The 2000 University of Cape Town Research Report has been produced in the following seven volumes:

VOLUME 1: Introduction, and Centre for Higher Education Development

VOLUME 2: Faculty of Commerce

VOLUME 3: Faculty of Engineering and the Built Environment

VOLUME 4: Faculty of Health Sciences

VOLUME 5: Faculty of Humanities

VOLUME 6: Faculty of Law

VOLUME 7: Faculty of Science
University of Cape Town

RESEARCH REPORT

2000

Introduction and
The Centre for Higher Education Development

This report can also be found on UCT’s webpage:
http://www.uct.ac.za

Editor: Ms M. Ward
# CONTENTS

Introduction to 2000 Research Report  

**THE CENTRE FOR HIGHER EDUCATION DEVELOPMENT**

Dean’s Introduction  

Academic Development Programme  

Centre for Information Literacy  

Multimedia Education Group  

Professional Communication Unit
INTRODUCTION TO 2000 RESEARCH REPORT

This report details the research output and capacity of each department and Faculty at the University of Cape Town. The outputs show the diversity of expertise across campus as well as the global impact of research evidenced by the number of publications in peer-reviewed journals and international conference participation. Local impact can be seen through the various extension service projects which contribute to our community and the country’s needs. Detailed information of research highlights can be found in the individual Dean’s reports, outlining another successful year of research endeavour.

Several new appointments were made in 2000 to drive the university’s increasingly proactive role in research delivery. These included the filling of the post of Deputy Vice-Chancellor, Research and Innovation, as well as the appointment of two new directors in the Department of Research Development.

Funding continues to be an area of importance, with the Department of Research Development devoting much time to efforts focused on improving UCT’s funding pool. During 2000, research income (figure 1) shows a substantial increase from R139 million in 1999 to R187.1 million. This is made up of increases in both Gifts and Contracts, as well as Agency funding.

The increase reflected in Gifts and Contracts is derived from not only increased activity, but an improvement in UCT’s receipting of external funding and revenue allocation. The agency funding increase can in part be attributed to an additional amount of R7.9 million received from the Medical Research Council for new units, assistantship posts and several other large contracts. UCT’s internal funding sources have been divided to differentiate the University Research Committee and University Equipment Committee’s budgets separately as “General Operating Budget” sources.

Figure 2 reflects research income by source. It demonstrates the change in proportionality of different funding sources from 1999 to 2000.

Research expenditure by academic area (figure 3) shows an increase of expenditure across the board. This includes the increase of expenditure in the fields of Humanities, Law and Commerce (“Other”) to similar levels shown in 1998.

Dr S. Sibisi
Deputy Vice-Chancellor (Research and Innovation)
FIGURE 1 - RESEARCH INCOME

![Research Income Graph]

FIGURE 3 - RESEARCH EXPENDITURE BY ACADEMIC AREA

![Research Expenditure Graph]
FIGURE 2

2000 RESEARCH INCOME BY SOURCE

- GOVERNMENT RELATED GRANTS (R42.2m)
- UCT SOURCES - GOB (R11.8m)
- UCT INTERNAL REVENUE (R8.6m)
- GIFTS & CONTRACTS (R124.5m)

1999 RESEARCH INCOME BY SOURCE

- GOVERNMENT RELATED GRANTS (R29.1m)
- UCT SOURCES (R10.2m)
- GIFTS AND CONTRACTS (R99.7m)
The Centre for Higher Education Development
THE CENTRE FOR HIGHER EDUCATION DEVELOPMENT

The Vision of the Centre for Higher Education Development (CHED) is to be a cross-faculty unit that contributes to continual improvement in the quality of higher education through widening access, promoting excellence through equity, developing the curriculum in partnership with faculties, enhancing the competence of graduates by ensuring the provision of key skills and abilities, and enabling systemic improvement through the research-led development of informed policy options.

The Centre for Higher Education Development focuses on all matters concerning academic development. The Centre seeks to fulfil this brief by working within the broad field of institutional development, which includes higher education development. A major objective is the sustaining of institutional and educational development through research and the production of resources.

In pursuing this objective, the Centre is organised as a set of internal units, groups and projects, coordinated by the Dean of Higher Education Development. A newly-established component of CHED is the Centre for Information Literacy.

Units with research responsibilities are the Academic Development Programme, the Multimedia Education Group, the Centre for Information Literacy and the Professional Communication Unit. The research outputs of the Centre reflect the diversity of academic development in contemporary South Africa, and the potential contribution of this work to a wider domain than the university alone.

Professor M. Hall
Dean, Centre for Higher Education Development
ACADEMIC DEVELOPMENT PROGRAMME

DIRECTOR - Associate Professor Ian Scott

DEPARTMENTAL CONTACT DETAILS
Postal Address: Academic Development Programme
University of Cape Town
Private Bag
Rondebosch
7701
South Africa
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Fax: SA (21) 650-5045
e-mail: dreyer@humanities.uct.ac.za

DEPARTMENTAL PROFILE
Over the last few years the focus of the Academic Development Programme has changed from primarily providing direct assistance to individuals from educationally disadvantaged groups to efforts to improve the effectiveness of mainstream programmes in catering for student diversity. This involves such means as curriculum restructuring, integrating AD approaches into ‘mainstream’ courses and seeking to influence the practice of regular teaching staff. The research interests of ADP staff are, in the main, focused on understanding and improving key aspects of learning and teaching in Higher Education. Many ADP staff have a particular interest in the effects of prior educational disadvantage on student learning and the implications of these for curriculum development. In addition to educational research, some ADP staff do other discipline-related research that is reported in faculty research reports.

DEPARTMENTAL STATISTICS 2000

PERMANENT AND LONG TERM CONTRACT STAFF

<table>
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<th>Position</th>
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<td>Administrative and Clerical Staff</td>
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<td><strong>TOTAL</strong></td>
<td><strong>52</strong></td>
</tr>
</tbody>
</table>

RESEARCH FIELDS

Associate Professor Saalih Allie
Senior Lecturer; ADP Co-ordinator Faculty of Science; curriculum development; Physics Education research
Ms Arlene Archer
Lecturer; academic literacy; multiliteracies; visual literacy; writing across the curriculum; cultural studies

Ms Lynn Bowie
Lecturer; curriculum development; mathematics education research

Dr Andrew Buffler
Senior Lecturer, Faculty of Science; curriculum development; Physics Education research

Ms Jenni Case
Lecturer; Educational Development Officer, teaching, learning and assessment in higher education; women in engineering

Ms Stella Clark
Lecturer; language and access issues; language and curriculum development; literacy practices in education; teacher education

Ms Antoinette Cloete
Assistant Lecturer; Writing Centre consultant

Ms Linda Cooper
Senior Lecturer; Adult Learning. Project-based Learning

Ms Washiela Fish
Lecturer; AARP; maths test development; assessment

Ms Ramona Francis
Senior Lecturer; Coordinator GENSEC Business Science extended curriculum in Commerce Faculty

Ms Vera Frith
Lecturer; numeracy; computer-assisted-learning; multimedia materials development

Ms Catherine Gray
Assistant Lecturer; numeracy; test development

Ms Biddy Greene
Lecturer; mathematics; calculus reform; soft computing (neural networks and genetic algorithms); alternative admissions

Ms Nadia Hartman
Senior Lecturer; Interim Director: Education Development Unit in Health Science

Mr Carl Herman
Project Manager; Alternative Admissions Research Project

Ms Cathy Hutchings
Lecturer; academic literacy and academic cultures

Ms Salma Ismail
Lecturer - Adult Learning

Mr Jeff Jawitz
Senior Lecturer; Educational Development Officer; Co-ordinator of the Centre for Research in Engineering Education; Engineering Education; women in engineering; retention studies; evaluation

Mr Jean Jordaan
Lecturer; curriculum design and evaluation

Ms Rochelle Kapp
Lecturer; academic literacy; multi-lingualism; language learning in schools

Mr Mncedisi Mashigoane
Assistant Lecturer; ADP language development

Mr Rob Moore
Senior Lecturer; Assessment and Evaluation Project; assessment; institutional curriculum policy; science education

Ms Janice McMillan
Lecturer; Adult Learning

Mr Gideon Nomdo
Assistant Lecturer; academic literacy; language development

Dr Gudrun Oberprieler
Lecturer; computer literacy training; on-line training materials; computer-assisted learning and teaching; computer-assisted language learning (CALL)
Ms Moragh Paxton
Lecturer; student learning; economics education; assessment

Dr Howard Pearce
Senior Lecturer; Co-ordinator ASPECT; student learning; curriculum development

Mr Robert Prince
Senior Lecturer; Co-ordinator of Numeracy Centre

Dr June Pym
Senior Lecturer; ADP Coordinator Commerce; Curriculum Development

Mr Pierre Le Roux
Assistant Lecturer; ASPECT Maths Teaching

Associate Professor Ian Scott
Director ADP; higher education policy and funding; access programmes and policy; curriculum development; further education policy; organisational structures for educational development

Ms Suellen Shay
Senior Lecturer; Assessment and Evaluation Project; assessment in higher education

Mr Leonard Smith
Lecturer; Economics

Ms Fatima Slemming
Assistant Lecturer; Writing Centre consultant

Ms Lucia Thesen
Senior Lecturer; language and access issues in curriculum development; literacy practices in education; materials development

Dr Marian Tredoux
Senior Lecturer; ADP Geology

Mr Alvin Visser
Research Officer, Alternative Admissions Research Project; Assessment

Mr Digby Warren
Senior Lecturer; Education Development Officer - Faculty of Humanities; course design and curriculum development

Associate Professor Nan Yeld
Deputy Director ADP and Co-ordinator Alternative Admissions Research Project; access and admissions; language and general assessment; student learning

RESEARCH PAPERS AND REFEREED ARTICLES


CHAPTERS IN BOOKS


PUBLISHED CONFERENCE PROCEEDINGS

Oberprieler, G. 2000. Learning to Choose - Choosing to Learn: On-line Computer Literacy training as a Part of a Foundation Course Package for First Year Humanities Students. 25th International Conference on Improving University Learning and Teaching. Johann Wolfgang Goethe - Universität Frankfurt am Main, Germany, 168-174.

UNREFEREED CONFERENCE PROCEEDINGS


CONFERENCE ABSTRACTS


THESES AND DISSERTATIONS PASSED FOR HIGHER DEGREES


UNIVERSITY PUBLICATIONS AND WORKS OF A POPULAR NATURE


UNPUBLISHED RESEARCH/TECHNICAL/POLICY DOCUMENTS


CENTRE FOR INFORMATION LITERACY

HEAD OF DEPARTMENT - Professor P. G. Underwood

DEPARTMENTAL CONTACT DETAILS
Postal address: Chancellor Oppenheimer Building
University of Cape Town
Private Bag
Rondebosch
7701
South Africa
Telephone: SA (21) 650-3091
Fax: SA (21) 650-5045
e-mail: sol@education.uct.ac.za

DEPARTMENTAL PROFILE
The Centre, which is a new feature of the Higher Education Division established in January 2000, moved from the Education Building to Level 4 of the new Chancellor Oppenheimer Building. Its work consists of assisting in the development of information literacy throughout the University, liaising with the Library over the running of the new Knowledge Commons, developing a consultancy service for the use of personal bibliographic software and delivering the Library and Information Science Programme within Faculty of Humanities. The primary focus of the Centre for Information Literacy is on research and intervention through the inculcation of information literacy as a key life skill. Within the domain of its professional education programmes its emphasis is on information management: fundamental to both concerns is a recognition that access to information can empower people and guide the process of social transformation. The research activity of the Centre emphasises information needs analysis and information literacy in response to both staff interests and the transformation of society. Staff are also actively engaged through the INFOLIT project of the Adamastor Trust; Professor Underwood is seconded as Manager of the Project. In addition, consultancy is undertaken, largely concerned with information systems design and design of information literacy programmes. Work is also being done on library performance measurement and evaluation.

CENTRE STATISTICS

<table>
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<tr>
<th>PERMANENT AND LONG TERM CONTRACT STAFF</th>
<th>STUDENTS</th>
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<td>Professors 1</td>
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<td>Associate Professor 1</td>
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<td>TOTAL 5</td>
<td>Undergraduate 27</td>
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TOTAL 77
RESEARCH FIELDS

PERMANENT STAFF

Professor Peter G. Underwood
Head of Department; soft systems analysis; systems management; information systems design; change management; strategic management, information literacy

Dr Karin de Jager
Library performance measurement and evaluation; information literacy; databases

Associate Professor Mary Nassimbeni
Information society, information literacy; national library and information policy; audit of public/community libraries in South Africa

Mrs J. Gretchen Smith
Communication of information; information need and use; subject analysis and control; indexing, classification and thesaurus construction; knowledge management

DISTINGUISHED VISITORS

Dr Albert K. Boekhorst
Department of Information Studies, Universiteit van Amsterdam, Oude Turfmarkt 147, NL-1012 GC Amsterdam, The Netherlands

RESEARCH OUTPUTS

RESEARCH PAPERS AND REFEREED ARTICLES


PUBLISHED CONFERENCE PROCEEDINGS


CONFERENCE ABSTRACTS


THESES PASSED FOR HIGHER DEGREES


CONSULTANCY AND OTHER ACTIVITIES BASED ON EXPERTISE DEVELOPED IN RESEARCH

Nassimbeni, M.C. Member of the Department of Education/European Union Higher Education Libraries Programme Steering Committee. Member of the project management team of the National Inventory of Public and Community Libraries in South Africa, a project funded by Carnegie Corporation of New York.
Smith, J.G. DISSANET and PROLISSA Project. Team member.
Underwood, P.G. INFOLIT Project Manager for the Adamastor Trust (secondment).
Underwood, P.G. 2000. Information literacy in the academic setting of the University of Cape Town. Paper delivered at a seminar of staff of the Library of the University of Otago, Dunedin, New Zealand.
Underwood, P.G. 2000. The INFOLIT project as a collaborative venture. Paper delivered at a seminar of the staff of the libraries of the Tertiary Alliance, University of Waikato, New Zealand.
Underwood, P.G. 2000. Aspects of collaboration over the development of automated library systems. Paper delivered at a seminar of the staff of the libraries of the Tertiary Alliance, University of Waikato, New Zealand.
MULTIMEDIA EDUCATION GROUP

COORDINATOR – Laura Czerniewicz

CONTACT DETAILS
Postal Address: Multimedia Education Group
University of Cape Town
Private Bag
Rondebosch
7701
South Africa
Telephone: SA (21) 650-3841
Fax: SA (21) 650-5045
e-mail: srix@its.uct.ac.za

DEPARTMENTAL PROFILE
The Multimedia Education Group has been established to develop computer-based resources for integration into the mainstream curriculum, to evaluate the effectiveness and efficiency of the use of computer-based resources in higher education, and to conduct research into the uses of information technology in universities. The Multimedia Education Group is funded through a five-year grant from the Andrew W Mellon Foundation of New York.

DEPARTMENTAL STATISTICS

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RESEARCH FIELDS

Mr Tony Carr
Lecturer; on-line collaboration; use of interactive computer mediated approaches for teaching and learning within the commerce and economics-related disciplines

Ms Laura Czerniewicz
Co-ordinator and senior lecturer; learning models, policies; products

Mr Andrew Deacon
Multimedia Developer; learning environments; evaluation of interactive computer mediated approaches for teaching and learning

Ms Vera Frith
Lecturer; use of Excel as an online learning environment; effectiveness of interactive computer mediated approaches for teaching and learning quantitative literacy
Mr David Horwitz
Information Technology Officer; effective use of databases to support interactive computer mediated approaches for teaching and learning

Ms Maria Loopuyt
Multimedia Developer; effective use of databases to support interactive computer mediated approaches for teaching and learning Africa studies; potential of email; inter-institutional collaboration

Mr Raji Matshediso
Assistant Lecturer; effectiveness of interactive computer mediated approaches for teaching and learning in the humanities, especially sociology

Ms Marion Walton
Lecturer; web, academic and visual literacies; use of interactive computer mediated approaches for teaching and learning writing skills; media studies

Ms Fiona Wilson
Lecturer; use of interactive computer mediated approaches for teaching and learning, writing

RESEARCH PAPERS AND REFEREED ARTICLES


PUBLISHED CONFERENCE PROCEEDINGS


CONFERENCE ABSTRACTS


SOFTWARE PUBLICATIONS – MULTIMEDIA AND WEBSITE PROJECTS


Deacon, A. 2000. Online newspaper for the writing and editing in the Media course (ELL213F). (Public access is currently blocked to the online newspaper but information about the software environment created in Microsoft Office and FrontPage is available from: http://www.meg.uct.ac.za/downloads/Writing/newspaper.htm).
Walton, M. 2000. Networking: an introduction to web research:
   http://www.megweb.uct.ac.za/websearching/index.htm
Walton, M. 2000. Writing for the WWW: online web authoring and design resources:
   http://www.megweb.uct.ac.za/www/
PROFESSIONAL COMMUNICATION UNIT

DIRECTOR – Professor Martin Hall (Dean)

DEPARTMENTAL CONTACT DETAILS

Postal address: Professional Communication Unit
University of Cape Town
Room 13
Beattie Building
University Avenue
Private Bag
Rondebosch
7701
Telephone: SA (21) 650-3409
Fax: SA (21) 650-3408
Email: nkomol@humanities.uct.ac.za

DEPARTMENTAL PROFILE

The Professional Communication Unit is an interfaculty teaching unit that prepares students from different faculties and departments for the communication demands of their professions. The content of the sources may include oral, written or interpersonal aspects of communication and varies in the extent to which both applied theoretical aspects of communication are covered. The research emanating from the unit reflects the interests of the PCU in the communication challenges of the work place, and also a concern for wider social issues, which inevitably have a communication component.

DEPARTMENTAL STATISTICS 2000

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RESEARCH FIELDS

Jane English

development communication as applied to construction and civil engineering industries, and the effects of quality of communication on productivity at work sites; development of training programmes for tutors in Environment and Structure of business; use of language in industry (consultant to the journal SA Process Engineer); development of a newly conceived Professional Communication Unit Handbook (commissioned by Juta) as a prescribed text concentrating on professional communication in the engineering area
**Conference Abstracts**


**University Publications and Works of a Popular Nature**


**Consultancy and Other Activities Based on Expertise Developed in Research**


Grant, T. 2000. Adjudication/training with relevant notes/materi als for the South African Public Speaking Competition of the Guild of Speech and Drama Teachers; Forum Discussion Competition of the South African Council for English Education; Naval Officer Presentations: Staff College, Muizenberg.

Grant, T. 2000. Monitoring and co-ordinating the transfer of materials from the Scenario Learning Programme (teaching manual and exercises) for use on a teaching programme by Professor Holly Littlefield of the Carlson School of Management, University of Minneapolis.

Grant, T. 2000. Evaluation report on the Bachelor Degree of Applied Communication, at the invitation of Lynne Trenwith, Head, School of Communication Studies, Manukau Institute of Technology, Auckland, New Zealand, together with Professor Margaret McLaren of the Universiti Putra Malaysia.