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## From the Director: ISTP and the Sustainability Transition

Sustainability has become a major force in global politics. Forged out of the conflicts in the 1980's between environmentalists and economists, sustainability has become a powerful way to frame the world and develop policy. Myerson and Rydin<sup>1</sup> say: 'Sustainability could be called the post modern equivalent of a grand narrative, replacing the modernist grand narrative of the twentieth century'. This is a big call as it is still early days in the development of this new approach to integrating across environmental, economic and social perspectives in order to solve the long term, deeper issues of our day.

ISTP was formed as the concept of sustainable development was first being examined across the world. It has grown with it and in our own way we have helped to contribute to it. We are now the largest research institute in Australia with a focus on sustainability and one of the largest in the world.

One of the unique characteristics of ISTP is that we are closely involved in the development of policy on sustainability. Throughout the nineties we were asked to help draft policies in WA, in other states and to help in particular cities across the world. But the opportunity that I was given in 2001 to 2003 was a very special chance as I was seconded to write the WA State Sustainability Strategy. I did this by using 50 ISTP students who wrote background papers and case studies and in the process learnt a great deal about sustainability policy. The wonderful thing about this is that Murdoch has a structure that enables students to do such important and useful work as part of their studies, whether as undergraduates or postgraduates.

This Annual Report is about 2004 and now that I am back full time at ISTP I can see what a special place we have. We have a unique collection of staff and students with a great array of skills and backgrounds, many from overseas. We are however united by a common desire to seek how to make sustainability mean something in our world. This means we have to do more research, we have to think more, we have to worry more, we have to make our teaching count a lot more... The data in this Annual Report shows a group that has an outstanding record in research and teaching. We are proud of this, but it's not our goal to seek that – it is our goal to try and make a difference.

It's a privilege to be a part of ISTP.

*Professor Peter Newman*

# Introduction

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## Introduction

In 2004 the ISTP continued to be the largest research centre in Australia on sustainability and amongst the largest in the world.

The Institute for Sustainability and Technology Policy (ISTP) was founded in 1988 through a Western Australian Government grant. The Institute is now an independent School within the Division of Arts at Murdoch University whilst actively contributing across the University to Murdoch's Technologies and Policies for Sustainable Development (TAPS) area of research strength.

**Vision:** The ISTP is Australia's leading provider of education, research and policy advice on sustainability.

**Role:** Within Murdoch University ISTP provides:

- Coordination and teaching of cross-disciplinary courses at undergraduate and postgraduate level in sustainability;
- A centre for research on sustainability;
- A school-based administrative structure for its academic staff, research and undergraduate students;
- Support for governance, especially governments at all levels on their policies for sustainability;
- Advice and training to industry on the application of sustainability and
- A facilitatory role for community activity and engagement in sustainability by its staff and students.

In 2004 the Institute continued to be a dynamic research and teaching place. It had 137 undergraduate students in its Bachelor of Arts/Bachelor of Science in Sustainable Development degree including 20 enrolled in the Honours Program.

The ISTP has a strong tradition in postgraduate teaching and research, and the 2004 postgraduate enrolment attested to:

Doctor of Philosophy*	47
Research Master and Master of Philosophy*	13
Master by Coursework	30
Postgraduate Diploma	41
Postgraduate Certificate	10

\* Making 60 postgraduate equivalent fulltime research students in the ISTP but as shown in the table on pages 35-37 it is 79 actual research students.

The trends in equivalent full-time student units (EFTSU) load are presented in Table 1.

**Table 1. ISTP EFTSU, 1999-2004 (Semester 1)**

	Higher Degree		Other PG	Undergrad	Enabling/	TOTAL
	Research	Coursework			Non-award	
1999	41	18	5	101	1	166
2000	38	21	9	101	2	172
2001	42	24	8	96	0	170
2002	39	18	17	90	0	164
2003	42	13	14	104	1	174
2004	43	18	16	99	0	176

**Source:** Office of Policy and Planning Load Statistics: Load by AOU and Level - 1st semester. <http://www.plan.murdoch.edu.au/stats/student/table2-4/default.asp>

The list of international visitors to ISTP continued to expand in 2004. Professor Anthony Weston was visiting scholar in Ecophilosophy for 4 months (March–June). He co-taught “Ecophilosophy and Practice” with Patsy Hallen. In July 2004 after completing a PhD at Rutgers University in New Jersey, John Renne returned to ISTP for a year as a Visiting Research Fellow at the Planning and Transport Research Centre (PATREC), working on transit-oriented development for Perth around the electric rail system. In September, Craig Townsend also returned to ISTP for 4 months as a visiting research fellow for a PATREC study on the costs and benefits of the Southern Suburbs Railway.

The close partnership between ISTP and the Western Australian State Government was continued when Professor Peter Newman was made Chair of the WA Sustainability Roundtable, which provides advice to the Premier on how to implement sustainability in the community, business and the regions. John Phillimore remained on secondment to the State Government during 2004 as Chief of Staff to the Minister for Local Government and Regional Development; Heritage; the Kimberley, Pilbara & Gascoyne, Goldfields-Esperance.

Professor Newman was made a NSW Sustainability Commissioner. This is a three year term where advice is provided to the NSW Minister for Infrastructure, Planning and Natural Resources on the sustainability of strategic planning for Sydney and the coasts.

Dora Marinova remained Head of School and in charge of the academic operation of the Institute. She was elected Fellow of the International Modelling and Software Society. Michael Booth had the last six months of 2004 on Outside Studies Leave. He spent two months in Europe and North America visiting Essex, Oxford, Toronto, Boston and Stanford Universities. Laura Stocker was promoted to Senior Lecturer.

In 2004 ISTP employed two new staff members, Steve Kinnane and Brad Pettitt, who brought new experience and knowledge in the areas of indigenous sustainability and international development respectively.

Steve Kinnane is the author of the award winning book *Shadow Lines*, a study in Indigenous and Nyungar culture. In 2004, Radio National broadcasted over 10 episodes of *Shadow Lines* across Australia. Steve taught units in both the Indigenous Studies and Sustainable Development programs. At the end of 2004 Steve was offered and accepted a three year research fellowship at the Australian Institute for Aboriginal and Torres Strait Islander Studies (AIATSIS) in Canberra.

Brad Pettitt returned to ISTP after several years working in the field of international development, including working with Oxfam in Cambodia and the Australian Government Aid Program (AusAID) in Canberra. Brad previously completed his PhD at ISTP in the area of NGOs and international development.

The ISTP weekly seminar series attracted excellent speakers and a large audience throughout the year. The morning tea and seminar on Thursday 11am-12.30pm remains a major community building event for ISTP.



*ISTP staff at Patsy Hallen's house for our annual planning day*

## Teaching

The Institute's strong commitment to teaching was reflected in many favourable reviews of all ISTP units in both *Teaching and Learning Centre* surveys and in the Student Guild's *Alternative Handbook*. The ISTP is the School with the highest percentage of favourable survey responses at Murdoch (above 93%) for 2003 (data for 2004 not yet available). This reflects the outstanding popularity and excellence of its teaching. Its staff once again featured prominently in the nominations for the Vice Chancellor's Excellence in Teaching Awards. Patsy Hallen was short-listed for the Vice Chancellor's Award and in recognition of this was invited to present a 30-minute teaching session to Murdoch University staff and the Selection Panel. Sally Paulin was also nominated for an Excellence in Teaching award in Semester 2. The Institute has established a tradition in quality and attention to student needs, which is being reinforced by the work of its newer and more junior members.

A new degree at undergraduate and postgraduate level called Local Governance was created under ISTP's management. It was officially launched in December by the Western Australian Minister for Planning and Infrastructure Alannah MacTiernan. This degree combines units from ISTP, Community Development, Public Policy and Business. Its major target is local government though its approach is to demonstrate creative ways of governance at the local level through new approaches to engagement between government, business and the community.

Brad Pettitt replaced Michael Booth as Program Chair for Sustainable Development. Ian Barns was Program Chair for Masters by Coursework. Jeff Kenworthy remained the ISTP Senior Academic and acted as Head of School during any absences by Dora Marinova. He was also the Program Chair for Research Masters by Training, the Murdoch University coordinator for the collaborative Master of Transport Studies (a joint programme between Murdoch, Curtin, UWA and ECU) and Murdoch member of the Academic Advisory Board for the degree. Peter Newman is the Program Chair for the new Local Governance degree.

Patsy Hallen continued to teach the innovative unit Ecophilosophy and Practice which combines intensive, interactive academic learning with substantial backpacking expeditions in the Australian bush.



*Dora Marinova, Gary Martin,  
Alannah McTiernan and Peter  
Newman at the launch of the  
Local Governance degrees  
– December 2004*

Postgraduate research and supervision continued to be a major component in ISTP's work. The new research students' seminar presentation to a panel of staff and fellow-students before the submission of their program of study continued in 2004. This proved to be very useful as it enables more people to familiarise themselves with the various new research projects at ISTP, as well as giving the opportunity to the students to share their ideas and receive feedback, encouragement and suggestions.

The demand for ISTP graduates continued to be very strong with more than three quarters of graduates finding employment within 6 months of completion of their studies (see Table 2).

**Table 2. Employment Outcomes**

Graduate Destination Survey: Employment Outcomes					
Divisions & Schools	Year of Survey				
	2000	2001	2002	2003	2004
Business	72%	72%	65%	64%	67%
Education	81%	89%	83%	87%	76%
Information Technology	82%	81%	59%	64%	60%
Law	88%	87%	86%	79%	76%
Media Communication & Culture	68%	68%	54%	49%	55%
Arts *	68%	56%	44%	52%	54%
Asian Studies *	85%	74%	47%	57%	53%
Social Inquiry *	67%	61%	53%	54%	64%
Politics & International Studies *	85%	87%	70%	83%	69%
Sustainability & Technology Policy	61%	85%	52%	74%	77%
Arts - Other				100%	50%
Social Sciences & Humanities				62%	60%
Total Division of Arts	75%	75%	65%	66%	67%
Total Division of Health Sciences	73%	71%	70%	68%	67%
Total Division of Science and Engineering	67%	73%	60%	59%	59%
<b>TOTAL MURDOCH</b>	<b>73%</b>	<b>75%</b>	<b>65%</b>	<b>65%</b>	<b>65%</b>

\* No longer exists as a separate school.



## Awards

ISTP staff and students continue to win awards for their academic excellence and community contribution. Some of the 2004 ISTP award winners are featured below.

In 2004 Jeff Kenworthy was nominated for the 3rd year in a row for the VC's Excellence in Supervision Award. Patsy Hallen was a finalist in the Excellence in Teaching Awards. Dora Marinova was elected an Inaugural Fellow of the International Environmental Modelling and Software Society (IEMSS) based in Switzerland.

In 2004 Steve Kinnane's *Shadow Lines* was the joint winner of the non-fiction prize at the WA Premier's Book Awards. *Shadow Lines*, published by Fremantle Arts Centre Press is a study in Indigenous culture. According to Debra Fletcher from the Centre for Western Australian History, the book "is a stunning work, straddling the genres of lay and academic history" and a "masterpiece... for any researcher who has investigated Nyungar culture". In 2004, Radio National broadcasted over 10 episodes of *Shadow Lines* read by its author whose voice reached thousands of houses across Australia. Steve Kinnane also attended the Brisbane Writers' Festival.

The ISTP undergraduate student Vivienne Elanta won the Vice Chancellor's Award for her highly distinguished academic career. Vivienne designed her own undergraduate degree in the area of environmental ethics. She was an enthusiastic and excellent student. Her sudden death in August 2004 was a tragedy for many people, both staff and students, but her example continues to inspire and enlighten. In memory of Vivienne the ISTP has set up a new award for academic and environmental excellence called The Vivienne Elanta Yummy Book Fund. This award will start in 2005 and is intended to provide funding assistance for book purchasing to the sum of \$300.

In 2004 Rhiannon Russell's thesis on the Perth to Mandurah rail line and the opportunities and challenges it presents for transit-oriented development (TOD) in Perth received a Planning Institute of Australia award for planning excellence, and also received the WA Minister's award for planning. Rhiannon also wrote a paper on delivering TOD based on the research from her thesis, which won the 2004 National Transport Student Paper Prize Competition. The National Committee on Transport (NCTR) of The Institution of Engineers Australia conducts this annual paper prize competition for students.

Steve Smith, who is completing a Masters in City Policy at the ISTP, was in 2004 awarded the inaugural Stuart Hart Award offered by Planning South Australia to recognise talent and achievement within the planning profession. As the recipient of this award, Steve will in 2005 be embarking on a transit-oriented development study tour of Europe and North America, which will form the basis for his Master of Arts Dissertation.



# Graduating Students

The ISTP's 2004 graduates are now using their knowledge, skills and passion to make a difference. Some of their stories are enclosed on the following pages.

GRADUATING STUDENT

# Lauren Holst

BA Sustainable Development

BSc Conservation Biology

*and is now a Tidy Towns Program Officer  
at the WA Department of Environment:*

“The WA Tidy Towns program was the first program of its kind to be run in Australia and is now 36 years old. The history of the program lies in the beautification and promotion of regional towns, where the prevention of littering and street appearance was seen as paramount. The program has changed with the times and now embodies the ethos of community involvement and the principles of sustainability. Tidy Towns is a fantastic initiative that empowers regional communities to create a more sustainable future for their town, and develop local solutions to the issues of sustainability. This year we have had 79 towns enter, a 43% increase on last year’s registration.”

“Day to day I am responsible for the administration of the program: registering entrants, compiling and distributing newsletters, and building new relationships with possible partners. In addition I also have input into the development of the program itself: how to promote the program to more towns, a framework for involving indigenous communities (10 have entered this year), and young people. I will also have the opportunity to travel to remote indigenous communities in the Kimberley for judging purposes.”

“One of the most valuable skills that I have gained through studying within ISTP is the ability to think and work across disciplines and agencies. It is great to work with a group of people who are passionate and open to this. My studies at university also led me to investigate the ways in which it might be possible to make the concept of sustainability more accessible to the wider public and how we might empower communities to work towards sustainability. Through community-led action and community cultural development, I believe that place-based solutions may be realised by communities themselves. Instances of both of these processes abound within the Tidy Towns program and are a constant source of inspiration. I enjoy my work a great deal and feel very passionately about working on a program that empowers, promotes and educates communities throughout Western Australia about the concept of sustainability.”

“Good luck and best wishes to all those studying or thinking of studying at the ISTP. The experience is invaluable and the friendships I have forged with both students and lecturers alike extend beyond the university walls, and I will treasure them always.”

*Lauren Holst, BA Sustainable Development*

GRADUATING STUDENT

# Jenny Young

**BSc Sustainable Development  
(Honours)**

*After graduating in Sustainable Development and Environmental Science, Jenny Young is now the Field Office Manager in the Fremantle office of the organisation Socialdata:*

“As Socialdata’s Field Office Manager, I am currently involved in a project called TravelSmart which encourages people to use environmentally friendly modes of transport such as cycling, walking and public transport. This project tackles the issue of urban transport by addressing the needs of each individual household and by providing information on how to alternate the modes of transport used.”

“I’ve found this job to be challenging (in all the good ways) and it enables me to use many of the skills I learnt at University. The skills I acquired during my university studies have proved to be critical to my daily activities. Through my studies I learnt how to manage a number of different tasks at the same time, how to meet deadlines and how to interact with people. I’ve also found that the units I’ve studied have provided an essential background for my job and have allowed me to provide input within my work environment.”

*Jenny Young, BSc Sustainable Development (Honours)*

## GRADUATING STUDENT

# Simone Ruane

## BSc Sustainable Development (Honours)

*Soon after completing a Sustainable Development Honours dissertation in July 2004, Simone Ruane was recruited to the Community Arts Network Western Australia (CAN WA), a not-for-profit organisation which has a key focus on Community Cultural Development (CCD) and Community Arts in Western Australia:*

“After completing my Sustainable Development studies, I was really keen to pursue my interest in community cultural development theory and practices, cultural planning processes, creative facilitation and training and their links to sustainability. Working at CAN WA enables me to do this. CAN WA’s mission is to ‘grow partnerships with, and provide training for, communities, artists, government, and community service organisations and businesses that contribute to sustainable community cultural, social, environmental and economic development’.”

“I was recently appointed as CAN WA’s permanent LiveworX Coordinator and I am extremely grateful to be given this opportunity. Through the utilisation of innovative and participatory methodologies, CAN WA’s LiveworX program aims to enhance the opportunities for young people to engage in and benefit from arts and culture. This includes providing effective and creative learning environments for young people to develop creative, interpersonal and vocational skills, and assisting young people to access further education and employment in the arts. Moreover, LiveworX supports the creation of places and spaces with, by and for young people to express themselves, develop their identity and pursue their dreams.”

“I am involved in a range of projects and tasks that support these overarching objectives. These range from developing and managing youth arts and cultural projects, providing training opportunities and mentoring for young people, supporting youth organisations and artists working with young people and undertaking research in the areas of youth arts and culture, sustainability and wellbeing.”

“Managing Director Pilar Kasat and other inspiring CAN WA staff members are strongly committed to innovative and creative practices and training that facilitate sustainability outcomes. The knowledge I have attained and networks I have made throughout my time at the ISTP have been invaluable in establishing myself in this CAN WA position and it has been very exciting to start putting my theoretical understanding into practice.”

*Simone Ruane, BSc Sustainable Development (Honours)*

## Publications

The Institute has consistently been the best performing school at Murdoch University as far as refereed publication output is concerned (see Table 3 below).

**Table 3. Weighted Publications/Staff FTE, 1999-2003**

School	1999	2000	2001	2002	2003	Average
<b>ISTP</b>	<b>4.57</b>	<b>1.90</b>	<b>4.10</b>	<b>4.77</b>	<b>8.02</b>	<b>4.67</b>
Information Technology	1.99	1.71	2.01	1.72	0.88	1.66
Biological Sciences & Biotechnology	1.20	1.63	0.81	1.57	1.38	1.32
Social Sciences & Humanities	1.07	1.62	1.60	1.17	1.07	1.31
Environmental Science	1.09	1.57	1.01	1.26	1.24	1.23
Law	1.03	1.42	0.95	1.19	1.07	1.13
Media Communication & Culture	0.60	1.84	0.73	1.10	0.82	1.02
Engineering Science	0.91	1.01	0.80	0.93	1.27	0.98
Education	0.80	0.85	1.40	0.58	1.19	0.96
Psychology	0.69	0.60	1.00	0.80	1.02	0.82
Veterinary and Biomedical Sciences	1.09	0.81	0.58	0.80	0.82	0.82
Business School	0.53	0.63	0.80	0.46	0.58	0.60
Chiropractic	na	na	na	na	0.00	0.00
Nursing	na	na	na	na	na	na
<i>Division of Arts</i>	<i>1.06</i>	<i>1.30</i>	<i>1.34</i>	<i>1.13</i>	<i>1.16</i>	<i>1.20</i>
<i>Division of Science and Engineering</i>	<i>1.04</i>	<i>1.33</i>	<i>0.86</i>	<i>1.18</i>	<i>1.29</i>	<i>1.14</i>
<i>Division of Health Sciences</i>	<i>0.96</i>	<i>0.74</i>	<i>0.70</i>	<i>0.80</i>	<i>0.86</i>	<i>0.81</i>
<b>MURDOCH DIVISIONS</b>	<b>1.04</b>	<b>1.21</b>	<b>1.07</b>	<b>1.09</b>	<b>1.14</b>	<b>1.11</b>
<b>MURDOCH TOTAL</b>	<b>0.89</b>	<b>1.04</b>	<b>0.92</b>	<b>0.93</b>	<b>0.97</b>	<b>0.95</b>

*Note: FTE – full-time equivalent*

After an outstanding 2003, the year 2004 was also good with ISTP continuing to be the highest performing school within Murdoch University in terms of refereed publication output. The 2004 publication productivity for the Institute was 3 publications per full-time (equivalent) staff member and more than three times the rate of the University as a whole (see Table 4). Year 2005 is expected to see many new publications from ISTP and as DEST (Department of Education, Science and Training) uses rolling averages in assessing publication output from universities, the Institute's overall performance is excellent.

Table 4. Refereed Publications per Staff Member (FTE), Murdoch University, 2004

School/Division	Publications/fte
ISTP	2.94
Psychology	1.09
Environmental Science	1.07
Engineering Science	1.06
Law	1.04
Biological Sciences and Biotechnology	0.99
Information Technology	0.95
Education	0.86
Media, Communication and Culture	0.82
Veterinary and Biomedical Sciences	0.76
Business	0.59
Social Sciences and Humanities	0.41
Chiropractic	0.00
<i>Division of Science and Engineering</i>	<i>0.96</i>
<i>Division of Arts</i>	<i>0.84</i>
<i>Division of Health Sciences</i>	<i>0.79</i>
<b>Total for Murdoch</b>	<b>0.86</b>

Notes: Publications include books weighted at 5.

*The calculations are based on weighted publication numbers  
(based on publication shares for publications with co-authors).*

*The total for Murdoch figure includes FTE staff who are located outside Schools.*



*ISTP was represented for a 4th time at the annual International Summer Academy on Technology Studies in Deutschlandsberg, Austria*



## Research

The Institute's research covers 7 key areas:

- *Sustainable Cities*: e.g. city policy, urban planning, transport, water and waste
- *Sustainable Regions*: e.g. natural resource management, regional Western Australia, rangelands, coasts and the sea
- *Sustainable Futures*: e.g. advancement and critique of innovation and technology
- *Sustainable Energy and Third World Development*: e.g. renewable energy, population policy, grassroots development, women and development
- *Sustainable Politics*: e.g. social justice, environmental justice, globalisation, policy development, participatory democracy, social movements
- *Sustainable Selves*: e.g. personal identity, education, spirituality, sense of place, community participation, environmental and social ethics, ecophilosophy, ethical dimensions of technology and sustainable development
- *Indigenous Sustainability*: e.g. indigenous housing, indigenous participation, indigenous intellectual property, native title claims, indigenous culture.

We have active research staff and students in all seven areas.

Over the years the ISTP has maintained a very strong research performance. For a school that represents only 1.5% of Murdoch's academics, we have generated a much higher proportion of Murdoch's research budget: 3.83% in 2004. The Institute's average research income for 1999-2003 of \$50,296 per staff FTE (see Table 5) ranks it 3<sup>rd</sup> among Murdoch's twelve schools and is higher than that of schools such as Engineering and Environmental Science (whose research is more equipment and technology intensive). The completion time for ISTP PhD students dramatically decreased from 52 months in 2001 to only 40 months in 2004 (see Table 6).

Table 5. Research Income (\$) from Outside Sources/Staff FTE, 1999-2003

School	1999	2000	2001	2002	2003	Average
Biological Sciences & Biotechnology	56,506	60,985	47,289	89,798	139,798	78,875
Veterinary and Biomedical Sciences	42,108	50,507	54,386	67,136	72,394	57,306
ISTP	32,629	41,939	39,321	39,573	98,020	50,296
Engineering Science	21,227	27,104	31,094	38,097	119,312	47,367
Environmental Science	35,457	39,375	37,120	29,385	61,316	40,531
Education	16,251	3,696	34,352	29,490	32,524	23,262
Social Sciences & Humanities	17,388	9,935	23,385	20,795	33,913	21,083
Information Technology	13,624	13,454	18,814	14,507	40,929	20,266
Law	11,476	5,272	8,750	4,866	7,787	7,630
Media Communication & Culture	2,012	1,871	675	5,719	20,196	5,719
Psychology	3,727	4,665	7,451	6,372	5,491	5,541
Chiropractic					4,842	4,842
Business School	997	407	1,078	3,280	5,600	2,272
Nursing					0	0
<i>Division of Science and Engineering</i>	35,056	40,414	37,999	49,199	109,135	54,360
<i>Division of Health Sciences</i>	29,896	36,099	41,148	50,214	53,381	42,148
<i>Division of Arts</i>	10,977	7,194	14,944	14,133	26,291	14,708
MURDOCH DIVISIONS	13,757	13,659	19,155	21,940	39,783	21,659
MURDOCH TOTAL	27,548	30,435	33,640	40,314	48,389	36,065

Table 6. Research Student Average Time to Complete (months)

	2001	2002	2003	2004
ISTP	52	46	45	40
Murdoch	46	52	45	40



*Jeff Kenworthy, Ernesto Sirolli, Sarah Bell, Peter Newman, Craig Townsend, Dora Marinova and Laura Stocker at the 2004 Graduation Ceremony*

Table 7. Research Income from Outside Sources per Staff Member (FTE), Murdoch University, 2004

School/Division	\$/fte
Biological Sciences and Biotechnology	148,572
Engineering Science	114,935
Environmental Science	89,512
<b>ISTP</b>	<b>81,416</b>
Veterinary and Biomedical Sciences	78,661
Information Technology	36,104
Education	35,626
Social Sciences and Humanities	30,594
Media Communication & Culture	9,293
Business	6,279
Psychology	4,909
Law	1,392
Chiropractic	0
<i>Division of Science and Engineering</i>	<i>109,158</i>
<i>Division of Health Sciences</i>	<i>56,455</i>
<i>Division of Arts</i>	<i>22,939</i>
<b>Total for Murdoch</b>	<b>74,620</b>

*Note: The total for Murdoch figure includes research income of centres and FTE staff located outside Schools.*

The year 2004 was very good for ISTP. The total amount of outside research funding the Institute was able to attract was \$651,331. The \$/FTE staff figure was \$81,416 (see Table 7), 3.5 times above the Divisional and ISTP continued to rank high within Murdoch University. Several new research contracts were secured during 2004, while others were completed. Many of the new contracts will be carried out in 2005 (and thereafter) which will ensure 2005 to also be a successful and active research year. The new contracts included:

- Peter Newman and Dora Marinova together with School of Education and Greenskills conducted a \$48,000 study for the WA Department of Education and Training on the opportunities for the training sector to support the WA State Sustainability Strategy, with a particular focus on the building industry.
- Peter Newman received \$120,000 from Argyle Diamonds to study how sustainability and the mining industry can be better understood and explained in terms of the 'enduring value' concept.
- A research project of \$49,900 was secured for 2005 with the City of Gosnells for evaluation and performance measurement of the Maddington Kenwick Sustainability Communities Partnership.
- Paul Flatau (MBS), Dora Marinova and Natalie McGrath together with Flinders University received a \$108,000 grant from AHURI to study Indigenous access to mainstream public and community housing.

- Patsy Hallen received a grant of \$US30,000 from an anonymous donor for her work in environment philosophy.
- Dora Marinova (together with Prof Michael McAleer from UWA) was successful in receiving an ARC Discovery research grant for 2005-2007 for \$330,000 in the area of modelling intellectual property and technical progress.
- Dora Marinova worked on Local Area Implementation Plans for Sustainability for the Armadale Redevelopment Authority.
- Jeff Kenworthy was named as a Chief Investigator on a Linkage grant submitted by UWA entitled: “Sustainability and Urban Design: An evaluation of the impact of Liveable Neighbourhoods”. A total of \$101,546 out of the \$382,098 flowed to Murdoch University for this project.
- Jeff Kenworthy was involved in a research project on international benchmarking of transport in 14 global cities conducted by MVA in London (\$21,000).
- Jeff Kenworthy received a grant of \$5,000 from the Department for Planning and Infrastructure for the development of a paper focussed on making public transport a national priority.
- Jeff Kenworthy received \$3,600 from the City of Sydney for a research presentation on developing a light rail transit system for Sydney as well as \$3,000 from the Peel Development Commission for work on the Southern Suburbs Railway.
- Based on its excellent research performance, ISTP was also successful in securing a part-time position for a research coordinator for 2005 through Murdoch’s Research Excellence Grants Scheme.
- Several ISTP students were successful in obtaining scholarships for 2004 and 2005 – Simon Barns, Annora Welfelt, Elli Mutton, Claire Harrold, Andrea Hammond, Les Chandra, and Alisha Ryans-Taylor.

## Visits and External Presentations by ISTP

Peter Newman's visits and presentations (74 in all) are listed in Appendix One at the end of the report.

Dora Marinova visited the Institute for Advanced Studies on Science, Technology and Society in Graz, Austria and the University for Architecture, Geodesy and Civil Engineering in Sofia, Bulgaria.

Jeff Kenworthy gave 11 invited addresses to the prestigious events listed in Appendix Two.

Michael Booth visited the Center for Gender in Organizations, Simmons College, Boston, Stanford University's Centre for Higher Education, and the Centre for Leadership Studies at the University of Exeter, and the ESCP-EAP European School of Management in Paris, during an extended study tour in Sept-Oct 2004. He also spent a week with researchers at the Ontario Institute of Studies in Education (OISE), University of Toronto, and two weeks writing and study at Wadham College, Oxford. Michael Booth was invited in September 2004 to respond to the National Academies Forum study of sustainability assessment projects (under its Joint Academies Committee on Sustainability). His paper: *'Bridging the divide between natural science and social science and the humanities: Identifying Methodology for Integrated Sustainability Assessment'* is available on the internet at [www.naf-forum.org.au](http://www.naf-forum.org.au). In December 2004, Michael Booth was invited to visit the Hawke Research Institute for Sustainable Societies, University of South Australia, and to talk with postdoctoral researchers on 'Researching waste'.

Laura Stocker was invited with Kathryn Netherwood to attend the inaugural National Values Education Forum, in Melbourne, April 2004 and co-present a paper on Sustainability Values Education. A summary of the paper appeared in *Values in Action: Case Studies from 12 Values Education Schools*.

Brad Pettitt was invited in October 2004 to run a workshop on *Forgetting What Simons Says? – Poverty, security, and the Australian aid program* at Oxfam Community Aid Abroad's conference *Compassion, Sustainability, Impact - Oxfam Action in the 21st Century* in Sydney.

Our students also gave numerous presentations based around their ISTP projects. Examples include Kathy Anketell who presented to the Fremantle Reconciliation Committee the outcomes of her Sustainable Development project "Walyalup Mangkiny - Indigenous Eco Tourism in Fremantle. A Feasibility Study", and Kerry Smith with a presentation to CSIRO on Measuring Research Performance for Australian Geoscience, based on her PhD work.

## Visiting Scholars

### Anthony Weston

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Professor Anthony Weston was visiting scholar in Ecophilosophy for 4 months (March–June) in 2004. Professor Weston teaches Philosophy and Environmental Studies at Elon College, North Carolina, USA and serves as Master Teacher in Elon's Global Studies Program. He has published over 50 articles and books including *A Rulebook for Arguments* (2001), *An Invitation Environmental Philosophy* (1998), *A 21<sup>st</sup> Century Toolbox* (2001), and *A Practical Companion to Ethics* (2002).

Professor Weston brought his lively teaching style and his expertise in environmental philosophy, ethics, critical thinking and creative practices to the ISTP course "Ecophilosophy and Practice" which he co-taught with Patsy Hallen. Professor Anthony Weston gave a public lecture on May 5 entitled: "Projects for reclaiming the future: practical creativity and the millennial imagination".

### Craig Townsend

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Craig completed his PhD in ISTP in 2004 and returned to Canada. In September he came back to ISTP for 4 months as a visiting research fellow for a Planning and Transport Research Centre (PATREC) study on the costs and benefits of the Southern Suburbs Railway.

### John Renne

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John Renne from the USA had visited ISTP in 2000 as part of his studies and research. In July 2004 after completing a PhD at Rutgers University in New Jersey, he returned to ISTP for a year as a Visiting Research Fellow for PATREC, working on transit-oriented development for Perth around the electric rail system.

### Aidan Davison

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Aidan Davison, a former PhD student and lecturer in the ISTP, rejoined the ISTP as a Visiting Fellow in August/September. Aidan was in Perth to conduct interviews with members of environmental groups as part of his ARC-funded research into encounters with urban nature in Australia. Now a lecturer in environmental studies and Australian Postdoctoral Fellow in the School of Geography and Environmental Studies at the University of Tasmania, Aidan gave an ISTP seminar on the significance of Australia's suburban history to contemporary understandings of and desires for 'nature'.

Other visiting scholars included Craig Salt together with participant speakers for Sustainability for Professionals; Steve Birkbeck (Mt Romance Sandalwood Company); representatives from the Natural Advantage of Nations; Aharon Factor; Professor Louis Albrechts; Professor Jim Falk; Dr Larry Frank (the Bombardier Chair in Sustainable Urban Transportation Systems in the School of Community and Regional Planning at the University of British Columbia) and Ernesto Sirolli.



*The ISTP participated in an evaluation of the Perth-Mandurah railway line*

## ISTP Community Projects

During 2004 the ISTP continued its practice of engaging with local communities. Highlights include:

Jeff Kenworthy was actively engaged in the Peel Region through the Peel Development Commission and City of Mandurah by way of speaking engagements and media contributions on the Southern Suburbs Railway.

Allan Johnstone and students from ISTP were actively involved in planning and facilitating a workshop with the business community in the Peel region on the positive impacts of the arrival of the railway line in Mandurah at the end of 2006.

In the last days of 2004 Sunil Govinnage, Doctoral Researcher, visited Sri Lanka with the President of the Australian Medical Association (WA Branch) and assisted in delivering an aid package (consisting of medication and medical equipment worth A\$ 2 million) to the Government of Sri Lanka.

Laura Stocker's civic energy has gone into chairing the Council of the Lance Holt Community School in Fremantle and in promoting sustainability values education there.

Working in the area of indigenous sustainability is another important aspect of ISTP's community engagement. Examples of this are not only the research projects on indigenous housing built around participatory and community engagement techniques, but also highly symbolic occasions such as the launch of the Indigenous Accreditation (by the Western Australian company Mt. Romance represented by Steve Birkbeck and the USA-based multinational cosmetics firm Aveda represented by its President Dominic Conseil together with the Songman Circle of Wisdom including its Convenor Dr. Richard Walley) - a world first event of global importance, organised by ISTP and Murdoch in Bush Court in November 2004, which sent a deep message of reconciliation and sustainability.



*Dialogue with the Pilbara: Newman Tomorrow*

The Pilbara Regional Sustainability Strategy was initiated in May 2004 and is a partnership project involving the Institute for Sustainability and Technology Policy (ISTP), the Western Australian Sustainability Roundtable of the Premier and Cabinet, the Western Australian Planning Commission, the local governments through the Pilbara Regional Council, the Pilbara Development Commission and major mining companies. Undergraduate students were invited to participate through the development of background papers. Topics include: indigenous regional agreements; education and training; indicators; regional governance and a participatory school project which is seeking youth participation through art into visions for the future. PhD students were also integrally involved in the research process and final report. Dialogue with the Pilbara: Newman Tomorrow was a participatory forum held in Newman on 30 September 2004, hosted by the Western Australian Minister for Planning and Infrastructure with the aim of planning Newman's future. The outcomes of the Dialogue fed directly into the regional strategy. A number of PhD students were involved in the organisation and analysis of this process.

**ISTP staff and students were involved in the following projects and organisations:**



*An entry for Pilbarra  
Regional Sustainability  
School Competition*

- AID/WATCH
- Balingup Friends of the Forest
- Bather's Beach Coastcare group
- Bridgetown/Greenbushes Friends of the Forest
- Catchment management, landcare and the community
- City of Fremantle (Parks and Open Spaces Advisory Committee)
- City of Gosnells including the Maddington-Kenwick Sustainable Communities Partnership
- City of Mandurah
- City of Melville
- Cities for People
- Civic science in Australia and internationally
- Coastcare
- Coast to Coast Network
- Cockburn Sound environmental groups
- Community Arts Website (Community Environment Arts and Design)
- Conservation Council
- Contaminated Sites Alliance
- EcoTransit
- Fairbridge
- Fremantle Eastern Bypass debate
- Friends of the Bibbulmun Track
- Greenfleet
- Greens WA
- Habitat for Humanity
- Lance Holt School
- Link up



- Medical Association for the Prevention of War
- National Academies Forum on Sustainability Assessment
- Native Title Tribunal
- Oxfam Community Aid Abroad
- One World Centre
- Peel Development Commission
- Peel Preservation Group
- Popular Arts Centre
- Public Transport Authority
- Rangeland Sustainability
- Sustainability Planning Network
- Songman Circle of Wisdom
- Sustainability Practitioners Association
- Sustainable Development Student Association
- Sustainable Population Australia
- Sustainable Settlements
- SUSTRAN
- Toxics Network
- WA Collaboration
- WA Forest Alliance
- Wilderness Society



*Laura Stocker's involvement  
in sustainability education:  
Coastcare with Lance Holt  
School*

## Community Projects in Practice: The ISTP and the City of Gosnells

The partnership between the ISTP and the City of Gosnells is just one example of the ISTP's commitment to community engagement. In 2001 the ISTP and the City of Gosnells signed a Memorandum of Understanding to promote mutually beneficial research, teaching and implementation of sustainability practices. With a diverse, growing population of about 83,000 and occupying a total area of 127 square kilometres, around the same size as Paris, the City of Gosnells has an international reputation for achievement and innovation in sustainability and the ISTP is proud to have forged such a mutually rewarding partnership.<sup>1</sup> As Dr Dora Marinova, Head of School at the ISTP, explained at the time:

“The signing of the Memorandum of Understanding is in recognition of the progressiveness and the leading role the City of Gosnells has taken in relation to sustainability, and a commitment for the mutually beneficial links to expand. This cooperation will help integrate policies for simultaneously creating a better economy, an improved environment and a more just participatory society.”

The ISTP-City of Gosnells partnership continued to flourish in 2004. In November the City received the prestigious 2004 Alcoa Leadership Award and was recognised as the leading Local Government in Western Australia at the 2004 Local Government Best Practice Awards. During the course of the year, the City continued with its practice of generously offering two six-month research scholarships to ISTP students, as well as providing opportunities for student work placements. These scholarships and placements gave ISTP students an invaluable opportunity to work with a City awarded for “demonstrating true leadership, extensive community consultation, excellent organisational management and documented benchmarking.” During these placements and scholarships, ISTP students worked alongside some of Australia's most experienced and progressive urban policy makers on initiatives that enhance local and global sustainability. This university-local government partnership also enabled the City of Gosnells to benefit from the knowledge and passion of the ISTP's students, the next generation of sustainability policy makers, as City of Gosnells Mayor Patricia Morris AM JP explains:

“Our partnership with the Institute for Sustainability and Technology Policy provides the City of Gosnells with an accessible knowledge base that has successfully supported the development of key strategic projects. Pivotal to this has been the ISTP's ongoing work with the Maddington Kenwick Sustainable Communities Partnership, which has recently been expanded to include sustainability benchmarking. The City of Gosnells views the ISTP as a key resource and an important partner in our efforts to improve the quality of life for our communities.”

Three stories from 2004 Gosnells scholarship recipients and work placement students are featured below. The ISTP-Gosnells partnership is ongoing and further research scholarships and placement opportunities are being made available in 2005.

<sup>1</sup> *The City of Gosnells is the only city in Australia and the third in the world to win a Universal Design Award (judged in London, Tokyo and New York) and was voted the most innovative WA local authority for three consecutive years. Other accolades the Council has recently received include being designated Perth's Best Local Government in the 2001 Environment awards, receiving a National Commendation from the Australian Council of Building Design in 2001 and being featured as a 'World Class Planning' best practice model at international awards held in New York in June 2001.*

*An ISTP-prepared report documenting the City of Gosnells' innovative sustainability practices is featured in the WA Sustainability Policy Unit's Sustainability in Western Australia Case Studies. See Turner and Alderson (2002), 'Moving Towards Sustainability in the City of Gosnells: A Case Study of a Local Government Addressing the Sustainability Agenda'*

<http://unpan1.un.org/intradoc/groups/public/documents/APCITY/UNPAN008166.pdf>

CITY OF GOSNELLS  
SCHOLARSHIP RECIPIENT

## Simon Barns

BA Sustainable Development  
(Honours)

*a 2004 City of Gosnells scholarship provided an opportunity to participate in some particularly interesting and important urban design projects. While at the City of Gosnells, Simon worked with some of Western Australia's leading urban designers and planners:*

“Through my Gosnells scholarship, I worked with the City of Gosnells on their Maddington Kenwick Sustainable Communities Partnership. The aim of this initiative is to devise and implement policies to revitalise these two suburbs. My role was to review the built form and urban design of Maddington and Kenwick, and to develop some recommendations as to how to make these places more ‘livable’. In particular I looked at aspects like permeability, variety, legibility, and the attractiveness of the buildings, policy themes covered in the ISTP’s *Sustainable Urban Design* unit.”

“The placement unit has been useful in making the transition from university to professional employment. It has given me some idea as to the quality of work that is expected in an urban planning environment, and it has helped me to learn how to write within a professional context, as opposed to just university academic-style essays. It has been useful to work within an office environment, learning to negotiate time/resources as well as organising meetings, etc. It has also been a good experience in terms of learning how local government operates, and having an opportunity to put what I learnt at university into practice.”

“The Gosnells placement was challenging and also very rewarding and useful.”

*Simon Barns, BA Sustainable Development (Honours)*

CITY OF GOSNELLS  
SCHOLARSHIP RECIPIENT

## Annora Welfelt

BA Sustainable Development  
(Honours)

*another Gosnells scholarship recipient,  
worked with the City's policy makers to  
protect local biodiversity:*

“My report to the City of Gosnells was designed to provide suggestions to optimize the sustainability of a world class biodiversity hotspot (the Brixton Street Wetlands) and other local conservation assets in the context of a growing population and likely expansion of industrial land use.”

“The placement unit is certainly a gateway into professional competencies not covered in undergraduate studies. My placement taught me things I didn't realize I needed to know, whilst also assisting with the sustainability of the Maddington and Kenwick area.”

*Annora Welfelt, BA Sustainable Development (Honours)*

CITY OF GOSNELLS

## Sam Gordon

BSc Sustainable Development

*a 2004 placement at the City of Gosnells  
gave Sam an opportunity to contribute  
to the City's innovative Maddington  
Kenwick Sustainable Communities  
Partnership (MKSCP):*

“The Maddington Kenwick project was the first community engagement project of its kind in Perth, and I was very keen to be a part of it. I began work experience one to two days per week almost straight away and initially assisted external consultants in researching for the first phase of the community consultation and profiling. It was extremely interesting learning the history of the project area and about the concerns and long-standing issues within both communities. It reinforced what I was learning at Murdoch about participatory democracies and community empowerment. I was able to actively participate in discussions regarding community consultation and the physical aspects of regeneration that affect community well-being (thanks to units such as *Cities and Sustainability*, *Cities and Innovation*, *Sustainable Urban Design* and *Policy Technology and Democracy!*)”

“I also attended community and technical committee meetings and drafted the Steering Committee Code of Conduct document that has since been adopted as a State Government template for future similar local-state government partnerships. Through the contacts I made at the City of Gosnells I gained six months employment at the Department for Planning and Infrastructure working on the same project but from a State Government perspective.”

“I am very grateful for the opportunities that have been presented to me through my experience with City of Gosnells and I am now hoping to continue building on my ‘regeneration’ experience whilst in the United Kingdom, where innovative projects such as the MKSCP are a policy priority.”

*Sam Gordon, BSc Sustainable Development*

## Resources and Staff

The ISTP had the following staff in 2004:

### Academic Staff

Dr Ian Barns	Lecturer level C (tenured)
Dr Michael Booth	Lecturer level C (tenured)
Dr Patsy Hallen	Lecturer level C (0.5, tenured)
Mr Allan Johnstone	Lecturer level B (0.3)
A/Prof Jeff Kenworthy	Lecturer level D (tenured)
Mr Steve Kinnane	Lecturer level B (0.5)
A/Prof Dora Marinova	Head of School, Lecturer level D (tenured)
Ms Natalie McGrath	Lecturer level A (0.5)
Prof Peter Newman	Director Lecturer level E (tenured)
Dr Brad Pettitt	Lecturer level B
Dr Laura Stocker	Lecturer level B (0.5, tenured)

### General Staff

Ms Susan Davidson	Administrative assistant, level 4 (0.5)
John Davis	Administrative assistant (casual)
Xiumei Melanie Guo	Administrative assistant (casual)

### Contract Research Staff

In 2004 the following people were employed on research contracts:

Rachel Armstrong  
Greg Coles  
John Davis  
Janet Edghill  
Claire Harrold  
Isabella Jennings  
Kara Mattini  
Natalie McGrath  
Yamini Narayanan  
Sally Paulin  
John Renne  
Simone Ruane  
Erik Stanton-Hicks  
Craig Townsend

## Part-time Tutors

Kathryn Buselich  
John Davis  
Susan Gallacher  
Margaret Gollagher  
Ramesh Jacobs  
Natalie McGrath  
Jim Meckelburg  
Pat Meckelburg  
Yamini Narayanan  
Rebecca Schiff  
Steve Sigler  
Sally Paulin  
Michael Prince  
Paul Pule

## Associates of ISTP

Dr Ingvar Anda  
Dr Aidan Davison  
Prof Mark Diesendorf  
Dr Aharon Factor  
Mr Brian Fleay  
Dr Sean Foley  
Dr Frank Harman  
Dr Amzad Hossain  
Prof Phil Jennings  
Mr Peter Morris  
Dr Marc Saupin  
Dr August Schlapfer  
Dr Elizabeth Sherwood  
Dr Ernesto Sirolli  
Prof Peter Underwood



*ISTP staff practicing sustainability*

## Research Contracts

The following research projects were conducted in 2004:

	RESEARCHERS	TITLE	ISTP AMOUNT
Anonymous Benefactor	Hallen	Ecophilosophy Scholar	\$US30,000
APP Pty Ltd	Marinova	Local Area Implementation Plans for Sustainability (Armadale Redevelopment Authority)	\$6,000
Australian Housing and Urban Research Institute	Marinova, McGrath	Indigenous Access to Mainstream and Community Housing	\$40,000
Australian Research Council	Marinova	Modelling Dynamic Correlations in the Volatility of Patents and Technical Change	\$165,000
Australian Research Council	Kenworthy	Sustainability and Urban Design: An Evaluation of the Impact of Liveable Neighbourhoods	\$101,546
City of Gosnells	Johnstone, Stocker, Marinova, Paulin, Severn, Kenworthy	Maddington Kenwick Sustainability Communities Project - Performance Measurement	\$49,923
City of Gosnells	Barns	Review of Urban Design and Built Form in Maddington and Kenwick	\$4,000
City of Gosnells	Welfelt	The Sustainability of the Greater Brixton Street Wetlands in the Context of Proposed Land Use Changes	\$4000
City of Joondalup	Mutton	Understanding Process: Exploring Indigenous Consultation within the City of Joondalup	\$5,000
City of Mandurah	Harrold	Educational Strategy and Plan to Support the Mandurah Sustainable Display Home	\$10,980
City of Melville	Chandra	'Sun Suburbs': Assessing the Actual and Potential Uptake of Solar Energy in Melville's Established Suburbs	\$4,000
City of Sydney	Kenworthy	An LRT System for Inner Sydney	\$3,600
Department of Education and Training, WA	Newman, Marinova, Zele, Kelly, Wiseman	Opportunities for the Training Sector to Contribute to Supporting the State Sustainability Strategy	\$48,100
Department of Minerals and Petroleum Resources & Geological Survey of WA	Newman/Trench	Western Australia's Exposure to Volatile Oil Market	\$6,000
Department for Planning and Infrastructure	Kenworthy	Developing a National Focus on Urban Public Transport to Reduce Car Dependence and Improve the Sustainability of Australian Cities	\$5,000
Murdoch University Research Excellence Grants Scheme	ISTP/TAPS	Research coordinator	\$33,500
MVA Ltd, London	Kenworthy	International Benchmarking of Transport in 14 Global Cities	\$21,000
Peel Development Commission	Kenworthy and 11 ISTP students	Southern Suburbs Rail Line Business Community Workshop	\$4,800
Rio Tinto	Newman	Chart Sustainability Case Studies in Western Australia	\$80,000
Rio Tinto Future Fund	Stocker/Kinnane	Pre-sustainability Bridging Course	\$4,000
Sustainable Development Facilitation(SDF)	Hammond	Strategic Community Planning Project in the Peel Region of Western Australia	\$5,000
United Nations Environment Program International Environmental Technology Centre	Newman and Jennings	Cities as Sustainable Ecosystems Monograph	\$US18,000

## ISTP Units

Unit Title	Code	Availability	Points	Coordinator	2004 Completed Enrolment
Advanced Sustainable Development	STP476/576	S1, S1-ext , S2, S2-ext, Y, Y-ext	4 or 8 pts	Newman	7
Cities and Innovation	STP330/530	S2, S2-ext	4 pts	Johnstone	44
Cities and Sustainability	STP220/420	S1, S1-ext, S1-online	4 pts	Kenworthy	60
Demography	STP209/409	S2, S2-ext, S2-online	4 pts	Marinova	17
Eco-Philosophy and Practice	STP255/455	S1	8 pts	Hallen	10
Ecofeminism	STP221/439	S1-ext	4 pts	Hallen	10
Ecologically Sustainable Development	STP212/412	S2, S2-ext, S2-online	4 pts	Stocker	80
Ecology, Society and Human Health	STP376/576	S2, S2-ext,	4 pts	Pettitt	27
Environmental Ethics	STP206/S457	S1, S1-ext, S1-online, Y-ext	4 pts	Hallen	50
Global Environmental Issues	ENV212/412	S2, S2-ext, S2-online, Y-ext, Y-online	4 pts	Newman	63
Introduction to Sustainable Development	STP108	S1, S1-ext, S2-ext	3 pts	Barns	94
Marine Conservation Policy and Coastal Sustainability	STP256/456	S1	4 pts	Stocker	17
Master of Arts by Coursework Dissertation	STP550	S1, S1-ext, S1-online, S2, S2-ext, S2-online, Y, Y-ext, Y-online, H-ext, H-online	8 or 12 pts	Barns	10
Master of Arts by Coursework Project	STP530	S1, S1-ext, S1-online, S2, S2-ext, S2-online, Y, Y-ext, Y-online, H-ext, H-online	4 pts	Barns	17
Policy, Technology and Democracy	STP370/570	S1, S1-ext	4 pts	Barns	44
Reinventing Australia	FOU150	S2	3 pts	Pettitt/Marinova	112
Self, Sustainability and Society	STP243/459	S1, S1-ext	4 pts	Booth	39
Social, Educational and Policy Research Methods	EDU326/526	S1, S1-ext	4 pts	Booth/Straton	36
Special Topic in Sustainable Development: Sustainability for Professionals	STP240/440	Summer	4 pts	Newman	67
Sustainable Development Project	STP325	S1, S1-ext, S2, S2-ext, Y, Y-ext, U, H-ext	4 pts	Marinova (S1)/ Johnstone (S2)	27
Sustainable Development Research Seminar	STP418	S1, S1-ext	4 pts	Booth	17
Sustainable Urban Design	STP245/445	S1	4 pts	Kenworthy	19
Women and Development	STP313/542	S1, S1-ext	4 pts	Marinova	16
<b>TOTAL</b>					<b>873</b>



## Submitted PhD, MPhil and RMT Theses 2004

Rachel Armstrong (RMT) Regional Sustainability Strategies: Regional Flows for Opportunities to Improve Sustainability in Western Australia

Iain Cameron (PhD) Understanding, Modelling and Predicting Transport Mobility in Urban Environments

Tri Prihatinah (PhD) Women and Income Generating Projects: The Gender Impacts of Indonesian Government Policies

Steve Robson (PhD) Patronising Mabo – The Language of Constitutionalism and Australia's Native Title Debate (1992 – 1998)

Susan Rockloff (nee Jennings) (PhD) Organising for Sustainable Natural Resource Management: Representatives, Leadership and Partnerships

Md. Salequzzaman (PhD) Can Tidal Power Work? A Case Study of Sustainable Integrated Coastal Development in Bangladesh

Kerry Smith (PhD) Performance Measurement of Australian Geoscientific Minerals Researchers in the Changing Funding Regimes

## Awarded PhD, MPhil and RMT Degrees 2004

Khorshed Alam (PhD) *Cleanup of the Buriganga River: Integrating the Environment into the Decision Making*

Khorshed's research was about a practical environmental problem related to non-monetisation of environmental benefits and difficulties in integrating environmental concerns into the decision-making calculus. He developed a new methodology for valuing the environment which was applied in the case of the extremely polluted, biologically and hydrologically dying Buriganga River, a highly important problem in Bangladesh. Starting from the ruling paradigms of neo-classical welfare economics, Khorshed extended the theory of non-market valuation and project appraisal and developed new techniques, which allow for better resource allocation to help protect and develop the natural resources. They represent a significant contribution to public policy formulation and analysis, and the research provides a sound and exceptionally valuable methodology for addressing environmental problems.

The extensions of the conventional contingent valuation method and cost-benefit analysis developed by Khorshed allow the inclusion of economic activities that are non-monetised, eg voluntary time contribution, and broader social benefits from ecological improvements. Applied for the cleanup of the Buriganga River, the analysis shows that public funding is worth undertaking and justifiable on an economic basis. The research shows that public contribution has the potential to provide a significant source of revenue for further management of degrading resources and investable funds can be generated from within the community.

**Awarded PhD, MPhil  
and RMT Degrees  
2004**

**Rachel Armstrong (RMT) *Regional Sustainability Strategies: Regional Flows for Opportunities to Improve Sustainability in Western Australia***

The spatial implications of global and Australian national trends in economy, society and environment are diverse. At a sub-national level these combine with local trends and issues to create unique regional milieux through which an integrated approach to sustainability may be negotiated. A change in government process may be required for sustainability to be implemented, and sub-national governance mechanisms are increasingly seen as important in enacting sustainability on the ground. Yet in Western Australia, large land mass and low population density means that neither State nor Local Governments are well equipped for this task. Western Australian regional policy and governance structures, as well as Commonwealth economic and regional policy trends, are important influences on regional sustainability. Both the Western Australian State Sustainability Strategy and the Statement of Regional Policy for Western Australia support a regional approach to sustainability planning. Yet models of regional governance organisation for the implementation of regional sustainability in Western Australia, such as regional associations of Local Governments, and Regional Development Commissions need to be further developed. It is at this regional level where partnerships between community, government and business may emerge to enact regionally appropriate initiatives for sustainability. For this to occur, community participation and government process that enables community participation to influence decision making is necessary. Regional approaches to natural resource management provide insight into the way that a regional approach to sustainability planning and organisation may evolve. Trends that influence regional issues and Commonwealth and Western Australian regional policy and structures provide a broad context for the development of regional sustainability strategies. Analysis of these issues and of the insights that may be gained from ideas for enabling governance mechanisms and regional natural resource management projects to facilitate regional sustainability are presented.

**Susan Rockloff (nee Jennings) (PhD) *Organising for Sustainable Natural Resource Management: Representatives, Leadership and Partnerships***

The practical outcome of this study is a set of recommendations for enhancing social sustainability at different scales. It seeks to provide input into best practice for social sustainability and insight into organising for socially sustainable decision-making. The empirical data suggest that current organising and decision making for social sustainability, while having many positive features, have not fully embraced and satisfied participation for sustainability as promoted in the literature. The ideals represented in the literature and in current national and international strategies remain unfulfilled. The experiences of the participants suggest that there is the need for improvement and change in the way natural resource management groups organise and make decisions.

**Firoze Siddiqui (PhD) *Linking Innovation and Local Uptake in Rural Development: Potential for Renewable Energy Cooperatives in Bangladesh***

Within a sustainable development framework, Firoze identified the shortfalls of conventional fossil fuel-based energy development practices in rural areas of Bangladesh, and investigated prospects for application of renewable energy technology (RET) innovations. He used a series of case studies to support his argument. The major contributions of the research are:

- Understanding the process of technology learning through successes and failures of RET innovations;
- The concept of integrating RET innovations with (community-based) social development uptakes;
- Development of Renewable Energy Cooperative (REC) as a model of alternate approach to rural energy development in developing countries such as Bangladesh.

The main finding of the thesis is that innovative RET should be adapted to the local conditions with active and meaningful participation of the local community rather than relying on initiatives by the public sector agencies through conventional fossil fuel based energy technologies borrowed from the developed world. Such thinking and actions can significantly facilitate the rural development process in countries such as Bangladesh. The case studies demonstrate that the exclusion of community in the process of development has been a major stumbling block for the innovation to sustain. The Renewable Energy Cooperative (REC) model provided in the thesis will help address inherent potentials of technological innovations and the innovative development uptakes of the local community.

**Kerry Smith (PhD) *Performance Measurement of Australian Geoscientific Minerals Researchers in the Changing Funding Regimes***

Kerry's study considered the context of funding pressures on Australian science since the 1990s which have also been felt by the geoscientific research community. The emphasis on practical, or applied, geoscience, the increased managerial approach to science, and the increase in competitiveness for research grants are integral components of the new research climate. In recent times the Australian federal government policy has been informed by bibliographical and bibliometrical analyses of science where it was generally found that Australian research output was as high as it had been in the past and that the geosciences performed well. Kerry investigated whether, and if so how, bibliometrical studies ignore the detail in their quest to provide overview data of the research process for Australia's science policy makers, particularly for the geosciences since this type of research implies a very simple linear model, the end of which generates publications.

## Awarded PhD, MPhil and RMT Degrees 2004

The study found that Australia's reputation for geoscientific minerals research has been built over decades and it is fast being eroded. There is a top down approach to federal research funding in Australia, which means that reviews abound. The Australian changing funding regimes have brought a need for research centres to seek funding from other sources. The researchers' efforts to work within this framework mean that they have to argue for reductions in confidentiality time periods, write up the work twice: once in report format to please the funding agencies and later, if they can, for the scholarly journal literature, or make arrangements to release the reports to the public domain. Much of the research is reaching a limited public: those who pay for it. The research which does reach the journal literature tends to favour three geoscientific titles and one particular Australian title. The poor bibliometric ranking of these titles means that if the employers are using bibliometric impact-ranked titles as performance indicators, then the researchers will not be performing very well.

The significance of Kerry's work is that it provides rich material for policy formulation that could affect all Australian academics working in the current funding environment. It shows the fallacies of the present conceptual model and challenges policy makers to rethink the value of research, academic ethos and Australian achievements.

### **Jim Trench (PhD) *Role of the Chinese Steel Industry In the Economic Development of China and Australia's Contribution to the Industry as a Supplier of Raw Materials***

The thesis outlines "The Chinese Model" of modernisation and economic development and identifies its inherent structural weaknesses. The results of the research together with the analysis are of value to developing countries, those studying/researching trade with China and most importantly to outline to Chinese academics, central and local governments the key fundamentals behind the country's path to modernisation and successful economic development. A significant finding is that the excessive growth in non-value-adding infrastructure is leading to an overheated economy, where excessive demand is driving increases in global commodity prices, which in turn leads to negative impact on the economy such that earlier development achieved will not be sustained in the longer term. The findings are also of major significance to market researchers (supporting Australian raw material suppliers in particular) considering increasing capital investments to support China's domestic demand. They draw attention to the need for awareness and risk exposure minimisation strategies in the event of a sudden ending of China's resources demand boom.

Key findings: (1) The research found that notwithstanding the importance of the iron and steel industry in being the "Marshall of Industry", China's traditional industry sector, ie agriculture, needs special attention such that it becomes a leading industry sector. Increasing the output and efficiency of the agricultural sector was shown to be an important factor in helping to sustain the country's economic development and to arrest the widening disparity in incomes between rural and urban households. (2) The appraisal of the role of the iron and steel industry in the modernisation program and economic development led to drawing attention to the need for China to improve its

demand planning and that the industry sector needs to develop in a manner that shifts from heavy long (infrastructure) to flat/sheet (manufacture) steel products. (3) In order to sustain industrial output, the need to secure long term supply contracts for raw material requirements was outlined. In addition to theoretical contributions, the research findings will be significant in helping policy formulation by Chinese institutions and government bodies.

**Md. Salequzzaman (PhD) *Can Tidal Power Work? A Case Study of Sustainable Integrated Coastal Development in Bangladesh***

This thesis examines the appropriateness of tidal power in the rural coastal community of Bangladesh, where electricity demand is a major development problem. Coastal Bangladesh is highly vulnerable to natural disasters, especially from cyclones, tidal surges and the effects of global warming on sea-level rise. Consequently, most of this coastal area has been protected by embankments and sluice gates, which can accommodate the normal tidal head rise and fall. The potential of tidal power to use this infrastructure, its associated problems and mitigation measures, have been analysed by comparing existing and potential tidal power technologies around the world, including a proposed Kimberley tidal power project in Western Australia. The research has identified that a significant amount of power could be produced from the tidal range of coastal Bangladesh by using the simple low-cost technology of tidal wheels in the tidal embankment sluice gates. The electricity produced could be utilised by various coastal interests, such as agriculture, shrimp aquaculture and other resource producing activities. However, the real benefits of this technology are that it can be applied in a way that simultaneously enables the development of local infrastructure and the improvement in living conditions of the local people by creating income generation and employment opportunities in these coastal communities. The thesis puts forward a community based co-management model as a means of effectively integrating tidal power in coastal area management in Bangladesh.

**Sandra Woollorton (PhD) *School-as-community: Bridging the Gap to Sustainability***

Education for sustainability is becoming a key term for educationists. This dissertation both examines the history and early debates around this theme and also presents two case studies to exemplify many of the issues that educational practice designed around sustainability raises. The research explores ways in which teachers and parents can enhance the sustainability agenda through the creation of caring, democratic, just, ecologically regenerative schools-as-communities.

The research comprises ethnographic research and cooperative inquiry projects that were implemented at two small community schools, as well as reflective practice to develop personal and professional practices of sustainability. Building on the developing field of education for sustainability (EFS), and the notion of transformative learning, the results are examined against the background of community school movements and sustainability policies within WA. The research methods of reflective practice and cooperative inquiry are discussed and evaluated as vehicles for transformation towards sustainability.

## ISTP PhD, MPhil and RMT Students 2004

Surname	First name	Title
<b>Sustainable Cities</b>		
Antonelli	Paul	Ecovillages in theory and practice (PhD)
Armstrong	Rebecca	Sustainable regeneration in Maddington and Kenwick (RMT)
Bradley	Matthew	Post-modal transit (PhD)
Cameron	Iain	An urban systems model to minimise automobile dependence and improve the sustainability of urban transport (PhD)
Egger	Steve	Sustainable urban patterns in the information age: Impact of information mode of development on sustainable development strategies and policies (PhD)
Hodgman	Kendal	Communication, governance and sustainability (PhD)
Johnstone	Allan	The changing locations of poverty and disadvantage in Perth, 1971-1996 (PhD)
Kasat	Pilar	Cultural planning and sustainable communities (RMT)
Kott	Joseph	Streets of clay: Re-shaping urban arterials for safety, efficiency, and multimodal travel (PhD)
Narayanan	Yamini	In a city like Delhi: Urban spirituality, sustainability and women (PhD)
Singe	David	Generational architecture: Towards a systems framework (RMT)
Schiff	Rebecca	Developing sustainable food systems: Food policy councils in North America and Australia (PhD)
Stange	Luke	Revitalising main-streets in Perth's sub-centres: Policies, processes and outcomes within a sustainability framework (PhD)
Talacker	Siraj	Managing megacities: A case study of metropolitan and regional governance in Dhaka (PhD)
<b>Sustainable Energy and Third World Development</b>		
Amin	Md Rabiul	Technology transfer and the clean development mechanism (PhD)
Devereux	Peter	International volunteers in community science for sustainable development (PhD)
Guo	Xiumei Melanie	Migrating to and ageing in Australia: A study of Chinese experiences (PhD)
Prihatinah	Tri	Women and income generating projects: the gender impacts of Indonesian government policies (PhD)
Siddiqui	Firoze	Linking innovation and local uptake in rural development: Potential for renewable energy cooperatives in Bangladesh (PhD)
Govinage	Sunil	A sustainability assessment of the Sri Lankan Civil War (PhD)
<b>Sustainable Futures: Innovation and Technology</b>		
Brown	David	Politics, governance and information technology in the public sector (PhD)
Dell	Peter	Computer mediated communications (PhD)
Dietrich	Heather	Integral science and the dilemma of GMOs (PhD)
Garrity	Lisa	Hydrogen bus fuel cells – sustainable development (PhD)
Gollagher	Margaret	Sustainable development and industrial corporations (PhD)
Krishnaswamy	Girija	Diffusion of Internet technologies in Australia: Determinants, extent, comprehensiveness and impact on competitiveness (PhD)
Mountain	Helen	Social, cultural and ethical issues in genetic naturalize of consanguineous couples in Western Australia (PhD)

Payakpate	Janjira	Technology transfer of renewable energy (PhD)
Smith	Kerry	Performance measurement of Australian geoscientific minerals researchers in the changing funding regimes (PhD)
Thomas	Terrence	Sustainability, medical practice and tertiary level hospitals (PhD)
Trench	Gaomai	Western Australia's exposure to volatile oil market - How Western Australian copes with oil vulnerability (RMT)
Trench	Jim	Role of the Chinese steel industry in the economic development of China and Australia's contribution to the industry as a supplier of raw materials (PhD)
Wong	Susan	Community development: A case study on remote communities' use of technology (PhD)

### Sustainable Regions and Natural Resource Management

Armstrong	Rachel	Regional sustainability strategies: Regional flows for opportunities to improve sustainability in Western Australia (RMT)
Braddick	Lynda	'We don't go to the casino but we're the biggest gamblers in the world': A comparison of the human drivers of change between Mt Magnet and Upper Gascoyne Regions (MPhil)
Davis	John	Community participation in coastal environmental management (PhD)
Duxbury	Louise	Communication and landcare in the Torbay Catchment (MPhil)
Jennings	Susan	Decision-making for sustainable agriculture: The influence of scale (PhD)
Juniper	Robin A	Cape to Cape Cleanwaters project: Community communication and community science (PhD)
Kennedy	Deborah	Feminism and the sea (PhD)
La Mar	Brendan	Feasibility study for a marine interpretive centre at Margaret River (RMT)
Parton	Graham	Sustainability in the regions (RMT)
Paulin	Sally	The role of volunteers in the management of the Swan catchment (PhD)
Stanton-Hicks	Erik	Mining and sustainability in Western Australia (PhD)
Galloway	Dave	Sustainability as an organising principle for community based change (PhD)
Waller	Susie	Regional Sustainability: a story telling approach (RMT)

### Sustainable Politics

Buselich	Kathryn	Transactional space: A transformative process for sustainability deliberation piloted within the Western Australian Collaboration (PhD)
Bell	Lee	Hazardous waste management and environmental justice in Australia (PhD)
Chappell	Gail	The influence of animal/human relationships on the long term success of conservation policy (PhD)
Davey	Phillippa	Complex identity(s): Theoretical and practical strategies to contest "naturalised" identities (PhD)
Hossain Rhaman	Popie	Educating for sustainability – the role of values education (PhD)
Lindsay	Elizabeth	Multiculturalism: A transitional process (PhD)
Peddie	Brian	Festivals: A key to community change (PhD)
Pinkard	John	Corporate citizenship - An action-research approach to developing understanding and improving practice (PhD)
Polgaze	Ray	Developing a philosophy and approach for independent nature conservation audits (PhD)
Pope	Jenny	Case studies of sustainability assessment methodologies (PhD)
Prince	Michael	The transition from conservation reserve to sacred space (PhD)
Rodgers	Steven	Rethinking: eco-care policy, place and interdisciplinarity (PhD)

## Sustainable Selves

Blundell-Wignall	Grant	The body, cognition and meaning (PhD)
Brewer	Doug	Evangelicals and economic development in the Third World (PhD)
Croft	John	Opening the global heart: Gaia philosophy and systems theory (PhD)
Cugley	Janelle	Palette of place: Creative visual mapping as a community building tool (PhD)
Gallacher	Susan	Neo-paganism and deep ecology (PhD)
Jaceglav	Megan	Ritual, community and personal narrative (PhD)
Krempl	Sandra	Bridging community (oral tradition) and organisational (corporate) culture through cultural planning (RMT)
McMahon	Lance	Collective consumption (PhD)
McNeil	Margaret	An ecofeminist critique of marketing (PhD)
Myint	Aung	Psychology and early Buddhist practice: A process of integration (PhD)
Morrison	Judith	How scholar-reporters can apply an integrated framework correlating contrary approaches to study and report about social conflict so that it is treated as a catalyst for social learning as well as a catalyst for social change (PhD)
Oades	Richard	Socially sustainable community building practices (PhD)
Pule	Paul	Ecology for men in a globalising world: Recalling an ecological masculinity from our primate past (PhD)
Sheppard	Kylie	Pentecostals and sustainability: Conflict or convergence? (PhD)
Sigler	Steve	Reconstructing societies: Sustaining civil creativity through change and continuity of culture (PhD)

## Indigenous Sustainability

McGrath	Natalie	Dialogue in the desert: Creating space for sustainability through Indigenous participation (PhD)
Parnell	Matthew	Imperfect whitefella dreaming: ways to a culture of sustainability (PhD)
Penberthy	Michael	Accommodating Aboriginal ways: The reflexivity of whitefellas working in the Aboriginal domain (PhD)
Raven	Margaret	Indigenous sustainability and intellectual property (PhD)
Robson	Stephen	Equality and native title claims in Australia (PhD)
Scougall	John	The meaning of research in Indigenous contexts and the implications for qualitative research practice in Indigenous Australian contexts (PhD)



## Honours Students 2004

Grant Alderson  
James Anthony  
Simon Barns  
Janet Edghill  
Norm Erickson  
Julie Gaglia  
Tani Garde  
Eric Gleadell  
Robert Hooyberg  
Jenefer Marquis  
Nina McCreery  
Michelle McManus  
Wayne O'Sullivan  
Simone Ruane  
Alisha Ryans-Taylor  
Jarrad Scott  
Piers Verstegen  
Karina Wan Wan Abdul

## Completed Honours Dissertations 2004

James Anthony	<i>The State of Social Housing in Two Developed Economies: A Comparative Analysis of the British and Australian Social Rental Systems</i>
Simon Barns	<i>Partnerships with the Poor: 'Learning to walk behind' with the Slum Dwellers of Mumbai</i>
Janet Edghill	<i>The Drivers and Support Systems of Western Consumerism. A Literature Review</i>
Eric Gleadell	<i>Toward a Deeper Ecotourism: Bringing Together Ecotourism and Ecophilosophy</i>
Nina McCreery	<i>Homing Oneself</i>
Wayne O'Sullivan	<i>How Green is my Mallee?</i>
Simone Ruane	<i>Pathways to Inclusion: Exploring the Social Capital Outcomes of Two Perth Social Enterprises</i>
Alisha Ryans-Taylor	<i>Planning for the Future – Social Change in Response to Marine Conservation Measures on Ningaloo Coast.</i>

## Completed MA by Coursework Dissertations 2004

Lisa Goodlet	<i>Sustainable Development and the Backpacking Generation</i>
Paul Etheridge	<i>The Temporary Movement of Labour and Its Implications for Economic Growth: A Case Study of the Kingdom of Bahrain</i>
Rebecca Lines Kelly	<i>The Contribution of Rainbow Region Organic Market to Building Social Capital</i>
Javier Micucci	<i>Sustaining Intentional Communities</i>
Aaron de Rozario	<i>Competing with Free: Public Goods and the Political Economy of Open Source Software</i>
Judith Walls	<i>The Role of Livestock Production in the Livelihoods Strategies of Rural Households in Mozambique</i>

## ISTP Seminars

### Semester 1

March 11	Craig Townsend, Transport and the Politics of Asian Cities
March 8	Brad Pettitt, Policies and Practices in International Development
March 25	Ian Barns, Sustainability and The Spike
April 8	Martin Anda, Redevelopment in East Timor
April 15	Karlson Hargroves and Michael Smith, The Natural Advantage of Nations
April 29	Louis Albrechts, Policies for Infrastructural Planning in Belgium
May 6	Helene Pristed, Indigenous People and WA Government policies
May 13	Paul Antonelli, Eco-villages throughout Europe
May 20	Professor Jim Falk, Globalisation and the World Bank
May 27	Steve Birkbeck, Indigenous Rights and the Songman Circle of Wisdom
June 3	Colin Beasley, Teaching and Diversity
June 10	Peter Newman, Cities as Sustainable Ecosystems
July 8	Kendall Hodgman, Sustainable NSW

### Semester 2

July 21	Jenny Pope, Reflections on a Trip to Nicaragua
Aug 5	Margaret Raven, Indigenous Knowledges and Intellectual Property Issues
Aug 12	Simon Avenall, Economics and Sustainability: Dialogue of the Deaf or Dialogue with the Devil?
Aug 19	Brad Pettitt, Beyond Washington's Consensuses: Rethinking Globalization in a Post-September 11 World
Aug 26	Helen Mountain, Genetics and Cultural Difference
Sept 2	John Rennie, Sustainable Transport, Smart Growth, and Smart Government
Sept 9	Aidan Davison, The Great Australian Escape
Sept 16	Professor John Glasson, Offshore Wind-power--The Acceptable Face of Renewable Energy in the UK?
Sept 23	Jane Hutchison, Political Economy and Sustainability
Sept 30	Gary Burke, Sustainability Economics
Oct 7	David Annandale, Tabatha Wallington and Jenny Pope, Recovering the Public Meaning of Public Goods: Ethics and Impact Assessment
Oct 14	Sandra Wooltorton, Education for Sustainability
Oct 21	Margaret Gallagher, Is Corporate Sustainability Possible?
Oct 28	Adam McHugh and Alan Hopkins, Integrating Sustainability and Economics: Student Perspectives
Nov 4	Professor Jorg Imberger, Using the Index of Sustainable Functionality to Guide Management of Large Coastal Regions
Nov 11	John Gammack, The Colour of Cities
Nov 18	Judith Morrison, Preparing for Negotiation: Devising Sustainable Processes to Promote Sustainable Outcomes
Nov 25	Andrea Hammond and Sandra Kreml, Project Presentations
Dec 2	Kylie Sheppard, Pentecostals and Sustainability
Dec 9	Professor Stephen Halls, Environmentally Sound Technology – Issues and Challenges to their Transfer
Dec 16	Larry Frank, The Sustainable Transportation Public Health Nexus – Beyond the Environmental Benefits of Reduced Auto Dependence



# ISTP Publications 2004

The complete publication list follows.

## Book Chapters

Marinova, D. (2004) "International Country Rankings in Patented Nanotechnology" in H. Knobloch, Y. Kaminorz (eds) *MicroNano Integration*, Springer, Berlin, pp 27-35.

## Refereed Journal Articles

Barns, I. (2004) Until we Have Faces: Viewing Stem Cell Research and Other Biomedical Technologies in an Eschatological Frame. *Interface: A Forum for Theology and the World* 7,2 pp 51 –72

Cameron, I., Lyons, T.J. and Kenworthy, J.R. (2004) Trends in vehicle kilometres of travel in world cities, 1960-1990: Underlying drivers and policy responses. *Transport Policy* 11, pp 287-298

Chan, F., Marinova, D., McAleer, M. (2004) Modelling the Asymmetric Volatility of Anti-pollution Technology Patents Registered in the USA. *Scientometrics* 59, 2, pp 179-197

Chan, F., Marinova, D., McAleer, M. (2004) Modelling the Asymmetric Volatility of Electronics Patents in the USA. *Mathematics and Computers in Simulation* 64, 1, pp 169-184

Chan, F., Marinova, D., McAleer, M. (2004) Modelling Thresholds and Volatility in US Ecological Patents. *Environmental Modelling and Software* (in press, available on-line 6 December 2004)

Chan, F., Marinova, D., McAleer, M. (2004) Rolling Regressions and Conditional Correlations of Foreign Patents in the USA. *Environmental Modelling and Software* (in press, available on-line 6 December 2004)

Chan, F., Marinova, D., McAleer, M. (2004) Trends and Volatilities in Foreign Patents Registered in the USA. *Applied Economics* 36, 6, pp 585–592

Eveline, J. and Booth, M. (2004) "Don't write about it": Writing the Other for the Ivory Basement' *Journal of Organizational Change Management* 17, 3, pp 243-255

McGrath, N., Armstrong, R., Marinova, D. (2004) Participatory Development for Regional Sustainability in Western Australia: An Enabling State?. *Local Environment* 9, 6, pp 561-574

Newman, P.W. (2004) Sustainability and Global Cities. *Australian Planner* 41, 4, pp 27-28

Newman, P.W. (2004) 'on Climbing Trees: An Australian Perspective on Sustainability and Political Risk. *Local Environment* 9, 6, pp 611-619

Rodgers, S., Booth, M., Eveline, J. (2004) The Politics of Disciplinary Advantage. *History of Intellectual Culture* 3, 1 (available online)

## Full-text Refereed and Edited Conference Papers

Booth, M., Hossain, A., Marinova, D. (2004) Natural Resource Management in Bangladesh: Past and Present, Proceedings of the International Conference on Nature, Science and Social Movements, Lesvos, Greece, CD ROM

Booth, M, Hossain, A., Marinova, D. (2004) Religious Practices of Environmental Management in Bangladesh, Proceedings of the International Conference on Nature, Science and Social Movements, Lesvos, Greece, CD ROM

Chan, F., Marinova, D., McAleer, M. (2004) Rolling Conditional Correlations of Foreign Patents in the USA, in C. Pahl-Wostl, S. Schmidt, A. Rizzoli and A.J. Jakeman (Eds), Complexity and Integrated Resources Management: Transactions of the 2nd Biennial Meeting of the International Environmental Modelling and Software Society, Osnabrück, Germany, Vol. 3, pp. 1423-1429

Hossain, A., Marinova, D. (2004) Sustainability Issues in Bangladesh: Diverse Views, Proceedings of the International Conference on Nature, Science and Social Movements, Lesvos, Greece, CD ROM

Hossain, A., Marinova, D. (2004) Values Education – A Foundation for Sustainability, Proceedings of the Teaching and Learning Forum 2004, Perth, Western Australia, <http://lsn.curtin.edu.au/tlf/tlf2004/hossain.html> (date of access 1 September 2004)

Kenworthy, J. (2004) The Eco-City: Ten Key Dimensions for Sustainable City Development, Presented to International Forum on Vision and Strategy of an Ecocity: Seogwipo City, Jeju Province, South Korea

Marinova, D., McGrath, N. (2004) A Transdisciplinary Approach to Teaching and Learning Sustainability: A Pedagogy for Life, Proceedings of the Teaching and Learning Forum 2004, Perth, Western Australia, <http://lsn.curtin.edu.au/tlf/tlf2004/contents.html> (date of access 6 August 2004)

Marinova, D., McGrath, N., Newman, P. (2004) Dialogue with the City: An Era of Participatory Planning for Provision of More Sustainable Infrastructure in Perth?, in P. Wilding (ed.) Proceedings of the 6th International Summer Academy on Technology Studies: Urban Infrastructure in Transition: What can we learn from history?, Deutschlandsberg, Austria, pp. 195-210

McGrath, N., Marinova, D. (2004) Enabling Regional Indigenous Sustainability and Self-Determination in Western Australia, Proceedings of the International Conference on Nature, Science and Social Movements, Lesvos, Greece, CD ROM

## **Abstract Refereed Published Conference Papers**

Stocker, L., Netherwood, K. (2004) 'Children caring for the coast.' Conference: On the Beach: Interdisciplinary Encounters, Fremantle.

Carter, P. Davis, J., Stocker, L. (2004) 'Stewardship, partnership and community: How do theory and practice relate in Coastcare?' Conference: On the Beach: Interdisciplinary Encounters, Fremantle.

## **Non-refereed Articles**

Barns, I. (2004) Christian Engagement in Public Issues: A Missionary Challenge, Zadok Paper, S131, Autumn (ISSN 1322 – 075).

Newman P. (2004) "A Walking, Talking City?", National Parks Journal, 48(4): pp 4-7.

Newman P (2004) "Sustainability in the Global City", Local Agenda 4(4): pp 16-17.

## **Commissioned Reports**

APP (WA) (2004) Local Area Implementation Plans for Sustainability: Assessment of Three Development Sites, prepared for the Armadale Redevelopment Authority, Perth.

Booth, M. (2004) 'Bridging the divide between natural science and social science and the humanities: Identifying Methodology for Integrated Sustainability Assessment' Invited Response by the Joint Academies Committee on Sustainability (JACS) for National Academies Forum, published at <http://www.naf-forum.org.au>.

Flatau, P., McGrath, N., Marinova, D., Cooper, L., Beer, A., Morris, M. (2004) Indigenous Access to Mainstream Public and Community Housing: Positioning paper, Australian Housing and Urban Research Institute, Melbourne.

Kenworthy, J. (2004) Developing a National Focus on Urban Public Transport to Reduce Car Dependence and Improve the Sustainability of Australian Cities. A Report for the national PTMG (reviewed by large national committee with representatives from each State).

Newman, P., Marinova, D., Newbury, A., Wiseman, N., Kelly, K., Pepper, C., Zele, P. (2004) Training for Sustainability: The Vocational Education and Training Sector, ISTP, pp 122.

## **Non-Commissioned Reports and Submissions**

Marinova, D. (2004) Independent Review, in From Global to Local ~ the New Wave Forming, An Economic Discussion Paper by the Greens (WA) Economic Working Group, The Greens (WA), Perth, Western Australia, pp 70-71.

## **Published Public Lectures**

Kenworthy, J. (2004) Invited Public Lecture in Whatcom County Hall, Bellingham, Washington State, USA, April 1, entitled Transportation and Urban Planning for More Sustainable Cities. The lecture was professionally videoed for transmission on public television.

Kenworthy, J. (2004) Invited Plenary address entitled Transportation and Urban Planning for More Sustainable Cities to Hawaii Congress of Planning Officials and American Planning Association Hawaii Chapter International Conference 2004, Honolulu September 9. Published at <http://www.saveoahu.org/Localcolumn.html>

Kenworthy, J. (2004) Presentation on Transportation and Urban Planning for More Sustainable Cities to Kauai Planning Department Hawaii, September 10. The lecture was professionally videoed for transmission on public television.

Netherwood, K. & Stocker, L. (2004) Lance Holt School: Head, Heart and Hands. Presentation to the National Values Education Forum, Melbourne, April 2004. The presentation was published in Values in Action: Case Studies from 12 Values Education Schools - For the National Values Education Forum, Melbourne, April 2004 at [www.curriculum.edu.au/values/forum.htm](http://www.curriculum.edu.au/values/forum.htm)

Newman, P. (2004) The State Sustainability Strategy: Is Change Happening? In 'Sustainability who dares wins.' Institute of Public Works Engineering, State Conference, Perth, March.

## Appendix One Peter Newman – presentations 2004

1. February 2 – Chamber of Minerals and Energy Workshop, Perth, *Sustainability and Mining*
2. February 6 – Armadale Redevelopment Authority Workshop, Armadale, *Sustainability Criteria for Development*
3. February 9 – Teaching and Learning Conference, Murdoch, *Education through Policy Engagement: Case Study from the State Sustainability Strategy*
4. February 11 – Pilbara Regional Council Conference, Perth, *Regional Sustainability Strategy, Story and Sustainability*
5. February 20 – Council on Local Authority and Industry Relations (CLAIR), Perth, *The WA State Sustainability Strategy and Local Government*
6. February 23 – Master Builders Association Workshop, Perth, *State Sustainability Strategy and Building*
7. February 25 – UN Environment Programme Conference, Hong Kong, *Sustainable Cities and Sustainable Transport*
8. February 27 – UN University Workshop, Tokyo, *Cities as Sustainable Ecosystems*
9. March 9 – Disability Services Commission Conference, Perth, *The Triple Bottom Line and Sustainability*
10. March 9 – Shell Australia Workshop, Perth, *Sustainability – New Dimensions*
11. March 12 – UWA Engineering Students Lecture, Nedlands, *Sustainability – The New Agenda*
12. March 12 – Institute of Australian Public Participation Seminar, Perth, *Sustainability and Community Consultation*
13. March 22 – Network of Regions for Sustainable Development Conference, Cardiff, *Sustainability: The Torch Has Passed to the Regions*
14. March 26 – Chamber of Commerce, Denver, *Comparative Benefits of Rail Transportation in Global Cities*
15. March 29 – University of Ann Arbor, Michigan, *Industrial Ecology of Sustainability*
16. March 31 – University of Ann Arbor, Michigan, 3<sup>rd</sup> Annual Wege Lecture, *Cities as Sustainable Ecosystems*
17. April 2 – Globe Conference, Vancouver, *Cities as Sustainable Ecosystems*
18. April 2 – University of British Columbia, Vancouver, *Sustainable Cities and Sustainable Transport*
19. April 6 – SA Collaboration, Adelaide, *WA's Sustainability Journey*
20. April 7 - SA Collaboration, Adelaide, *Sustainable Transport*
21. April 12 – Sustainability Roundtable, Workshop, *The Eco-Efficiency Agenda*
22. April 17 – University of the Third Age, Murdoch, *Sustainability in the Wild West*



23. April 19 – National Turf Association Conference, Gold Coast, *What is Sustainability and Why Is It the Number One Priority?*
24. April 20 – Brisbane Business Association, Brisbane, *A Tunnel Vision: A Sustainability Perspective in Brisbane's Transport*
25. April 21 – Town Hall Meeting, Sydney, *Sustainability, Transport and the Future of Sydney*
26. April 22 – University of New South Wales Lecture, *Sustainability and Planning Policies for a Sustainable City*
27. May 5 – Environmental Engineers Seminar, *Factor 4*
28. May 6 – International Cities Conference, Fremantle, *How Much Development is Needed to Create Viable Centres*
29. May 14 – Recreational Advisory Committee, Workshop, Perth, *Sustainability and Recreation*
30. May 19 – Department of Infrastructure, Planning and Natural Resources, Sydney Futures Forum, *A Sustainability Framework for Sydney's Future*
31. May 24 – Australian Greenhouse Office, Conference, Fremantle, *Sustainable Transport*
32. June 2 – Australian Institute for Urban Studies, Central Coast NSW, *Sustainable Urban Development*
33. June 9 – Sustainable Energy Association, Breakfast presentation, Perth, *Sustainability: Where to Now?*
34. June 10 – ISTP, Murdoch University, Seminar, *Cities as Sustainable Ecosystems*
35. June 15 – Australian Institute for Agriculture, Conference, Joondalup, *The City and The Bush: Reversing Grainbelt and Population Decline*
36. June 17 – Department of Infrastructure, Planning and Natural Resources, Local Government Forum, Sydney, *Sustainability and Local Development*
37. June 17 – Ecotransit Public Forum, Sydney, *Sustainable Transport*
38. June 25 – Cumberland Surveyors NSW, Conference, Sydney, *Sustainable Urban Development*
39. June 29 – National Housing Summit, Canberra, *Sustainable Transport and Housing*
40. July 9 – Committee for Economic Development of Australia, NSW, Conference, Sydney, *Sustainability and Cities: The Global Agenda and What it Could Mean for Sydney*
41. July 21 – University of WA Architecture Students, Nedlands, *Sustainability and Subiaco*
42. July 22 – City of Swan, Midlands, Opening Speech exhibition *The Promised Land*
43. July 26 – Urban Development Institute of Australia, Newcastle, *Sustainability, Globalisation and Coastalisation*

44. July 27 – Department of Infrastructure, Planning and Natural Resources, Sydney, Centres Workshop, *Sustainability and Centres*
45. July 27 – ABC Radio National, ‘Futures Forum’, Sydney, *Transport for the Future City*
46. August 2 – Department of Transport and Urban Planning, Adelaide, Workshop, *Adelaide and a Sustainable Future*
47. August 3 – Property Council of SA, Adelaide, Seminar, *Role of Planning in a Sustainable Future*
48. August 3 – City of Knox, Melbourne, Council Meeting, *Why Extend Rail in the City*
49. August 4 – City of Wollongong, Workshop, *Sustainable Transport and Sustainable Cities*
50. August 17 – ISTP/Greenskills Workshop, Murdoch, *Sustainability and Training*
51. August 18 – Department of Premier, Sydney, Workshop, *Sustainability and Government*
52. August 20 – University of Queensland, Brisbane, Seminar, *Sustainability and Transport*
53. August 20 – Urban Development Institute of Australia, National Conference, Marrochidore, *The Future of the City – Creating a Sustainable City*
54. August 28 – Warren Energy Association, Manjimup, Workshop, *Creating a Sustainable Energy Town*
55. September 7 – Mt. Pleasant Uniting Church, Seminar, Mt. Pleasant, *Australian Culture and Sustainability – The Wild West*
56. September 10 – ISTP, Murdoch University, Schools Seminar, *What is Sustainability?*
57. September 12 – Somerville Eco Village, Workshop, Chidlow, *Globalisation and Sustainability*
58. September 14 – International Hydrogen Conference, Perth, *The Long Term Potential for Hydrogen in the WA Economy*
59. September 16 – University of Western Australia, Centre for Water Research, Nedlands, *Response to Sustainability Index*
60. September 20 – Institute for Public Administration, Australia, Seminar, Sydney, *Role of Public Policy in Sustainability*
61. September 21 – ACT Public Sector Forum, Canberra, *Sustainability: A Public Sector Response*

62. September 30 – ISTP/DPI Workshop, Newman, *Dialogue for the Pilbara, Regional Sustainability*
63. October 18 – United Nations Association of Australia, Perth, *Sustainability and Internationalism*
64. October 21 – Hunters Hills Council, NSW, Workshop, *Sustainability and the Local*
65. October 27 – Fabian Society, Melbourne, *Sustainability and Cities: Bringing Back the Public Dimension*
66. October 28 – Australian Institute of Urban Studies, Sydney, *Cities Without Oil*
67. November 5 – Mature Age Learning Association, Seminar, Perth, *The Next 175 Years: The Way Ahead for a Sustainable Future*
68. November 18 – WA Government, WA 2029 Conference, *Sustainability and Indicators*,
69. November 23 – ISTP/Mt. Romance, Murdoch, Seminar, *Sustainability and the Indigenous Protocol*
70. November 25 – Shell Australia, Perth, Seminar, *Sustainability – Oil and Gas*
71. December 3 – Sydney University, Sydney, Workshop, *Sustainability Assessment*
72. December 3 – Landlease (Australia), Sydney, Workshop, *Making Cities More Sustainable*
73. December 6 – Society for Industry Building Services, Seminar, *Sustainability and Buildings*
74. December 13 - Department of Infrastructure, Planning and Natural Resources, Sydney, Sydney Futures Forum II, *Sustainability Assessment of New Land Release Areas*

## Appendix Two Jeff Kenworthy – presentations 2004

- 1 Keynote address to Waitakere City Council in New Zealand and three other presentations in Auckland as part of their ongoing review of the Ecocity Strategy. February 2004.
- 2 Address to the *Globe 2004 International Conference* entitled *Good, Bad or Just Ugly?: Some Evidence and Reflections on The Role of Traffic Congestion in Cities and What We Should Do, or Not Do, About It*. Vancouver BC, March 2004.
- 3 Presentation to staff of *Translink* in Vancouver entitled *Good, Bad or Just Ugly?: Some Evidence and Reflections on The Role of Traffic Congestion in Cities and What We Should Do, or Not Do, About It*.
- 4 *Public Lecture in Whatcom County Hall, Bellingham, Washington State*, April 1, 2004 entitled *Transportation and Urban Planning for More Sustainable Cities*. The lecture was videoed for transmission on public television.
- 5 Plenary address entitled *Transportation and Urban Planning for More Sustainable Cities* to *Hawaii Congress of Planning Officials and American Planning Association Hawaii Chapter International Conference 2004*, Honolulu September 9, 2004.
- 6 Presentation to the *Committee for Balanced Transportation*, Honolulu at Hilton Hawaii Village, September 8, 2004.
- 7 Presentation to *Kuauai Planning Department* Hawaii, September 10, 2004. The lecture was videoed for transmission on public television.
- 8 Presentation to *UITP Interactive Workshop on Sustainable Development*, Brisbane, October 27, 2004.
- 9 Presentation on *The Eco-City: Ten Key Dimensions for Sustainable City Development* to International Forum on Vision and Strategy of an Ecocity, Seogwipo City, Jeju Island, South Korea, October 29-30, 2004.
- 10 Presentation on *The Eco-City: Ten Key Dimensions for Sustainable City Development* to JDC, a major Korean government development authority in charge of 7 major new developments on Jeju Island (Jeju City) November 1, 2004.
- 11 Invitation from the Lord Mayor of Sydney for an address in the Sydney Town Hall about the development of an extensive LRT system for Sydney: *“The Advantages of Light Rail in Building Competitive, Sustainable and Livable Cities”*. The presentation was repeated immediately after to a select group of business people (developers, retailers etc).