were awarded three-year learnerships by the HWSETA, 10 of which are administered privately and 19 of which are administered by the department. The co-ordinator, Mr T May, has worked with both the finance and the student financial aid department in this regard. The support of the DUT Finance Department for the administration of the 19 learnerships is acknowledged as this funding will cover the students' financial needs for three years and runs into several million rand. The department also acknowledged student financial support received from Drs Lake Smith and Partners, Netcare (Radiotherapy) and Umhlanga Radiology; Provincial Departments of Health, including KZN; and Swaziland Health Authorities.

Sixty two students completed the National Diploma (Radiography) programme at the end of 2005. Top achievers were Salina Perusalmi (Agnes Harmer Society Award) for Best Overall Diploma Student, including Best Diagnostic Student; Riley Naidoo, Best Overall Ultrasound Student over three years, and Melissa S Labuschange (Professor Amo Jordaan Award) for the Best Overall Therapy Student.

Mrs F Peer, DUT's first DTech (Radiography) student, has submitted her thesis for examination. It is hoped that she will graduate in 2006. Together with two of her external supervisors, she has had two publications accepted. The department acknowledges the Visiting Professor research grant received from the Institutional Research Committee (DUT). Dr M Pui, a researcher in molecular imaging, visited the department in 2005. This visit afforded her the opportunity to work closely with Ms Peer as her external supervisor. She also provided seminars for the staff on international funding and trends in molecular imaging.



Department of Somatology

Somatology was awarded funding for a Foundation Programme towards the end of 2004. The first cohort of students for this programme was registered in 2005. The Foundation Programme injected a breath of fresh air into the somatology academic programme as staff from the department, the service departments, Library and Centre for Higher Education Development (CHED) came together on a weekly basis to discuss and develop new teaching, learning and assessment methods.

On staff matters, Ms Sharl Fynn was appointed to the Technician's post in April and very quickly learned the ropes and proved to be an asset to the department. Ms Dorinda Borg was appointed as a Lecturer, having been seconded from the Technician's post in 2004. Mrs Borg was also instrumental in taking the foundation programme to the level at which it now runs. Mrs Leigh Hockly resigned in August in order to be with her husband

who had been transferred overseas. Mrs Borg and Mrs G Reid continue with their Masters' Degree studies with UKZN.

Community involvement continues to be an integral part of the Somatology programme. Second-year students complete community work as part of their experiential learning, with a specific focus on old age homes. The DUT Public Affairs stand at the Comrades Marathon was well supported by Somatology II students, who provided much-needed massages and strapping for the runners. Of the third-year students, each student is required to complete 10 case studies comprising 10 treatments of reflexology and aromatherapy. The department has elected to provide this service to disadvantaged communities. With the number of students completing these treatments in the greater Durban and surrounding areas, it is estimated that in excess of 300 individuals received reflexology and aromatherapy treatments by the department's students in 2005.

As planned, re-curriculation activities began in early January 2005 with a two-day meeting convened and held at DUT between universities of technology that offer the somatology programme. One further meeting was held in DUT in April, TUT held one meeting in August and one meeting was held in CPUT in November. These meetings culminated in the decision to offer a four-year professional degree. Finalisation of the curriculum is expected in February 2006.

2005 was a most productive year for the department and there is considerable expectation to go from strength to strength in 2006.

Acknowledgements:

The Executive Dean acknowledges the hardworking staff of the Faculty Office, without whom the work of the academic departments would be very difficult if not downright impossible.

Professor Nomthandazo Gwele

Executive Dean of the Faculty of Health Sciences



FINANCIAL REPORT

Consolidated Annual Financial Statements 31 December 2005

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Report of the Deputy Vice-Chancellor: Financial and Information Services

The consolidated financial statements of the Durban Institute of Technology includes the results of the following wholly owned subsidiaries of the Durban Institute of Technology, DIT (Pty) Ltd, Melrose Properties (Pty) Ltd, Maxelect Investments (Pty) Ltd and the Business Studies Unit.

Impact of the Forensic Investigation on the financial statements.

The university appointed KPMG and Amaface to conduct investigations in respect of potential irregularities that may have caused possible losses to the university.

The internal auditors of the university were requested to perform data analysis work to provide management with further insight into the financial impact of the preliminary audit findings in the Progress Report.

Based on the review of the Progress Report and the review of detailed work performed by internal auditors, the external auditors were satisfied that the findings would not have a material impact on the university's financial statements for the year ending 2005.

Audit Opinion

The auditors have issued an unqualified opinion on the financial statements.

Commentary on financial results

Subsidy Income and grants

Subsidy Income and grants received increased by R5,2 m from R342,7 m to R347,9 m.

Tuition and other fee income

Tuition and other fee income increased by R38,1 m from R207,8 m to R245,9 m.

Personnel costs

Personnel costs increased by R23,2 m from R351,2 m to R374,4 m. The increase in costs is attributed to 3.75% annual pay increase (this excludes the notch increase) and increase in the number of staff employed.

Other expenditure

Other operating expenditure decreased from R161,5 m to R146,9 m.

Net surplus

A net surplus of R126,5 m was recorded for the year.

Included in the net surplus for the year is:

- An amount of R27,3 m received from the Department of Education, being the final payment for re-imbursement of merger expenses and investment income and profit on disposal of investments of R27,7 m.

Cash Flow

The university's cash flow generated from operations continues to be positive. Cash flow generated from operations was R106,3 m.

Trade and other receivables

A cumulative provision of R88,5 m for tuition and residences for student debtors has been provided for after taking into consideration receipts from debtors in the post balance sheet period.

Operating loss – Residences

The institution's residences incurred a loss of R5,2 m for the year.

Post Retirement benefits

PENSION: The National Technikon Retirement Fund is a defined benefit scheme and is funded by contributions from employers. The institute's share of the NTRF deficit at 31 December 2005 was R25,3 m. This liability has been provided for in the balance sheet.

MEDICAL: The post retirement medical benefit obligation at 31 December 2005 was R64,9 m and has been provided in full in the financial statements in terms of Generally Accepted Accounting Practices.

Leave Pay

The leave pay provision recorded at 31 December 2005 was R72,6 m.

The leave pay liability represents the accumulation of annual leave days owing to the university's employees at the year end.

Investments

Long term investments increased from R111,4 m to R134 m. The main reason for the increase is due to the favourable increase in the market values of these investments.

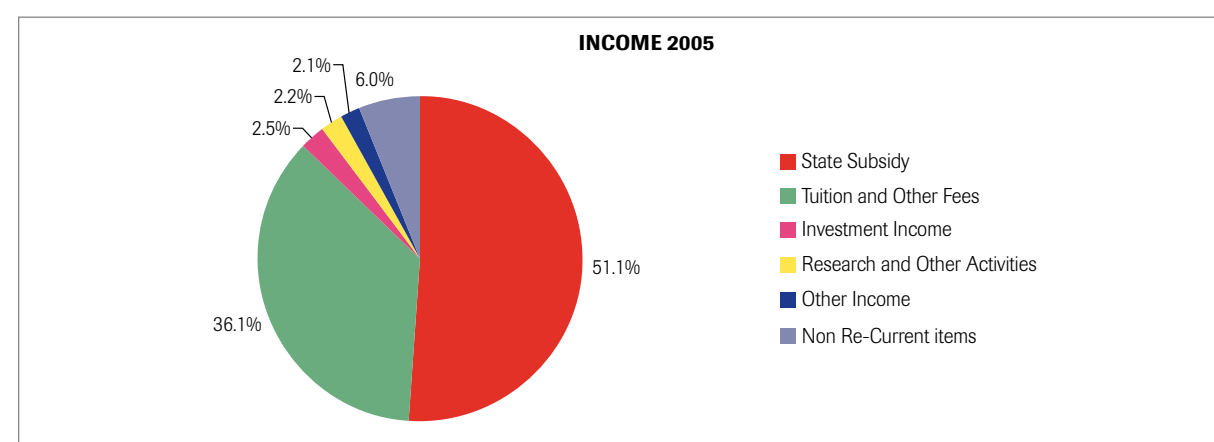
Conclusion

The financial management team must be congratulated on their tight fiscal management which has produced an excellent set of financial results.

Overview of financial results and performance indicators

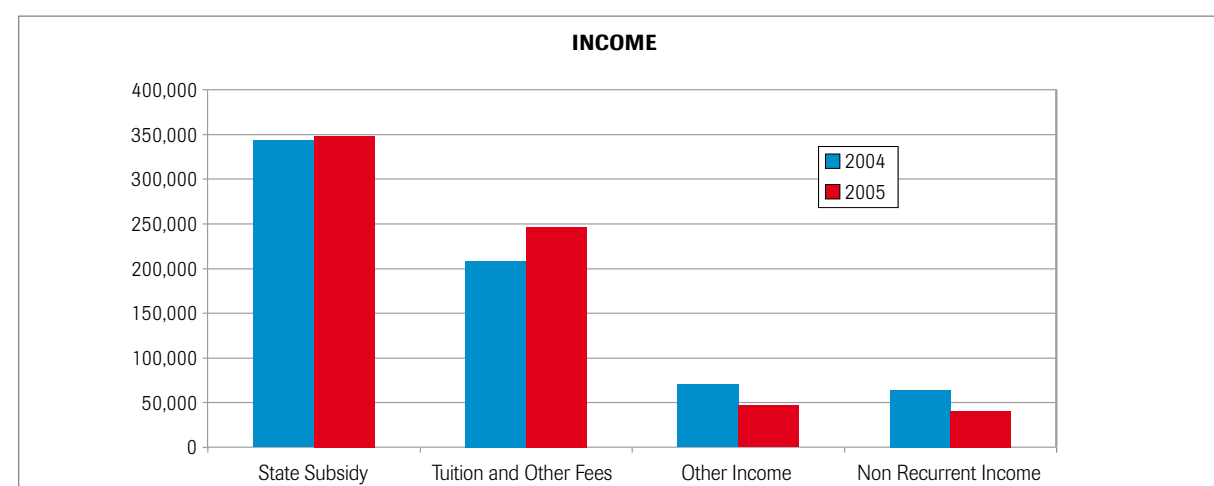
Income

DETAIL	R '000
State Subsidy	347,981
Tuition and Other Fees	245,900
Investment Income	17,048
Research and Other Activities	14,893
Other Income	14,486
Non Re-Current items	40,876
TOTAL INCOME	681,184



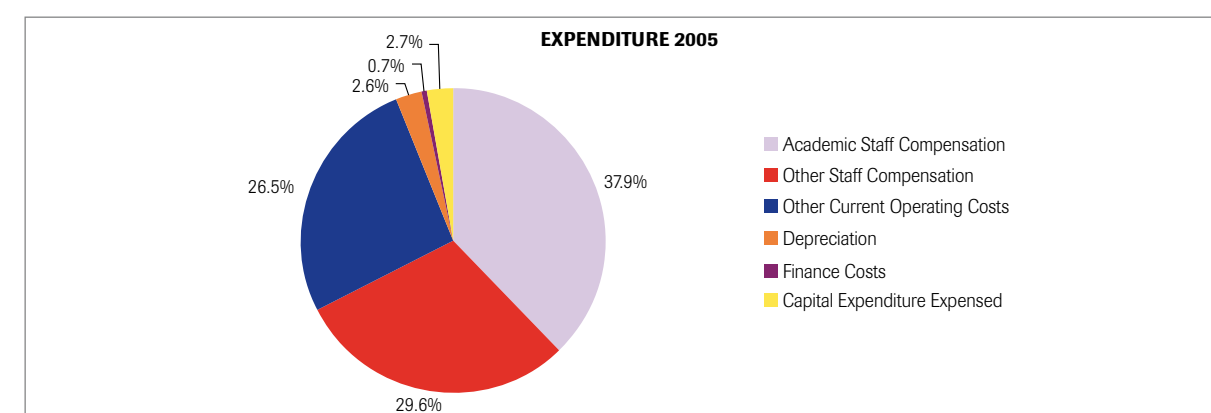
Income

DETAIL	2004 R '000	2005 R '000
State Subsidy	342,701	347,981
Tuition and Other Fees	207,858	245,900
Other Income	70,374	46,427
Non Recurrent Income	64,031	40,876
TOTAL INCOME	684,964	681,184



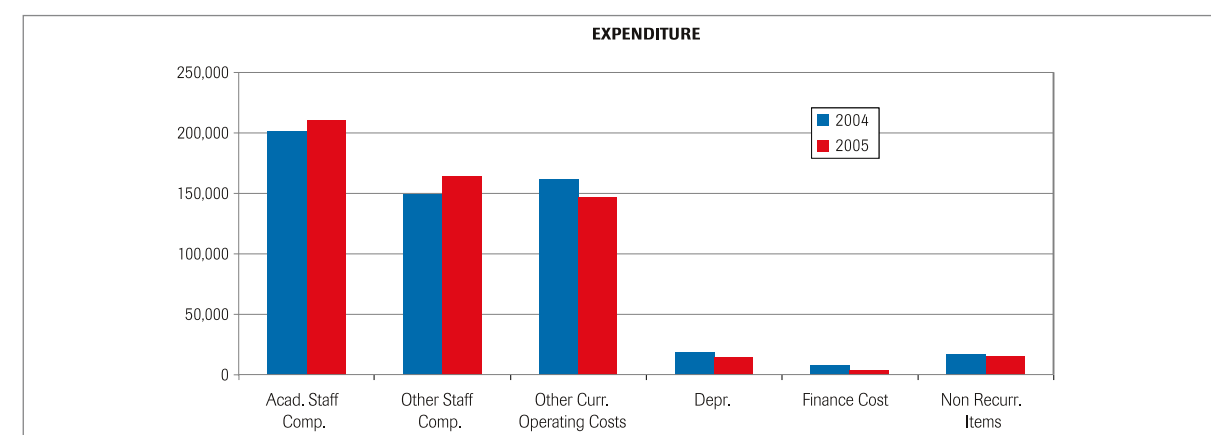
Expenditure

DETAIL	R '000
Academic Staff Compensation	210,044
Other Staff Compensation	164,367
Other Current Operating Costs	146,897
Depreciation	14,383
Finance Costs	4,104
Capital Expenditure Expensed	14,856
TOTAL EXPENDITURE	554,651



Expenditure

DETAIL	2004 R '000	2005 R '000
Academic Staff Compensation	201,557	210,044
Other Staff Compensation	149,633	164,367
Other Current Operating Costs	161,564	146,897
Depreciation	19,040	14,383
Finance Cost	7,619	4,104
Non Recurrent Items	17,451	14,856
TOTAL EXPENDITURE	556,864	554,651



Administrator's Statement of Responsibility for the Financial Statements 31 December 2005

The Administrator is responsible for the preparation, integrity, and fair presentation of the consolidated financial statements of the Durban University of Technology. The financial statements presented on pages 64 to 82 have been prepared in accordance with South African Statements of Generally Accepted Accounting Practice (SA GAAP), and include amounts based on the judgments and estimates made by management.

The Administrator considers that in preparing the financial statements they have used the most appropriate accounting policies, consistently applied and supported by reasonable and prudent judgements and estimates, and that all Statements of GAAP that they consider to be applicable have been followed. The Administrator is satisfied that the information contained in the financial statements fairly presents the results of operations for the year and the financial position of the university at year end.

The Administrator has the responsibility for ensuring that accounting records are kept. The accounting records should disclose with reasonable accuracy the financial position of the university to enable the Administrator to ensure that the financial statements comply with relevant legislation.

The Durban University of Technology operated in a well-established control environment, which is well documented and regularly reviewed. This incorporates risk management and internal control procedures, which are designed to provide reasonable, but not absolute, assurance that the assets are safeguarded and the risks facing the business are being controlled.

The going-concern basis has been adopted in preparing the financial statements. The Administrator has no reason to believe that the university will not be a going concern in the foreseeable future, based on the forecasts and available cash resources. These financial statements support the viability of the university.

The university's external auditors, PricewaterhouseCoopers Inc. and Ngubane & Co, audited the financial statements, and their report is presented on page 63.

APPROVAL OF THE CONSOLIDATED ANNUAL FINANCIAL STATEMENTS

The consolidated annual financial statements were approved by the Administrator on 12 June 2007.



Acting Vice Chancellor and Principal

Professor N Gawe



Deputy Vice Chancellor – Financial and Information Services

M Madanjit



Administrator

Professor J Jansen

Independent Auditor's Report to the Administrator of Durban University of Technology

We have audited the annual financial statements of Durban University of Technology, which comprise the consolidated balance sheet as at 31 December 2005, the income statement, the statement of changes in equity and the cash flow statement for the year then ended, and a summary of significant accounting policies and other explanatory notes, as set out on pages 64 to 82.

Administrator's Statement of Responsibility for the Financial Statements

The University's Administrator is responsible for the preparation and fair presentation of these financial statements in accordance with South African Statements of Generally Accepted Accounting Practice. This responsibility includes: designing, implementing and maintaining internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

Auditor's Responsibility

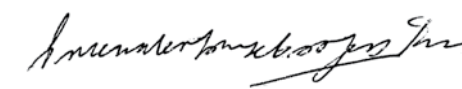
Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether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

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the Administrator, as well as evaluating the overall presentation of the financial statements.

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

Opinion

In our opinion, the financial statements present fairly, in all material respects, the financial position of the university as of 31 December 2005, and of their financial performance and their cash flows for the year then ended in accordance with South African Statements of Generally Accepted Accounting Practice, and in the manner required by the Minister of Education in terms of Section 41 of the Higher Education Act, 1997 (Act No. 101 of 1997), as amended.



PRICEWATERHOUSECOOPERS INC.

Director: H Ramsumer

Registered Auditor

12 June 2007



NGUBANE AND CO.

Director: H Mpungose

Registered Auditor

12 June 2007

Consolidated Balance Sheet as at 31 December 2005

	Note	2005 R'000	2004 R'000
ASSETS			
NON-CURRENT ASSETS		390 922	355 689
Property, plant and equipment	1	256 752	244 150
Non - current investments	2	134 066	111 447
Deferred taxation		104	92
CURRENT ASSETS		177 305	82 550
Inventories	4	1 104	1 090
Receivables and pre-payments	5	26 141	16 857
Cash and cash equivalents	6	150 060	63 999
Taxation		-	604
TOTAL ASSETS		568 227	438 239
EQUITY AND LIABILITIES			
EQUITY – FUNDS AVAILABLE		325 705	192 587
Property, plant and equipment funds		297 584	268 044
Restricted use funds		7 032	(3 906)
Unrestricted use funds/(deficit)		(10 464)	(97 018)
Fair value reserve		31 553	25 467
NON-CURRENT LIABILITIES		186 025	162 870
Interest bearing borrowings	7	25 463	26 228
Retirement benefit obligations	8	90 292	81 090
Leave pay accrual	10	70 270	55 552
CURRENT LIABILITIES		56 497	82 782
Trade and other payables	9	45 091	66 925
Current portion - leave pay and bonus	10	9 932	13 867
Student deposits	9	719	553
Current portion of borrowings	7	755	1 437
TOTAL EQUITY AND LIABILITIES		568 227	438 239

Consolidated Statement of Changes in Funds for the year ended 31 December 2005

DESCRIPTION	Unrestricted Accumulated Fund R '000	Unrestricted General Reserve Fund R '000	Unrestricted Endowment and Similar Funds R '000	SUB-TOTAL A R '000	Restricted Residence Fund R '000	Restricted Specific Project Fund R '000	SUB-TOTAL C R '000	Fair value reserve R '000	Investments in Fixed Assets R '000	GRAND- TOTAL R '000
Balance at 31.12.2004	(103 087)	2 498	3 571	(97 018)	(9 697)	5 792	(3 905)	25 467	268 043	192 587
Additions	-	-	-	-	-	558	558	-	-	558
Transfers credit	8 739	799	3 657	13 195	14 890	885	15 775	-	29 541	58 511
Other transfers	-	-	-	-	-	-	-	6 086	-	6 086
Net surplus for the year	131 740	-	-	131 740	(5 193)	-	(5 193)	-	-	126 547
Funds utilised	207	(239)	(19)	(51)	-	(22)	(22)	-	-	(73)
Transfers out	(58 330)	-	-	(58 330)	-	(181)	(181)	-	-	(58 511)
Balance at 31.12.2005	(20 731)	3 058	7 209	(10 464)	-	7 032	7 032	31 553	297 584	325 705

Consolidated Income Statement for the year ended 31 December 2005

NOTE	COUNCIL CONTROLLED UNRESTRICTED	SPECIFICALLY FUNDED RESTRICTED	SUB - TOTAL	STUDENT AND STAFF ACCOMMODATION RESTRICTED	2005	2004
	R '000	R '000	R '000	R '000	R '000	R '000
	644 546	12 355	656 900	24 286	681 186	684 964
	603 669	12 355	616 024	24 286	640 310	620 933
	347 981	-	347 981	-	347 981	342 701
	221 817	-	221 817	24 084	245 900	207 858
	2 539	12 355	14 893	-	14 893	45 018
	2 539	12 355	14 893	-	14 893	22 045
	-	-	-	-	-	22 973
	9 390	-	9 390	202	9 592	10 844
	4 894	-	4 894	-	4 894	996
	586 621	12 355	598 976	24 286	623 262	607 417
11.1	17 048	-	17 048	-	17 048	13 516
	40 876	-	40 876	-	40 876	64 031
	-	-	-	-	-	35
11.2	10 675	-	10 675	-	10 675	1 274
15	27 250	-	27 250	-	27 250	59 879
	-	-	-	-	-	-
	2 951	-	2 951	-	2 952	2 843
	512 816	12 355	525 171	29 479	554 650	556 864
	497 960	12 355	510 315	29 479	539 794	539 413
12	361 574	5 783	367 358	7 053	374 411	351 190
	204 260	5 783	210 044	-	210 044	201 557
	157 314	-	157 314	7 053	164 367	149 633
	118 230	6 572	124 802	22 095	146 897	161 564
13	14 052	-	14 052	331	14 383	19 040
	493 856	12 355	506 211	29 479	535 690	531 794
14	4 104	-	4 104	-	4 104	7 619
	14 856	-	14 856	-	14 856	17 451
15.2	-	-	-	-	-	-
	14 856	-	14 856	-	14 856	13 074
3	131 729	-	131 729	(5 193)	126 536	128 099
	11	-	11	-	11	(67)
	131 740	-	131 740	(5 193)	126 547	128 032
	(19 151)	-	(19 151)	-	(19 151)	(15 829)
	112 589	-	112 589	(5 193)	107 396	112 203

TOTAL INCOME RECURRENT ITEMS

State Appropriations – Subsidies and Grants
Tuition and other fee income
Income from contracts
For Research
For Other activities

Sales of goods and services
Private gifts and grants

SUB-TOTAL

Investment income

NON-RECURRENT ITEMS

Profit on disposal of property, plant and equipment
Profit on investments (net)
Merger subsidy
Reversal of special projects previously recognised under current liabilities
Other income

TOTAL EXPENDITURE RECURRENT ITEMS

Personnel
Academic Professional
Other Personnel
Other current operating expenses
Depreciation

SUB-TOTAL

Finance costs

NON-RECURRENT ITEMS

Write down of property, plant and equipment
Merger related expenses
Capital expenditure expensed

Net surplus before taxation

Taxation

NET SURPLUS FOR THE YEAR

Less: Income allocated to departments

NET SURPLUS AFTER APPROPRIATION FOR INCOME ALLOCATED TO DEPARTMENTS

Consolidated Cash Flow Statement for the year ended 31 December 2005

	Note	2005 R'000	2004 R'000
CASH FLOW FROM OPERATING ACTIVITIES		119 866	165 615
Investment income less cost of finance		12 944	5 897
Investment income		17 048	13 516
Interest expense		(4 104)	(7 619)
Tax received/(paid)		604	(1 301)
Cash generated from operations	20	106 318	161 019
CASH FLOW FROM INVESTING ACTIVITIES		(32 842)	(15 083)
Purchase of property, plant and equipment		(26 985)	(13 345)
(Purchase)/disposal of non-current investments		(16 813)	(21 746)
Proceeds on disposal of property, plant and equipment		-	38
Proceeds on disposal of investments		10 956	19 970
CASH FLOW FROM FINANCING ACTIVITIES		(963)	(108 525)
Decrease in interest bearing borrowings		(1 447)	(108 517)
Additions to funds		558	741
Funds utilised		(74)	(749)
NET INCREASE IN CASH AND CASH EQUIVALENTS		86 061	42 007
CASH AND CASH EQUIVALENTS AT BEGINNING OF YEAR		63 999	21 992
CASH AND CASH EQUIVALENTS AT END OF YEAR		150 060	63 999
COMPRISES:			
Bank and cash balances		150 060	63 999
		150 060	63 999

Summary of Accounting Policies for the year ended 31 December 2005

Basis of preparation

The financial statements have been prepared in accordance with South African Statements of Generally Accepted Accounting Practice ("SA GAAP"). The financial statements have been prepared under the historical cost convention, modified by the revaluation of financial assets and available-for-sale financial assets.

The preparation of financial statements in conformity with SA GAAP requires the use of estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period based on management's best knowledge of current events and actions. Actual results may ultimately differ from these estimates. During the year under review, there were no areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates were significant to the financial statements.

New Standards, Interpretations and Amendments to existing Standards issued that are not yet effective

Management has considered and assessed the relevance of all new Standards, Interpretations and Amendments to existing Standards that are in issue but not yet effective. The new Standards, Interpretations and Amendments that will apply for the Institute's accounting periods beginning on or after 1 January 2006 or later periods, but which the Institute has not early adopted, are as follows:

1. *IFRS 7(AC 144) - Financial Instruments: Disclosures and a complementary Amendment to IAS 1(AC 101) - Presentation of Financial Statements: Capital Disclosures* (Effective for periods beginning 1 January 2007)

IFRS 7 (AC 144) introduces new disclosures to improve the information about financial instruments. It requires the disclosure of qualitative and quantitative information about exposure to risks arising from financial instruments, including specified minimum disclosures about credit risk, liquidity risk and market risk, including sensitivity analysis to market risk. It replaces disclosure requirements in IAS 32 (AC 125), Financial Instruments: Disclosure and Presentation. The amendment to IAS 1 (AC 101) introduces disclosures about the level of an entity's capital and how it manages capital.

The Institute assessed the impact of IFRS 7 (AC 144) and the amendment to IAS 1 (AC 101) and concluded that this will only impact the format and extent of disclosures presented. The main additional disclosures will be the sensitivity analysis to market risk and the capital disclosures required by the amendment of IAS 1 (AC 101). The Institute will apply this from the annual period beginning 1 January 2007.

2. *IAS 39 (AC 133) (Amendment) - The Fair Value Option* (Effective for periods beginning 1 January 2006)

This amendment changes the definition of financial instruments classified at fair value through profit or loss and restricts the ability to designate financial instruments as part of this category.

The Institute believes that this amendment should not have a significant impact on the classification of financial instruments, as the Institute should be able to comply with the amended criteria for the designation of financial instruments at fair value through profit and loss. The Institute will apply this from the annual period beginning 1 January 2006.

Management have assessed the relevance of the following Standards, Interpretations and Amendments with respect to the Institute's operations and concluded that they are not relevant to the Institute:

1. *IAS 19 (AC 133) (Amendment) - Employee Benefits Actuarial Gains and Losses, Institute Plans and Disclosures* (Effective for periods beginning 1 January 2006)
2. *IAS 39 (AC 133) and IFRS 4 (AC 141) Amendments - Financial Guarantee Contracts* (Effective for periods beginning 1 January 2006)
3. *IAS 39 (AC 133) (Amendment) - Cash Flow Hedge Accounting of Forecast Intragroup Transactions* (Effective for periods beginning 1 January 2006)
4. *IFRS 6 (AC 143) - Exploration for and Evaluation of Mineral Resources, IFRS 1 (AC 138) (Amendment) - First-time Adoption of International Financial Reporting Standards and IFRS 6 (AC 143) Exploration for and Evaluation of Mineral Resources* (Effective for periods beginning 1 January 2006)
5. *IAS 21 (AC 112) (Amendment) - Net Investment in a Foreign Operation* (Effective for periods beginning 1 January 2006)
6. *IFRIC 4 (AC 437) - Determining whether an Arrangement contains a Lease* (Effective for periods beginning 1 January 2006)
7. *IFRIC 5 (AC 438) - Rights to Interests arising from Decommissioning, Restoration and Environmental Rehabilitation Funds* (Effective for periods beginning 1 January 2006)
8. *IFRIC 7 (AC 440) - Applying the Restatement Approach under IAS 29 (AC 124) Financial Reporting in Hyperinflationary Economies* (Effective for periods beginning 1 March 2006)
9. *IFRIC 8 (AC 441) - Scope of IFRS 2 (AC 139)* (Effective for periods beginning 1 May 2006)
10. *IFRIC 9 (AC 442) - Reassessment of Embedded Derivatives* (Effective for periods beginning 1 June 2006)
11. *AC 503 Accounting For Black Economic Empowerment (BEE) Transactions* (Effective for periods beginning 1 May 2006)

Investments

Investments are classified as trading, held-to-maturity or available for sale investments.

Held-to-maturity investments are investments with fixed or determinable payments and fixed maturity. Other than loans and receivables originated by the Institute, the positive intent and ability of the Institute is to hold such investments to maturity. These investments are held at amortised cost using the effective interest method.

All investments other than held-to-maturity investments are measured at fair value without any deductions for transaction costs that may be incurred on purchase or sale or other means of disposal. The fair value of marketable securities is market value. Market value is calculated by reference to Stock Exchange quoted selling prices at the close of business on the balance sheet date. If the fair value of an investment cannot be determined, the investment is measured at cost where there is no fixed maturity, or at amortised cost if there is fixed maturity.

Trading investments are investments that are part of a portfolio of similar assets for which there is a pattern of trading for the purposes of generating a profit from short-term fluctuations in price.

Investments are classified as available for sale investments if they are neither trading investments nor held-to-maturity investments. Unrealised gains and losses arising from changes in the fair value of securities classified as available-for-sale are recognised in equity. When securities classified as available for sale are sold or impaired, the accumulated fair value adjustments are included in the income statement as gains and losses from investment securities.

Inventories

Inventories are stated at the lower of cost and net realisable value. Cost is determined by the weighted average cost method.

Accounting for leases

Leases of property, plant and equipment where the Institute assumes substantially all the benefits and risks of ownership are classified as finance leases. Finance leases are capitalised at the estimated fair value of the leased assets, or, if lower, the present value of the underlying lease payments. Each lease payment is allocated between the liability and finance charges so as to achieve a constant rate on the finance balance outstanding. The corresponding rental obligations, net of finance charges, are included in other long term payables. The interest element of the finance charge is charged to the income statement over the lease period. The property, plant and equipment acquired under finance leasing contracts are depreciated over the useful life of the asset.

Leases of assets, under which all risks and benefits of ownership are effectively retained by the lessor are classified as operating leases. Payments made under operating leases are charged to the income statement on a

straight line basis over the period of the lease.

When an operating lease is terminated before the lease period has expired, any payment to be made to the lessor by way of penalty is recognised as an expense in the period in which termination takes place.

Property, plant and Equipment

Land and buildings, which have been adapted to specialised functions, and all other land and buildings which are used for general purposes, plant and equipment are recorded at cost except for donations, which are valued by external independent valuers.

No depreciation is provided on freehold land as it is deemed to have an indefinite life. In respect of all other tangible fixed assets and buildings depreciation is provided on a straight-line basis at rates calculated to write off cost or revalued amounts over their estimated useful life as follows:

Buildings	50 years
Motor vehicles	5 years
Computer equipment and software	3 years
Furniture and equipment	5 years

New library collections are written off in the year of acquisition.

The assets residual values and useful lives are reviewed, and adjusted if appropriate, at each balance sheet date.

Individual items of property, plant and equipment acquired for R5 000 or less are expensed in the year of acquisition and are recorded in the fixed asset register for control purposes.

Routine maintenance costs are charged to income as incurred. Costs of major maintenance or overhaul of an item of property, plant or equipment are recognised as an expense, except if the cost had been recognised as a separate part of the cost of the asset, and that amount has already been depreciated to reflect the benefits that had been replaced or restored. To the extent that the use of an asset is impaired for reason of deferred maintenance, an additional depreciation provision is created by a charge against income, the accumulated amount of which is included in the depreciation deduction to arrive at the carrying value of the asset. Where the carrying amount of an asset is greater than its estimated recoverable amount, it is written down immediately to its recoverable amount.

Gains and losses on disposal of property, plant and equipment are determined by reference to their carrying amounts and are taken into account in determining operating profit.

Impairment of assets

Property, plant and equipment and other non-current assets, including goodwill and intangible assets, are reviewed for impairment losses whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the carrying amount of the asset exceeds its recoverable amount, that

is, the higher of an assets net selling price and value in use. For the purposes of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows.

Trade receivables

Trade receivables are carried at anticipated realisable value. An estimate is made and is provided for any receivables that are likely to be irrecoverable, based on a review of all outstanding amounts at year-end.

Cash and cash equivalents

Cash and cash equivalents are carried in the balance sheet at cost. For the purposes of the cash flow statement, cash and cash equivalents comprise cash on hand, deposits held at call with banks, other short term highly liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are included within borrowings in current liabilities on the balance sheet.

Revenue recognition

State appropriations and grants for general purposes are, recognised as income in the financial year to which the subsidy relates. Appropriations for specific purposes, i.e., capital expenditure, are brought into the appropriate fund at the time they are available for expenditure for the purpose provided. However, if the funding is provided in advance of the specified requirement, (i.e. the institution does not have immediate entitlement to it) the relevant amount is retained as a current liability.

Income received for designated specific purposes will arise from contracts, grants, donations and income on specifically purposes endowments. In all instances any such income is recognised in the income statement in the financial period when entitled to use of those funds. Thus, funds included as income but which will not be used until some specified future period or occurrence, are transferred from the income statement to an appropriate fund and held in that fund until the financial period in which the funds can be used, at which time the amount is transferred back to income through the income statement. Prior to that time the amount is appropriately grouped in one of the restricted funds comprising aggregate funds (held in trust).

Tuition fees are brought into income in the period to which they relate and at the time these are formally billed. The income must be recognised as realisable and, to the extent that it is not, provision is realistically made for the estimated unrealisable amount. Deposits provided by prospective students are treated as current liabilities until the amount is billed as due.

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

Dividends are recognised when the right to receive payment is established.

Interest, dividends and other income received or due on assets representing endowment and trust funds are recognised as income in the income statement from which the respective amounts are transferred, if required in terms of the establishment of the respective funds, to the respective funds and the amounts appropriately re-invested.

Consolidation

Subsidiary entities are those entities over which the Institute has the power, directly or indirectly, to exercise control. All subsidiaries are consolidated, except where control is expected to be temporary or where there are long term restrictions on the transferability of funds. An entity, not a subsidiary as defined above, the income of which, other than investment income, is intended for the ultimate use of the institution, is also consolidated. Subsidiaries are consolidated from the date on which effective control is transferred to the Institute and until they are disposed of or control ceases.

All inter-institute transactions, balances and unrealised surpluses and deficits are eliminated. Where necessary, accounting policies for subsidiary companies have been changed to ensure consistency with the policies adopted by the Institute. Separate disclosure is made of the minority interest that is measured at the fair value of the net assets acquired.

The consolidated financial statements incorporate the assets, liabilities and trading operations of the following Institute controlled entities:

- Maxelect Investments (Proprietary) Limited
- Melrose Properties (Proprietary) Limited
- Durban Institute of Technology - Business Studies Unit
- Durban Institute of Technology (Proprietary) Limited

Borrowings

Borrowings are recognised initially at the fair value of proceeds received, net of transaction costs incurred, when they become party to the contractual provisions. Borrowings are subsequently stated at amortised cost using the effective interest rate method; any difference between proceeds (net of transaction costs) and the redemption value is recognised in the income statement over the period of the borrowings as interest.

Preference shares, which are redeemable on a specific date or at the option of the shareholder, or which carry non-discretionary dividend obligations, are classified as long term liabilities. The dividends on these preference shares are recognised in the income statement as interest expense.

When convertible bonds are issued, the fair value of the liability portion is determined using a market interest rate for an equivalent non-convertible bond; this amount is recorded as a non-current liability on the amortised cost basis until extinguished on conversion or maturity of the bonds. The remainder of the proceeds are allocated to the conversion option that is recognised and included in shareholders' equity; the value of the conversion

option is not changed in subsequent periods.

Financial liabilities are removed from the balance sheet when the obligation specified in the contract is discharged, cancelled, or expires.

Provisions

Provisions are recognised when there is a present obligation, whether legal or constructive, as a result of a past event for which it is probable that a transfer of economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. The Institute recognises a provision for onerous contracts when the expected benefits to be derived from a contract are less than the unavoidable costs of meeting the obligations under the contract.

Financial instruments

Financial instruments carried on the balance sheet include cash and bank balances, investments, receivables, trade creditors, leases and borrowings. The particular recognition methods adopted are disclosed in the individual policy statements associated with each item.

Information relating to the credit risks associated with and the fair value of financial instruments is contained in note 17.

Pension obligations

The Institute operates a defined contribution and defined benefit pension schemes in accordance with the Pensions Fund Act, 1956. The assets of both schemes are held separately from those of the Institute and are administered, in the case of the defined benefit plan by trustees of the Fund and in the case of the defined contribution plan by the insurance institute selected by the trustees of the Fund.

The pension accounting costs of the defined benefit plan is assessed using the projected unit credit method. Under this method the cost of providing pensions is charged to the income statement to spread the regular cost over the service lives of employees in accordance with the advice of qualified actuaries.

The pension obligation is measured at the present value of the estimated future cash outflows using interest rates of government securities that have terms to maturity approximating the terms of the related liability. The net difference between the expected return on plan assets and the interest factor arising from discounting the obligation is recognised under other operating expenditure. The obligation is valued annually by independent qualified actuaries. Actuarial gains and losses are recognised immediately.

Contributions to the defined contribution scheme are charged to the income statement as incurred.

Other post-retirement benefits

The Institute provides post-retirement medical benefits to certain of their retirees. The expected costs of these benefits are accrued over the period

of employment, using an accounting methodology similar to that of defined benefit pension plans. These obligations are valued annually by independent qualified actuaries. Actuarial gains and losses are recognised immediately.

Cash flows

For the purposes of the cash flow statement, cash includes cash on hand, fixed deposits, deposits held on call with financial institutions, investments in money market instruments and bank overdrafts.

Deferred income tax

Deferred income tax relates to the balance recorded in one of the subsidiary companies. Deferred income tax is provided in full, using the liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the financial statements. Deferred tax assets are recognised to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

Comparatives

Where necessary, comparative figures have been adjusted to conform with changes in presentation in the current year.

Critical accounting estimates and assumption

The key assumptions made concerning the future and other key sources of estimation uncertainty at the balance sheet date that could have a significant risk of causing material adjustment to the carrying amounts of the assets and liabilities within the next financial year are:

Post-employment benefit obligations

Actuarial valuations of post-retirement benefit obligations are based on assumptions which include employee turnover, mortality rates, the discount rate, expected long-term rate of return on retirement plan assets, healthcare costs, inflation rates and salary increments.

Notes to the Consolidated Financial Statements

31 December 2005

1. PROPERTY, PLANT AND EQUIPMENT

	Land and buildings	Furniture, equipment and computers	Vehicles	Total
	R '000	R '000	R '000	R '000
Year ended 31 December 2005				
Opening net book amount	222 831	20 849	470	244 150
Additions	13 007	13 502	475	26 984
Depreciation charge	(3 128)	(11 008)	(246)	(14 382)
Closing net book amount	232 710	23 343	699	256 752
At 31 December 2005				
Cost	250 836	73 400	1 745	325 981
Accumulated depreciation	(18 126)	(50 057)	(1 046)	(69 229)
Net book amount	232 710	23 343	699	256 752
Year ended 31 December 2004				
Opening net book amount	226 218	23 356	399	249 973
Additions	2 657	10 377	321	13 355
Disposals	-	(138)	-	(138)
Depreciation charge	(6 044)	(12 746)	(250)	(19 040)
Closing net book amount	222 831	20 849	470	244 150
At 31 December 2004				
Cost	237 829	59 898	1 270	298 997
Accumulated depreciation	(14 998)	(39 049)	(800)	(54 847)
Net book amount	222 831	20 849	470	244 150

2. NON-CURRENT INVESTMENTS

Listed		
Unit trusts, bonds and share portfolio - available for sale investments	131 934	106 347
Money market	670	3 723
Unlisted		
Fixed deposits	1 462	1 377
	134 066	111 447
Opening net book amount	111 447	94 563
Additions	16 813	21 746
Disposals	(30)	(18 696)
Revaluation surplus	5 836	13 834
	134 066	111 447

The market value approximates the fair value. Investments are revalued annually at the close of business on 31 December 2005 by reference to stock exchange quoted prices.

3. TAXATION

Deferred tax	(11)	794
Prior year overprovision		
- current tax	-	(605)
- deferred tax	-	(122)
	(11)	67

This represents the taxation charge of Durban Institute of Technology (Proprietary) Limited a wholly owned subsidiary of the Institute. The lower rate is due to certain allowances claimed for income tax purposes.

4. INVENTORIES

Stationery, technical inventories, study materials, cleaning materials, etc.	1 104	1 090
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Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
5. RECEIVABLES AND PREPAYMENTS		
Student loans		
- Non-interest bearing	7 535	7 547
Government subsidy	1 462	1 463
Loans to employees	4 708	5 053
Other receivables	1 614	2 252
Interest receivable	1 758	612
Student debtors	109 099	87 592
Provision for irrecoverable debts		
- student debtors	(88 531)	(75 974)
- other debtors	(11 504)	(11 681)
	26 141	16 857
6. CASH AND CASH EQUIVALENTS		
Cash at bank and on hand	150 060	63 999
7. INTEREST BEARING BORROWINGS		
Indebtedness:		
State guaranteed loans	26 218	27 665
Current portion	(755)	(1 437)
Non-current portion	25 463	26 228
The State guaranteed loans, the subsidies of which range between 50% and 85% reflect the balance owing on loans raised to finance the acquisition of property, plant and equipment. The loans are fully secured by guarantees issued by the state. The annual cost of interest and redemption, together with the state subsidy on these payments, are disclosed in the income statement. The state guaranteed loans bear interest which vary between 16.85% and 18.75%.		
8. PENSION AND OTHER POST RETIREMENT OBLIGATIONS		
Amounts recognised in the balance sheet		
Pension scheme	25 326	25 698
Post retirement medical benefits	64 966	55 392
	90 292	81 090
Pension obligations		
Fair value of plan assets	(448 083)	(227 343)
Fair value of plan obligation	473 409	253 041
	25 326	25 698
The amount recognised in the income statement is as follows:		
Interest cost	1 927	2 703
Net actuarial (gain)/loss recognised in the year	(349)	(2 818)
Total included in staff costs	1 578	(115)

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
8. PENSION AND OTHER POST RETIREMENT OBLIGATIONS		
(Continued)		
Movement in the liability recognised in the balance sheet		
At beginning of year	25 698	31 807
Total expenses as above	1 578	(115)
Contributions paid	(1 950)	-
At end of year	25 326	31 692
At 31 December 2005, 1 083 employees of the Durban Institute of Technology were members of The National Tertiary Retirement Fund and qualify for post retirement benefits. The National Tertiary Retirement Fund is funded by contributions from the employer.		
The principal actuarial assumptions used for accounting purposes were:		
Pension scheme		
Discount rate	7,5%	10,00%
Expected return on plan assets	7,5%	10,00%
Future salary increases	5,5%	6,00%
Future pension increases	1,5%	4,00%
Post retirement medical benefits	64 966	55 392
The amount recognised in the income statement is as follows:		
Current service cost	1 737	2 133
Interest cost	5 406	4 947
Net actuarial loss/(gain) recognised in the year	5 160	(2 770)
Total included in staff costs	12 303	4 310
Movement in the liability recognised in the balance sheet		
At beginning of year	55 392	54 432
Total expenses as above	12 303	4 310
Contributions paid	(2 729)	(3 350)
At end of year	64 966	55 392
The principal actuarial assumptions used for accounting purposes were:		
Discount rate	9,00%	10,00%
Healthcare inflation costs	6,34%	7,32%

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
9. TRADE AND OTHER PAYABLES		
Accounts payable	38 571	58 301
Deferred income	6 520	8 624
Student deposits	719	553
	45 810	67 478
10. PROVISIONS AND ACCRUALS		
Bonus and leave pay		
Opening balance	69 419	61 004
Provided during the year	13 927	14 035
Amounts utilised	(3 144)	(5 620)
Balance at end of year	80 202	69 419
Analysis of total provisions and accruals		
Non-current portion		
- Leave pay	70 270	55 552
Current portion		
- Leave pay	2 485	6 809
- Bonus	7 447	7 058
	9 932	13 867
	80 202	69 419
11. INVESTMENTS		
11.1 Investment income		
- Income from investments	5 000	2 561
- Interest received – call accounts	10 006	10 955
- Interest received – other	2 042	-
	17 048	13 516
11.2 Profit/(loss) on investments (Net)		
- profit on disposal	11 648	2 242
- loss on disposal	(973)	(968)
	10 675	1 274

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
12. STAFF COSTS		
Academic professional	187 204	174 109
Other personnel	124 387	121 027
Pension and other post retirement costs	46 790	41 144
Outsourced services (security and cleaning)	16 029	14 910
	374 410	351 190
Average number of persons employed during the year:	Number	Number
Academic	646	564
Non academic	785	797
	1 431	1 361
13. OTHER OPERATING EXPENSES		
The following items have been charged in arriving at operating deficit:		
Supplies and services	116 606	126 635
Bad debts	13 269	23 724
Repairs and maintenance	17 022	11 205
Depreciation	14 382	19 040
	161 279	180 604
Included in supplies and services are the following expenses :		
Fees paid to internal auditors	698	678
Auditors' remuneration		
- current provision	893	1 089
14. FINANCE COSTS		
Long-term borrowings	-	3 331
Bank borrowings	4 102	4 288
	4 102	7 619

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
15. MERGER SUBSIDY AND RELATED EXPENSES		
15.1 Merger subsidy		
Comprise:		
Reimbursement from the Department of Education	27 250	59 879
15.2 Merger related expenses		
Comprise :		
Relocation and reorganisation of academic and administrative activities, professional fees and other related costs	-	4 377
16. CHANGE IN ACCOUNTING POLICY		
In the prior year, the Institute changed its accounting policy with respect to the treatment of available-for-sale investments. Gains or losses are now recognised directly in equity, through the statement of funds rather than included in net surplus or loss for the period. The comparative amounts have been appropriately restated. The effect of this change is as follows:		
Reduction in net surplus due to gains now recognised in funds	-	13 834
Restatement of opening accumulated funds in respect of prior year adjustment	-	11 633
17. FINANCIAL INSTRUMENTS		
Credit risk		
Financial assets that potentially subject the Institute to concentrations of credit risk consist principally of cash and cash equivalents, non-current receivables and short term receivables.		
The Institute's cash equivalents are placed with high credit quality financial institutions. Receivables are presented net of the provision for doubtful receivables. Credit risks with respect to accounts receivable is limited due to the Institute's credit policies relating to student admissions.		
Fair Values		
The carrying values of cash receivables, short-term receivables, trade and other payables and short term borrowings approximate their fair values due to the short term maturities of these assets and liabilities.		
The fair values of long term receivables and long term liabilities are not significantly different from their carrying values. The carrying values of listed investments are adjusted to their fair value.		

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
18. CONTINGENT LIABILITIES		
18.1 Guarantees issued to the City Treasurer by the Institute's bankers.	795	795
18.2 Guarantees issued to third parties in respect of motor vehicle finance granted to employees.	280	1 075
18.3 Indumiso College of Education.		
The Department of Education handed over the Indumiso College of Education to the former Natal Technikon. The operation of this college has been incorporated into the Durban Institute of Technology subsequent to the merger. The land and buildings have been capitalised in the accounting records of the Institute at a value of R1 and no liability has been raised for the land and buildings.		
The Department of Education has not given an undertaking to indemnify the Institute against any liability in respect of land and buildings of this college or against any future claims or liabilities that may exist in respect of this college.		
The Department of Education is currently in the process of subdividing the property and transferring this property in the name of Durban Institute of Technology.		
18.4 Associated Institutions Pension Fund (AIPF)		
One hundred and thirty two members (2004 : 136) of the Institute are members of the Associated Institutions Pension Fund. In the event of the retrenchment of these employees, a deficit in their pension funding will arise. The quantification of any deficit is only possible if a decision to retrench these staff members is taken.		
18.5 As at 31 December 2005, the Institute was defending the following claims lodged by third parties:		
<ul style="list-style-type: none"> The estimated financial exposure to the Institute for charges disputed by suppliers and service providers, for work done, amounts to R2 086 000. The estimated financial exposure to the Institute for disputes relating to ex ML Sultan employees in respect of voluntary severance packages amounts to R892 371. 		
18.6 National Tertiary Retirement Fund		
The liability for the National Tertiary Retirement Fund does not include the effect of the changes in minimum benefits that was introduced from 1 January 2005. The minimum benefit requirement basically forces the fund to pay a minimum of the discounted value of the accrued deferred pension, calculated on a prescribed basis, to members who would have become entitled to guaranteed retirement benefits, upon leaving the fund prior to retirement. The trustees are, however, in the process of changing the rules in order to remove this liability. In addition, the employer did not enter into an agreement to fund this additional cost, and can only be forced to do so if the NTRF is liquidated. The amount of this contingent liability, as at 31 December 2005 amounts to R4 462 000.		

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
19. COMMITMENTS		
19.1 Capital commitments		
Capital expenditure contracted for at the balance sheet date but not recognised in the financial statements is as follows:		
Property, plant and equipment	-	7 691
19.2 Operating lease commitments		
The future minimum lease payments under operating leases are as follows:		
Not later than 1 year	3 170	1 702
Later than 1 year and not later than 5 years	12 080	3 790
20. NOTE TO THE CASH FLOW STATEMENT		
Reconciliation of net surplus before taxation to cash generated from operations		
Net surplus before taxation for the year	126 536	128 099
Adjustments for:		
Movement in provision for retirement benefits	9 202	(5 149)
Movement in provisions for leave and bonuses	10 783	2 715
Profit on disposal of investments	(10 675)	(1 274)
Depreciation	14 382	19 040
Profit on disposal of property, plant and equipment	-	89
Investment income	(17 048)	(13 516)
Interest expense	4 104	7 619
Operating surplus before working capital changes	137 284	137 623
Changes in working capital	(30 966)	23 396
- Receivables and prepayments	(9 283)	29 130
- Inventories	(15)	7
- Accounts payable and accruals	(21 668)	(5 741)
Cash generated from operations	106 318	161 019

Notes to the Consolidated Financial Statements (continued)

21. SENIOR MANAGEMENT COMPENSATION

The following disclosures relates to compensation paid to executive staff. Remuneration is based on the cost of employment to the Institution.

Annualised gross remuneration

Name	Office held	Aggregate amount R'000
Prof BC Goba (appointed 1 April 2005)	Vice Chancellor and Principal	1 059
Prof DJ Ncayiyana (contract expired on 31 March 2005)	Vice Chancellor and Principal	1 290
Mr M Madanjit (appointed 1 July 2004)	Deputy Vice Chancellor – Financial and Information Services	936
Prof D Lortan	Acting Deputy Vice Chancellor – Academic	914
		4 199
Executive Deans		
Dr KF Netshimbo	Executive Dean – Arts	682
Prof M Wallis	Executive Dean – Commerce	689
Prof NS Gwele (appointed 1 July 2005)	Executive Dean – Health Sciences	677
Prof S Singh	Executive Dean – Engineering and Science (Acting until 31 December 2005)	688
		2 736
Executive directors		
Ms N Mbadi	Executive Director – Public Affairs and Communication	717
Ms N Jappie	Executive Director – Student Services	799
Dr PH Ndlovu	Executive Director – Facilities Management	763
		2 279
Grand total		9 214

Payments for attendance at meeting of the Council and its Committees

To whom paid	No of members	Attendance at meetings aggregate amount paid R'000
Chair of Council	1	11
Chairs of Committees	9	18
Members of Committees	30	76

Notes to the Consolidated Financial Statements (continued)

	2005 R'000	2004 R '000
22. CHANGES IN FUNDS		
The Statement of Changes in Funds contains direct additions to and subtractions from equity that are not reflected in the Income Statement or are apparent elsewhere in the Financial Statements:		
Transfers – credit	58 511	21 268
Funds utilised or written off	73	748
Transfers – debit	58 511	21 268

23. POST BALANCE SHEET EVENTS

- 23.1 The institute changed its name to Durban University of Technology on 15 March 2006.
- 23.2 The Minister of Education disbanded the institute's council on 12 August 2006 and appointed Professor J Jansen as administrator.

Acknowledgements

This report was compiled by the
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