Date: Wednesday, 22/02/2006
Time: 4:30 pm
Venue: Senate room, South Street Campus

AGENDA

1. MEMBERSHIP
2. APOLOGIES
3. DECLARATIONS OF INTEREST (SENATE STANDING ORDERS CLAUSE 4.2)

PART A - MAJOR ISSUES

4. DRAFT ANNUAL REPORT
5. ANNUAL REPORT ON THE UNIVERSITY ENVIRONMENT

PART B - OTHER ISSUES FOR DISCUSSION

6. VICE CHANCELLOR’S REPORT
7. SENATE PRIORITIES 2005
8. RATIFICATION OF STATUTE AMENDMENTS
9. AUQA AUDIT STATUS REPORT

PART C - OTHER ITEMS

10. CONFIRMATION OF PREVIOUS MINUTES
11. ACADEMIC COUNCIL
12. GOVERNANCE & NOMINATIONS COMMITTEE
13. LEGISLATION COMMITTEE
14. RESOURCES COMMITTEE
15. OFFICIAL SEAL
16. SENATE MEETING DATES 2006
17. MATTERS FOR INFORMATION

😊😊😊
Date: Wednesday, 22/02/2006  
Time: 4:30 pm  
Venue: Senate room, South Street Campus

Afternoon tea will be available in the foyer of the Senate Suite from 4pm. Would you kindly remember to wear your name badge?

After the meeting members are invited to have dinner at Club Murdoch.

If you will be unable to remain for dinner, would you please advise the Assistant University Secretary, Samantha Summerton, by phone as soon as possible, so we can finalise catering numbers? Her number is 9360 6333.

If any Senate member would like additional information on any agenda item, or has a motion or changes to recommendations which could be included in a supplementary agenda, please contact me as soon as possible via eMail to J.Pease@murdoch.edu.au.

The Chancellor has also requested that, if you intend to speak to a particular item (in particular any item included in Part C of the agenda), please let me know in advance. Where the item is in Part C, would you please also identify the specific item and provide brief details of the aspect(s) in respect of which you intend to speak? This will greatly facilitate the smooth running of the meeting.

JOHN PEASE  
GENERAL COUNSEL  
& UNIVERSITY SECRETARY  
14/02/2006

AGENDA

1. MEMBERSHIP
   1.1 A list of current Senate members is attached, together with an up to date attendance register.
   1.2 Details of current Senate committees and their members are attached and available at http://senate.murdoch.edu.au/committees/committee05.html.

2. APOLOGIES
   2.1 Nil.
   2.2 Any apologies received after circulation of the agenda will be reported to the meeting.

3. DECLARATIONS OF INTEREST
   Section 17A and Division 2 of Schedule 1 of the Murdoch University Act require all members of Senate who have a material personal interest in a matter being considered or about to be considered:
   (i) to declare the nature and extent of the interest; and
   (ii) not to be present during consideration of the matter, nor vote on it.
PART A - MAJOR ISSUES

4. DRAFT 2005 ANNUAL REPORT & FINANCIAL STATEMENTS

The Resources Committee reviewed the draft documents (attached) at its meeting on 13/02/2006 (refer to agenda item 14). The PVC (Corporate) and the Director, Financial Services will be available to answer any questions pertaining to these documents.

Senate needs to approve the documents and the related certification statement.

5. ANNUAL REPORT ON THE UNIVERSITY ENVIRONMENT

The Chair of the Environmental Committee will speak to the attached report.

PART B - OTHER ISSUES FOR DISCUSSION

6. VICE CHANCELLOR'S REPORT

The Vice Chancellor will speak to his report to Senate, a copy of which is attached.

7. SENATE PRIORITIES

By resolution S/23/2005, Senate adopted the following priorities for 2005, including the allocation of responsibility for preparing discussion papers:

- Maximising the University’s return on its assets, e.g. land, intellectual property by establishing an appropriate endowment/investment policy (Responsibility: Resources Committee and PVC (Corporate)).

- Engagement with external parties and the community, i.e. the extent to which members of Senate can support and promote the University through their external contacts and networks (Responsibility: Director of Development and Director Corporate & Public Relations).

- Identification of long-term goals for the University, including understanding the changing nature of higher education policy (Responsibility: PVC (Corporate) and PVC (Strategy)).

- Maintain the University’s compliance with the National Governance Protocols (Responsibility: Governance & Nominations Committee and General Counsel & University Secretary).

8. RATIFICATION OF STATUTE AMENDMENTS

On 22/11/2005 Senate approved amendments to Statute 17 – Guild of Students in the terms attached (changes marked up). Notice of the proposed amendments has been displayed at the University in accordance with paragraph 25(1)(b) of the Murdoch University Act.

Note: In accordance with section 25 of the Murdoch University Act, an absolute majority of Senate must ratify the amendment.

9. AUQA AUDIT STATUS REPORT

The PVC (Academic) will provide a brief update for Senate members in relation to preparations for the AUQA audit scheduled for 2006 (briefing paper attached).
Note: Whilst Senate agreed that the Vice Chancellor could approve the final version of the University's AUQA Performance Portfolio due to the tight timeframe within which it had to be submitted, due to an oversight Senate did not formally resolve as such. Senate needs to pass a resolution ratifying the Vice Chancellor’s action in this regard.

**PART C - OTHER ITEMS**

The Chancellor will put the following as a single item for noting and for the approval/acceptance of any recommendations contained in them. Members of Senate may request that any of these items to be reserved for discussion.

10. **CONFIRMATION OF PREVIOUS MINUTES**

10.1 Confirmation of the attached minutes of the meeting held on 13/12/2005.

10.2 Note the attached report of action on resolutions passed at the previous meeting.

11. **ACADEMIC COUNCIL**

The minutes of the Academic Council meeting held on 25/01/2006 are attached. Other than in relation to legislative matters, there are no recommendations to Senate.

Note: All legislative matters are dealt with under item 13 of the agenda (Legislation Committee).

12. **GOVERNANCE & NOMINATIONS COMMITTEE**

The minutes of the Governance & Nominations Committee meeting held on 14/02/2006 are attached. The following items contain recommendations to Senate:

GNC/01/2006 Recommended nominee to be co-opted as a member of Senate (subject to the Chancellor’s confirmation).

GNC/02/2006 Recommendation as to process for dealing with statutory amendments necessitated by the *Higher Education Support Amendment (Abolition of Compulsory Up-front Student Union Fees) Act 2005* (C’th).

GNC/03/2006 Recommendation as to change to standing orders.

13. **LEGISLATION COMMITTEE**

The minute of the Legislation Committee resolution by circulation dated 13/02/2006 is attached. The following items contain recommendations to Senate:

LC/01/2006 (i) Diploma Regulation 1(1)(b) (changes marked up attached)

(ii) Diploma Regulation 1(1)(c) (changes marked up attached)

(iii) Bachelor Degree Regulation 1 (1) (changes marked up attached)

(iv) Master by Coursework Degree Regulation 1(1) (changes marked up attached)

(v) Master by Coursework Degree Regulation 2(1) (changes
marked up attached)

(vi) Student Appeals Committee Regulation 4 (changes marked up attached)

(vii) Division Regulation 15(1) (changes marked up attached)

(viii) Statute 5-Academic Council (changes marked up attached)

Note: In accordance with section 25 of the Murdoch University Act, an absolute majority of Senate must approve the amendments to Statute no. 5.

14. RESOURCES COMMITTEE

The minutes of the Resources Committee meeting held on 13/02/2006 are attached. The following items contain recommendations to Senate:

RC/31/2006 Approval of the University’s financial statements for the year ended 31/12/2005 and authorisation of the Chancellor, Vice Chancellor and Chief Financial Officer to sign the certification of financial statements (see agenda item 4).

RC/32/2006 Approval of Veterinary Teaching Hospital the write-off of debts for the period to 31/12/2005.

RC/33/2006 (i) Subject to (ii), request Academic Council to report in accordance with clause 5 of Statute no. 21 (Affiliated Institutions) in relation to Murdoch Institute of Technology and Murdoch College.

(ii) Any grant of affiliated status to either or both of Murdoch Institute of Technology or Murdoch College will be subject to the following conditions:

(a) The grant of affiliated status will expire on 31/01/2011, or on expiry or earlier termination of the existing agreements between the University and each applicant, whichever occurs first.

(b) To the extent that either applicant in any way publishes or markets the fact that it holds affiliated status, it must comply with clauses 16.1, 16.2 and 16.3 of the feeder college agreement dated 03/08/2005 between the University and Catona Pty Ltd in terms of use of the University’s name, trade marks or other trade indicia.

RC/34/2006 Approval of the payments for the period 29/10/2005 to 01/12/2005 inclusive.

RC/35/2006 Approval of the University’s annual report for the year ended 31/12/2005 and authorisation of the Chancellor and Vice Chancellor to sign the statement of compliance (see agenda item 4).

RC/36/2006 Approve the key performance indicators for the year ended 31/12/2005 and authorisation of the Chancellor and Vice Chancellor to sign the certificate of performance indicators for inclusion in the 2005 annual report (see agenda item 4).

RC/37/2006 Approval for the University to use a fixed price negotiated building contract with a nominated builder, subject to probity and conflict of
interest measures being implemented and authorisation of the Vice Chancellor to execute a fixed price building contract.

15. OFFICIAL SEAL

In accordance with resolution S/54/2004, the General Counsel & University Secretary has provided a report detailing the documents to which the official seal has been affixed since the last Senate meeting.

16. SENATE MEETING DATES 2006

16.1 The Senate’s meeting dates for 2006 and respective closing dates for agenda items are attached.

16.2 Rather than the Senate holding one meeting at Rockingham and one in Mandurah each year, the Senate and Academic Council will alternate between each location each year.

In 2006 the Senate’s April meeting will be at Mandurah and the Academic Council’s March meeting will be at Rockingham. This will be reversed in 2007.

17. MATTERS FOR INFORMATION

A copy of any newspaper or other articles of relevance or interest are attached.
<table>
<thead>
<tr>
<th>CURRENT MEMBERS OF SENATE</th>
<th>Term expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emeritus Professor Geoffrey Bolton, Chancellor</td>
<td>24/11/2006</td>
</tr>
<tr>
<td>Prof John Yovich, Vice Chancellor</td>
<td>Ex officio</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>APPOINTED MEMBERS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alison Gaines</td>
<td>21/07/2008</td>
</tr>
<tr>
<td>Malcolm Macpherson</td>
<td>10/09/2006</td>
</tr>
<tr>
<td>Judge Kate O’Brien</td>
<td>15/05/2006</td>
</tr>
<tr>
<td>Terry Budge</td>
<td>31/05/2007</td>
</tr>
<tr>
<td>Garry Hunt</td>
<td>26/05/2007</td>
</tr>
<tr>
<td>Brian Aitken</td>
<td>27/08/2008</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CO-OPTED MEMBERS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Rt Hon Sir William Heseltine</td>
<td>24/07/2006</td>
</tr>
<tr>
<td>Richard Lester</td>
<td>22/05/2006</td>
</tr>
<tr>
<td>Vacant</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTED ACADEMIC STAFF</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Stuart Bradley</td>
<td>09/11/2008</td>
</tr>
<tr>
<td>Prof Nick Costa</td>
<td>25/09/2006</td>
</tr>
<tr>
<td>Assoc Prof Jim Macbeth</td>
<td>28/10/2007</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTED GENERAL STAFF</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Philip Hocking</td>
<td>21/04/2008</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTED CONVOCATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Janice Bowra</td>
<td>02/12/2008</td>
</tr>
<tr>
<td>Carolyn Jakobsen</td>
<td>31/12/2006</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTED STUDENTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Malcolm Bradley</td>
<td>31/12/2006</td>
</tr>
<tr>
<td>Gerry Georgatos</td>
<td>31/12/2006</td>
</tr>
</tbody>
</table>
SENATE COMMITTEES 2006-2009

Audit & Risk Management Committee
Chair
Sir William Heseltine
Members
Ms Janice Bowra
Judge Kate O’Brien
Mr Jamie Ogilvie*
Ms Beverley Schubert*
Mr Brian Aitken
Gerry Georgatos (observer status only)

Chancellor’s Committee
Chair
Chancellor
Members
Pro Chancellor
Ms Alison Gaines
Sir William Heseltine
Mr Malcolm Macpherson
Mr Terry Budge
Mr Garry Hunt

Environmental Committee
Chair
Mr Garry Hunt
Members
Vice Chancellor
Dr Martin Anda*
Professor Richard Hobbs*
Ms Carolyn Jakobsen
Professor Phil Jennings*
Dr Jim Macbeth
Mr Craig Spence*
Dr Melanie Strawbridge*
Environmental Science Student*

Governance & Nominations Committee
Chair
Chancellor
Members
Pro Chancellor
Vice Chancellor
Professor Nick Costa
Mr Terry Budge
Ms Alison Gaines
Ms Greta Vom Berg*  
Gerry Georgatos  
John Pease*  

Honorary Awards & Ceremonial Committee  
Chair: Chancellor  
Members: Pro Chancellor  
Vice Chancellor  
Mr Phillip Hocking  
Professor Nick Costa  
Professor Tom Lyons*  
Mr Malcolm Macpherson  
Professor Simone Volet*  
Gerry Georgatos  
Mr Nathan Giles*  

Legislation Committee  
Chair: Judge Kate O’Brien  
Members: Vice Chancellor  
Ms Janice Bowra  
Mr Mal Bradley  
Ms Alison Gaines  
Mr Gabriel Moens*  
Mr John Pease*  

Resources Committee  
Chair: Mr Terry Budge  
Members: Vice Chancellor  
Mr Phillip Hocking  
Professor Stuart Bradley  
Sir William Heseltine  
Mr Garry Hunt  
Mr Dick Lester  
Mr Bob Pett*  
Mr Gerry Georgatos  

* Recommended as co-opted, non-member of Senate for term commencing 01/01/2006 and term expiring on 31/12/2008  
z Recommended as co-opted, non-member of Senate with term commencing 01/01/2006 and term expiring 31/12/2006
In 2005 the members of the Environment Committee have focused on the key programmes of Energy, Waste, Water, the Built Environment, and the Natural Environment. In addition, one of the Committee’s other major activities included assisting with the master planning process. Furthermore, the Committee has been briefed on issues arising from developments such as the forthcoming expansion of the Perth railway network, the construction of new health care facilities near Murdoch campuses and other non-University developments on University land (such as the Department of Agriculture relocation).

Also, additional attention was directed at both the natural environment and water management. With the release of the proposed “Beeliar Regional Park Management Plan” and after considering the document, the Committee has indicated that it supports the Park’s new Management Plan. Further, the University’s long-term water management continues to be an area of strategic importance for the Committee.

Furthermore, the Committee completed an internal review and gained Senate endorsement to adjust its activities to better reflect the findings of that internal review process. Specifically, this directed the Committee’s attention to a set of identified priorities for 2005.

Nevertheless, the environmental programmes have been losing momentum during 2005, as the University’s roles of environmental and energy management still require effective staffing. This is seen as a priority by several members of the Committee. These portfolios will be staffed in early 2006 by the new Environmental Managers role which combines most of the activities of both portfolios.

Where possible, this report includes key performance indicators specific to each area of management.

**Energy**
- The University has used the Greenhouse Challenge programme as a framework to guide its energy conservation and greenhouse gas abatement activities. Examples of these activities include:
  - A roll out of energy efficient lighting across the University
  - Plant and machinery improvements, such as installation of variable motor and valve units

**Waste**
- Subsequent to waste management initiatives in previous years, the University is reviewing its requirements with regard to all its waste services to determine a service mix that provides more sustainable outcomes.

**Water**
- A reduction in groundwater abstraction during 2005 has been a positive indication of some water use improvements. Over the longer-term the aim is to have an Integrated Water Strategy (IWS) for the South Street campus.

**Built Environment**
- The University is reviewing documents with an aim to develop a framework for delivering improvements to the built environment. The system for delivering a more sustainable Built Environment to the University will include:
  - Sustainable building guidelines
  - A sustainable building design consultant panel for use by prospective project managers
  - Building performance monitoring systems
  - Energy performance and life-cycle assessment systems

That said, the real work of formalising these systems and incorporating them into the University’s activities is the task ahead.

**Natural Environment**
- This year the Beeliar Regional Park Management Plan 2005 – 2014 reached its formal endorsement phase. With the finalisation of the public document, the University will be moving to adjust its bushland management practices to reflect those of the Regional Park. The establishment of a Bushcare programme in coordination with student organisations and the Guild, is an aim for 2006.

Murdoch University continues to strive for environmental improvement. Nevertheless, a considerable amount of further work in all the environmental programme areas will be required before the University can claim to have effectively managed all of its environmental impacts.
PART ONE – Introduction

During 2005 the Environmental Committee has continued its work in furthering environmental awareness and improving the University’s environmental management.

The environmental management of the University’s campuses is coordinated by the Office of Commercial Services (OCS) in close association with the Environmental Committee and its subcommittees. Additionally, useful input has been received from academic and general staff, students and their representatives, consultants and other stakeholders.

The Environmental Committee and the subcommittees have developed environmental policies, relevant to the situation and function of the University and its development. The environmental policies include the:

- Biodiversity Policy;
- Energy Conservation and Supply Policy;
- Environmental Design Building Policy;
- Resource Recovery Policy;
- Water Conservation and Waste Water Reuse Policy;
- Water Sensitive Stormwater Policy; and the
- Environmental Policy.

Note: All of which are available on the internet at: <http://www.murdoch.edu.au/ofm/policies/policies.html>

The environmental policies will form the foundation for the development of a comprehensive Environmental Management System for all three Murdoch University campuses. The aim is to have this system in place by 2007/2008. The University’s Environmental Management System will include:

- Policies as guidance documents;
- Associated strategies or action plans for reducing the University’s environmental impacts; and
- Systems for monitoring, reviewing and reporting that track the outcomes of the University’s environmental initiatives and indicate the University’s overall environmental performance.

The Environmental Committee has continued to seek avenues for the core business of teaching and research to engage with the University’s operational aspects. The inclusion of the Murdoch campus wetlands into the Belliar Regional Park is an apt example of this. The aim is for future student projects to provide monitoring and management information that will assist the University with bushland management.

Also in 2005, the Committee completed an internal review and gained Senate endorsement to adjust its activities to better reflect the findings of that internal review process.

Publications on the higher education sector indicate added benefit can be gained when environmental management is woven into the traditional activities of an institution. This is an appealing idea, yet broader implementation will require further efforts over the coming years. Murdoch University’s support of these endeavours derives from an appreciation of the increasing role that sustainability planning and environmental management have been playing both nationally and internationally.
PART TWO – Key Performance Indicators (KPIs), Reporting & Benchmarking

Where possible, environmental performance indicators are used in this report to provide quantitative comparative environmental information. The areas of focus for environmental KPIs and any existing KPIs used in this report are indicated in Table 1 below.

<table>
<thead>
<tr>
<th>Category of KPI</th>
<th>Description of KPI</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Population</td>
<td>Gross Floor Area (GFA) per EFTSU</td>
<td>m² / EFTSU</td>
</tr>
<tr>
<td>Greenhouse Gas Production</td>
<td>Annual Greenhouse gas equivalents per unit GFA</td>
<td>kgCO₂e / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Greenhouse gas equivalents per EFTSU</td>
<td>kgCO₂e / EFTSU</td>
</tr>
<tr>
<td>Energy Use</td>
<td>Annual Electricity use per unit GFA</td>
<td>GJ / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Electricity cost per unit GFA</td>
<td>$ / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Gas use per unit GFA</td>
<td>GJ / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Gas cost per unit GFA</td>
<td>$ / m²</td>
</tr>
<tr>
<td>Waste Generation</td>
<td>Annual Waste Service Capacity per unit GFA</td>
<td>m³ / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Waste Service Capacity per EFTSU</td>
<td>m³ / EFTSU</td>
</tr>
<tr>
<td></td>
<td>Capacity Ratio of Recycling to Waste</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>Annual Cost per unit GFA</td>
<td>$ / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Cost per EFTSU</td>
<td>$ / EFTSU</td>
</tr>
<tr>
<td>Water &amp; Wastewater Flows</td>
<td>Annual Water use per unit GFA</td>
<td>kL / m²</td>
</tr>
<tr>
<td></td>
<td>Annual Water use per EFTSU</td>
<td>kL / EFTSU</td>
</tr>
<tr>
<td></td>
<td>Annual Total water services cost per unit GFA</td>
<td>$ / m²</td>
</tr>
<tr>
<td>Built Environment Efficiency</td>
<td>Ratio of UFA to GFA</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>Usable Floor Area per EFTSU</td>
<td>m² / EFTSU</td>
</tr>
</tbody>
</table>

| EFTSU=Equivalent Full Time Student Unit    | UFA=Usable Floor Area                                  | GFA=Gross Floor Area         |

Environmental Indicators allow benchmarking against past trends and where possible against other campuses or businesses. As environmental monitoring and sustainability assessment are further explored, additional KPIs will be utilised in future reporting systems to convey specific information that assists the determination of the University’s sustainability. Data and KPIs in this report have been sourced from the Tertiary Education Facilities Management Association (TEFMA) benchmark reports, and Murdoch University data.

Some fundamental statistics for Murdoch University’s Rockingham and Murdoch campuses are given in Table 2.

<table>
<thead>
<tr>
<th>Campus &amp; Year</th>
<th>Gross Floor Area m²</th>
<th>Effective Fulltime Student Units</th>
<th>Gross Floor Area per EFTSU m² / EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>111,037</td>
<td>7,994</td>
<td>13.9</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>109,552</td>
<td>8,245</td>
<td>13.3</td>
</tr>
<tr>
<td>Murdoch 2002</td>
<td>109,180</td>
<td>8,076</td>
<td>13.5</td>
</tr>
<tr>
<td>Murdoch 2001</td>
<td>109,451</td>
<td>7,773</td>
<td>14.1</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>9,058</td>
<td>655</td>
<td>13.8</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>9,058</td>
<td>622</td>
<td>14.6</td>
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<tr>
<td>Rockingham 2002</td>
<td>9,058</td>
<td>490</td>
<td>18.5</td>
</tr>
<tr>
<td>Rockingham 2001</td>
<td>9,058</td>
<td>395</td>
<td>22.9</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; Source: TEFMA data
Energy Condition
Both Murdoch University campuses purchase energy from the major suppliers of electricity and gas servicing the Perth metropolitan area. A small amount of renewable energy is generated on campus for research, teaching and display purposes, within the Environmental Technology Centre (ETC) and the Research Institute for Sustainable Energy (RISE) complexes. The ETC provides the best example on campus of an integrated system with renewable energy generation systems and low energy use design within the built environment.

As a member of the Federal Government’s Greenhouse Challenge Programme, the University reports on energy usage as well as waste and transport contributions to the emissions of greenhouse gases. It is reported under the Energy section, because most of the associated reform activities have related to energy use.

Based on an independent consultant’s Greenhouse Challenge Site Assessment for the Murdoch and the Rockingham campuses for 2003 and 2004, the values for key environmental indicators of greenhouse impact were determined (Table 3).

<table>
<thead>
<tr>
<th>Campus &amp; Year</th>
<th>Net Emissions of Greenhouse gas equivalents</th>
<th>Greenhouse gas equivalents per unit GFA</th>
<th>Greenhouse gas equivalents per EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>≈ 25,353</td>
<td>≈ 228</td>
<td>≈ 3,172</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>≈ 23,030</td>
<td>≈ 210</td>
<td>≈ 2,793</td>
</tr>
<tr>
<td>Murdoch 2002</td>
<td>≈ 23,000</td>
<td>≈ 211</td>
<td>≈ 2,850</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>≈ 1,213</td>
<td>≈ 134</td>
<td>≈ 1,851</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>≈ 1,322</td>
<td>≈ 146</td>
<td>≈ 2,125</td>
</tr>
<tr>
<td>Rockingham 2002</td>
<td>≈ 1,335</td>
<td>≈ 147</td>
<td>≈ 2,724</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; GFA=Gross Floor Area; Source: TEFMA data & Alberfield Pty Ltd

The figures in Table 3 are comparable with emissions from other tertiary institutions in the Greenhouse Challenge programme. Nevertheless, Murdoch University will need to improve its energy conservation, increase its use of renewable energy sources and implement additional greenhouse gas abatement measures in the future to maintain a favourable position within the Greenhouse Challenge programme. The significant increase in CO₂ emissions in 2004 related to a recalculation of the quantity of waste leaving campus and its impact. This figure needs to be confirmed.

Electricity usage has been increasing marginally at the South Street campus since 2001, while it has been declining at the Rockingham campus during the same period. The usage and cost per unit GFA and EFTSU at the Murdoch campus has remained relatively stable since 2001, while the Rockingham campus has experienced a pattern of improvement in usage and cost per GFA and EFTSU since 2001 (Table 4). Electricity costs for both campuses declined in 2004 (Table 4).

<table>
<thead>
<tr>
<th>Campus &amp; Year</th>
<th>Annual Electricity Usage</th>
<th>Annual Electricity Usage per unit GFA</th>
<th>Annual Electricity Usage per EFTSU</th>
<th>Annual Total Electricity Cost</th>
<th>Annual Electricity Cost per unit GFA</th>
<th>Annual Electricity Cost per EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>70,749</td>
<td>0.64</td>
<td>8.85</td>
<td>1,770,842</td>
<td>15.95</td>
<td>221.52</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>68,592</td>
<td>0.63</td>
<td>8.32</td>
<td>1,895,194</td>
<td>17.30</td>
<td>229.86</td>
</tr>
<tr>
<td>Murdoch 2002</td>
<td>67,645</td>
<td>0.62</td>
<td>8.38</td>
<td>1,751,641</td>
<td>16.04</td>
<td>216.89</td>
</tr>
<tr>
<td>Murdoch 2001</td>
<td>67,283</td>
<td>0.61</td>
<td>8.66</td>
<td>1,727,564</td>
<td>15.78</td>
<td>222.25</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>3,758</td>
<td>0.41</td>
<td>5.74</td>
<td>134,115</td>
<td>14.81</td>
<td>204.76</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>3,877</td>
<td>0.43</td>
<td>6.23</td>
<td>145,510</td>
<td>16.06</td>
<td>233.94</td>
</tr>
<tr>
<td>Rockingham 2002</td>
<td>3,899</td>
<td>0.43</td>
<td>7.96</td>
<td>144,533</td>
<td>15.96</td>
<td>294.97</td>
</tr>
<tr>
<td>Rockingham 2001</td>
<td>4,230</td>
<td>0.47</td>
<td>10.71</td>
<td>154,987</td>
<td>17.11</td>
<td>392.37</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; GFA=Gross Floor Area; Source: OCS (Murdoch) & TEFMA data
In Table 5 a noticeable drop in the annual cost of gas since 2001 is evident. This relates to a change in contractual arrangements that produced financial savings since 2001. Gas usage at the Murdoch campus has been relatively stable since 2002, while the cost of gas has fluctuated over the same period. The usage and cost of gas at the Rockingham campus has been declining since 2001 (Table 5).

Table 5. Gas consumption for both Murdoch University campuses for 2001, 2002, 2003 and 2004

<table>
<thead>
<tr>
<th>Campus &amp; Year</th>
<th>Annual Gas Usage</th>
<th>Annual Gas Usage per unit GFA</th>
<th>Annual Gas Usage per EFTSU*</th>
<th>Annual Total Gas Cost</th>
<th>Annual Gas Cost per unit GFA</th>
<th>Annual Gas Cost per EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>22,129</td>
<td>0.20</td>
<td>2.77</td>
<td>129,100</td>
<td>1.16</td>
<td>16.15</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>22,664</td>
<td>0.21</td>
<td>2.71</td>
<td>108,681</td>
<td>0.99</td>
<td>13.18</td>
</tr>
<tr>
<td>Murdoch 2002</td>
<td>22,517</td>
<td>0.21</td>
<td>2.79</td>
<td>179,008</td>
<td>1.64</td>
<td>22.17</td>
</tr>
<tr>
<td>Murdoch 2001</td>
<td>24,880</td>
<td>0.23</td>
<td>3.20</td>
<td>304,092</td>
<td>2.78</td>
<td>39.12</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>1,620</td>
<td>0.18</td>
<td>2.47</td>
<td>17,214</td>
<td>1.90</td>
<td>26.28</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>1,664</td>
<td>0.18</td>
<td>2.68</td>
<td>19,289</td>
<td>2.13</td>
<td>31.01</td>
</tr>
<tr>
<td>Rockingham 2002</td>
<td>1,920</td>
<td>0.21</td>
<td>3.92</td>
<td>23,708</td>
<td>2.62</td>
<td>48.38</td>
</tr>
<tr>
<td>Rockingham 2001</td>
<td>2,225</td>
<td>0.25</td>
<td>5.63</td>
<td>29,597</td>
<td>3.27</td>
<td>74.93</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; GFA=Gross Floor Area  
Source: Policy & Planning, OCS (Murdoch) & TEFMA data

Pressure

As a peak organisation within the wider community and as a member of the Greenhouse Challenge Programme, the University will need to keep its energy usage and greenhouse gas abatement endeavours regularly reviewed. Given the continued expansion of the University, energy consumption increases will need to be monitored and managed.

As stated in previous reports, awareness among staff and students about the effect of an individual’s energy usage will be an issue that requires ongoing focus. Currently costs are not borne directly by the groups of users that consume energy, and if those user groups do not benefit from savings, appropriate management of energy use may not occur.

Additionally, implementation of energy efficient technologies and design usually incurs increased capital outlay and often involves payback periods that extend beyond the current financial year. This creates a perceived tension between catering for the core business requirements of the institution and implementation of energy efficient systems. Hence, identification of mechanisms for resourcing both types of activities while avoiding disharmony between immediate requirements and the long-term sustainability of the University will be a continuing challenge.

Response

The University is using the Greenhouse Challenge Programme as a framework to guide energy conservation and greenhouse gas reduction activities for all its campuses, examples of which are outlined below.

The University has been conducting a number of audits of energy and water usage, and waste generation, utilising both in-house expertise and external consultants, to gain data for benchmarking performance over time and for comparing Murdoch University with other similar organisations and institutions. Also a review of monitoring and control technology has been conducted with the intention of assisting utilities management in future as opportunities for their use arise. Further, ongoing energy savings, delivered through the appropriate replacement, upgrading and maintenance of plant and machinery has been occurring when appropriate.

However, this program has been losing momentum, as the University’s energy management role needs staffing (which is due to be addressed in early 2006). The University is currently behind on its targets for key energy efficiency measures in its Greenhouse Challenge Agreement with the Commonwealth.
Waste

Condition

In 2003, as part of the University’s Resource Recovery Strategy (RRS), the composition of waste was determined by conducting a University wide waste audit (Table 6).

Table 6. Waste composition figures for Murdoch University campuses

<table>
<thead>
<tr>
<th>Waste Sector</th>
<th>Location</th>
<th>Recyclable</th>
<th>Compostable</th>
<th>Residue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Waste</td>
<td>South Street</td>
<td>56% ± 11.1%</td>
<td>20% ± 6.5%</td>
<td>24% ± 7.0%</td>
</tr>
<tr>
<td>General Bin Waste</td>
<td>South Street</td>
<td>22% ± 6.8%</td>
<td>52% ± 9.3%</td>
<td>26% ± 4.2%</td>
</tr>
<tr>
<td>Kitchen Waste</td>
<td>South Street</td>
<td>5% ± 2.9%</td>
<td>82% ± 2.8%</td>
<td>13% ± 0.1%</td>
</tr>
<tr>
<td>Dining Waste</td>
<td>South Street</td>
<td>34% ± 6.5%</td>
<td>45% ± 5.5%</td>
<td>21% ± 3.2%</td>
</tr>
<tr>
<td>Kitchen &amp; Dining Mixed</td>
<td>South Street</td>
<td>51% ± 19.5%</td>
<td>35% ± 14.9%</td>
<td>14% ± 5.0%</td>
</tr>
<tr>
<td>Recycling</td>
<td>South Street</td>
<td>94% ± 3.9%</td>
<td>2% ± 1.6%</td>
<td>4% ± 2.6%</td>
</tr>
<tr>
<td>General Bin Waste</td>
<td>Rockingham</td>
<td>50% ± 8.3%</td>
<td>35% ± 9.5%</td>
<td>15% ± 6.4%</td>
</tr>
</tbody>
</table>

Source: COWM (Murdoch) data

Since the initiation of the RRS, the collection of separated paper & cardboard and recyclables have been activities that have been monitored and adjusted across the University. Also additional volumetric waste generation audits have occurred to assist with optimising the waste removal scheduling.

The volumetric capacity for removal of solid waste in bulk bins from the South Street campus in 2004 was estimated to be 6928 m$^3$ (Table 7). Assuming 125kg per cubic metre for the bulk density of the waste and an average fill rate for bulk bins of 75%, the mass of solid waste generated by the campus would be approximately 650 tonnes per year. For the Rockingham campus under the assumptions of 175kg per cubic metre for the bulk density of the waste and an average fill rate for bulk bins of 80% (due to different management), the 234 of waste would m$^3$ equate to approximately 33 tonnes per year.

Table 7. Annual Solid Waste Service Figures for 2004 and 2003

<table>
<thead>
<tr>
<th>Campus</th>
<th>Waste Service Volume Capacity</th>
<th>Recycling Service Volume Capacity</th>
<th>Total Service Cost</th>
<th>Capacity Ratio of Recycling to Waste</th>
<th>Waste Service Capacity per unit GFA</th>
<th>Waste Service Capacity per EFTSU</th>
<th>Cost per unit GFA</th>
<th>Cost per EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>6928</td>
<td>3570</td>
<td>67,775</td>
<td>52</td>
<td>0.06</td>
<td>0.87</td>
<td>0.61</td>
<td>8.48</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>6375</td>
<td>3570</td>
<td>57,755</td>
<td>56</td>
<td>0.06</td>
<td>0.77</td>
<td>0.53</td>
<td>7.00</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>234</td>
<td>137</td>
<td>8,500</td>
<td>59</td>
<td>0.03</td>
<td>0.36</td>
<td>0.94</td>
<td>12.98</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>234</td>
<td>137</td>
<td>8,500</td>
<td>59</td>
<td>0.03</td>
<td>0.38</td>
<td>0.94</td>
<td>13.67</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; GFA=Gross Floor Area  
Source: Policy & Planning, OCS (Murdoch) & TEFMA data

The University is still reviewing its requirements with regards to waste services provision to determine a service mix that provides more sustainable outcomes over the longer-term. The ratio of recycling to waste service capacity provides an initial indication of possible efficiency. It should be noted that these are capacity figures not actual volumes. A significant part of the South Street campus recycling capacity is the cardboard recycling service, which accounts for a significant proportion of the 3570 m$^3$ of capacity and which has a highly variable fill rate. This may be distorting the South Street campus recycling to waste ratio. The Rockingham recycling system uses a different method which should produce more consistent reporting data.

Pressure

Future increases in the number of students at Murdoch and an increase in commercial and recreational activities on the campus are likely to increase the quantities of waste leaving the University. This in turn coupled with the longer-term reduction in low cost waste disposal options will drive the university’s waste management costs up.

Further waste auditing, data analysis and automation of data gathering would improve the information resources that the University uses to improve its waste management and environmental impacts.
Response
The activities associated with the Resource Recovery Strategy will gain momentum again with the staffing of the environmental management role.

Additional features will be incorporated into the RRS, as the University determines various options are viable. Some features under consideration include:

- Automated waste generation auditing as waste trucks collect waste
- Better mix of services to achieve higher recycling rates
- Choice of the waste destination (such as composting facility or landfill with gas extraction)

The commissioning of a medium scale composting facility at the South Street campus has been delayed in 2005. The aim is to recommence the project in 2006.

Additionally, waste auditing activities will continue at both campuses into the future to assess waste composition and generation, as well as identifying any positive effects of the Resource Recovery Strategy.

Water Condition
During 2005 there have been several improvements to the University’s water management. Nevertheless, some aspects of the University’s mains and irrigation infrastructure continue to be a management challenge. Mains water is used internally in kitchens, toilets, and laboratories, for watering animals and in a small proportion of the University’s garden areas. Additionally, mains water is used domestically in the Student Village and at St Ives Murdoch. The mains water usage and the sewer charges for both campuses for 2001, 2002, 2003 and 2004 are shown in Table 8.


<table>
<thead>
<tr>
<th>Campus &amp; Year</th>
<th>Annual Water Usage</th>
<th>Annual Water Usage per m²</th>
<th>Annual Water Usage per EFTSU*</th>
<th>Annual Water Usage &amp; Sewer Cost (U&amp;S)</th>
<th>Water U&amp;S Costs per Unit GFA</th>
<th>Water U&amp;S Costs per EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>212,703</td>
<td>1.92</td>
<td>26.61</td>
<td>448,609</td>
<td>4.04</td>
<td>56.12</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>176,957</td>
<td>1.62</td>
<td>21.46</td>
<td>297,892</td>
<td>2.72</td>
<td>36.13</td>
</tr>
<tr>
<td>Murdoch 2002</td>
<td>177,959</td>
<td>1.63</td>
<td>22.04</td>
<td>293,946</td>
<td>2.69</td>
<td>36.40</td>
</tr>
<tr>
<td>Murdoch 2001</td>
<td>200,777</td>
<td>1.83</td>
<td>25.83</td>
<td>320,651</td>
<td>2.93</td>
<td>41.25</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>3,600</td>
<td>0.40</td>
<td>5.50</td>
<td>8,108</td>
<td>0.90</td>
<td>12.38</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>6,100</td>
<td>0.67</td>
<td>9.81</td>
<td>12,942</td>
<td>1.43</td>
<td>20.81</td>
</tr>
<tr>
<td>Rockingham 2002</td>
<td>5,362</td>
<td>0.59</td>
<td>10.94</td>
<td>10,674</td>
<td>1.12</td>
<td>21.78</td>
</tr>
<tr>
<td>Rockingham 2001</td>
<td>5,423</td>
<td>0.60</td>
<td>13.73</td>
<td>10,306</td>
<td>1.14</td>
<td>26.09</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; GFA=Gross Floor Area  
Source: TEFMA, Water Corp & OCS data

In 2004, water use at the Murdoch campus increased by approximately 35,000 kL. Consequently this increased water usage costs. However, water costs also increased further as a result of substantial increases in sewer charges. Rockingham campus water use meters are read twice a year, hence Rockingham figures are estimates. In 2004, at the Rockingham campus, there was a substantial drop in usage and consequently costs associated with water usage.

Irrigation water for Murdoch University’s South Street campus is provided by seven licensed ground water abstraction bores. The University is required to keep its groundwater abstraction below 439,000 kilolitres per annum (its ground water abstraction licence limit). During 2004 the University exceeded its abstraction limit by more that the expectations of management. During 2005 the situation has improved.

As of the start of November 2005 the University has used approximately 56.5% of its yearly groundwater abstraction allocation. Given this figure and continued good management, it is highly likely that the annual abstraction will fall within the licence limit for 2005. This is partially due to the diligence of the water managers on campus and partially due to favourable climatic conditions. However, over the
longer term the current system and management is unlikely to meet the University’s irrigation requirements. The University has approached the Department of Environment on this matter with an aim to identify ways to reduce its groundwater abstraction.

**Pressure**
While keeping the development of the University’s campuses in mind, the use of mains and ground water needs to be managed with the dynamics of medium and long-term climatic cycles for Perth. Any consistent drying trends are likely to eventually increase the cost of water as well as increase restrictions on scheme and ground water usage, while the growth of the University is likely to increase usage.

Given, water charges will continue to rise, efforts towards water conservation and reuse are likely to provide multiple cost savings. Firstly savings would occur directly from lower usage, while additional savings would be produced on sewer charges.

At present, capture and use of rainwater across the Murdoch campus is limited until suitable systems can be developed that effectively manage asbestos fibres from roof areas which are yet to be replaced.

Groundwater is currently only used for irrigation. One pressure on this resource is the maintenance of grass in a suitable condition for sporting, recreation and pasture. An ongoing issue with iron bacteria infection of irrigation infrastructure such as bores, pumps and distribution networks, continues to cause increased costs and a reduction in the efficiency of the irrigation system.

**Response**
Where appropriate, fixtures that improve water conservation have been used for ongoing maintenance, refurbishment and in new facilities.

Additionally, the University has been retiring non-essential lawn areas and replanting them with endemic species that require less water.

So far this year’s groundwater abstraction level and the continued appropriate management are likely to allow the University to meet its licence conditions for 2005. However, in the medium term, the University will need to consider a range of strategies to reduce its groundwater abstraction significantly.

Also University has been developing an Integrated Water Strategy to organise information gathering, analysis of data, and development of strategic options that can form the basis of a long-term appropriate water strategy and management plan. However little progress was made during 2005 with this project and it will need to be given a higher priority in 2006.

**Built Environment**

**Condition**
Most of the teaching and office buildings at Murdoch University have some external environmental design considerations, however factors such as passive solar design, energy efficiency, embodied energy and materials use have until recently been secondary factors.

Asbestos roofing remains a threat to environmental health and a constraint to the application of water harvesting and other sustainability technologies or the retrofitting of buildings.

Two possible efficiency measures for the Built Environment are the Usable Floor Area (UFA) to Gross Floor Area (GFA) ratio and the UFA per EFTSU (**Table 9**). Efficient space planning is inherently more sustainable when coupled with delivering value to occupants in the form of thermal comfort, enough ancillary spaces and good general ergonomics. This is due to reduce materials usage in construction and optimisation of utilities delivery during the life of the building. These measures will be helpful to assess built Environment efficiency, until further additional measures are identified.
Table 9. Ratio of UFA to GFA and the UFA per EFTSU for 2002, 2003 and 2004 at both campuses

<table>
<thead>
<tr>
<th>Campus &amp; Year</th>
<th>Ratio of UFA to GFA</th>
<th>UFA per EFTSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murdoch 2004</td>
<td>66.8</td>
<td>9.14</td>
</tr>
<tr>
<td>Murdoch 2003</td>
<td>66.7</td>
<td>8.86</td>
</tr>
<tr>
<td>Murdoch 2002</td>
<td>66.4</td>
<td>8.98</td>
</tr>
<tr>
<td>Rockingham 2004</td>
<td>61.6</td>
<td>8.52</td>
</tr>
<tr>
<td>Rockingham 2003</td>
<td>61.6</td>
<td>8.97</td>
</tr>
<tr>
<td>Rockingham 2002</td>
<td>61.6</td>
<td>11.39</td>
</tr>
</tbody>
</table>

EFTSU=Equivalent Full Time Student Unit; UFA=Usable Floor Area; GFA=Gross Floor Area

Source: Policy & Planning (Murdoch) and TEFMA data

Pressure
Recently government building codes for housing have been amended to incorporate improved environmental outcomes. Similar changes to other building codes are likely to be enacted over the medium-term (See URL: http://www.greenhouse.gov.au/buildings/code.html).

Elsewhere, many appropriately designed facilities have significantly reduced utility and maintenance costs, which create economic savings in the longer-term, while improving greenhouse gas abatement.

Response
During 2005, the University has continued to review building guidelines used by other Universities. The recommendations of that review process will be utilised to adjust the specifications for new buildings so environmental design and construction criteria are incorporated into planning and tendering documentation.

The Office of Commercial Services has been identifying a set of appropriate mechanisms to achieve improved environmental design outcomes with regard to construction of new buildings on campus. The mechanisms include the use of sustainability indicators, a panel of consultants and assessment systems for buildings. These will be compiled for review by the Environment Committee in 2006. This will require urgent attention, as several new building projects are being planned.

Natural Environment
Condition
The Murdoch campus has a significant area of natural vegetation remaining on its South Street campus. Much of this is in good condition and includes three significant Bushland reserves that have recently been included into the Beeliar Regional Park (the Banksia Woodland Reserve, Chelodina Reserve and Melaleuca Swamp).

There are also several minor areas that contain vegetation of local significance and these have been mapped and included in the campus Master Plan.

Over the years extensive native gardens have been established around the campus and have grown to complement the natural biodiversity values of the campus. Most notable amongst these is the Banksia Court, established in 1995, which contains many varieties of Australian Banksia. Also, Bush Court is another significant parkland area on campus that contains a variety of native vegetation, including some trees of heritage value.

Pressure
Management of tree death, weed infestation, bush disturbance and naturalised non-native animals will impact biodiversity and are continuing challenges for the University. In addition, any development of facilities or grounds has the potential to impact on biodiversity through disturbance and loss of habitat. Bush Court and Banksia Court have both been in decline for several years and the Committee has identified them as priority areas for remedial action.

Response
With the inclusion of the three major bushland reserves into the Beeliar Regional Park, the University has agreed to manage the reserves in accordance with the principles indicated in the Beeliar Regional Park Management Plan (BRPMP) (due to be released by CALM during 2005/2006). The BRPMP will
provide the University with a management and assessment framework that is regionally appropriate, and with which it can conserve the biodiversity values of the reserves.

In 2006/2007 an aim is to establish an ongoing University Bushcare programme, where students with an interest in bushland management and seeking additional practical skills will be able to conduct Bushcare activities associated with the three reserves and other conservation areas on campus. Once fully established the Bushcare program would allow students, staff and alumni to participate in a range of activities that can assist the conservation of biodiversity on campus. Examples of the types of activities include weed removal, replanting, bush assessment, fauna surveys, data analysis and other associated activities.

In 2005 an environmental survey of the campus was completed. The survey located and documented the environmental values of the campus.

The landscaped sections of the University (from the perspective of biodiversity improvement) still require further work and will need added focus over the coming years. An example of recent activity has been protective work with the trees in Bush Court. However, with Banksia Court, Committee members have expressed concern over the low priority it has been given during 2005 and would like more attention payed to it during 2006.

**PART THREE – Future Directions**

In 2005, there was a loss of momentum in the University’s environmental programmes in comparison to previous years. The effective staffing of the roles of environmental and energy management in 2006 and the completion of significant changes in the Committee’s composition and structure should resolve these issues.

As the Master Plan for the University’s South Street campus evolves, the Committee and its subcommittees will continue to be key stakeholders in the master planning process. As such, they can act as an important resource assisting the University with regard to environmental planning and performance. Additionally, the Committee will continue to assist the University on regional matters. These include optimising the linkage between the local precinct and public transport networks such as the new southern rail line, identifying utilities and waste management synergies with other organisations in the local precinct, assisting with outreach activities that focus on increasing environmental awareness and aligning the management of the Universities natural environment with other broader management frameworks that are regionally appropriate.

Generally, the University will develop policies that guide activities that could have impacts on the environment. The environmental policies will form the foundation for the development of a comprehensive Environmental Management System for all three Murdoch University campuses. The aim is to have this Environmental Management System place by 2007/2008. Where specific environmental management activities occur, strategy documents and action plans will indicate their focus, scope and progress. Finally, monitoring, analysis and reporting will allow review of the University’s activities to provide the opportunity for the Committee to assist the University when it needs to adjust, initiate, expand or consolidate environmental programmes and projects. This will be assisted by additional monitoring systems and utilities data management systems to support these environmental reporting improvements.

Furthermore, when operational and planning activities can be integrated with teaching and research, then those possibilities will be explored to further the University’s sustainability.

From the start of 2006, Murdoch University will aim to extend its environmental programs across all three campuses. Sustainability planning and good environmental management, like any other effective planning and management systems, require continual attention and adjustment, so they can convey both financial and non-financial benefits to an organisation. This will be supported by the staffing of the environmental management role in early 2006 to assist the University in achieving these aims.

❖
BANKSIA ASSOCIATION

As Vice Chancellor, I have placed a strong emphasis on strengthening the University community. As part of this vision, I worked with the Office of Development and Emeritus Associate Professor Don Smart to create a new association that would reconnect the University with a special group of individuals who had made an impact on the University during its 30 year history. From here, the Banksia Association was born.

Membership includes a number of key groups including past external members of the University Senate, individuals who had been awarded Honorary Degrees and Emeritus Professors and Associate Professors. The goal of the Banksia Association is to further develop connections with Murdoch University and to involve members in the growth of the University in the future.

It seemed fitting to hold the launch of the Banksia Association as part of the celebration of Murdoch University’s 30th year and on Wednesday, 30th November 2005, I hosted an evening function at the University for over 100 guests, many of whom had been involved with the University in its earliest days.

Guests enjoyed a wonderful evening of camaraderie and fellowship and heard what the future holds as Murdoch University celebrates its 30th year.

The feedback on the evening was very positive with many guests commenting that this was the first time they had been on campus in over 20 years.

Further Banksia Association events will be held in 2006 to consolidate and build on the initial positive response to the Association’s formation. Other categories of membership are also being considered and it is likely that the number of members will grow quickly in 2006.

LEARNING AND TEACHING PERFORMANCE FUND

Murdoch University has reinforced its reputation for excellence in teaching and learning through success in the 2006 Learning and Teaching Performance Fund. Only the top 14 universities received funding and Murdoch will receive $2.034 million in 2006.

The Fund will distribute a total of $54 million for 2006, increasing to $82 million in 2007 and $109 million in 2008. Of the other WA universities, The University of Western Australia also received funding ($2.580 million) but neither Curtin University of Technology nor Edith Cowan University were ranked in the top band of institutions.

The Learning and Teaching Performance Fund was introduced under the Commonwealth Government’s reform package Our Universities: Backing Australia’s Future to reward higher education providers that best demonstrate excellence in teaching and learning for domestic
students with the aim of enhancing the status of teaching and learning in universities to promote the overall quality of undergraduate education.

Universities were assessed in two stages. The first stage determined each institution’s eligibility to receive funding. Successful institutions demonstrated a strong strategic commitment to learning and teaching, probation and promotion practices, support for professional development in learning and teaching for staff, and systematic student evaluation of teaching.

The second stage assessed universities on the basis of three broad areas:
- **Student satisfaction**, comprising data from the Course Experience Questionnaire (CEQ) on ratings of generic skills, good teaching and overall satisfaction;
- **Outcomes**, including data from the Graduate Destinations Survey (GDS) on students in full time employment and further full time study; and
- **Success**, including attrition and progress rates for commencing students.

Institutions were then ranked in broad bands, with only the top band receiving funding.

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**IRUA EUROPEAN UNION CENTRE**

The European Union has given notice that the Innovative Research Universities Australia bid for funding for a Europe Centre has been successful, with Murdoch a part of the consortium involved.

In 2005 the EU gave notice of its willingness to offer funding to two or three Australian universities interested in establishing a Europe Centre, expected to co-ordinate teaching and research on contemporary Europe, with special emphasis on the EU itself. The three successful applicants were ANU, where an existing centre was re-funded for a further three years, Monash, and the IRUA consortium.

The IRUA campuses involved are Latrobe, Macquarie, Newcastle, Griffith, Flinders and Murdoch. The headquarters of the Centre will be located at Latrobe and Macquarie and over a three-year period those two universities will each be contributing approximately $500,000 to match the $1,000,000 likely to be made available by the EU. The four outlying universities will not be making a direct financial contribution but will incur some incidental expenses by participating in the Centre’s activities, which will include enhanced undergraduate offerings on contemporary Europe and a comprehensive programme of seminars and conferences.

Murdoch will receive funding to cover half the cost of a Lectureship in Modern European History for three years to help it bring its teaching in this area up to par. We are already relatively strong in European law and Professor Moens is introducing a new unit in that area. It is probable that during the life of the Centre Murdoch will have the opportunity to organise a major international conference around one of the Centre’s themes.

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**2006 ADMISSIONS**

Murdoch University has just completed the first stage of the 2006 undergraduate Tertiary Institutions Service Centre (TISC) admissions process.

With funded growth associated with the 1,285 Commonwealth supported places awarded to the University from 2005, Murdoch has been in a position to make over 3000 offers to new students for admission to undergraduate courses in 2006.
Although the number of TISC applicants to Western Australian Universities was down approximately 8%, Murdoch attracted nearly 3000 first preference applications.

In 2006, course cut off scores for Murdoch undergraduate courses range from 62 to 96. Demand for most Murdoch courses has remained strong, with more than 80 per cent of applicants having a TER score of 70 or above.

I would like to take this opportunity to thank staff from the Prospective Students and Admissions Centre for working throughout the Christmas period to ensure a successful 2006 admissions process. I would also like to thank all academic and administrative staff who supported student recruitment activities and initiatives in 2005 in the lead up to this admissions round.

**AWARDS AND ACHIEVEMENTS**

- Murdoch University Chancellor, Emeritus Professor Geoffrey Bolton AO, CitWA, was named the WA Australian of the Year 2006. Professor Bolton was recognised for his contributions to the community as a professional academic and a communicator of ideas. The announcement was made on 26th November 2005 at a function at Government House by His Excellency the Hon David Malcom AC.

- The *Good Universities Guide* for 2006, an independent national publication, has again awarded Murdoch the top, five-star rank for student satisfaction. Murdoch has attained this rank for the tenth time in eleven years, maintaining its outstanding reputation for teaching excellence. Murdoch is the only university in Australia to have achieved this standard. This ranking is derived from independent surveys of recently graduated students and therefore represents a vote of confidence from our students.

- The Department of Defence has recommended the establishment of a Strategic Studies Scholarship program to support students enrolled in the Security, Terrorism and Counter-Terrorism course at Murdoch. The Department has provisionally agreed to funds two scholarships of $5,000 each year for three years. In addition to financial support, the Department is exploring the possibility of scholarship students undertaking occasional research tasks that will help further their understanding of security and defence issues. Professor Sam Makinda and the staff of the Office of Development are to be congratulated for the development and successful submission of the scholarship proposal to the Department of Defence.

- Professor Rudi Appels has been appointed by the Minister for Agriculture and Forestry, Kim Chance MLC, to the Ministerial Genetically Modified Organism (GMO) Specialist Advisory Panel Group. This reflects Professor Appels’ research expertise and scientific credibility in this area.

- Murdoch University media graduate Olivia Rousset won a prestigious Walkley Award for her SBS Dateline Report titled “Inside Indonesia’s Sex Trade”. Olivia has been reporting for Dateline for the past 5 years. During this time she has travelled to Iraq, PNG, Indonesia, the US, Ethiopia, Jordan, Syria, Turkey, Bosnia, Israel, Kosovo, Fiji, Eritrea and East Timor filming, reporting and directing her own stories.

- Professor Nick Cost has been appointed by the Minister for Agriculture and Forestry, Kim Chance MLC, to the steering committee for a GM feeding trial for animals to be coordinated by the Institute of Health and Environmental Research Inc. (IHER). IHER is a not-for-profit research institute with a scientific interest in the safety of genetically modified (GM) organisms, particularly those destined for food.
STAFF CHANGES

Pro Vice Chancellor (Regional Development)
Professor Kateryna Longley, Pro Vice Chancellor (Regional Development) has retired from the University after 20 years academic and administrative service.

Professor Longley began at the University as a Lecturer in the English and Comparative Literature Program. She assumed broader management roles within the University including Dean of the Former School of Humanities and Executive Dean of the Division of Social Sciences and Education. She was appointed to her current role in June 2002 and has progressed the University's strategic directions in the regions.

In recognition of Professor Longley's distinguished scholarly contribution and sustained service to the University, I have confirmed her appointment as an Emerita Professor of Murdoch University from 1st January 2006.

Director, Corporate Services
I am pleased to announce the appointment of John LeCras to the position of Director, Corporate Services. He joins the team in Corporate Communication and Public Relations with a specific focus on:
- Brand Management;
- Marketing and the coordinated profile building of the University;
- Stakeholder development; and
- Media and Communications

John is a journalist and communications specialist who has worked in all major news mediums, commencing his career as a newspaper reporter. He worked in commercial television as a reporter and spent ten years as the senior producer of Seven News. John was appointed Director of News at Seven Perth in 1996 and in 1999 his role was expanded to Director of News and Current Affairs.

After 20 years in the media, John elected to take a break from frontline media management and established a public relations function for the HBF Group. Whilst at HBF John acted as the Group’s Marketing Manager and in 2003 established HBF’s member advocacy program. This included the creation of the HBF Family Doctor program and HBF Action for Healthy Kids, an initiative designed to target childhood obesity. During his five years at HBF John acted as the Group’s main media spokesperson as well as coaching and training senior executives to conduct media interviews. His role included jointly assisting in the establishment of a range of new communication channels, including a series of magazines targeting key life-stage groups within the HBF membership.

NOTABLE EVENTS

- In November 2005 the University launched the on-line Course Fee Calculator (http://handbook.murdoch.edu.au/fees/). This allows domestic students to calculate the cost of their course for 2006 based on their unit selections.
- On the 16th November 2005 Dr Lars Bejder, an internationally renowned dolphin researcher, gave a presentation on the topic “Linking short and long-term effects of wildlife tourism on Indo-Pacific bottlenose dolphins in Shark Bay, Australia”. In his address Dr Bejder spoke on whether “benign” human activities have harmful cumulative effects to wildlife populations. This event was hosted by the Division of Science and Engineering.
- The institute for Sustainability and Technology Policy (ISTP) continued the ISTP Public Lecture series for 2005 with an address from Dr Carmen Lawrence, MHR for Fremantle on 17th November 2005. Dr Lawrence spoke on the topic “How can we save our withering democracy?”.

- The Office of Regional Development and the Office of Corporate Communications and Public Relations participated in the 2005 Rockingham Spring Festival held on the 19th and 20th November 2005. The festival attracts over 45,000 visitors to the Rockingham region. It has developed strong links to the community and showcases the potential and vibrancy of the region. The team from the prospective Student Services and Admission’s Centre was there showcasing our undergraduate and postgraduate courses in the mobile caravan.

- The inaugural Vice Chancellor’s Forum on Linking Teaching and Research was held on the 23rd November 2005. Professor Alan Jenkins, Westminster Institute, Oxford Brookes university and Associate Practitioner for the Higher Education Academy UK was the keynote speaker and he was also a Visiting Fellow to the University for a few days after the forum. The forum was well attended by staff from across the University, reflecting the general interest in research around teaching and learning as well as the specific interest in the putative links between teaching and research.

- On 25th November 2005, Murdoch University and the Science Teachers’ Association of Western Australia (STAWA) held a one-day showcase with presentations from over 45 of Western Australia’s most innovative science researchers, teachers and industry representatives.

- In November Murdoch University’s Art Collection in conjunction with ARTOPIA celebrated the inaugural Living Artists WA Festival with three exhibitions, each dedicated to profiling unique and celebrated Western Australian Artists – Julie Dowling, Galliano Fardin and Theo Koning. These exhibitions were located in the library and included items from the University’s collection, loans from the artists and the galleries who represent the artists. The exhibition showcased examples of their work and mapped the development of their careers.

- At the invitation of the School, I opened the Annual Exhibition of Graduating Students’ Work at the Curtin School of Art on 2nd December 2005. In addition to the graduating students and staff of the School, the event was attended by members of the wider art community, art curators and art collectors.

- The Centre for Everyday Life in the School of Media, Communication and Culture held a public lecture presented by Professor Mike Morwood on the topic “The Hobbits of Flores: Discovery of a New Human Species” on the 6th December 2005. This lecture described the new species discovered on the Indonesian island of Flores, nicknamed “Hobbit”, who lived between 95,000 and 12,000 years ago. The lecture also discussed the wider significance of the discovery.

- Supported by Murdoch University, the Women’s Auxiliary of the Royal Western Australian Historical Society presented Elizabeth Millett on the topic “Sage and Onions – a reminiscence of Sir Walter Murdoch by his granddaughter”. In her address Mrs Millet shared stories of her grandfather who became part of the fabric of her life, including his love of gardening, formal meal times seated at the dining table and his interest and passion for literature.

- In a ceremony on 10th February 2006, I presented certificates to those students who successfully completed the indigenous Pre-Law (Koori Koodidj) and Pre-Sustainability (Wangkiny Boodjar) programs. A total of 13 students graduated and entered undergraduate programs at Murdoch. The Pre-Law program began in 2000 and over 60 Indigenous students have participated in the course, with approximately half taking up Law or Legal studies. Last year saw the first Bachelor of Laws graduates from the Koori Koodidj program and two were recently
admitted to the bench. The Pre-Sustainability course has run since 2003 and has afforded 12 Indigenous applicants the opportunity to study in Sustainability. The pre-programs offer an alternative entry pathway for indigenous students who don’t have the appropriate educational background. They have proved successful and allowed many indigenous students to realise their dream of obtaining a formal university degree qualification.

INTERNATIONAL AGREEMENTS

• On 17th December 2005 a new offshore agreement was signed with the Singapore Manufacturers’ Federation for the delivery of the Master of Business Administration and Master of Human Resource Management in Singapore.

• A new offshore course agreement was signed on 20th December 2005 with KDU College SDN BHD of Petaling Jaya, Malaysia to add Murdoch’s Bachelor of Science with majors in Computer Science, Games Technology, Internet Computing, Information Systems Development and Multimedia Information Systems and the Bachelor of Business Informatics to the programs currently being delivered offshore through the College.

• The three year Bachelor of Science (Chiropractic)/Bachelor of Chiropractic will be delivered in Tokyo following the signing of a new offshore course agreement with Chiropractic Education Japan and NET Co. on 12th December 2005.

• Two new international student exchange programs have been entered into by Murdoch. A five year agreement allowing the exchange of two year-long or four semester-long students each year has been signed with Uppsala University in Sweden. An agreement with Ithaca College, USA enables the exchange of two semester-long or one year-long student in any one year.
Report on Senate Priorities 2005

At its meeting on 24th May 2005, Senate resolved to adopt four priorities for 2005. A report on each is provided below:

(i) Maximising the University’s return on its assets, e.g. land, intellectual property by establishing an appropriate endowment/investment policy (Responsibility: Resources Committee and PVC (Corporate)).

Control of relationships and financial agreements with external parties that operate on the campus using premises, facilities or intellectual property has been vested with Corporate Services and Legal and Governance who now vet arrangements both for commercial and legal purposes. Work to ensure all arrangements are on a sound commercial footing is progressing.

The Pro Vice Chancellor (Corporate) is formulating a revised investment policy to be taken to the next meeting of Resources Committee for consideration. This will take into account the short, medium and long-term cash flow requirements to more aggressively manage cash balances.

(ii) Engagement with external parties and the community, i.e. the extent to which members of Senate can support and promote the University through their external contacts and networks (Responsibility: Director of Development and Director Corporate & Public Relations).

Many of the initiatives commenced during 2005 are continuing. An example is Murdoch’s successful sponsorship of the Leadership Matters series which has been continued for 2006.

As indicated above, the Banksia Association was launched in late November 2005. This is a critical initiative in maintaining the connection to people who have had a link with the University, including past lay members of Senate. The Office of Development and the Office of Corporate Communication and Public Relations will be involved in planning a schedule of annual activities and events to ensure that members loyalty to Murdoch and involvement in Murdoch plans and programs is maximised.

During 2005 Senators were able to provide valuable introductions and links to key corporates that support the work of the Murdoch University Foundation, the Office of Development and the Office of Corporate Communication and Public Relations (CCPR). These included:

- Senator Terry Budge was appointed a Trustee of the Murdoch University Foundation to assist with governance and corporate programs.
- Individual Senate members assisted in identifying, inviting and hosting key corporate contacts at internal and external events including the Leadership Matters series and launches of fundraising programs.
- Individual Senate members have assisted with grant applications and advised on corporate sponsorship proposals and high level contacts.
- Individual senators have identified prospects and assisted in securing new prizes and scholarships as part of the 2005 30 Prizes and Scholarships Campaign.
- Senators have been asked to identify appropriate public relations and sponsorships opportunity that their companies are undertaking that could involve the University.
- Copies of the University’s three official publications – On Campus, Synergy and In Touch – are now sent to all Senate members as they are published.
- CCPR have developed lines of communication to various Senate members with regard to communicating relevant articles and stories for use in their respective company publications.
The Office of Development implementing a new fundraising and relationship management database. Senators will be asked to assist with the initial collection of information on the University’s connections with individuals and corporates including existing and prospective donors, sponsors and partners. Senators will be asked to assist in hosting and attending a series of events throughout 2006 aimed at strengthening or initiating relationships with identified individuals and corporates.

(iii) Identification of long-term goals for the University, including understanding the changing nature of higher education policy (Responsibility: PVC (Corporate) and PVC (Strategy)).

Management has undertaken a 10 year operating surplus/deficit and cash forecast that recognises the changing nature of Higher Education policies and the implications on the University financial performance. This set the quantum of the issues to be addressed and made clear the need to reformulate the strategic priorities of the University, in particular through revision of the strategic plan.

Senior executive will commence the process of revising the University’s Strategic Plan with a facilitated session held on 20th February 2006. The aim is to focus on looking forward and determining what are the key strategies that will differentiate Murdoch University to create our competitive advantage.

The goals for the session are to get a working draft of a plan using an environmental scan to gauge issues and to set the appropriate strategies and develop a communication plan for staff. Within this framework, consideration will be given to innovative ideas to grow the University’s business, manage costs, enhance the necessary leadership and align behaviours to the common strategic intent. This will flow directly into issues for consideration at the Senate Retreat to be held on 10-11 March 2006.

(iv) Maintain the University’s compliance with the National Governance Protocols (Responsibility: Governance & Nominations Committee and General Counsel & University Secretary).

Murdoch has received advice from the Department of Education, Science and Training (DEST) that the Minister has determined that Murdoch is compliant with the National Governance Protocols.

Universities need to comply with both the National Governance Protocols and the Higher Education Workplace Relations Requirements (HEWRRs) to be eligible for the increase in funding under the Commonwealth grants Scheme (5% in 2006 and 7.5% in later years). Murdoch’s compliance with the HEWRRs is currently being assessed by DEST. An announcement was expected in early February but the change of Minister has delayed notification.
<table>
<thead>
<tr>
<th>Proposed amendment: (all changes to be shown in mark-up)</th>
<th>3. <strong>Powers</strong></th>
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<tbody>
<tr>
<td><strong>Date of Guild Secretariat recommendation:</strong> 31/08/2005</td>
<td>Subject to the Act, and the Statutes and By-laws of the University, the Guild shall have the power:</td>
</tr>
<tr>
<td><strong>Guild Secretariat motion number:</strong> 227/05</td>
<td>(a) to purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and to sell, let, mortgage, or otherwise dispose of it;</td>
</tr>
<tr>
<td><strong>Date of Legislation Committee endorsement:</strong> 24/10/2005</td>
<td>(b) to borrow, raise or secure payment of any money for any of the objects of the Guild from time to time and in particular by mortgaging or charging the property of the Guild or any part thereof;</td>
</tr>
<tr>
<td><strong>Legislation Committee resolution number:</strong> LC/11/2005</td>
<td>(c) to engage and dismiss employees;</td>
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<td>(d) to expend and invest moneys;</td>
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<td>(e) to operate bank accounts;</td>
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<td>(f) to transact such financial business as may be necessary for the purpose of carrying out the objects of the Guild;</td>
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<td></td>
<td>(g) to affiliate with any university association or any other association of students;</td>
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<td></td>
<td>(h) to co-ordinate the activities of Student Societies;</td>
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<td></td>
<td>(i) to provide for representation of the Guild and its members in cultural, sporting and social activities;</td>
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<td></td>
<td>(j) to make provision for the control and management of any buildings from time to time occupied by the Guild and for regulating the conduct of any person using such buildings or parts thereof;</td>
</tr>
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<td></td>
<td>(k) to hold licences under any legislation, including the Liquor Act 1970, for the time being in force;</td>
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</table>
(l) to impose fines or penalties, including suspension or withdrawal of privileges, upon members and on Student Societies for breach of the provisions of this Statute or of a Guild Regulation or a Guild Rule, but the limits of the fines or other penalties which may be imposed and all necessary procedures shall be prescribed by Guild Regulation;

(m) to charge subscription fees to members in the manner prescribed by Guild Regulation; [Proposed amendment deferred]

(m) to admit to associateship persons other than members in the manner prescribed by Guild Regulation;

(n) generally, to act in all other matters authorised by this Statute or which are necessary or convenient for giving effect to this Statute.

4. Membership

(1) Subject to the provisions of the Act and the following provisions of this section, all students shall be eligible to be members of the Guild. Guild Regulations may make provision for associate membership for non-students.

(2) Every student is automatically a member of the Guild unless he or she elects, at the time of enrolment, not to be a member, or subsequently resigns.

(3) The University must not act in a way that may dissuade or discourage a student, or person seeking enrolment as a student, from being or becoming a member of the Guild.

(4) A person shall cease to be a member of the Guild when he or she ceases to be a student or resigns as a member, or does not fulfil the terms and conditions of membership prescribed in Guild Regulation[Proposed amendment deferred].

(5) Except as provided in this Statute the terms and conditions of membership of the Guild shall be prescribed by Guild Regulation.

(6) Students who are not members of the Guild are not eligible to vote in Guild elections or to hold an elective office of the Guild.

7. Guild Secretariat

(1) The Guild shall be administered by a Secretariat comprising:

   (a) the President of the Guild;

   (b) the Education Vice President of the Guild;

   (bc eight not more than ten members (in this section referred to as the 'Guild Members of the Secretariat') as prescribed in the Guild Regulations; and
(ed) not more than ten representative members as described in subsection (4) of this section (in this section referred to as the 'Representative Members') no person shall hold office as the President of the Guild, Education Vice President of the Guild or as a member of the Secretariat unless that person is a member.

(2) The President of the Guild and the Guild Members of the Secretariat shall be elected annually and, subject to this section, in the manner prescribed by Guild Regulation. The Guild may, by Guild Regulation, provide for the filling of any casual vacancy on the Secretariat provided that if any ballot is conducted to fill such a vacancy it shall be held in accordance with the provisions of subsection (3) of this section.

(3) Any member may vote at any election for the office of the President of the Guild, the Education Vice President of the Guild or the office of a Guild Member of the Secretariat. Elections shall be conducted in accordance with Guild Election Regulations.

(4) The Guild may by Guild Regulation provide for the nomination of not more than ten persons as representative members who shall be elected officers or representatives of subsidiary councils of the Guild or of Student Societies.

(5) The Guild may by Guild Regulation increase the maximum number of members of the Secretariat except that the number of Guild Members of the Secretariat (excluding the President of the Guild and the Education Vice President of the Guild) shall be at least equal to the number of representative members.

(6) The Secretariat shall appoint one of their number to be the Honorary Secretary of the Guild and another of their number to be the Honorary Treasurer of the Guild.

(7) The Secretariat shall cause accurate minutes to be made of all General Meetings and forums of the Guild and meetings of the Secretariat, and the result of every election and Referendum. All duly confirmed minutes shall be deemed correct until the contrary is proved.

(8) The procedures for meetings of the Secretariat shall be prescribed by Guild Regulation.

(9) The powers and obligations of the President of the Guild, the Education Vice President of the Guild, Guild Members of the Secretariat and the Representative Members shall be prescribed by Guild Regulation.

(10) Subject to this Statute and regulations made hereunder the Secretariat shall have the entire control and management of the affairs and concerns of the Guild and shall act in all matters concerning the Guild in such a manner as appears to it to be best calculated to promote interests of its members.
<table>
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<th></th>
<th>Resolutions passed at any General Meeting other than any resolutions to make, alter or repeal a regulation or regulations shall be in the form of a direction to the Secretariat. The Secretariat shall act in accordance with any direction of a General Meeting except that where, at its next meeting, the Secretariat resolves by Absolute Majority that a particular direction is not best calculated to promote the interests of the members, the direction involved shall be referred to a further General Meeting or at the discretion of the Secretariat, to a Referendum, to be held not later than 21 teaching days after such meeting of the Secretariat, and if the direction is approved at such General Meeting or Referendum then the Secretariat shall act in accordance with it.</th>
</tr>
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<tbody>
<tr>
<td>(12)</td>
<td>The Secretariat may in the manner prescribed by Guild Regulations make, alter or repeal rules governing activities associated with the Guild but only when the power to do so is specified in Guild Regulations and then only to the extent specified.</td>
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SENATE – 22 FEBRUARY 2006

2006 AUSTRALIAN UNIVERSITIES QUALITY AGENCY (AUQA) AUDIT AND WHOLE-OF-INSTITUTION AUDIT (WOIA) OUTCOMES

1. AUQA AUDIT

1.1 AUQA Performance Portfolio

At the December 2005 meeting, members were advised the tight timelines for preparation and submission of the AUQA Performance Portfolio. Consequently, it was agreed that the Vice Chancellor approve the final version of the Portfolio and that a hard copy be circulated with the agenda for this meeting.

The draft Portfolio was published on the web on 19 January 2006, with feedback requested by COB on 24 January 2006. The final Portfolio is available on the web at the following url:


As indicated at the December 2005 meeting, a hard copy of the Portfolio has been circulated with this agenda.

The Portfolio was received by AUQA on schedule on Monday 6 February 2006.

1.2 AUQA Audit Panel

The AUQA Audit Panel members are:

✧ Professor Kevin McConkey, Professor of Psychology, University of New South Wales (Chair)
✧ Dr Fran Pesich, Senior Consultant, Archistruct Pty Ltd
✧ Dr John S Rowett, Secretary General, Association of Commonwealth Universities, UK
✧ Mr John Shipp, University Librarian, University of Sydney
✧ Mr Robert Carmichael, Audit Director, AUQA
✧ Mrs Joyce B Mwikali Mutinda, Assistant Commission Secretary (Curriculum), Commission for Higher Education, Kenya (Observer)

1.3 AUQA Visit and Lead Up

It is anticipated that the Panel will meet in Melbourne on 6 March to discuss the Portfolio, what additional material they would like, what overseas partners they will visit and who they wish to interview.

It is anticipated that the Panel Chair and Audit Director will visit Murdoch on 4 April 2006, meet with the Vice Chancellor and Pro Vice Chancellor (Academic), and view the proposed venue and discuss arrangements.

The Panel will visit the University from 8 – 11 May 2006. The proposed interview schedule will be reported to the May meeting of Senate.
2. WOIA PANEL REPORT

At the December 2005 meeting, members were provided the Executive Summary of the WOIA Panel Report. The full report was finalised on 18 January 2006 and is available on the web at the following url:


A hard copy has been circulated with the agenda.

The Recommendations and Affirmations have been incorporated into an Implementation Plan. The WOIA Implementation Plan is available on the web at the following url:


Implementation will be monitored by the Academic Quality Audit Committee (AQAC), with progress included in AQAC’s bi-annual reports to Academic Council.

Professor Jan Thomas
Pro Vice Chancellor (Academic)

7 February 2006
Date of meeting: Wednesday, 25 January 2006

Present:  
Prof Michael Borowitzka (President)  
Prof John Yovich (Vice Chancellor)  
Ms Bee Lay Addis  
Prof Yianni Attikiouzel  
Mr Malcolm Bradley  
Ms Melanie Burkhardt  
Prof Arnold Depickere  
Mr Gerry Georgatos  
Ms Deborah Hamblin  
Mrs Carolyn Jones  
Ms Marian Kemp  
Assoc Prof Dora Marinova  
Dr Rhonda Marriott  
Prof Gary Martin  
Dr Rob Phillips  
Assoc Prof John Pluske  
Dr Phillip Reece  
Prof Jim Reynoldson  
Ms Katy Stanlake  
Prof Andris Stelbovics  
Dr Anne Surma  
Prof Jan Thomas  
Mr Matt Vapor  
Prof Iain Walker  

Secretary: Mrs Gerry Dunne  

Apologies  
Assoc Prof Parisa Bahri, Mr David Holloway, Prof Kateryna Longley, Dr David Palmer, Dr Rajasundram Sathiendrakumar,  

Official attendees:  
Assoc Prof David Macey  

MEMBERSHIP  

Prior to commencement of the meeting, the President welcomed the following new student members to their first meeting of Council: Ms Katy Stanlake, Ms Melanie Burkhardt and Mr Matt Vapor.

1. MINUTES

Confirmation of the minutes of the meeting held on 2 November 2005, subject to the following amendment:

Correction to Item 8 - Plagiarism Detection System – Results of Trials: the resolution incorrectly referred to the report as being from the 'Turnitin Project Steering Committee’ this should have read the IT Steering Committee Plagiarism Detection Working Party.

2. ELECTION OF DEPUTY PRESIDENT

In accordance with Statute No. 5, Council appointed a Deputy President from among the elected members, to hold office for a calendar year.

Resolved to appoint Associate Professor Parisa Bahri as Deputy President for 2006.

AC/1/2006

3. AWARD OF UNIVERSITY MEDALS

Up to seven University Medals may be awarded each year for outstanding academic performance by undergraduate students. For 2005 a total of 10 nominations were received. The President praised the results obtained by medallists and confirmed the medals were spread across many disciplines.
**Resolved:** to award University Medals for 2005 to the seven students recommended by the President of Council in conjunction with the Executive Deans:

<table>
<thead>
<tr>
<th>Name</th>
<th>Student Number</th>
<th>Course and Specialisation</th>
</tr>
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<tbody>
<tr>
<td>Ms Julie Dawn BYRNE</td>
<td>19863449</td>
<td>B Tourism, BA- Community Development &amp; Sociology</td>
</tr>
<tr>
<td>Ms Polly COCKS</td>
<td>30074619</td>
<td>B Applied Veterinary Medicine</td>
</tr>
<tr>
<td>Ms Cheryl Anne JONES</td>
<td>30035481</td>
<td>BA – Sociology, Women’s Studies</td>
</tr>
<tr>
<td>Ms Kirsi KAUHANEN</td>
<td>30220334</td>
<td>Bachelor of Environmental Science</td>
</tr>
<tr>
<td>Ms Elise Michelle MABBOTT</td>
<td>19516152</td>
<td>Bachelor of Education in Primary Teaching</td>
</tr>
<tr>
<td>Mr Daniel Bruce OKELY</td>
<td>30188579</td>
<td>BSc – Computer Sciences</td>
</tr>
<tr>
<td>Mr Michael REID</td>
<td>30035946</td>
<td>BSc in Chemistry &amp; BSc in Environmental Science</td>
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4. **VICE CHANCELLOR’S REPORT**

Members noted the report from the Vice Chancellor attached to the agenda. The appointment as Premier of the Hon Alan Carpenter MLA, a former State Minister for Education and Training, was noted. The Vice Chancellor acknowledged the announcement of a new Federal Minister, The Hon Julie Bishop MP.

The Vice Chancellor advised that he expected further changes in the higher education sector in 2006, citing the Research Quality Framework and Teaching & Learning Performance Fund as areas that would be revisited. While confident that Murdoch would qualify for 5% extra funding for compliance with the National Governance Protocols and the Higher Education Workplace Relation Requirements, this would not be confirmed until February. Members were reminded that a revision of the strategic plan was currently being undertaken. The Vice Chancellor congratulated the Prospective Students’ & Admissions Centre in achieving offers which should result in meeting target load and particularly thanked Prof Gary Martin, Assoc Prof David Macey and their team for their work over the holiday period.

5. **REPORT ON WHOLE OF INSTITUTION AUDIT (WOIA) AND PROGRESS FOR AUSTRALIAN UNIVERSITIES QUALITY AGENCY (AUQA) AUDIT**

Members noted the report from the Pro Vice Chancellor (Academic) which was attached to the agenda. She thanked all those who had participated in the WOIA audit in November and advised that the Panel Report is available on the web at the following URL:


The PVC (A) said it had been a useful review providing Murdoch with the opportunity to identify areas requiring attention for the forthcoming AUQA review. The focus is now on the May 2006 AUQA review which will be a detailed process involving overseas site visits, local site visits, interviews and call back sessions. She anticipated the AUQA audit report would take more time to complete than the report following the WOIA.

The AUQA portfolio was available for comment at the following URL:

6. EX OFFICIO MEMBERSHIP OF ACADEMIC COUNCIL

Due to the imminent retirement of Professor Kateryna Longley from her position as Pro Vice Chancellor (Regional Development) the Senior Executive resolved that this role be disestablished. As the position of Pro Vice Chancellor (RD) is ex officio on Academic Council the position will become void. Council discussed and agreed to replace the position with that of Pro Vice Chancellor (Corporate) in order to provide linkage and input between the financial and facilities management aspects of the University and the academic decision making processes.

Resolved: to resolve to RECOMMEND to Senate to amend Clause 2 (b) of Statute No.5 - Academic Council (deletion struck through, additions in bold):

The persons holding the following offices, ex officio—

-- Vice-Chancellor;
-- Executive Deans of Divisions;
-- President of the Guild of Students;
-- Pro Vice-Chancellor (Academic);
-- Pro Vice-Chancellor (Regional Development);
-- Pro Vice-Chancellor (Corporate);
-- Pro Vice-Chancellor (Research);
-- Pro Vice-Chancellor (Strategy);
-- Education Vice-President of the Guild of Students

7. AWARD OF DEGREES, DIPLOMAS AND CERTIFICATES

Council congratulated two of its members on their academic success. Dr Rhonda Mariott on being awarded a PhD and Mr Gerry Georgatos a double degree. The meeting recorded these achievements by acclamation.

On the recommendation of Divisional Boards and the Research and Development Board, Council

Resolved: (i) to note that the President approved the award of the attached BVMS degrees; and
AC/4/2006

(ii) to approve the award of the degrees, diplomas and certificates on the attached list.

8. DEVELOPMENTAL TRANSCRIPTS

8.1 REPORT FROM PRO VICE CHANCELLOR (ACADEMIC)

[Secretary’s note: Advice of participation in the Student Leadership Program will be provided to the next meeting.]

Resolved: to note the 2005 Annual Developmental Transcripts Report as attached
AC/5/2006 to the agenda.

8.2 2006 APPLICATIONS

[Secretary’s note: The application from the Murdoch University Psychology Association will be submitted to the next meeting for approval.]
Resolved: AC/6/2006 to approve the following Volunteer Programs as attached to the agenda for inclusion in 2006 Developmental Transcripts:

**Arts**
Executive Management of the Murdoch Student Law Society
Murdoch School of Law Mentor Program

**Health Sciences**
**Executive Management of Murdoch Biomedical Students’ Association**
**Executive Management of Murdoch Veterinary Students’ Association**
**Murdoch University Veterinary Trust Ambassadors**

**Science and Engineering**
Murdoch University Permaculture and Environmental Technology Society (MUPETS)
WA Science and Engineering Summer School
Murdoch University Environmental Science Association (MUEnSA)

**President of Academic Council**
Karibu
**Murdoch University Guild of Students Free Computer Program**
**Murdoch University Guild of Students Multimedia and Media Collective**
**Murdoch University Guild of Students Social Justice & Community Development Program**
Murdoch University Guild of Students Tutoring Students Program
STAR Peer Tutoring Program (with the agreement of all Executive Deans)
Student Leadership Program (for participation in University Committees and Working Parties)
Student Ambassador Program

**New Program**

9. ESTABLISHMENT OF THE WESTERN AUSTRALIAN INSTITUTE OF DISPUTE MANAGEMENT

The Vice Chancellor, on the recommendation of the President of Academic Council, approved the establishment of the Western Australian Institute of Dispute Management (WAIDM) located in the Division of Arts.

Resolved: AC/7/2006 to note the establishment of the Western Australian Institute of Dispute Management as a Professional Centre located in the Division of Arts, as approved by the Vice Chancellor in January 2006.

10. ELECTRONIC ASSIGNMENT SUBMISSION WORKING PARTY

Members approved the establishment of a working party to identify issues associated with electronic assignment submission & marking and to develop a policy on electronic submission of assignments and marking of these assignments.

Resolved: AC/8/2006 to establish an Electronic Assignment Submission Working Party with the following terms of reference, membership and reporting timeframe:
AC/8/2006  
Cont’d

(i) Terms of Reference

(a) identify issues associated with electronic assignment submission and marking of these assignments, including:

• security and privacy of assignments (including electronic signatures)

• assignment tracking

• the use, storage, management and archiving of electronically submitted assignments

• any resource requirements

• any policy issues and requirements

(b) develop a policy on electronic submissions and marking of assignments

(ii) Membership

Assoc. Prof. Parisa Bahri (Chair)  
Mrs Carolyn Jones  
Assoc. Prof. Richard Joseph  
Ms Marian Kemp  
Ms Kate Lewins  
Dr Jenny Richardson  
Guild Education Vice President  
A person nominated by the Director, Office of Information Technology Services

(iii) Reporting

the Working Party is to present its report to Academic Council’s 12 April 2006 meeting.

11. AMENDMENTS TO THE TRANSFERS POLICY

At its meeting on 25 November 2005 the Academic Policy Committee (APC) recommended amendments to the Transfers and New Enrolments for Existing Students between Courses, Majors, Minors, Campuses and Funding Source policy. The amendments are to provide greater detail for Divisions when considering requests for quotas on units and restrictions on undergraduate courses.

Further amendments are to enable students who wish to change their course offering between campuses to do so by applying at the end of the year, or mid year if appropriate. Previously students were required to complete 24 consecutive points at the campus they were enrolled.

APC recommended the title of this policy be amended to the Transfers policy.

One Council member pointed out that it was seemingly unnecessary to separate clauses 5 and 6. The Pro Vice Chancellor (Academic), in her role as Chair of APC, agreed. She also agreed with another member that the information in these clauses should be separated for international students to reinforce its intention for that student cohort. The PVC(A) suggested that both these comments be referred to APC for their attention at the next scheduled review
12. AMENDMENTS TO THE WORKPLACE LEARNING POLICY

At its meeting on 25 November 2005 the Academic Policy Committee (APC) recommended amendments to the Workplace Learning policy to ensure awareness of DEST rules on placements. Additional information in the policy provides a brief explanation of these DEST requirements.

13. AMENDMENTS TO THE COLLABORATIVE COURSES POLICY

At its meeting on 25 November 2005 the Academic Policy Committee (APC) recommended amendments to the Collaborative Courses policy to ensure that overseas universities are aware that to establish collaboration all requirements of the Manual for the Development and Implementation of Offshore Courses must be met.

14. AMENDMENTS TO THE NON-DEST FUNDS FOR TEACHING STAFF, TEACHING RESOURCES OR THE ENROLMENT OF STUDENTS POLICY

At its meeting on 25 November 2005 the Academic Policy Committee (APC) recommended amendments to the Non-DEST Funds for Teaching Staff, Teaching Resources or the Enrolment of Students policy, following a scheduled review.

One change to the policy is that Executive Deans, Heads of School, Divisional Executive Officers and Directors are asked to provide feedback.

Members agreed that the Secretary should remove references to the Division of Research & Development that had remained in the policy as the Division had been requested to develop a policy specifically for their area.
AC/12/2006 (iii) to add to School Reviews and Executive Dean reports the requirement to report on the extent and nature of non-DEST funding for teaching purposes, including any issues related to academic integrity and freedom, the overall balance of funding sources and future prospects and challenges.

15. AMENDMENTS TO THE DOUBLE DEGREES, SECOND AND SUBSEQUENT DEGREES, DOUBLE MAJORS AND JOINT DEGREES POLICY

At its meeting on 25 November, 2005 APC recommended to Academic Council to approve amendments to the Double Degrees, Second and Subsequent Degrees, Double Majors and Joint Degrees Policy. The amendments are to require that for students undertaking a double degree based on a 96 point degree they would be required to complete a minimum of 16 points of Part II units. For 72 point degrees this will remain as 12 points difference of Part II units.

...Buff

Resolved: (i) to approve the attached revised ‘Double Degrees, Second and Subsequent Degrees, Double Majors and Joint Degrees’; and

(ii) to rescind the ‘Double Degrees, Second and Subsequent Degrees, Double Majors and Joint Degrees,’ policy as approved by AC/123/2004.

16. RENAMING OF THE FRANCHISING POLICY

At its meeting on 25 November, 2005, APC recommended to Academic Council to approve amendments to the Franchising policy and Schedule and to rename them the Unit Material License Policy and Schedule.

In accordance with Standing Orders for Academic Council and Subordinate Bodies Clause 30 an absolute majority of members agreed to consider the recommendation as the policy & schedule were approved within the past 6 months.

...Pink

Resolved: (i) to approve the renaming of the ‘Franchising’ policy to the ‘Unit Material License’ policy as attached;

(ii) to rescind the ‘Franchising,’ policy as approved by AC/126/2005(i);

...Blue

(iii) to approve the renaming of the ‘Franchising’ schedule to the ‘Unit Material License’ schedule; and

(iv) to rescind the ‘Franchising,’ schedule as approved by AC/126/2005(ii).

17. AMENDMENTS TO THE ACADEMIC STAFF PROMOTIONS POLICY AND PROCEDURES - PART 1 LECTURER LEVEL B

The Professorial Promotions & Probationary Review Committee recommended amendments to the Academic Staff Promotions Policy and Procedures - Part 1 Lecturer Level B to reflect changes in procedures to enable new online application process.

...Lilac

Resolved: to RECOMMEND to the Vice Chancellor to approve the attached revised 'Academic Staff Promotion’ Policy and Procedures.
18. PROPOSED AMENDMENTS TO THE MANUAL FOR THE DEVELOPMENT AND IMPLEMENTATION OF OFFSHORE COURSES

At its meeting on 25 November, 2005 APC recommended to Academic Council to approve amendments to documents that make up the Manual for the Development and Implementation of Offshore Courses. These documents were updated to reflect changes in policy and procedure. The Secretary was asked to correct minor errors identified by a member.

Resolved: (i) to approve
AC/16/2006

…Green  (a) the attached amendments to the ‘Offshore Course Offerings’ policy, superseding that approved AC/94/2005;

…Lemon  (b) the attached amendments to the ‘External Offering of Units, Majors and Courses (Onshore and Offshore)’ policy, superseding that approved AC/8/2005 (iv);

…Turquoise  (c) the attached amendments to the ‘Academic Quality Assurance Checklist for Offshore Courses and Units’;

…Buff  (ii) to RECOMMEND to the Vice Chancellor to approve the attached amendments to the ‘Offshore Teaching’ policy, superseding that approved AC/8/2005

(iii) to RECOMMEND to the Senior Executive Group:

(a) to approve the amendments to the Business Plan template, superseding that approved SE/2/2005(i) as attached to the agenda;

(b) to approve the amendments to the Offshore Courses Risk Management Plan template, superseding that approved SE/2/2005(i) as attached to the agenda; and

(c) to approve the amendments to the Annual Review of Offshore Courses template, superseding that approved SE/2/2005(i) as attached to the agenda.

19. REVISED CONSOLIDATED LIST OF 2006 OFFERINGS

At its meeting on 25 November, 2005 APC agreed to recommend to Academic Council to approve amendments to the Consolidated list of 2006 offerings.

In accordance with Standing Orders for Academic Council and Subordinate Bodies Clause 30 an absolute majority of members agreed to consider the recommendation as the consolidated list was approved within the past 6 months.

Resolved: to note the revised consolidated list of courses, majors and minors to be offered in 2006, superseding that approved AC/122/2005 as attached to the agenda.

AC/17/2006
20. NEW FRANCHISING ARRANGEMENTS – MURDOCH BUSINESS SCHOOL & SWAN TAFE

APC recommended Academic Council note the new Murdoch Business School franchising arrangement with Swan TAFE. Attached to the agenda were the course structures for the Swan TAFE courses, which include the franchised Murdoch University units.

Members noted that this item uses the term franchising as when it was proposed this was the terminology in use. Item 16 of this meeting approved the change of the term franchise to unit material license.

Resolved: to note the franchising-out arrangement with Swan TAFE for the following units, as located within the Division of Arts:

AC/18/2006

- BUS165 Principles of Commercial Law
- BUS161 Introduction to Economics
- BUS145 Principles of Management
- BUS169 Principles of Marketing
- BUS140 Principles of Finance and Banking
- BUS223 Organisational Theory and Behaviour
- BUS240 Organisational Management and Development

21. APPROVAL FOR OFFERING OFFSHORE COURSES

In accordance with the Offshore Course Offerings policy the President of Academic Council, the Pro Vice Chancellor (Academic) and the Chair of the Committee on University Entrance have agreed to approve proposals to offer courses in overseas locations as detailed below.

Resolved: to note the approval of the introduction of:

AC/19/2006

- Bachelor of Business Informatics – Kollege Damansara Utama (KDU) in Malaysia commencing Semester 1, 2006
- Bachelor of Mass Communication (Communication, Technology and Policy), Bachelor of Media (Media Studies) and Bachelor of Mass Communication (Public Relations) – commencing January 2006
- Bachelor of Commerce in Human Resource Management – commencing Semester 2, 2006
- Bachelor of Commerce in Professional Accounting – commencing Trimester 2, 2006

- the third year of the Bachelor of Science with majors in Computer Science, Internet Computing and Business Information Systems – commencing November 2006

- Bachelor of Mass Communication (Communication, Technology and Policy), Bachelor of Media (Media Studies) and Bachelor of Mass Communication (Public Relations) – commencing January 2006

- Bachelor of Commerce in Human Resource Management – commencing Semester 2, 2006

- Bachelor of Commerce in Professional Accounting – commencing Trimester 2, 2006
22. APPROVAL FOR OFFERING COMBINATION COURSES

Combination courses will involve TAFE enrolled students undertaking 2 Murdoch University units as part of their TAFE course. Successful completion of the Murdoch University units provides students with the opportunity to enrol in the corresponding full award course subject to meeting entry requirements and the availability of places. The President of Academic Council agreed to approve these proposals as detailed below.

**Resolved:** to note the approval of the introduction of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing (Combination)</td>
<td>Health Sciences</td>
</tr>
<tr>
<td>Education (Primary Teaching) (Combination)</td>
<td>Arts</td>
</tr>
<tr>
<td>Entrepreneurship and Innovation</td>
<td>Arts</td>
</tr>
</tbody>
</table>

23. REVISED PLANNING AMENDMENTS

At its meeting on 25 November, 2005 APC noted academic planning amendments approved by the President of Academic Council.

**Resolved:** (i) to note the following amendments approved by the President of Academic Council in accordance with the Academic Planning Guidelines

(a) the amended structures of the following courses as attached to the agenda and located within the Division indicated:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Animal Science</td>
<td>Health Science</td>
</tr>
<tr>
<td>Bachelor of International Business</td>
<td>Arts</td>
</tr>
<tr>
<td>Bachelor of Tourism</td>
<td>Arts</td>
</tr>
<tr>
<td>Graduate Certificate in Human Resource Management</td>
<td>Arts</td>
</tr>
<tr>
<td>Graduate Certificate in Pharmacy Entry</td>
<td>Health Science</td>
</tr>
<tr>
<td>Graduate Diploma in Human Resource Management</td>
<td>Arts</td>
</tr>
<tr>
<td>Graduate Diploma in Journalism</td>
<td>Arts</td>
</tr>
<tr>
<td>Graduate Diploma in Pharmacy Entry</td>
<td>Health Science</td>
</tr>
<tr>
<td>Kulbardi Aboriginal Tertiary Entrance Course</td>
<td>Arts</td>
</tr>
<tr>
<td>Law (Four-Year Degree) (LLB)</td>
<td>Arts</td>
</tr>
</tbody>
</table>
AC/21/2006 Cont’d

(b) to note the amended structures for the following minors as attached to the agenda and located within the Division indicated:

<table>
<thead>
<tr>
<th>Minors</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Biology</td>
<td>Health Science</td>
</tr>
<tr>
<td>Community Psychology</td>
<td>Health Science</td>
</tr>
<tr>
<td>Renewable Energy Technology</td>
<td>Science and Engineering</td>
</tr>
</tbody>
</table>

(c) to note the amended title of the Postgraduate Diploma in Extractive Metallurgy to the Graduate Diploma in Extractive Metallurgy;

(ii) to RECOMMEND to Senate to amend the following regulations as indicated below, additions in **bold** deletions **struck through**:

Diploma Regulation 1.(1) (b)  
Insert: *Graduate Diploma in Extractive Metallurgy (GradDipExtMet)*

Diploma Regulation 1.(1) (c)  
Delete: *Postgraduate Diploma in Extractive Metallurgy (PgDipExtMet)*

24. **NEW COURSE – MASTER OF PROFESSIONAL ACCOUNTING**

At its meeting on 14 October 2005 APC recommended to Academic Council to approve the Master of Professional Accounting.

Resolved:  
AC/22/2006 (i) to approve the introduction in 2006 of the Master of Professional Accounting with the structures as attached to the agenda and located within the Division of Arts;

(ii) to RECOMMEND to Senate to amend the following regulations as indicated below [additions in **bold**]:

Master by Coursework Degree Regulation 1. (1)  
Insert: *Master of Professional Accounting (MPA)*

Master by Coursework Degree Regulation 2. (1)  
Insert: *Master of Professional Accounting - 48 points*

25. **AMENDMENTS TO BACHELOR DEGREE REGULATIONS 1.(1)**

At its meeting on 25 November, 2005 APC recommended to Academic Council to recommend to Senate to approve amendments to Bachelor Degree Regulation 1. (1).

Resolved:  
AC/23/2006 to RECOMMEND to Senate to amend the following regulation as indicated below [additions in **bold**]:

Bachelor Degree Regulations 1.(1)  
Insert: *Bachelor of Media (BMedia)*  
Insert: *Bachelor of Mass Communication (BMassComm)*
26. **REVIEWS OF THE INSTITUTE FOR SUSTAINABILITY & TECHNOLOGY POLICY, SCHOOL OF SOCIAL SCIENCES & HUMANITIES AND UNIVERSITY STUDENT SERVICES**

Summary tables of recommendations from the review panels, along with responses from the Division, the Research and Development Board and the advice of the President were attached to the agenda.

Resolved:  
(i) to adopt the recommendations of the Institute for Sustainability & Technology Policy Review Panel as modified by the President in Column 4;  
(ii) to adopt the recommendations of the School of Social Sciences & Humanities Review Panel as modified by the President in Column 4; and  
(iii) to adopt the recommendations of the University Student Services Review Panel as modified by the President in Column 4.

27. **ACADEMIC ORGANISATIONAL UNIT REVIEW SUMMARY - SCHOOL OF ENGINEERING SCIENCE**

There is a time lag of several months between the completion of an Academic Organisational Unit (AOU) review and the presentation to Council of the recommendations from that review.

Resolved:  
AC/25/2006  
to note the summary of the review of the School of Engineering Science as attached to the agenda.

28. **MEMBERSHIP – ASSESSMENT COMMITTEE**

Mrs Suellen Tapsall has resigned from her position as Chair of the Assessment Committee and attended her last meeting in that capacity on Thursday, 19 January, 2006 creating a casual vacancy. In accordance with AC/154/2004 the President of Academic Council has recommended Professor Stuart Bradley to be appointed as Chair of the Assessment Committee.

The Chair formally acknowledged the influence Mrs Tapsall had on the establishment of both the Assessment Committee and the Student Appeals Committee, including her work on the Working Party that recommended the establishment of them. Her work on this, as with her involvement on other University matters, was efficient and effective. The Chair stated she would be sorely missed by Murdoch University. The meeting recorded its appreciation by acclamation.

Resolved:  
AC/26/2006  
to appoint Professor Stuart Bradley as Chair of the Assessment Committee with his term of office expiring December 31, 2007.

29. **SPECIAL CONSIDERATION FOR CREDIT POINTS – MASTER BY COURSEWORK**

In accordance with Master by Coursework Degree Regulation, Clause 40, the President granted 33 specific credit points to Mr David M Cockram towards his Master of Applied Psychology (Clinical). Prior to this the President consulted with the Program Chair and assessed the units completed by the student at the University of Canberra, as effectively equivalent.

[Secretary’s note: In the agenda the student was incorrectly identified as Mr Sandy Williams.]
Resolved: to ratify the actions of the President of Academic Council to grant an exemption from
AC/27/2006 Master by Coursework Degree Regulations by allowing the granting of 33 points Specific
Credit to Mr David M Cockram towards his Master of Applied Psychology (Clinical).

30. REPORTS FROM WORKING PARTIES

The President of Academic Council granted extensions of time for reporting to the following
Working Parties:

- Assessment Committee – 12 April 2006

31. SENATE

At its meeting on 22 November 2005, Senate approved the following recommendations generated
from the Academic Council meeting of 2 November 2005:

- Amendments to Diploma Regulations Master by Coursework Degree Regulations –
  reflecting minor correction to course names.

The meeting ended at 2.10 pm

<table>
<thead>
<tr>
<th>FUTURE MEETING DATES</th>
<th>DOCUMENT DEADLINE</th>
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<tr>
<td>2006</td>
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<tr>
<td>Wednesday 15 March 2006</td>
<td>Friday 3 March 2006</td>
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<tr>
<td>Wednesday 12 April 2006</td>
<td>Friday 31 March 2006</td>
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<tr>
<td>Wednesday 17 May 2006</td>
<td>Friday 5 May 2006</td>
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<tr>
<td>Wednesday 14 June 2006 (Rockingham)</td>
<td>Friday 2 June 2006</td>
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<tr>
<td>Wednesday 19 July 2006</td>
<td>Friday 7 July 2006</td>
</tr>
<tr>
<td>Wednesday 13 September 2006</td>
<td>Friday 1 September</td>
</tr>
<tr>
<td>Wednesday 1 November 2006</td>
<td>Friday 20 October 2006</td>
</tr>
</tbody>
</table>

Signed as a true record of the meeting of Academic Council held on 25/01/2006.

Professor Michael Borowitzka - CHAIR

Dated: , 2006
Effective date: 13/02/2006

Result: In accordance with Senate Standing Order 3.9.5, an absolute majority of members of the committee voted in favour of the resolution below.

Members eligible to vote: Kate O’Brien (Chair) Janice Bowra Gabriel Moens
Mal Bradley John Pease
Alison Gaines Prof John Yovich

Abstentions: Nil

Secretary: Samantha Summerton

Apologies: Not applicable

Official attendees: Not applicable

Observers: Not applicable

1. DECLARATIONS OF INTEREST (SENATE STANDING ORDERS CLAUSE 4.2)

Nil.

2. CONFIRMATION OF MINUTES

Not applicable.

3. AMENDMENT OF REGULATIONS

The committee noted that on 02/11/2005 and 25/01/2006 the Academic Council recommended that Senate amend the following regulations to recognise new course offerings (changes marked up on attached extracts of each regulation):

Page 3
(i) Diploma Regulation 1(1)(b)
Page 4
(ii) Diploma Regulation 1(1)(c)
Page 5
(iii) Bachelor Degree Regulation 1 (1)
Page 6
(iv) Master by Coursework Degree Regulation 1(1)
Page 7
(v) Master by Coursework Degree Regulation 2(1)
Page 8
(vi) Student Appeals Committee Regulation 4
Page 9
(vii) Division Regulation 15(1)

Please note:
The General Counsel & University Secretary has suggested an alternative wording for the amendment to the Division Regulations. The President of the Academic Council concurs with the suggested changes.

4. AMENDMENT OF STATUTES

Page 10
(i) Statute 5-Academic Council
The committee noted that on 25/01/2006 the Academic Council recommended that Senate amend Statute 5–Academic Council by removing the Pro Vice Chancellor (Regional Development) as a member of the Academic Council ex officio, and replacing this position with the Pro Vice Chancellor (Corporate), in keeping with the recent restructure of the Senior Executive. See changes marked up on the extract of the statute.

**Resolved:** LC/01/2006

To recommend to Senate that it approve the following regulations and statutes in the terms marked up:

(i) Diploma Regulation 1(1)(b)
(ii) Diploma Regulation 1(1)(c)
(iii) Bachelor Degree Regulation 1(1)
(iv) Master by Coursework Degree Regulation 1(1)
(v) Master by Coursework Degree Regulation 2(1)
(vi) Student Appeals Committee Regulation 4
(vii) Division Regulation 15(1)
(viii) Statute 5–Academic Council
<table>
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<th>25/01/2006</th>
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<tr>
<td>Academic Council resolution number:</td>
<td>AC/21/2006</td>
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<tr>
<td>Date of Legislation Committee endorsement:</td>
<td>13/02/2006</td>
</tr>
<tr>
<td>Legislation Committee resolution number:</td>
<td>LC/01/2006</td>
</tr>
<tr>
<td>Proposed amendment: (all changes to be shown in mark-up)</td>
<td>1(1)(b) The following Diplomas shall be offered by the University: Graduate Diplomas in: Accounting (GradDipAcc), Applicable Mathematics (GradDipAppMath), Applied Economics (GradDipAppEcon), Applied Language Education (LOTE) (GradDipAppLangEd), Applied Statistics (GradDipAppStats), Arts (GradDipA), Asian Language Education (GradDipAsianLangEd), Asian Studies (GradDipAsianSt), Business Information Technology (GradDipBusIT), Computer Studies (GradDipCompSt), Counselling (GradDipCounsel), Creative Arts (GradDipCA), Development Studies (GradDipDevSt), Education (GradDipEd), Education Studies (GradDipEdSt), Environmental Science (GradDipEnvSc), Extractive Metallurgy (GradDipExtMet), Health, Safety and the Environment (GradDipHSE), Human Resource Management (GradDipHRM), Information Systems (GradDipInfoSys), Journalism (GradDipJour), Knowledge Management (GradDipKnowlMngt), Mathematics and Statistics (GradDipMathsStats), Media Management (GradDipMedMan), Media Production (GradDipMedProd), Mineral Science (GradDipMinSc), Nanoscience (GradDipNano), Pharmacy Entry (GradDipPharmEnt), Physics (GradDipPhys), Road Safety Studies (GradDipRSS), Science (GradDipSc), Social Science (GradDipSocSc), Theological Studies (GradDipTheolSt), Tourism (GradDipTour), Women’s Studies (GradDipWomSt);</td>
</tr>
</tbody>
</table>
### Diploma Regulations

#### Proposed Amendment

<table>
<thead>
<tr>
<th>Date of Academic Council recommendation:</th>
<th>02/11/2005 and 25/01/2006</th>
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<tbody>
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<td>13/02/2006</td>
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<tr>
<td>Legislation Committee resolution number:</td>
<td>LC/01/2006</td>
</tr>
<tr>
<td>Proposed amendment: (all changes to be shown in mark-up)</td>
<td>1(1)(c) The following Diplomas shall be offered by the University:</td>
</tr>
</tbody>
</table>

- Postgraduate Diplomas in: Advanced Mental Health Nursing <specialisation>, Applied Molecular Biology Techniques (PgDipAppMolBiol), Arts (PgDipA), Asian Studies (PgDipAsianSt), Asian Sustainable Development (PgDipAsSDev), Business Administration (PgDipBusAdmin), City Policy (PgDipCityPol), Community Development (PgDipCommDev), Consulting Psychology (PgDipConsultPsych), Development Studies (PgDipDevSt), Ecological Public Health (PgDipEcolPubHlth), Ecologically Sustainable Development (PgDipESDev), Education (PgDipEd), Educational Computing (PgDipEdComp), Electronic Business (PgDipEB), Environmental and the Environment (PgDipEnvEnv), Energy Studies (PgDipEnSt), Environmental Forensics (PgDipEnvFor), Environmental Impact Assessment (PgDipEnvImpAss), Environmental Management (PgDipEnvMan), Extractive Metallurgy (PgDipExtMet), Games Technology (PgDipGamesTech), Human Resource Management (PgDipHRM), Information Technology (PgDipIT), Internetworking and Security (PgDipIntwkSecur), Knowledge Management (PgDipKnowlMngt), Mental Health Nursing (PgDipMHNurs), Mental Health Nursing (Registration) (PgDipMHNurs[Reg]), Neuromusculoskeletal Rehabilitation (PgDipNeurRehab), Physics (PgDipPhys), Policy Studies (PgDipPolSt), Professional Experience (fieldname) (PgDipProfExp[fieldname]), Psychology (PgDipPsych), Public History (PgDipPubHist), Public Management (PgDipPubMan), Public Policy (PgDipPubPol), School Management (PgDipSchMangt), Science (PgDipSc), Science and Technology Policy (PgDipScTechPol), Social Research and Evaluation (PgDipSocResEval), Social Science (PgDipSocSc), Sports Chiropractic (PgDipSportsChiro), Telecommunications Management (PgDipTelMan). |
## Bachelor Degree Regulations

### Proposed Amendment

| Date of Academic Council recommendation: | 25/01/2006 |
| Academic Council resolution number:     | AC/23/2006 |
| Date of Legislation Committee endorsement: | 13/02/2005 |
| Legislation Committee resolution number: | LC/01/2006 |

**Proposed amendment:**

1(1) The following bachelor degrees shall be offered by the University:
- Bachelor of Animal Science (BAnimSc),
- Bachelor of Applied Economics (BAppEcon),
- Bachelor of Applied Information Technology (BAppIT),
- Bachelor of Applied Science (BAppSc),
- Bachelor of Arts (BA),
- Bachelor of Asian Area Studies (BAAS),
- Bachelor of Asian Studies (BAAsianSt),
- Bachelor of Asian Studies (Specialist) (BAAsianSt),
- Bachelor of Biotechnology (BBiot),
- Bachelor of Business Administration (BBusAdmin),
- Bachelor of Business Informatics (BbusInformatics),
- Bachelor of Business Information Technology Studies (BBusITSt),
- Bachelor of Chiropractic (BChiro),
- Bachelor of Commerce (BCom),
- Bachelor of Community Studies (BCommSt),
- Bachelor of Computer Studies (BCompSt),
- Bachelor of Development Studies (BDevSt),
- Bachelor of Divinity (BD),
- Bachelor of Economics (B Econ),
- Bachelor of Education (BEd),
- Bachelor of Education Studies (BEdSt),
- Bachelor of Engineering (BE),
- Bachelor of Engineering Science (BEngSc),
- Bachelor of Environmental Impact Assessment (BEIA),
- Bachelor of Environmental Science (BEnvSc),
- Bachelor of Extractive Metallurgy (BExtMet),
- Bachelor of Finance and Economics (BFinEc),
- Bachelor of Health Sciences (BHSc),
- Bachelor of Information Systems Studies (BInfoSysSt),
- Bachelor of International Business (BIB),
- Bachelor of Journalism (BJour),
- Bachelor of Laws (LLB),
- Bachelor of Legal Studies (BLS),
- Bachelor of Literature and Communication (BLittComm),
- Bachelor of Marketing and the Media (BMM),
- Bachelor of Mass Communication (BMassComm),
- Bachelor of Media (BMedia),
- Bachelor of Media Production (BMedPr),
- Bachelor of MultiMedia (BMMedia),
- Bachelor of Nursing (BNurs),
- Bachelor of Nursing Conversion (BNursConv),
- Bachelor of Policy Studies (BPolSt),
- Bachelor of Professional Studies (Education) (BProfSt),
- Bachelor of Psychology (BPsych),
- Bachelor of Science (BSc),
- Bachelor of Technology (B Tech),
- Bachelor of Theology (BTheol),
- Bachelor of Tourism (BTour),
- Bachelor of Veterinary Medicine and Surgery (BVMS),
- Bachelor of Women’s Studies (BWomSt).
<table>
<thead>
<tr>
<th>Date of Academic Council recommendation:</th>
<th>25/01/2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Council resolution number:</td>
<td>AC/22/2006</td>
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<td>13/02/2006</td>
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<tr>
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<td>LC/01/2006</td>
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<tr>
<td>Proposed amendment:</td>
<td>1(1)</td>
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<tr>
<td>(all changes to be shown in mark-up)</td>
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<td></td>
<td>The following Degrees of Master by Coursework shall be offered by the University: joint Master of Applied Psychology/Doctor of Philosophy (MAppPsych/PhD), Master of Applied Psychology (MAppPsych), Master of Arts (MA), Master of Business Administration (MBA), Master of Education (MEd), Master of Education Studies (MEdSt), Master of Electronic Business (MEB), Master of Electronic Commerce (MEC), Master of Engineering (ME), Master of Human Resource Management (MHRM), Master of International Business (MIB), Master of Laws (LLM), Master of Medical Engineering (MME), Master of Ministry (MMin), Master of Natural Systems Engineering (MNatSysEng), Master of Pharmacy (MPharm), Master of Professional Accounting (MPA), Master of Science (MSc), Master of Science in Environmental Architecture (MScEnvArch), Master of Theology (MTheol), Master of Transport Studies (MTransSt), Master of Veterinary Studies (MVS), MBA in Aviation Management (MBAAvnMan), MBA in Health Services Management (Nursing Leadership) (MBAHSM) and MBA in International Business (MBAIntBus).</td>
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<td>2(1)</td>
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<td>To qualify for the ordinary degree of master a student shall complete the points shown below:</td>
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<tr>
<td></td>
<td>Master of Applied Psychology  48 points</td>
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<tr>
<td></td>
<td>Master of Arts</td>
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<tr>
<td></td>
<td>— in Asian Studies           48 points</td>
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<td></td>
<td>— in Asian Sustainable Development 48 points</td>
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<td></td>
<td>— in City Policy             48 points</td>
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<td></td>
<td>— in Community Development   48 points</td>
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<td></td>
<td>— in Development Studies     48 points</td>
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<td></td>
<td>— in Ecologically Sustainable Development 48 points</td>
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<td>— in Globalisation and Governance 24 points</td>
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<td></td>
<td>— in Literature and Communication 24 points</td>
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<td>— in Local Governance        48 points</td>
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<td>— in Public Administration   48 points</td>
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<td>— in Public History          48 points</td>
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<td>Degree Program</td>
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<td>-------------------------------------------------------------------------------</td>
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<tr>
<td>in Public Policy</td>
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<tr>
<td>in Science and Technology Policy</td>
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<td>in Social Research and Evaluation</td>
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<td>in Theological Studies</td>
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<tr>
<td>Master of Business Administration</td>
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<td>Master of Education</td>
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<tr>
<td>Master of Education Studies</td>
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<tr>
<td>Master of Electronic Business</td>
<td>48</td>
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<tr>
<td>Master of Electronic Commerce</td>
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<td>Master of Engineering</td>
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<td>Master of Human Resource Management</td>
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<tr>
<td>Master of International Business</td>
<td>48</td>
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<tr>
<td>Master of Laws</td>
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<tr>
<td>Master of Medical Engineering</td>
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<td>Master of Ministry</td>
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<tr>
<td>Master of Natural Systems Engineering</td>
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<tr>
<td>Master of Pharmacy</td>
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<td>Master of Professional Accounting</td>
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<td>Master of Science</td>
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<tr>
<td>Master of Science in Environmental Architecture</td>
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<td>Master of Science in Extractive Metallurgy</td>
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<td>Master of Science in Information Technology</td>
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<tr>
<td>Master of Science in Renewable Energy</td>
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<td>Master of Science in Telecommunications Management</td>
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<td>Master of Theology</td>
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<td>Master of Transport Studies</td>
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<td>Master of Veterinary Studies</td>
<td>24</td>
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<tr>
<td>Master of Veterinary Studies in Conservation Medicine</td>
<td>24</td>
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<tr>
<td>Master of Veterinary Studies in Veterinary Surveillance</td>
<td>24</td>
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<tr>
<td>MBA in Aviation Management</td>
<td>48</td>
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<tr>
<td>MBA in Health Services Management</td>
<td>48</td>
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<tr>
<td>MBA International Business</td>
<td>48</td>
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</table>
### Proposed Amendment

4  Academic Council will appoint the Chair, an alternate for the Chair, and a panel of up to **eight** academic staff from whom the two other academic staff members will be drawn for any meeting of the Committee. The alternate for the Chair will be of the rank of Associate Professor or Professor. Executive Deans are ineligible for appointment to the Committee.
DIVISION REGULATIONS
PROPOSED AMENDMENT

Date of Academic Council recommendation: 02/11/2005

Academic Council resolution number: AC/170/2005

Date of Legislation Committee endorsement: 13/02/2006

Legislation Committee resolution number: LC/01/2006

Proposed amendment: (all changes to be shown in mark-up)

15(1) Each School shall have a School Committee, except where the Divisional Board determines that two or more Schools shall have one common School Committee. The Committee has the following responsibilities:

(a) to advise the School Head on resource and strategic academic issues;

(b) to recommend to the Divisional Board on the structure of the courses and majors in the School; any alterations to their requirements; and on the units to be offered by them, including their title, points value and enrolment options;

(c) to determine the content, prerequisites and teaching and assessment methods of individual units offered by the School;

(d) to ensure the assessment methods of individual units comply with the Assessment policy;

(d) to ensure that the assessment methods of individual units comply with the University’s Assessment Policy in force from time to time;

(4e) to exercise academic oversight of the units offered by staff of that School;

(4f) to approve the School Role Statement for the School Review, and to determine the School’s response to the report of that review;

(4g) such other responsibilities as may be assigned by Regulations, Rules, Academic Council, the Divisional Board or by the Executive Dean;

General Counsel & University Secretary’s suggested alternative

| Diploma, Certificate, and Advanced Diploma Regulations | Proposed Amendments |
### STATUTE 5 – ACADEMIC COUNCIL

#### PROPOSED AMENDMENT

<table>
<thead>
<tr>
<th>Date of Academic Council recommendation:</th>
<th>25/01/2006</th>
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<tbody>
<tr>
<td>Academic Council resolution number:</td>
<td>AC/3/2006</td>
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<tr>
<td>Date of Legislation Committee endorsement:</td>
<td>13/02/2006</td>
</tr>
<tr>
<td>Legislation Committee resolution number:</td>
<td>LC/01/2006</td>
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</tbody>
</table>

#### Proposed amendment: (all changes to be shown in mark-up)

2. The members of the Academic Council shall be:

(b) The persons holding the following offices, ex officio—

- Vice-Chancellor;
- Executive Deans of Divisions;
- President of the Guild of Students;
- Pro Vice-Chancellor (Academic);
- Pro Vice-Chancellor (Regional Development);
- Pro Vice Chancellor (Corporate);
- Pro Vice-Chancellor (Research);
- Pro Vice-Chancellor (Strategy);
- Education Vice-President of the Guild of Students
## Senate Meeting Dates 2006

<table>
<thead>
<tr>
<th>Future Senate Meeting Dates</th>
<th>Deadline for Agenda Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, 05/04/2006 (Peel campus)</td>
<td>Thursday, 23/03/2006</td>
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<tr>
<td>Wednesday, 03/05/2006</td>
<td>Thursday, 20/04/2006</td>
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<tr>
<td>Wednesday, 07/06/2006</td>
<td>Thursday, 25/05/2006</td>
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<tr>
<td>Wednesday, 12/07/2006</td>
<td>Thursday, 29/06/2006</td>
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<tr>
<td>Wednesday, 06/09/2006</td>
<td>Thursday, 24/08/2006</td>
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<tr>
<td>Wednesday, 25/10/2006</td>
<td>Thursday, 12/10/2006</td>
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</tbody>
</table>

All Senate meetings will commence at 4.30 pm.
Bishop to continue reform agenda

LAWYER and West Australian MP Julie Bishop will step into the Education, Science and Training portfolio after a cabinet reshuffle yesterday elevated Brendan Nelson to the senior role of Defence Minister.

After four years of higher education reform, Dr Nelson will hand the baton to Ms Bishop, formerly aged care minister. She said she was thrilled to take charge of education, which had long been a passion of hers. "I believe education is a life-long process; it starts with our children at an early age and it ought to be a life-long commitment," she said.

Ms Bishop will have carriage of a radical range of reforms introduced by Dr Nelson, some of which are yet to be implemented. She paid tribute to his "reformist zeal". "I hope to continue some of the initiatives and policies he has put in place," she said.

"A number of them do need bedding down and that will be a challenge, but I'm certainly relishing the prospect of being in that role."

Vice-chancellors have supported Dr Nelson's attempts to free up the fee market but have railed against an increase in bureaucratic intervention in their day-to-day affairs. This will be one of Ms Bishop's biggest challenges: to realign the Government's market principles with its demands for accountability.

Greg Craven, director of the John Curtin Institute of Public Policy, hailed Ms Bishop's elevation as "an outstanding appointment." "She is highly intelligent, very focused and an excellent listener, and I expect she would be a very effective minister," Professor Craven said. "One challenge she might have in higher education is stabilising the pace of reform. There have been some very good reform ideas but there are an awful lot of them, and there might be some need for ordering and prioritisation."

"I think she would be a selective reformer. I think she would carefully pick her targets for maximum strategic effect and then do them."

Dr Nelson's departure has received a mixed response. National Tertiary Education Union president Carolyn Allport said he had overseen substantial rises in tuition fees, a deterioration in infrastructure and resources, and unprecedented interference in the day-to-day operations of universities. But Dr Allport said he had made an effort to consult widely and seemed genuinely concerned with issues of quality and advancing educational opportunities.

The National Union of Students president Rose Jackson said: "To Nelson, we say good riddance to bad rubbish ... what we will remember from his era is rising cost and decreasing access."

Higher education policy specialist Simon Marginson of Monash University said DrNelson's legacy was "half finished, but considerable". "He's remade the sector. He's been the most important minister since [Labor's John Dawkins], but more than the Dawkins settlement, his is an unfinished settlement," Professor Marginson said. He said Ms Bishop and the Government were confronted by a stark choice: allow the universities real flexibility to pursue full-fee paying students or go back to the days when universities depended on the commonwealth for a high level of funding.

The Australian Vice-Chancellors Committee did not return calls from the HES yesterday. Several vice-chancellors saw less government regulation as a priority for the new minister. "The regulation is overbearing at the moment," said Ian Goulter, vice-chancellor of Charles Sturt University.

The University of Queensland's acting vice-chancellor Paul Greenfield, said the Nelson reforms, in theory, gave universities more freedom but this was countered by the commonwealth's micromanagement. Monash vice-chancellor Richard Larkins said Dr Nelson had been a committed advocate for quality but he pointed to the minister's failure to secure proper indexation of university grants as a significant issue.

In her 1998 maiden speech to parliament, Ms Bishop had talked about the importance of the information economy and the role of the education sector. "We need a national skills base as a critical component of a national comparative advantage," she said at the time. "We need to equip our people with an enhanced knowledge base through education, as intellectual capital will be the key to prosperity and stability."

A University of Adelaide law graduate, she moved to Perth, where she became a managing partner with Clayton Utz and at one stage sat on the Murdoch University senate. Touted as a rising star and close political ally of Treasurer Peter Costello, she became aged care minister in 2003. In a ringing endorsement of Bishop at the opening of her Perth electorate office in 2000, Mr Costello said: "This is a Bishop [who] will go all the way to the Vatican."