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## Foreword

The Faculty of Health is committed to making a significant contribution to the health of New Zealanders and the more specific communities it serves. It does this by equipping graduates to enter and excel in a wide range of health and health-related professions. The Faculty's postgraduate programmes help ensure the health and sport and recreation workforce remains flexible and up-to-date with the latest developments in knowledge, technology, and professional practice. They also contribute to the preparation of the next generation of research leaders.

Staff and student research is vitally important. This research advances fundamental knowledge about wellbeing, illness, and disability, and informs policy and professional practice. The research we undertake enhances teaching and learning, facilitates interdisciplinary linkages and synergies, and engages staff and postgraduate students in collaborative endeavours with colleagues in health provider organisations, government agencies, community and consumer groups, and other education and research settings. Our research fosters 'learning organisations' that are self-reflective, innovative, and value ongoing improvement, and it underpins the university's statutory role as an informed and responsible critic and conscience of society.

During 2003 priority was given to sharpening and consolidating research foci within the Faculty by making some new key appointments and bringing academics from related areas together to focus on priority areas identified by strategic planning and consultation with major stakeholders. Wide-ranging Faculty restructuring that included the establishment of four new divisions and associated research institutes and centres supported this. Priority was also given to enhancing the research capabilities of existing staff and increasing the number of outputs in peer-reviewed international journals and other publications.

This report provides a record of research activities and outputs during 2003. While the report provides a useful overview, it does not capture the day-to-day reality of the research enterprise – the challenges, frustrations, solid grind, blind alleys, breakthroughs, and joy of new understanding and ways of looking at things. It also barely touches on the many ramifications that flow from research, within the university, community, and internationally.

I take the opportunity to acknowledge the research contributions of Faculty staff, their collaborators from other organisations and communities, and postgraduate students. It can be difficult to maintain a sustained research focus in the midst of other professional and family responsibilities.

New Zealand is a small country with finite resources, human and financial. In health research as in other spheres of activity, we cannot excel at

everything. It is important to identify what we need to do, and can best do, to advance understanding of significant health issues in this country and contribute to the health of our citizens.

During 2003 progress was made in concentrating research within research centres and institutes, and strengthening collaborative links with colleagues in other universities and practice settings. Relative to 2002, there was a marked increase in refereed publications, particularly in international journals. 2004 will see further consolidation of research within selected priority areas. Additional staff appointments at professorial level will support this. Emphasis will also be given to further increasing the percentage of academic staff with significant research involvement. The challenge is to accomplish this while maintaining high quality teaching and currency in professional practice. These, along with research, are vital in preparing new entrants to the health workforce and enhancing practitioners' ongoing competencies.

Professor Max Abbott  
Dean, Faculty of Health

## Introduction

It is my pleasure to present the Faculty of Health 2003 Annual Research Report. The Faculty began the year under a new structure of four Divisions: the Division of Health Care Practice, the Division of Public Health and Psychosocial Studies, the Division of Rehabilitation and Occupation Studies, and the Division of Sport and Recreation. This new structure has been instrumental in focusing our research strengths and identifying areas of research important to the health of New Zealanders. Significant developments in research have occurred in the Faculty. As seen in this Annual Research Report, the Faculty has excelled in a number of research areas and has further cemented its place in several important health care fields in New Zealand. All areas of the Faculty have contributed to the increased focus on and growth in research, and as a result, both the undergraduate and the postgraduate programmes have benefited.

The six research institutes/centres in the Faculty have become a significant factor in our research success. Two of our research institutes, the National Institute for Public Health and Mental Health Research and the Centre for Physical Rehabilitation Research, are funded centrally by the University as AUT Key Research Institutes. Our other research institutes/centres are funded by the Faculty or individual Divisions. These are the National Centre for Health and Social Ethics, the New Zealand Institute of Sport and Recreation Research, the Centre for Midwifery and Women's Health Research, and the Interdisciplinary Trauma Research Unit.

The Faculty of Health has continued its rapid growth in research activity and productivity in several domains. First, the number of papers published in peer-reviewed journals increased with the majority of these having appeared in international journals. Second, staff in the Faculty have written a large number of book chapters, and have written and edited several books. Third, the number of staff involved in research has dramatically risen, resulting in a marked increase in the Faculty's representation at international and national conferences in all areas of health, sport, and recreation. Several staff presented keynote and invited addresses at international conferences. As well, an increasing number of staff are involved as editors or editorial board members of journals, both in New Zealand and internationally. Further, there have been several senior-level academic appointments across the Faculty, another contributing factor to our research development.

The growth in our postgraduate student body (especially doctoral students) has contributed significantly to the research activity across the Faculty. Doctoral students can now undertake either a Doctor of Philosophy degree or a Doctor of Health Science degree. The latter is the first Professional

Doctorate in the health area in New Zealand and allows for a combination of coursework and clinically relevant research to a doctoral level.

This report clearly illustrates the applied nature of much of the research undertaken in the Faculty. We continue to strengthen our existing relationships with our industry and clinical partners, as well as those with other universities and research organisations nationally and internationally.

In reading this report, I hope you share my enthusiasm for both the current research and the further growth and development of research in the Faculty over the coming years.

Professor Gregory Kolt  
Associate Dean (Research), Faculty of Health

## Faculty Academic Staff

### Office of the Dean

#### **Dean**

Professor Max Abbott, BSc, MA (Hons), PhD (Canterbury), DipClinPsych, TColDip (Dist), MNZCCP, RegPsych, MRSNZ

#### **Associate Dean (Research)**

Professor Gregory Kolt, BAppSc, BSc, PhD (La Trobe), GradDipBehavHealthCare, GradDipEd, MAPS, MAPA, RegPsych

#### **Associate Dean (Academic)**

Wendy Horne, BHSc(Nurs), MEd, RGON

#### **Associate Dean (Postgraduate)**

Marion Jones, BA, MEdAdmin (Hons), PhD (Flinders), RGON

#### **Faculty Academic Coordinator and Staff Developer**

Susan Shaw, BN, MEdAdmin (Hons), DipTchg, RGON

#### **Faculty Manager**

Ruth Temple, JP, BA, NZDipBus, ANZIM

#### **Faculty Registrar**

Carol Wright, BA (Hons)

#### **Head, Office of Undergraduate Studies**

Lynette Edmonds, BHSc, PostgradDipPH, RGON

### Faculty Research Office

#### **Faculty Research Manager**

Jim Borrows, MA (Hons)

#### **Biostatisticians/Senior Research Fellows**

Nick Garrett, MSc, MS

Maynard Williams, MSc, DipTchg

#### **Research Officer**

Nicola Dose, MA, PGDipAppPsych, RegPsych

#### **Research Assistants**

Melody Oliver, BSR, DipFT

Stephen Schaapveld, BSc

### Division of Health Care Practice

#### **Head of Division**

Professor Jo Ann Walton, MA (Hons), PhD (Massey), RCpN

#### **Associate Professors**

Lynne Giddings, BA (Hons), MN, PhD (UCHSC), RGON, RM

Jane Koziol-McLain, BSN, MS, PhD (Colorado), RN

Liz Smythe, BA, PGDip, PhD (Massey), RGON, RM

#### **Head of Midwifery**

Jackie Gunn, BHSc (Nurs), MA (Hons), ADN, RGON, RM

#### **Head of Nursing**

Mary MacManus, MA, RGON, FCNA(NZ)

#### **Head of Paramedic**

Brenda Costa-Scorse, BHSc, DipATE

#### **Head of Research**

Associate Professor Jane Koziol-McLain, BSN, MS, PhD (Colorado)

#### **Head of Postgraduate Programmes**

Associate Professor Liz Smythe, BA, PGDip, PhD (Massey), RGON, RM

#### **Programme Co-ordinator, Certificate in Pharmacy (Technician)**

Vikki Roadley, BPharm, MCLinPharm

#### **Principal Lecturers**

Ross Biggs, Dip of the Soc of Radiographers, NZAdvAmbCareCert (Paramedic)

Bev McKean, BA, RGON

Maria Rameka, BAppSc, RGON

Deb Spence, BA, PhD (Massey), PGDip, RGON, RM

#### **Senior Lecturers**

Anne Barlow, MA (Hons), PhD (Auckland), Grad Cert Research & Analysis, Cert Tert Teaching, ADN, RGON, RM

Adrienne Bell, BHSc, RGON, RM, ADN

Glennis Best, BA, RGON

Michal Boyd, MS, ND, MSN

Joan Campbell, MB, ChB, MSc (Hons), PGDip

Kristina Cassels-Brown, BHSc (Nurs), RGON

Jacqui Chapman, BHSc (Nurs), ADN, RGON  
 Innes Ford-Bruins, BN, MA  
 Helen Garrick, BA, ADN, RPN  
 Andrea Gilkison, BA, MEd, ADN, RCpN, RM  
 Julieanne Hall, BA, RGON  
 Anne Hardie, BHSc (Nurs), BHSc (Mid), RCpN, RM  
 Ailsa Haxell, BA, MHSc, DipNsg, RCpN  
 Diane Hirst, BHSc (Mid), RGON, RM  
 Dawn Holland, BHSc (Mid), ADN, RGON, RM  
 Marion Hunter, BA, ADN, RGON, RM  
 Sue Johns, BA, RGON  
 Judith McAra-Couper, BA, RGON, RM  
 Tony MacCulloch, MEd (Hons), PGDipCouns, RGN,  
 RPN  
 Rachel MacDiarmid, BSc, DipNsg, RCpN  
 Caroline McKinney, BHSc (Nurs), DipBus-MD,  
 RGON  
 Barbara McKenzie-Green, PGDip, RGN  
 Louise Miller-Rush, BA, RGON, RCpN  
 Debbie Payne, MA (Hons), PhD (Massey), RGON  
 Susan Platt, BHSc (Nurs), RCpN  
 Faith Reed, BSc (Nurs), MHSc, RGN  
 Tony Resnick, MSc, MICUParamedic  
 Vikki Roadley, BPharm, MCLinPharm  
 Anneke Robinson, BA, GradDipAcp, RGON, RM  
 Carrie Sanders, BA (Nurs), MHSc (Nurs), PGDEd,  
 DipTchg, RGN  
 Gill Shelah, BHSc (Nurs), ADN, RGON, RM  
 Sandra Simpson, BHSc (Nurs), DipNsg, RCpN  
 Naumai Smith, BA, MHSc, RGON  
 Roger Sorton, MHSc (Hons), RGN, RPN  
 Bernice Tatton, BHSc (Nurs), RCpN  
 Stephanie Vague, RGON, RM  
 Sharon Vallant, BHSc, ADN, RGON  
 Nimesha Waller, PGDip, RGN, RM, ADM  
 Tineke Water, GradDip, DipNsg, RCpN  
 Bernadette Wigley, BA, DipN (SANS), RGON  
 Gay Williams, PhD (Victoria), RN

Janet Williams, BA, RGON  
 Jan Wilson, MA, DipEd  
 Grace Wong, BA, MPH, RCpN  
 Shelaine Zambas, BSc (Nurs), BSc (Phys), MScEd,  
 PGCert

#### **Lecturers**

Debbie Bassett-Clark, DipPharm, MCLinPharm,  
 MPS  
 Helen Chan, BHSc (Nsg), MN, RGN  
 Jo Conaglen, BA, MPH, RGON  
 Joyce Cowan, BHSc (Mid), RN, RM  
 Caroline Delaney, BHSc (Nurs), RGN  
 Annette Dickinson, MA (Nsg), ADN, RGON  
 Penny Dougherty, BSc (Hons), RGON  
 Mark Entwistle, BHSc (Nurs), ADN, RGON  
 Lynda Guildford, BTECNational in Pharmaceutical  
 Sciences, C&G Adult&FurtherEdTchgCert  
 Joanna Heap, RGDip, RCpN, MN  
 Te Maramatanga Hunter, BN, RCpN  
 Louise Kelly, BHSc (Nurs), RCpN  
 Stephnie Long, BHSc (Nurs), RGON  
 Cheryl McLeod, BHSc (Nurs), RCpN  
 Andrea Marsten, GradDip, RGON  
 Gael Mearns, BN, PGCert, RGON  
 Marie Nicklin, RGON, RM  
 Helen Olsen, BHSc (Nurs), ADN, RGN  
 Kirsty Pascoe, BN, RGON  
 Cara Poffley, BHSc (Nsg), RCpN  
 Susan Raleigh, ADN, PGDip, RGON  
 Jenny Van der Harst, BHSc (Nsg), PGDip, RCpN  
 Pauline Wareham, BSc (Hons), PGCert, PGDip,  
 RGON  
 Terry Weblemoe, MA, ADS, RCpN  
 Sarah Werner, BHSc (Nurs), NatDipAmb  
 (Paramedic), RGON  
 Carol Wilson, PGCert, RGON

## **Centre for Midwifery and Women's Health Research**

#### **Director**

Anne Barlow, MA (Hons), PhD (Auckland), Grad  
 Cert Research & Analysis, Cert Tert Teaching,  
 ADN, RGON, RM

## **Interdisciplinary Trauma Research Unit**

#### **Directors**

Associate Professor Lynne Giddings, BA (Hons),  
 MN, PhD (UCHSC), RN, RM

Jane Koziol-McLain, BSN, MS, PhD (Colorado), RN

## **Division of Public Health and Psychosocial Studies**

#### **Head of Division**

Peter Greener, MPP, DipBusSt, CQSW, MNZAP,  
 MIPP

#### **Professor**

David Seedhouse, BA (Hons), PhD (Manchester)

#### **Associate Professors**

Stephen Appel, PhD (Rochester)  
 Janis Paterson, MA (Hons), PhD (Auckland)

Mihi Ratima, BSc, PhD (Otago), DipMaoriDev(Dist),  
 DipPH

#### **Head of Psychotherapy**

Peter Greener, MPP, DipBusSt, CQSW, MNZAP,  
 MIPP

#### **Head of Psychology**

Sonia Goedeke, BA, BSocSci (Hons), MA, HDE

### **Head of Oral Health**

Linda Buttle, BDS, NZCertMgt, CertTertTchg

### **Head of Foundation Studies**

Verna Harford, BHSc (Nurs), MEd (Hons), ADN, CLTA, RGON

### **Head of Research**

Associate Professor Janis Paterson, MA (Hons), PhD (Auckland)

### **Head of Postgraduate Programmes**

Margot Solomon, MA (Hons), MNZAP

### **Senior Lecturers**

Ian Buchanan, BA (Hons), MSc, PGCE  
Susan Cartwright, BDS, DipClinDent  
Helen Curreen, MA, PgDipSocRes, DipTchg  
Kate Diesfeld, BA, JD (San Diego)  
Callum Durward, BDS, BSc, MDS, MPH, DipCommHealth, FRACDS  
Paula Foreman, MSocSci  
Ailsa Haxell, MHSc (Hons), PGCertEd (Mgmt), RCpN  
Tui O'Sullivan, BA, MEd, DipProfEthics, DipTchg  
Brigitte Puls, Clinical Psychologist (BDP), MNZPsS, MNZAP  
Warwick Pudney, BA, MAppSc, DipSocSc, DipTchg, NZAVPW  
Faith Reed, BSc (Nurs), MHSc, RGN  
Heather Watt, BN, MEd (Hons), ADN, CLTA, RGON

### **Lecturers**

Tanya Aspell, PgDipChildPsychotherapy, MNZACAP

Evelyn Baker-Sander, BSc, MA, MNZCCP  
Robin Bellingham, BAppSci, DipTchg (Secondary)  
Deborah Burton, BHSc (Nurs)  
Liaden Cotter, BSS, DipPsychotherapy, MA, MNZAP  
Caril Cowan, BHSc(Nurs), PgDipAppHSc, RGON, MANZPA, MCNA(NA)  
Andrea Doiron, DipDentalTherapy  
Andrew Duncan, PhD (Fielding), MICP, AAMFT, MNZPsS, MNZAP  
Jonathan Fay, PhD (Duke), MNZPsS, MNZAP  
Josie Goulding, DipPsychotherapy, DipSexualHealthCounselling, MNZAC, RCPN  
Frank Hayes, BSc (Psych), PGDip Child Studies, MNZPsS  
Sue Joyce, BA, DipPsychotherapy, MNZAP  
Ann Kerwin, MA, PhD (California)  
Kristina Maconaghie, MA (Hons), DipProfEthics  
Jane Morgan, BA (Psych), PGDip (Ed), CertTchg, RGON  
Linde Rosenberg, BSc, DipPsych, PMNZAP  
Gael Rowntree, Cert Psychoanalytic Psychotherapy, RGON, MNZAP  
Keita Tahana, DipDentalTherapy  
Rhoda Scherman, MA  
Evan Sherrard, BAgSci, MA, DipTheol, STM, RegPsychologist, MNZAP, TEP-ANZPA, TSTA-ITAA  
Carol Shinkfield, GradDipClinChildPsychotherapy, MNZAC, Grad Member NZACAP  
Agnes Smith, DipDentalTherapy  
Paul Solomon, BA, PGCE, DipAppBehavSt, DipAppSocSci, CQSW, PMNZAP  
Catherine Walker, BN

## **National Institute for Public Health and Mental Health Research**

- **Centre for Asian and Migrant Health Research**
- **Centre for Pacific Health and Development Research**
- **Gambling Research Centre**

### **Directors**

Professor Max Abbott, BSc, MA (Hons), PhD (Canterbury), DipClinPsych, TCoIDip, MNZCCPsych, RegPsych, MRSNZ  
Associate Professor Janis Paterson, MA (Hons), PhD (Auckland)

### **Adjunct Professor**

Phil Silva, MA (Hons), PhD (Otago), DipTchg

### **Adjunct Associate Professor**

Michael Feehan, MSc, PhD (Otago), DipClinPsych, PGDipSci

### **Senior Research Officer**

Sarnia Butler, MSc (Dist)

### **Research Officer**

Vivian Cheung, BA, BSc, MA (Hons), PGDipEd, DipTESOL, MNZPsS, MANZASW

### **Equity Co-ordinator and Manager, Pasifika Research Workforce Development (PIF Study)**

Esther Cowley, BA, DipTchg

## **National Centre for Health and Social Ethics**

### **Director**

Professor David Seedhouse, BA (Hons), PhD (Manchester)

## Division of Rehabilitation and Occupation Studies

### **Head of Division**

(Acting) Duncan Reid, BSc, MHSc, DipMT,  
DipPhys, PGDipHSc (Manip), MNZCP

### **Professor**

Peter McNair, MPhEd (Dist), PhD (UWA), DipPhys,  
DipPhEd

### **Adjunct Professor**

Paul Bennett, MPH, PhD (QUT), DipAppSci,  
PostgradDipHlth

### **Head of Occupational Therapy**

Valerie Wright-St Clair, MPH, DipBusStud  
(HealthMgmt), DipOT, GradDipProfEthics

### **Head of Physiotherapy**

Lynne Taylor, MSc (Hons), Dip Phys, ADP(MT),

### **Head of Podiatry**

Greg Coyle, DipPod, DipPodiatricSurgery

### **Head of Research**

Professor Peter McNair, MPhEd (Dist), PhD (UWA),  
DipPhys, DipPhEd

### **Head of Postgraduate Programmes**

Duncan Reid, BSc, MHSc, DipMT, DipPhys,  
PGDipHSc (Manip), MNZCP

### **Principal Lecturers**

Wayne Hing, MSc(Hons), DipPhys, DipMT, ADP  
(OMT)

Clare Hocking MHSc, AdvDipOT  
Cheryl Keals-Smith, GradDipPhys

Susan Shaw, BN, MEdAdmin (Hons), DipTchg,  
RGON

### **Senior Lecturers**

Sandra Bassett, BA, MHSc (Hons), DipPhty  
Lynley Bradnam, MHSc (Hons), DipPhty, Dip MT,  
ADP (OMT)

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Heather Clark, BSc, MHSc (Hons), DipPhys,  
DipTchg

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Kate Haswell, MHSc (Hons), DipPhty

Ken McGrath, MSc (Hons), LIBiol, VRD

Kate Meads, DipOT

Andrea Moses, MSc (Hons), DipPhEd, DipPhys

David Nicholls, MA, GradDip

Daniel Poratt, BSc (Hons), DocPodMed, DipApplSci  
(Chiroprody)

Julie Reeve, MA, GradDipPhys

Stephen Stanley, BHSc (Physio), MPhEd (Dist),  
PGDipHSc (Manip)

Jenny Stewart, MPH, DipPhys

Caroline Stretton, MPH (Hons), PgDipHSc, Dip  
Phys

Denise Taylor, MSc (Rehab), GradDipPhys

Sue Walke, Dip Ed of Students with Special

Teaching Needs, Higher DipTchg, Dip Rec and  
Sport, TTC

Nancy Wright, MA (Higher & Prof Ed), DipCOT

### **Lecturers**

Karen Below, BHSc (OT)

Heather Clarke, DipOT

Erik Dombroski, DipPhys, AdvDipPhys (OMT)

Diana Horner, BSc (Hons)

Peter Larmer, MPH, DipPhys, DipMT

Ellen Nicholson, BHSc (OT)

Emma Parry, BHSc (OT)

Kirk Reed, MOccTherapy, DipOT

Rhoda Scherman, MA

Daniel Sutton, BHSc (OT)

Terry Weblemoe, MA, ADS, RCpN

### **Clinical Educators**

Elizabeth Binns, DipPhys

Diana Browne, GradDipPhty

Tamara Clarke, BPhysio

Leigh Keefe, DipPhys, PGDipHSc (Manip)

Nicole Taylor, DipPhty

Lisa Weaver, BHSc (Physio), PGD Sports Med &  
Rehab

Sharon Whitfield, BSc (Physio)

## Centre for Physical Rehabilitation Research

### **Director**

Professor Peter McNair, MPhEd (Dist), PhD (UWA),  
DipPhys, DipPhEd

## Division of Sport and Recreation

### **Head of Division**

Henry Duncan, BSc, MS, PhD (UCLA), DipTchg

### **Professor**

Will Hopkins, BA, MSc (Hons), PhD (Otago),  
DipTchg

### **Associate Professor**

Patria Hume, MSc (Hons), PhD (Otago), ISAK3,  
SSNZ3, DipCoachNZG

### **Professorial Fellow**

Lindsay Carter, MA, DrHC (Budapest), PhD (Iowa),  
DipPE

### **Adjunct Professors**

Christian Cook, MSc (Hons), PhD (Auckland)  
John Hawley, BSc (Hons), MSci, PhD (Cape Town)

### **Honorary Research Associates**

David Abercrombie, BPhyTherapy (Hons),  
DipPhysio  
Alan Batterham, MSc (Dist), PhD (Manchester)  
Susan Batty, BA, DipTchg  
Elizabeth Bradshaw, BAppSci (Hons), BEd  
(PhysEd), PhD (Melbourne)  
Dennis Clarke, NZPGA  
Don Choi  
Paula Dennen, BSc, MSocSc (Hons), DipPh  
(Clinic), MNZPsS, MICP, MNZSPA  
Tony Edwards, MBChB, DipObst, DipSportsMed,  
FACSP  
Wayne Hing, MSc (Hons), DipPhys, DipMT, ADP  
(OMT)  
Glen Kearney, BPE, MSc (Dist)  
Terry Kelso, NZPGA  
Chris McCullough, DipPE, DipPhysio, DipTchg  
Pete Pfitzinger, MBA, MSc  
Duncan Reid, BSc, MHSc, DipMT, DipPhys,  
PGDipHSc (Manip), MNZCP  
David Slyfield, BA  
Paul Smith, MSc (Hons)  
Wendy Woodson, MA

### **Academic Manager**

Colin McGough, BSc

### **Head of Research**

Associate Professor Patria Hume, MSc (Hons), PhD  
(Otago), ISAK3, SSNZ3, DipCoachNZG

### **Head of Postgraduate Programmes**

Simeon Cairns, BSc (Hons), PhD (ANU)

### **Senior Lecturers**

Matthew Barker, BEd (Hons)  
Gaye Bryham, MA

John Cronin, BEd, MA, PhD (Auckland),  
DipHighPerformCoaching, DipPE, DipTchg  
Jennine Fleming, MSc (Hons), GradDipTEd, NZCS  
Fiona Goff, MSc, PGCE  
Susan Graham, MEd, AdvDipTchg, DipRec&Sp,  
ScrutDip(Brit), AISTD (Ball.Lon), AITSTD  
(Lat.Lon), MZFATD  
Nigel Harris, BPRT, SSNZ  
Terry Horne, BSocSc, DipTchg  
Maria Hyde-Smith, CIBTAC, CIDESCO,  
CertTertTchg  
Robert Jarman, BEd (Hons), PostGradDipCoaching  
Mark Jones, BAgSci, DipTchg, PGRes, NZOIA  
Level 2  
Alice Knappstein, MSc (Hons), PhD (Auckland)  
Dora Krannig, MA  
Patricia Lucas, MHSc (Hons)  
Peter Mellow, GradDipTE (Tertiary)  
Jennifer Nikolai, BA, MFA  
Nicola Power, DipAdvTertTchg, DipAppAes  
Ian Renshaw, BA (Hons), MSc, PGCE  
Grant Schofield, PhD (Auckland)  
Kevin Sheehy, DipPE, DipRec&Sport  
Lynne Tucker, BHSc (Nurs), ADN,  
PostGradDipPublicHealth, RGON  
Cindy Wiersma, BA (Hons), MPE (Admin)  
Caryn Zinn, BSc, MEd (Hons), NZRD

### **Lecturers**

Jennifer Crowley  
Robert Hogg  
Ray Hollingsworth, BSc, DipCreativeWriting  
Maea Hohepa, MSc (Hons)  
Justin Keogh, BHSc, BHMSc (Hons)  
Richard Lindroos, BSc, MBA, DipTchg, FRGS  
(London)  
Nadia McCracken, ITECAesteticienneDip,  
ITECPhysiatricsDip, ITECReflexologyDip,  
CertTertTchg  
Andrew Mount, BEd, DipSecTchg  
Jarrod Presland, BSR, MHSc, DASS  
Chris Whatman, MAppSc, DipPhys, AdvDipPhys

## **New Zealand Institute of Sport and Recreation Research**

### **Director**

Associate Professor Patria Hume, BSc, MSc  
(Hons), PhD (Otago), ISAK3, SSNZ3,  
DipCoachNZG

### **Research Officers**

Simon Pearson, BSc, MHSc  
Neil Snowling, PGDipSci, MSc (Hons)

## **Sport Performance Centre**

### **Director**

John Cronin, BEd, MA, PhD (Auckland),  
DipHighPerformCoaching, DipPE, DipTchg

# Division Research Highlights

## Division of Health Care Practice

Head of Research: Associate Professor Jane Koziol-McLain  
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This year saw continuing progress in research development within the Division of Health Care Practice. The Division includes the Schools of Nursing, Midwifery, Paramedicine and Emergency Specialties, and Pharmacy Technicians. Research Development has been evidenced in terms of research outputs, an impressive number of conference presentations, and by the number of research projects in progress. Several alliances have been formed with researchers outside the Division, and it is particularly pleasing to see our local, national, and international links increasing and beginning to turn into firm working relationships.

Discussions within the Division have resulted in the identification of a number of research areas to be fostered as areas of research capability over the next 2-3 years. These include trauma (under the umbrella of the Interdisciplinary Trauma Research Unit) and women's health and midwifery (under the Centre for Midwifery and Women's Health Research). Reports of activities within these two research centres can be found on page 17 and 18 of this report respectively. Other key research areas include aged care, mental health, primary health care, and child and adolescent health. Several staff members are further developing research into teaching and learning in the health care environment. We look forward to consolidating a number of these working groups in 2004.

As in previous years, a substantial number of staff in the Division are undertaking research toward higher degree qualifications.

Particular highlights of the year's research activities included:

- A well attended summer school in which Pat Bazeley from Australia conducted workshops on the use of the qualitative data analysis tool Nvivo.
- Several international experts were hosted for research methodology workshops. These included:
  - Grounded theory presented by visiting Professor Barbara Bowers from the University of Madison, Wisconsin, USA.
  - Hermeneutics presented by Professors Sherry Sims and Melinda Swenson from the University of Indiana, USA.
  - Phenomenology presented by Professor Max van Manen from the University of Alberta, Canada.

- The continuation of a research seminar series within the Division focused on current research activities and on staff thesis research.
- Completion of the Primary Options Evaluation Project, a study undertaken in collaboration with researchers from Waitemata District Health Board. The Division of Health Care Practice's part in the project involved qualitative evaluation of stakeholder satisfaction with the Primary Options Project. A team of 15 interviewers from the Division undertook part of the project under the direction of Professor Jo Walton.
- Completion of a collaborative project between Waitemata District Health Board Home and Older Adult Services staff, Dr Marion Jones, and researchers in the Division in relation to Client Centred Care.
- Commencement of a participatory study of women's experience with chronic illness. The primary investigator is Associate Professor Lynne Giddings with co-investigators, Dr Elizabeth J. Predeger from the University of Alaska and Dr Dianne Roy from UNITEC Institute of Technology.
- Commencement of a descriptive qualitative study exploring older adults' perceptions of oral health. This study is a collaborative study including nursing and oral health professionals. Co-investigators include Associate Professor Lynne Giddings and Dr Linda Buttle.
- Associate Professor Liz Smythe, a Hermeneutic scholar, continued her inquiry into 'thinking'. She published a manuscript on thinking in postgraduate education and commenced a collaborative research project exploring thinking and leadership.

Building further on the research activity outlined in this report, we look forward to a busy and productive 2004.

## ***Division of Public Health and Psychosocial Studies***

Head of Research: Associate Professor Janis Paterson  
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In 2003 there was significant research growth in the Division of Public Health and Psychosocial Studies. The National Institute for Public Health and Mental Health Research was established within the Division providing a platform for research that contributes to understanding how cultural, economic, environmental, social, and other factors impact on health incomes, health policy, and services. Three centres of research have been formed under the umbrella of the Research Institute. The Centre for Pacific Health and Development Research, the Centre for Asian and Migrant Health Research, and the Gambling Research Centre. In addition, a strong research profile in the area of health-related physical activity has been built up with externally funded projects underway. Several new research initiatives were commenced, focused on older populations in terms of oral health, resilience, and quality of life. Dr Mihi Ratima joined the Division late in the year as Associate Professor of Maori Health and is working towards increasing research activity in the area of Maori health promotion.

The Pacific Islands Families (PIF) Study team had a productive year with a number of papers submitted for publication, national and international presentations, and significant media coverage. Associate Professor Janis Paterson and Esther Tumama Cowley-Malcolm visited the National University of Samoa to present PIF findings and to begin to develop a research project in collaboration with researchers in Samoa.

The research outputs for the Division have increased over 2003 with books published by Professor David Seedhouse, Kate Diesfield, and Warwick Pudney. Within the Division there were 11 PhD and 32 Masters thesis and dissertation students working in the area of Pacific health, psychotherapy, counselling, psychology, and health ethics.

With the solid growth in research over 2003, we look forward to further research development in 2004 and beyond.

## ***Division of Rehabilitation and Occupation Studies***

Head of Research: Professor Peter McNair  
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The Division of Rehabilitation and Occupation Studies includes the Schools of Physiotherapy, Occupational Therapy, and Podiatry. The research coordinators in these Schools are Peter McNair, Clare Hocking, and Greg Coyle respectively.

The School of Physiotherapy is involved in a number of diverse research activities. These include both qualitative and quantitative research paradigms and include work in the areas of musculoskeletal, cardiorespiratory, and neurological physiotherapy. Staff have been successful in having work accepted for publication in a number of international journals including *Gait and Posture*, *Manual Therapy*, *Medicine & Science in Sports & Exercise*, *Journal of Biomechanics*, *Sports Medicine*, *Physical and Occupational Therapy in Geriatrics*, *Journal of Manual and Manipulative Therapy*, and *Physiotherapy Theory & Practice*.

In 2003, six research-based projects were presented at the 14th International World Confederation for Physical Therapy Conference held in Barcelona. This conference is the premier conference for physiotherapy research with over 4000 abstracts submitted. During the year, Denise Taylor, Peter McNair, Jill Caldwell, Duncan Reid, Steve White, Stephen Stanley, Grant Mawston, and Mark Boocock were invited speakers at national and international conferences related to physiotherapy and rehabilitation.

Caroline Stretton and Denise Taylor have been successful in obtaining significant external research funding to support work in areas related to balance and falls in the elderly. Peter McNair, Jill Collier, and David Nicholls received further support for their research into osteoarthritis. Duncan Reid, Peter McNair, Peter Larmer, Wayne Hing, and Gillian Robb received funding from the Accident Compensation Corporation to continue work related to rehabilitation after knee injury.

The School of Occupational Therapy is involved in a number of research projects that primarily utilise qualitative paradigms. These include a multi-site study involving Valerie Wright-St Clair and Clare Hocking from AUT, and researchers from Chang Mai University and Eastern Kentucky University. The study explores how older women maintain their place in the family, create and maintain family and cultural traditions, care for family and others, and claim competence through the food-centred occupations they perform.

Clare Hocking is also continuing her work on studies involving the relationship between objects and identity, exploring how people from western countries appreciate and use objects and how they

reflect and shape our identity. Daniel Sutton is using a phenomenological approach to examine the meaning of daily activities for people recovering from mental illness. Dene Hancock is continuing her research into the psychological impact of cadaver dissection by students, with work exploring coping mechanisms.

The School of Podiatry has a number of research projects underway. Professor Paul Bennett from Queensland University of Technology has played a significant role in developing research within this relatively new School. Collaborative work including multi-centred studies measuring the effects of podiatric treatments compared to other interventions in managing diabetic foot disease have commenced. Further projects include trials examining the use of lasers for the treatment of verrucae, the measurement of foot pressure changes with different orthotics, and the treatment of fungal infections including the problem of cross infection associated with the sharing of footwear. In 2004, a new postgraduate programme in Podiatry will be offered (pending final approval) for the first time in New Zealand. Podiatrists will be able to pursue postgraduate diplomas, and Masters and doctoral degrees.

Research activity will continue to grow over 2004. With the three Schools most associated with rehabilitation now working more closely, it is likely that there will be more collaborative projects established. Research is likely to develop in the areas of disability and also in areas addressing the advancement of psychological and sociological issues in rehabilitation. Working with the Laura Fergusson Trust, a new position of Professor of Rehabilitation has been established in the Division and this position will enhance research activity and provide additional leadership in research activities.

## ***Division of Sport and Recreation***

Head of Research: Associate Professor Patria Hume  
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The New Zealand Institute of Sport and Recreation Research is the research arm of the Division of Sport and Recreation. Details of the research highlights and outputs of the New Zealand Institute of Sport and Recreation Research are contained on page 16.

The Division of Sport and Recreation staff members have established important links with elite sportspeople and teams in New Zealand and internationally that have led to media publicity for several research projects. Print and television media coverage was gained for the opening of the J.E. Lindsay Carter Anthropometry Laboratory, the opening of the AUT Golf Swing Clinic, Caryn Zinn's work with the New Zealand Warriors, and Peter Mellow's Apple Outstanding Educator award. A series of talk-back sessions on RadioSport included topics on the research of the Division (Patria Hume), outdoors (Mark Jones), anthropometry (Peter Mellow), coaching (Ian Renshaw), the AUT Never Too Old Programme (Dennis Grennell), physical activity and health (Grant Schofield) and biomechanics (Patria Hume).

The national and international reputation that is being gained by the New Zealand Institute of Sport and Recreation Research has grown, contributing to 31 postgraduate students being enrolled in the Division in 2003. Blair Crewther and Maea Hohepa gained HRC scholarships to pursue postgraduate research. Libby Sherpa gained a Bright Futures scholarship for her PhD studies, and Clara Soper and Scott Duncan hold AUT PhD scholarships. Richard Lindroos gained a Prime Minister's Scholarship to conduct a review of high performance coaching models in Morocco. Simon Pearson and Keir Hanson graduated with a Master of Health Science.

Twenty members of the Division staff and postgraduate students gave oral and poster presentations at the 2003 New Zealand Sports Medicine and Science Conference. Professor Will Hopkins was joint author on the Emerging Sport Scientist Award for Best Poster Presentation titled "The effect of caffeine ingestion on 60-second sprint performance of competitive cyclists". The Division of Sport and Recreation research award winners for 2003 were: Dr Grant Schofield - Senior Researcher award; Joe McQuillan - Student Researcher award; Mark Jones - New Investigator award; Physical Activity, Nutrition, and Health Research Team - Research Team award.

A number of research associates were appointed during 2003 including Emeritus Professor JE Lindsay Carter (USA), Professor John Hawley (Australia), Professor Gregory Kolt, Associate

Professor Wendy Woodson (USA), Associate Professor Elaine Rush, Dr Alan Batterham (England), Dr Tony Oldham (England), Dr Christian Cook, Dr Elizabeth Bradshaw, Dr Tony Edwards, Dr Simon Mayhew, Peter Pfitzinger, Chris McCullough, Paul Smith, Susan Battye, David Abercrombie, Paula Dennen, Duncan Reid, Wayne Hing, David Slyfield, Glen Kearny, Terry Kelso, Dennis Clarke, and Louise Schofield.

Academic visitors during 2003 included Emeritus Professor Lindsay Carter (San Diego State University), Associate Professor Eadric Bressel (Utah State University), Dr Richard Smith (University of Sydney), Dr Tony Oldham (Sheffield Hallam University), Jonathan Wheat (Sheffield Hallam University), and a delegation from the Singapore Sports Council.

## Faculty Research Institutes and Centres

### **Centre for Physical Rehabilitation Research**

Director: Professor Peter McNair

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The Centre for Physical Rehabilitation Research is currently undertaking research focused on five major themes: applied muscle physiology and mechanics; motor performance in older and disabled adults; viscoelasticity of soft tissue; ergonomics; and cortical and spinal mechanisms of motor control and therapies. Our website outlines the research undertaken in these areas ([http://www.aut.ac.nz/research\\_showcase/research\\_activity\\_areas/prrc/](http://www.aut.ac.nz/research_showcase/research_activity_areas/prrc/)). This year, the laboratories were closed for six months while extensive renovations were undertaken. These changes have led to increased space that is purpose built for our operations. We have increased the size of our exercise equipment area and this will be used to assess exercise capacity, and operate exercise programmes in on-site clinical trials. A gait walkway with two force plates, and increased areas for filming is now in place allowing an increased scope in studies involving motion analysis of ambulatory activities. Furthermore, additional equipment has been purchased that increases the capabilities of the Centre to undertake research in areas of biomechanics, motor control, and exercise rehabilitation.

In respect to staff, Stephen Stanley leaves the Centre to return to Otago after 10 years at AUT. Stephen with Peter McNair developed the Biomechanics Unit which then became part of the current Centre. Stephen has played an essential role in advancing the Centre's capability in biomechanics and his expertise will be missed. Jill Collier, a senior research officer took maternity leave late in 2003. During the year, Dr Mark Boocock joined the Centre as a post-doctoral research fellow. Mark is a biomechanist with expertise in the area of manual handling and physical ergonomics. He is currently developing projects focused upon the biomechanics of pulling and pushing activities in industry and the effects of injury. John Molloy also joined our team as a research officer. John is working on projects related to muscle activation and its measurement. Over the past year, fourteen postgraduate research students worked on projects toward their Masters or Doctoral degrees.

Collaborative work with Jean Yves Hogrel at the Institut de Myologie in Paris has led to new equipment for measuring muscle activity being piloted in the Centre. This equipment will allow a more sensitive appreciation of changes in muscle activity patterns as a result of interventions. Our group has also been working with Dr Jonathan Folland from Massey University developing a technique to measure how completely muscles are

activated during maximal effort voluntary contractions. Finally, Dr Christophe Cornu from Nantes in France visited the Centre to demonstrate his procedures for measuring muscle stiffness. All of these techniques will be used in studies on individuals with osteoarthritis and stroke, these being the clinical conditions of primary interest to the Centre at this time.

In respect to publications, nine papers were in press or published in peer-reviewed national and international journals. A further seven papers are currently in the review process with international journals. Together with Dr Andy Cresswell from Sweden, Peter McNair published a chapter entitled *Muscle in a new Elsevier textbook titled Physical Therapies in Sport and Exercise*. Staff and students undertook 15 presentations at national and international conferences of which six were keynote or invited presentations.

A research grant from the Maurice and Phyllis Paykel Trust allowed a second clinical trial centred on exercise therapy for individuals with severe osteoarthritis to commence at Middlemore Hospital. Dr Denise Taylor and Caroline Stretton also received a significant grant from the Ministry of Health (\$140,000) to investigate training of the elderly in the prevention of falls. A major clinical trial that was a collaborative venture with Dr Richard Gajdosik from the University of Montana was completed this year. The study investigated the effects of exercise programs on falling in the elderly. This project attracted US\$100,000 from RehabWest, who form part of the National Institutes of Health (USA).

In 2004, the Centre for Physical Rehabilitation Research will consolidate its research activities in the themes mentioned above with increases in research activity centred on the development of our laboratory-based studies.

## **National Institute for Public Health and Mental Health Research**

Directors:

Associate Professor Janis Paterson

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Professor Max Abbott

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The National Institute for Public Health and Mental Health Research was formed in 2003 from the Asia Pacific Centre for Community Health and Development Research, in recognition of the importance of a wider research scope to increase knowledge and develop researchers in the areas of public and mental health. The institute aims to conduct high quality public and mental health research that contributes to the reduction of health disparities and improves the health and wellbeing of New Zealanders. In addition to a number of research programmes, there are currently three research centres within the Institute: Centre for Pacific Health and Development Research, Centre for Asian and Migrant Health Research, and the Gambling Research Centre.

### *The Centre for Pacific Health and Development:*

Findings from the first two years of the Pacific Islands Families Study have been widely disseminated including to the Ministries of Pacific Islands Affairs, Health, and Social Development. The next phase investigating the Transition to School, of the children, starts in March 2004. Esther Cowley and Associate Professor Janis Paterson also presented at the National University of Samoa and had discussions regarding possible future research collaborations in Samoa.

*Centre for Asian and Migrant Health Research:* The main focus of this Centre has been on investigating Chinese university students' wellbeing and coping strategies, which is particularly important due to the lack of research on Chinese students' mental health status in New Zealand. This work is being led by Vivian Cheung. Professor Max Abbott and Centre staff convened an international seminar at the 2003 World Federation for Mental Health Biennial World Congress held in Melbourne, Australia.

*Gambling Research Centre:* The Gambling Research Centre is the newest addition to the Institute, and is currently organising (jointly with the Gambling Problem Helpline) a national conference looking at past as well as future needs in gambling policy, practice, and research. Additionally, the centre is co-organising the formation of an International Think Tank relating to the provision of gambling services and policy. The collaboration with the Gambling Problem Helpline is particularly important for determining priorities for research. Both events are scheduled to occur in March 2004. Professor Max Abbott is involved in a Health Research Council/Problem Gambling Committee project, collaboratively with the University of Auckland and Massey University to investigate the

transition from social/recreational gambling to problem gambling.

Research in the area of Health-Related Physical Activity Research includes: a) the TeleWalk study investigating the effectiveness of a primary care telephone counselling intervention to increase physical activity and health-related quality of life in older adults; and b) a series of studies investigating motives and barriers to physical activity in older people including Asian Indians (in New Zealand, USA and India), Chinese (in New Zealand and China) and Tongans and Samoans in New Zealand.

A further area of research within the Institute includes a study of ageism among health professionals.

Future directions for the National Institute for Public Health and Mental Health Research include Maori Health Research which will be led principally by Associate Professor Mihi Ratima, as well as mental health research (led by Peter Greener) with other projects in the planning stages investigating the wellbeing of young people and resilience in older people.

## National Centre for Health and Social Ethics

Director: Professor David Seedhouse  
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The National Centre for Health and Social Ethics develops research and education that promotes clear and compassionate thinking about all aspects of health and social care to improve practice for the givers and receivers of care. The Centre was established in 2000 as a free-standing research centre within the Faculty of Health Studies, and was integrated into the Division of Public Health and Psychosocial Studies on its formation in 2003. The Centre currently has research and teaching roles. Staff teach at undergraduate, masters, and doctoral levels, and provide PhD supervision, publish widely, run conferences and seminars, and offer a comprehensive consultancy service.

During 2003 there were seven PhD students supervised within the National Centre for Health and Social Ethics. Topics being researched included:

- Holism
- Best interests in medical practice
- The nature of cultural competence
- Rights and intellectual disability
- The use of Playback Theatre in health care
- The understandings of partnership in the ACC context
- Moral competence in health care decision-making

A variety of other research activities took place in the Centre over 2003. Professor David Seedhouse published a textbook *Health Promotion: Philosophy, Prejudice and Practice* 2nd edition. Kate Diesfeld co-edited (with Professor Ian Freckelton) *Involuntary Detention and Therapeutic Jurisprudence: International Perspectives on Civil Commitment* and contributed three chapters. Kristina Maconaghie facilitated the national conference "Sex and Science: The ethical implications of assisted reproduction" in June and is editing the proceedings for publication in 2004. Additionally, staff published two refereed journal articles and 4 columns within a health journal. Staff conducted research for and delivered 8 conference presentations (both domestic and international) and two academic fora. As well, the Centre organised a national event in June 2003: the "Victims' Rights Symposium".

Other research activity included submission to the World Health Organization on the Draft Manual on Mental Health Legislation by Kate Diesfeld with Sylvia Bell, the Director of Research at the Human Rights Commission.

In furtherance of international collaborative research, David Seedhouse conducted a lecture series on values-based decision-making. He addressed over 800 people as the invited or

keynote speaker at: Manchester Metropolitan University; Nottingham Trent University; Norwich University; King's College, London; University of Greenwich, London; University of Southampton; Bristol University; and Manchester University. Additionally, David has been instrumental in helping develop the Middlesex Research Centre in Decision Analysis and Risk Management (DARM) with a view to further international research endeavour and collaboration. DARM has recently created and had validated a Masters programme in Risk. Both Middlesex University and AUT Faculties of Health have determined that there is considerable potential for both to explore a teaching and research programme related to values-based decision-making and risk management. Potential activities include postgraduate teaching, distance learning, research and development, grant applications, student exchanges, and short courses.

The Centre's staff act in an advisory capacity on the Doctor of Health Science degree and co-convene the Health Systems Analysis module. The Centre provides a Postgraduate Certificate through the following modules: Health Care Analysis; Philosophies of Practice; and Applied Health and Social Ethics. Currently, the Masters module Specialty Knowledge of Health Law is offered and Genetic, Reproductive and Biotechnology Ethics will be offered in 2005.

While teaching on diverse interdisciplinary Bachelor degree modules, the Centre's staff deliver the teaching on the BHSc in Health Promotion and teach Health Promotion, Professional Practice and Ethics, and Health Law. Considerable research was conducted to inform future construction of a degree in health development with an emphasis on health promotion and public health. It is envisioned that the research will influence future provision of specialist streams within the BHSc programme. Research conducted by Ian Buchanan and Sue Howett established a clearer understanding of the industry needs for health professionals in this field. This extensive research was designed to increase AUT's engagement in emergent programmes in public health while refining our niche as a tertiary education provider. Development of the Bachelor's degree will incorporate the 2004 recommendations from the Health Promotion Forum's Competencies Framework and will focus on applied and practice based public health provision.

Paula Crabbe, a student of the BHSc in Health Promotion, was awarded two studentships and has accepted a research position with the Interdisciplinary Trauma Research Unit at AUT.

## ***New Zealand Institute of Sport and Recreation Research***

Director: Associate Professor Patria Hume  
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The New Zealand Institute of Sport and Recreation Research (NZISRR) is a multi-disciplinary research facility within the Division of Sport and Recreation. The NZISRR is a flagship for the research activities of the Division and provides a training ground for applied sports scientists. Through the practical application of research the NZISRR also contributes to the community external to AUT. The NZISRR has strong links with the AUT Sport Performance Centre, the New Zealand Academy of Sport, the AUT MOVE Dance Foundation, and Sport and Recreation New Zealand. The research teams in the NZISRR include: exercise science (physical conditioning); exercise science (human movement); sport and recreation management; sport coaching; physical activity, nutrition, and health; holistics; outdoors; professional practice; and dance.

The physical activity, nutrition, and health stream (led by Dr Grant Schofield) includes a team of keen and focused researchers who are producing many high quantity outputs. Highlights for the physical activity, nutrition, and health stream include: presentations at many major conferences (Sports Medicine Australia, American College of Sports Medicine, Australasian Society for Behavioural Health and Medicine, New Zealand Sports Science-Sports Medicine, New Zealand Recreation Association, Australian Physical Activity conference, Sports Medicine Queensland, Health Promotion Queensland, and the International Rugby conference); three PhD students being awarded scholarships for full-time study (Libby Sherpa - Bright Futures; Maea Hohepa - HRC Maori; Scott Duncan - AUT); several publications in refereed and non-refereed journals; success in external and internal research funding and the submission of two large proposals; collaboration in research with other tertiary institutions, regional sports trusts, Sport and Recreation New Zealand, and local city councils; and the establishment of a postgraduate research group and a larger research group (the Physical Activity Research Group).

The exercise science (human movement) team (led by Justin Keogh) have conducted projects on the biomechanical analysis of rowing technique, netball shooting technique, golf swing technique, and sailing grinding technique, and projects on the mechanisms of massage, the effectiveness of the bodywall for stretching, sports injury epidemiology, powerlifting injury, powerlifting anthropometry, and water polo anthropometry and performance. The exercise science (physical conditioning) team (led by Dr John Cronin) has conducted projects including: the effects of bungy weight training on muscle function and functional performance; force-velocity analysis of strength-training techniques and load; and lunge performance and its determinants.

The research highlights for the coaching stream (led by Ian Renshaw) include success in gaining an AUT contestable research grant for the investigation of cricket bowling constraints using occlusion goggles, and gaining an AUT educational technology grant to examine the effects of using video for teaching. In addition, Ian Renshaw's presentation at the Australasian Winter Brain Research Conference in Queenstown was particularly successful.

Research is developing well in the outdoors stream (led by Matt Barker) with all members of the stream contributing to producing outputs. Mark Jones won the Division New Investigator Researcher award and is the stream's most prolific writer. The team has concentrated on building profile within the outdoor field this year, with regular contributions to many relevant publications. The team has secured funding for teaching and research equipment, and pilot studies conducted have resulted in improved protocols for use of the heart rate monitors. The team has successfully conducted research into strength testing of safety and rescue setups and equipment for both white-water and rock-climbing use.

The holistics team (led by Maria Hyde Smith) has a research project underway to examine the effects of massage as a therapy. The sport and recreation management team (led by Cindy Weirsmas) has conducted projects on the launch of Sport and Recreation New Zealand (SPARC). Richard Lindroos organized the highly successful International Triathlon Coaching Summit in Queenstown. The professional practice team (led by Jenny Fleming) has presented research at the New Zealand Association for Cooperative Education Conference on maintaining ethical standards in sport and recreation cooperative projects, and at the World Association of Cooperative Education conference on how the length of the cooperative placement affects the learning experience.

The dance and drama research team (led by Susan Graham) presented work on developing intellectual, social and emotional literacy through dance education, and have started work on an e-book project at Makerere in Africa.

The NZISRR has had a very successful 2003 and is developing as New Zealand's leading sports science research institute by meeting community needs through applied sport science and physical activity and health research.

## **Interdisciplinary Trauma Research Unit**

Directors:

Associate Professor Lynne Giddings

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Associate Professor Jane Koziol-McLain

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The Interdisciplinary Trauma Research Unit (ITRU), through interdisciplinary and bicultural collaboration, supports academic staff, students, and the community in developing and conducting research that focuses on the following three themes: family violence; pre-hospital and emergency trauma; and psychological trauma, especially related to students and marginalised populations. Development plans are in place for Kaupapa Maori trauma research and disaster recovery research. Connecting research to practice and policy is a core commitment.

The ITRU continues to be led by Co-Directors, Associate Professor Jane Koziol-McLain and Associate Professor Lynne Giddings, supported by the ITRU working group that includes Jan Wilson, Brenda Costa-Scorse, Dene Hancock, Helen Curreen, Maria Rameka, and Patria Hume. The ITRU Advisory Board, convened to ensure the ITRU remains responsive to community and academic needs related to trauma, met three times during the year. Elaine Fyfe continued as the ITRU Research Officer to assist with unit business and contribute to selected research projects. Highlights of ITRU activities in 2003 are summarized below.

- Monthly ITRU research colloquia afforded the opportunity to nurture and critique trauma research. During 2003, twelve trauma research projects were presented at the eight ITRU colloquia.
- The ITRU hosted a workshop entitled *Assessing Dangerousness and Planning for Safety* in September 2003 with special guests Inspector Rob Veale (Office of the Commissioner, New Zealand Police); Douglas Elliot (Forensic Scientist, University of Auckland), and Merlin Curreen (Psychologist, Waitemata District Health Board). This workshop was attended by 120 people, including community members and staff and students from AUT.
- Five postgraduate students worked on trauma focused projects toward their Masters or Doctoral degrees. The AUT/HRC Summer Studentship in Health Research was awarded to Paula Crabbe to join an ITRU family violence research project.
- Dr Jane Koziol-McLain, Dr Lynne Giddings, and Maria Rameka completed data collection researching the prevalence of intimate partner violence and screening acceptability among women seeking care in selected health care settings. That research project involves collaboration with Middlemore Hospital and Raukura Hauora O Tainui. Findings were presented at the 12th International Conference

of the Nursing Network on Violence Against Women conference held in South Australia. At that meeting Dr. Koziol-McLain was presented the association award for Excellence in Research.

- ITRU members continue to collaborate with community health care and service agencies as well as with the AUT Institute of Public Policy and the Center for Violence and Injury Control, Pittsburgh, Pennsylvania.
- The ITRU was awarded two externally funded research awards by the Ministry of Health. The first involves an evaluation of the Ministry of Health's family violence programme and the second evaluates family violence curriculum in Aotearoa/New Zealand Schools of Nursing.
- Research team members involved across the various ITRU family violence research studies began meeting fortnightly in October. The team meetings take advantage of the synergy that a defined programme of research encourages. Updating, networking, planning conference presentations, manuscripts, and grant applications enrich the work of all team members.
- In another focus area, Dr Lynne Giddings and Dr Debbie Payne explored the meanings of trauma across the health disciplines using discourse analysis.
- The ITRU working group completed web development of the ITRU website.

We look forward to 2004 as we realise the benefits of the interdisciplinary, collaborative approach to excellence in trauma research that links to the health needs of people in Aotearoa New Zealand.

## **Centre for Midwifery and Women's Health Research**

Director: Dr Anne Barlow

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The Centre for Midwifery and Women's Health Research further developed its research profile over 2003. A number of collaborative research projects were initiated in 2003 with three projects successfully gaining internal funding from the AUT Contestable Grants (Health) fund, and one gaining funding from the Division of Health Care Practice. These projects included: a formative evaluation of the implementation of a Midwifery Standards review process for District Health Board employed midwives at Counties Manukau; an evaluation of a family violence prevention educational program for midwives in Auckland; an oral history of midwives practicing during years of significant maternity restructuring (1970-2000); and a study investigating midwifery students' perspectives of how registered midwives maintain "normal" birth outcomes. An application was made to the Health Research Council of New Zealand for ongoing support of the Midwifery Standards review process study.

The projects currently underway reflect the sensitivity of the Centre to respond to key midwifery and women's health issues. The Centre recognises the need for well-qualified competent health professionals, who can support a natural childbirth process and provide appropriate care with good outcomes for women and families.

The research themes within the Centre have also informed postgraduate study with several students having completed and participated in midwifery and women's health focused theses in 2003, and a number of ongoing students enrolled for 2004.

Community midwives and organisations have participated in Advisory Group meetings for the Centre of Midwifery and Women's Health Research this year. The focus of these meetings has been to discuss current research, identify research issues that are seen to be relevant to a cross-section of community and consumer organisations, and to strengthen possible collaboration opportunities for future research.

A series of seminars were held in the Centre. Presentations over 2003 included:

- Findings from the Study on the Papakura Birthing Unit
- New Zealand Guidelines Group Guidelines of Breech and VBAC in relation to Caesarean Section
- Maternal request for elective caesarean section – without clinical indication
- Lesbian mothers, queer families: the experience of planning pregnancy, a lesbian perspective
- The impact of sexual abuse on the childbirth experience

- Work in progress – a narrative study in midwifery
- Planning stages – Students' perspectives on how do midwives keep birth normal
- The use of complementary therapies in practice
- Exploring the experience of first time fathers during the childbirth process.

The Centre for Midwifery and Women's Health Research supported a successful joint conference with Women's Health Services, Counties Manukau District Health Board, at Middlemore Hospital in September.

Submissions have been made by staff of the Centre in response to government initiated discussion papers, including submissions on Complementary and Alternative Medicine and on the function and structure of the Breastfeeding Authority.

Members of the Centre for Midwifery and Women's Health Research have achieved a number of publications and other research outputs over 2003.

## **Faculty Scholarships, Awards & Travel Grants**

### ***Fellowships and Scholarships***

The Faculty of Health awarded the following scholarships and research support awards during 2003

#### **Maurice & Phyllis Paykel Trust Scholarships in Health Science**

Janice Giles	Becoming women who live without partner abuse
Elaine Fife	Sexual abuse: Prevalence and impact on women's health in childbirth

#### **Faculty Postgraduate Scholarship**

##### **Doctoral Scholarship**

Scott Duncan	The relationship between physical activity and obesity in New Zealand primary aged children
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#### **Faculty of Health Doctoral Fees Scholarships and Research Support Awards**

Darrell Bonetti	Tony MacCulloch
Rhys Cullen	Judith McAra-Couper
Fe Day	Lee Mathias
Annette Dickinson	Debbie Nelson
Cindy-Lou Evans	Carl Paton
William Farrell	Kenneth Quarrie
Tony Farrow	Jacki Richardson
Gudrun Frerichs	Clara Soper
Rosemary Godbold	Kim Swanwick
Kerry Gould	Catherine Water
Erica Hinckson	Pornratshanee Weerapong
Clare Hocking	Jan Wilson
Rebecca Keown	Lester Wong
Ronald Kinsley	Clara Soper
Mark LeFerve	

#### **Faculty of Health MHSc Fees Scholarships and Research Support Awards**

Hannah Badland	Linde Rosenberg
Blair Crewther	Tamzin Sheehan
Melanie Henderson	Janet Phare
Greg Owen	

## Faculty Travel Grants

The Faculty awarded the following grants to assist staff in presenting research findings at national and international conferences:

<b>Staff Name</b>	<b>Travel Grant Details</b>
Elizabeth Binns	<i>A model of community partnership and physiotherapy delivery that is culturally appropriate</i> Paper presented at the 1st Neurological Physiotherapy Conference, Sydney, Australia
Jim Borrows	<i>The acculturation of Pacific Island mothers in New Zealand in relation to some aspects of the health status of their infants</i> Paper presented at the 6th Regional Congress of the International Association of Cross-Cultural Psychology, Budapest, Hungary
Jill Collier	<i>Function as an outcome measure in patients with knee injury</i> Paper presented at the 14th International Congress of the World Confederation for Physical Therapy, Barcelona, Spain
Dr John Cronin	<i>The effect of augmented feedback on reducing ground reaction forces in the landing phase of the volleyball spike jump</i> <i>The effect of continuous repetition training and intra-set rest training on bench press strength and power</i> Papers presented at the New Zealand Sport Medicine and Science Conference, Nelson, New Zealand
Kate Diesfeld	<i>International exchange and debate: Reflections upon involuntary detention and civil commitment</i> Paper presented at the International Congress on Law and Mental Health, Sydney, Australia
Ines Ford-Bruins	<i>Education in acute mental health: The development of a postgraduate paper for nurses in acute mental health in New Zealand</i> Paper presented at the International Mental Health Nursing Conference, Tampere, Finland
Susan Graham	<i>Developing intellectual, social and emotional literacy through dance</i> Paper presented at the Australia and New Zealand Associations of Research into Education, Auckland, New Zealand  <i>A functional analysis of the dance field</i> Paper presented at the Pulses and Impulses for Dance in the Community, Lisbon, Portugal
Clare Hocking	<i>Reflections on form: Food-centred insights</i> Paper presented at the Society for the study of Occupation: USA 2nd Annual Research Conference, Salt Lake City, USA
Maea Hohepa	<i>Are New Zealand youth obese and physically inactive?</i> Paper presented at the New Zealand Sport Medicine and Science Conference, Nelson, New Zealand
Associate Professor Patria Hume	<i>Anthropometric dimensions of Team New Zealand America's Cup sailors</i> <i>High reliability of repeated short burst on-water rowing trials</i> Papers presented at the Australian Conference on Science and Medicine in Sport, Canberra, Australia  <i>What do we know about the mechanisms of injury? Evidence from soccer, hockey and touch tournament injury data from 1999-2002</i> Paper presented at the New Zealand Sport Medicine and Science Conference, Nelson, New Zealand

<b>Staff Name</b>	<b>Travel Grant Details</b>
Justin Keogh	<i>Inter-digit coordination and force control in finger-pinching</i> Paper presented at International Society of Biomechanics Congress, Dunedin, New Zealand  <i>Epidemiology of injury in powerlifting: Retrospective results</i> <i>Anthropometry of sixty-eight Australian and Pacific competitive powerlifters</i> <i>Digital photogrammetry versus ISAK anthropometry in determining body segment lengths of powerlifters</i> Papers presented at the Australian Conference on Science and Medicine in Sport, Canberra, Australia
Professor Gregory Kolt	<i>Physical activity across the lifespan: Motives and barriers</i> <i>Why old Australians participate in exercise and sport</i> Papers presented at the XIth European Congress of Sport Psychology, Copenhagen, Denmark
Patricia Lucas	<i>Sub-elite competitive running influences on bone density, body composition and sexual maturity of adolescent females</i> Paper presented at the Australasian Society for Behavioural Health and Medicine Conference, Christchurch, New Zealand
Kristina Maconaghie	<i>The virtuous health consumer, genetic testing, and insurance discrimination</i> Paper presented at the Australasian Bioethics Association 9th Annual Conference, Queenstown, New Zealand
Associate Professor Janis Paterson	<i>Infant bed-sharing among Pacific families in New Zealand</i> <i>Immunisation of six-week infants living in New Zealand</i> Papers presented at the 17th Conference of the European Health Psychology Society, Kos, Greece
Simon Pearson	<i>Anthropometric dimensions of Team New Zealand America's Cup sailors</i> Paper presented at the Australian Conference on Science and Medicine in Sport, Canberra, Australia
Julie Reeve	<i>A survey of physiotherapy emergency on-call services in New Zealand</i> Paper presented at the Southern Physiotherapy Symposium, Queenstown, New Zealand
Duncan Reid	<i>The influence of hamstring flexibility on the lumbar and pelvic angles in rowers</i> Paper presented at the 14th International Congress of the World Confederation for Physical Therapy, Barcelona, Spain
Rhoda Scherman	<i>Siblings in the mixed adoptive home: The relationship between children when one is born, and the other is adopted into the same family</i> Paper presented at the Hawaii International Conference on Social Sciences, Honolulu, USA
Dr Grant Schofield	<i>Adolescent active transportation for physical activity</i> Paper presented at the 50 <sup>th</sup> Annual Meeting of the American College of Sports Medicine, San Francisco, USA
Susan Shaw	<i>Nursing and chronicity: The impact of research and education on practice</i> Paper presented at the 1st Ministry of Health International Nursing Conference, Singapore
Caroline Stretton	<i>Systematic review of progressive resistance training in older adults</i> Paper presented at the 1st Neurological Physiotherapy Conference, Sydney, Australia
Margot Solomon	<i>Inside out and outside in: Boundaries and group work</i> Paper presented at the Australian Association of Group Psychotherapy Conference, Brisbane, Australia

<b>Staff Name</b>	<b>Travel Grant Details</b>
Dr Deb Spence	<i>Hermeneutic research informs education for cross-cultural practice</i> Paper presented at the Chicago Institute for Nursing Education Conference and Advanced Heideggerian Hermeneutic Institute, Chicago and Madison, USA
Jenny Stewart	<i>Ageism among health professionals: A comparison of clinical educators and students in physical and occupational therapy</i> Paper presented at the Australia and New Zealand Association of Medical Educators Annual Conference, Melbourne, Australia
Associate Professor Liz Smythe	<i>Preserving thinking in nursing education</i> Paper presented at the Chicago Institute for Nursing Education Conference and Advanced Heideggerian Hermeneutic Institute, Chicago and Madison, USA
Denise Taylor	<i>Neurological physiotherapy: A contemporary vision</i> Paper presented at the Southern Physiotherapy Symposium, Queenstown, New Zealand  <i>Principal muscles for reaching forward in an unconstrained functional task: Adaptations following stroke</i> Paper presented at the 1st Neurological Physiotherapy Conference, Sydney, Australia
Anita Wacker	<i>Doing and being: How psychotherapists process the impact of traumatic stress: A grounded therapy study</i> Paper presented at the Mind, Body and Soul Conference: An Integrated approach to Trauma, Hobart, Australia
Cindy Wiersma	<i>Job ads: A pragmatic look at competencies and Academia and industry: Ever the twain shall meet?</i> Paper presented at the Sport Management Association of Australia and New Zealand Annual Conference, Dunedin, New Zealand
Valerie Wright St-Clair	<i>Storied understandings of the resilience and the human spirit</i> Paper presented at the 2nd Canadian Occupational Science Symposium: Occupation, health and wellbeing: Exploring the relationship across the life course, Toronto, Canada  <i>Methods of international OS research: Holiday food preparation in elderly Kentucky, New Zealand and Thai Women</i> Paper presented at the Society for the Study of Occupation, Park City, Utah, USA
Caryn Zinn	<i>Factors influencing dissemination of nutrition information by New Zealand premier club rugby coaches to their players</i> Paper presented at the International Conference on the Science and Practice of Rugby, Brisbane, Australia

# Research Funding

## Internal Funding

### AUT Contestable Research Grants (Health)

Staff members of the Faculty of Health were successful in obtaining the following grants from the AUT Contestable Grant (Health) fund:

<b>Staff Name</b>	<b>Project</b>
Dr Anne Barlow	An evaluation of the implementation of the NZCOM Midwifery Standards Review Process for District Health Board employed midwives at South Auckland Health (\$17,800)
	Evaluation of a family violence education programme for midwives (\$4,400)
Dr Linda Buttle	Older adults perceptions of oral health: A descriptive qualitative study (\$7,000)
Greg Coyle	A pilot randomised control trial of papillomavirus 66 (HPV) (\$2,000)
Jackie Gunn	An oral history of midwives practice in New Zealand 1970-2000 (\$12,000)
Justin Keogh	The relationship between body kinematics and anthropometrics to club-head velocity during the golf swing (\$18,000)
Patricia Lucas	Physical activity in preschool children (\$15,000)
Ian Renshaw	Perceptual skill development in sport (\$6,000)
Carolyn Sanders	Survey of students' and teachers' experiences of academic skills in English required to support teaching and learning in Certificate programmes in the Faculties of Health, Science and Engineering, and Arts at AUT (\$3,700)
Caroline Stretton	The clinical utility of the 10km walk test as a predictor of community walking velocity in people following stroke (\$5,750)
Liz Smythe	Thinking and research (\$2,200)
	Thinking and leadership (\$2,950)
Valerie Wright-St Clair	Older women's experience of food-centred occupations: A cross-cultural comparison (\$3,200)

## **External Funding**

Staff and students of the Faculty of Health were awarded the following grants from external funding agencies during 2003:

<b>Researcher</b>	<b>Funding body</b>	<b>Project title</b>	<b>Amount awarded</b>
Liz Binns, Denise Taylor	HealthWEST	Falls Prevention Programme in West Auckland	\$33,750
Jim Borrowes	Maurice and Phyllis Paykel Trust	Financial assistance to attend at present at the 6th Regional Congress of the International Association of Cross-Cultural Psychology	\$2,799
Vivian Cheung	Alcohol Advisory Council of New Zealand	Alcohol and Illicit Drug Use/Abuse in New Zealand: An Asian Perspective	\$4,500
Paula Crabbe (Postgraduate student)	Health Research Council: Summer Studentship	Family violence curriculum in Aotearoa New Zealand schools of nursing	\$4,000
Blair Crewther (Postgraduate student)	Health Research Council: Masters Scholarship	Kinematic and kinetic profile of 10RM weight training and interaction with age	\$4,000
Blair Crewther (Postgraduate student)	Health Research Council: Summer Studentship	Kinematic and kinetic profile of 10RM weight training	\$11,250
Melanie Donne (Undergraduate student)	Health Research Council: Pacific Island Studentship	A study of the holistic effects of therapeutic riding for Maori participants with cerebral palsy	\$4,000
Nigel Harris	Pub Charity	Relationship of strength and power measures to functional performance	\$500
Melanie Henderson (Postgraduate student)	Foundation for Research, Science and Technology: Enterprise Scholarship	A netball jump shot will increase goal-shooting accuracy from a distance of three metres when compared to a standard netball shot	\$11,666
Maea Hohepa	Health Research Council: Postgraduate Scholarship	NZ adolescent physical activity: Prevalence, determinants and whanau intervention	\$84,375
Patria Hume	Bodywall Ltd	Bodywall protocols and evaluation	\$8,840
Patria Hume	Accident Compensation Corporation	Injury surveillance of hockey, netball, basketball, soccer and rugby league	\$7,629
Patria Hume (2001)	Sport Science New Zealand Inc.	Rowing performance on the water	\$33,638
Jane Koziol-McLain, Emma Davies (Institute of Public Policy, AUT)	Ministry of Health	Family Violence Evaluation	\$180,000

<b>Researcher</b>	<b>Funding body</b>	<b>Project title</b>	<b>Amount awarded</b>
Peter Larmer, Duncan Reid, Wayne Hing, Gillian Robb (University of Auckland), Peter McNair	Accident Compensation Corporation	Anterior cruciate ligament vignette analyses	\$74,262
Patricia Lucas, Grant Schofield, Fiona Goff	Sport and Recreation New Zealand	Physical activity in preschool children	\$8,000
Peter McNair	Maurice and Phyllis Paykel Trust	Exercise for osteoarthritis of the knee	\$19,538
Peter McNair, Denise Taylor	Scottwood Charitable Trust	Slips in Older Adults Project (SOAP)	\$10,000
Grant Mawston	Maurice and Phyllis Paykel Trust	Financial assistance to attend and present at the 14th International Congress of the World Confederation of Physical Therapy	\$1,750
Janis Paterson, Jim Borrows	Maurice and Phyllis Paykel Trust	PIF Transition to School - South Auckland Office and Clinic rent	\$36,400
Elizabeth Sherpa (Postgraduate student)	Foundation for Research, Science and Technology: Top Achiever Doctoral Scholarship	Adiposity, physical activity and dietary patterns in New Zealand adolescent girls: an ethnic comparative study	\$87,550
Stephen Stanley	Maurice and Phyllis Paykel Trust	Financial assistance to attend and present at the 14th International Congress of the World Confederation of Physical Therapy	\$1,750
Denise Taylor	Ministry of Health	Co-ordination and training of practice nurses to deliver the Otago education programme to older persons	\$157,500
Samson Tse (University of Auckland), Max Abbott, William Manaia (University of Auckland), Pefi Kingi (National Pacific Gambling Project), David Clark (Massey University), Paul Brown (University of Auckland), Maria Bellringer (University of Auckland)	Health Research Council	Examining the determinants of Problem Gambling	\$200,000 (of which \$29,970 was awarded to AUT)
Caryn Zinn	New Zealand Rugby Football Union	Factors influencing dissemination of nutritional information by New Zealand premier rugby coaches to their players	\$1,500

## Publications and Other Research Outputs

### Books

- Diesfeld, K.**, & Freckelton, I. (Eds.). (2003). *Involuntary detention and therapeutic jurisprudence: International perspectives on civil commitment*. Aldershot: Ashgate Publishing.
- Kolt, G. S.**, & Snyder-Mackler, L. (Eds.). (2003). *Physical therapies in sport and exercise*. Edinburgh: Churchill Livingstone.
- New Zealand Guidelines Group [**P. McNair** (member). **D. Reid**. (member)].(2003). *The diagnosis and management of soft tissue knee injuries: Internal derangement. Best practice evidence based guidelines*. Wellington, NZ: Accident Compensation and the New Zealand Guidelines Group.
- Seedhouse, D. F.** (2003). *Health promotion: Philosophy, prejudice and practice* (2nd ed.). Chichester: John Wiley and Sons.
- Whitehouse, E., & **Pudney, W.** (2003). *Little volcanoes*. Auckland, N Z: Peace Foundation.

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### Chapters in Books

- Cheung, V.** (2003). Asian young people and depression. In L. MacGibbon (Ed.), *Te kete whaiora: A resource about depression for people who work with young people* (pp. 70-75). Christchurch, NZ: Mental Health Foundation of New Zealand.
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- Diesfeld, K.** (2003). Criteria for discharge of people with learning disabilities: A comparative analysis. In K. Diesfeld & I. Freckelton (Eds.), *Involuntary detention and therapeutic jurisprudence: International perspectives on civil commitment* (pp. 553-578). Aldershot: Ashgate Publishing.
- Diesfeld, K.** (2003). Insights on "insights": The impact of extra-legislative factors on decisions to discharge detained patients. In K. Diesfeld & I. Freckelton (Eds.), *Involuntary detention and therapeutic jurisprudence: International perspectives on civil commitment* (pp. 359-382). Aldershot: Ashgate Publishing.
- Diesfeld, K.**, & Freckelton, I. (2003). Introduction. In K. Diesfeld & I. Freckelton (Eds.), *Involuntary detention and therapeutic jurisprudence: International perspectives on civil commitment* (pp. 1-20). Aldershot: Ashgate Publishing.
- Giddings, L. S.** (2003). New Zealand/Aotearoa. In C. E. D'Avanzo & E. M. Geissler (Eds.), *Pocket guide to cultural health assessment* (3rd ed., pp. 575-579). St Louis, MO: Mosby.
- Giddings, L. S.** (2003). Mackinnon, Joanna 1878-1966. In C. Orange (Ed.), *Dictionary of New Zealand Biography* (pp. www.dnzb.govt.nz). [Online]: Ministry for Culture and Heritage.
- Hocking, C.** (2003). Creating occupational practice: A multidisciplinary health focus. In G. Brown, S. A. Esdaile & S. E. Ryan (Eds.), *Becoming an advanced healthcare practitioner* (pp. 189-215). Edinburgh: Butterworth Heinemann.
- Hunter, M.** (2003). Autonomy, clinical freedom and responsibility. In M. Kirkham (Ed.), *Birth centres: A social model for maternity care* (pp. 239-247). Sheffield: Books for Midwives.
- Kolt, G. S.** (2003). Pain. In G. S. Kolt & L. Snyder-Mackler (Eds.), *Physical therapies in sport and exercise* (pp. 127-142). Edinburgh: Churchill Livingstone.

- Kolt, G. S.** (2003). Psychology of injury and rehabilitation. In G. S. Kolt & L. Snyder-Mackler (Eds.), *Physical therapies in sport and exercise* (pp. 165-183). Edinburgh: Churchill Livingstone.
- Kolt, G. S., & Snyder-Mackler, L.** (2003). The role of physical therapies in sport, exercise, and physical activity. In G. S. Kolt & L. Snyder-Mackler (Eds.), *Physical therapies in sport and exercise* (pp. 1-5). Edinburgh: Churchill Livingstone.
- McNair, P. J., & Creswell, A.** (2003). Muscle. In G. S. Kolt & L. Snyder-Mackler (Eds.), *Physical Therapies in Sport and Exercise* (pp. 9-25). Edinburgh: Churchill Livingstone.
- Schofield, G., Mummery, K., Brown, W., Eakin, E., Trost, S., & Abernethy, P.** (2003). Using the internet in a physical activity health promotion campaign: The 10,000 steps Rockhampton project. In S. Marshall, W. Taylor & X. Yu (Eds.), *Using community informatics to transform regions* (pp. 238-251). Henley, PA: Idea Group.

## Journal Articles: Quality Assured

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- Anderson, M. E., **Hopkins, W. G.**, Roberts, A. D., & Pyne, D. B. (2003). Monitoring long-term changes in test and competitive performance in elite swimmers. [Abstract]. *Medicine & Science in Sports & Exercise*, 35(Suppl. 5), S36.
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- Bishop, D., & **Ford-Bruins, I.** (2003). Nurses' perceptions of mental health assessment in an acute inpatient setting in New Zealand: A qualitative study. *International Journal of Mental Health Nursing*, 12, 203-212.
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- Cowling, E. J., Steele, J. R., & **McNair, P. J.** (2003). Effect of verbal instructions on muscle activity and ACL injury risk during landing. *British Journal of Sports Medicine*, 37(2), 126-130.
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## **Unpublished Keynote/Invited Addresses at Conferences**

- Abbott, M.** (2003). *The victim's task force: Reflections*. Paper presented at the Victim Support 2003 National Conference, Rotorua, NZ.
- Jones, M.** (2003). *Myths, mystery and magic of leadership*. Paper presented at the 18th National Operating Room Nurses Association Canada (ORNAC) Conference, Winnipeg, Canada.
- Jones, M.** (2003). *The leadership dance: Strategies for survival (CORL)*. Paper presented at the 18th National Operating Room Nurses Association Canada (ORNAC) Conference, Winnipeg, Canada.
- Jones, M.** (2003). *Adventure philosophy*. Paper presented at the Horticulture Industry Conference, Auckland, NZ.
- Kolt, G. S.** (2003). *Psychology of injury and rehabilitation*. Paper presented at the New Zealand Sports Medicine and Science Conference, Nelson, NZ.
- Pudney, W.** (2003). *Boys in schools*. Paper presented at the Alternative Education Conference, Auckland, NZ.
- Solomon, M.** (2003). *Inside out and outside in: Boundaries and groupwork*. Paper presented at the Scientific Meeting for the Australian Association of Group Psychotherapy, Brisbane, Australia.
- Stanley, S. N.** (2003). *Exercise prescription for physiotherapists*. Paper presented at the New Zealand Sports Medicine and Science Conference, Nelson, NZ.
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## **Unpublished Oral Presentations at Conferences**

- Abbott, M.** (2003). *Victims of crime: Looking back and looking forward*. Paper presented at the Victims of Offences symposium, Auckland, New Zealand.
- Barlow, A., Conroy, C., Hunter, M., & Lennan, M.** (2003). *Evaluation of the Papakura maternity unit*. Paper presented at the Women's Health Service Conference, Auckland, New Zealand.
- Borrows, J., & Paterson, J.** (2003). *Developing and managing a national longitudinal child study*. Paper presented at the Ministry of Social Development Longitudinal Study workshop, Wellington, New Zealand.
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- Bryham, G., & Patterson, T.** (2003). *ACE performance planning*. Paper presented at the National ACE Conference, Auckland, New Zealand.
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- Chan, H.** (2003). *Ancient eastern arts of relaxation*. Paper presented at the International Conference on Cross-Cultural Counselling, Auckland, New Zealand.
- Chan, H.** (2003). *Complementary therapies*. Paper presented at the Whangarei Healthcare Practice Nurse Education Programme, Whangarei, New Zealand.
- Cheung, V.** (2003). *Chinese youth*. Paper presented at the Chinese Social Work Conference, Auckland, New Zealand.
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- Diesfeld, K.** (2003). *Dementia, language, and quality services: Our future challenge*. Paper presented at the Age Concern Conference, Whangarei, New Zealand.

- Gunn, J.** (2003). *Approaching labour: The events women experience in the last fortnight of pregnancy*. Paper presented at the Keeping Birth Normal: Midwifery Research Conference, Wellington, New Zealand.
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- Larmer, P.** (2003). *The sucking stuck needle*. Paper presented at the Medical Acupuncture Society of New Zealand and Physiotherapy Acupuncture Association of New Zealand Conference, Auckland, New Zealand.
- MacAra-Couper, J.,** Earl, D., Gibson, E., Isa, P., Penjuli, R., & McGregor, B. (2003). *The tearoom conversations: Stories of birth from South Auckland*. Paper presented at the Women's Health Service Conference, Auckland, New Zealand.
- Maconaghie, K. E.** (2003). *The virtuous health consumer, genetic testing, and insurance discrimination*. Paper presented at the Australian Bioethics Conference, Queenstown, New Zealand.
- McKinney, C.** (2003). *Where have we come from and how did we get here?* Paper presented at the Cultural Safety in Nursing Education Forum, Taranaki, New Zealand.
- Mellow, P.** (2003). *Internet on a CD: An e-learning option*. Paper presented at the Upper North Island Tertiary and Secondary School e-Learning Educators Symposium, Hamilton, New Zealand.
- Paterson, J., & Cowley, E.** (2003, December). *Pacific health research longitudinal study: PIFS*. Paper presented at the World Health Organization Pacific Health Research Training Course, Auckland, New Zealand.
- Paterson, J., & Cowley, E.** (2003). *Immunisation of six-week old Pacific infants in New Zealand*. Paper presented at the Social Policy Research and Evaluation Conference, Wellington, New Zealand.
- Paterson, J., & Silva, P.** (2003). *Is there an OME problem among Pacific two-year-olds in South Auckland?* Paper presented at the New Zealand Audiological Society 27th Annual Conference, Auckland, New Zealand.
- Resnick, T.** (2003). *Exercise post-cardiac event: Pre-assessment, re-assessment, home versus facility based exercise*. Paper presented at the Cardiac Rehabilitation Association of New Zealand Conference, Auckland, New Zealand.
- Sanders, C.** (2002). *Master of Health Science in advanced nursing practice at AUT*. Paper presented at the New Zealand Society of Gastroenterology and NZNO Gastroenterology Nurses Annual Scientific Meeting, Auckland, New Zealand.
- Schofield, G.** (2003). *Getting the sedentary active*. Paper presented at the New Zealand Recreation Association Conference, New Plymouth, New Zealand.
- Seedhouse, D. F.** (2003). *Ethical decision making*. Paper presented at the New Zealand Audiological Society 27th Annual Conference, Auckland, New Zealand.
- Sheehy, K., & Renshaw, I.** (2003). *Coaching*. Paper presented at the Swimming New Zealand Coaching School, Auckland, New Zealand.
- Stewart, J.** (2003, November). *Going for gold in physical activity and independence*. Paper presented at the Parkinson's Seminar, Auckland, New Zealand.
- Waller, N.** (2003). *Pelvic anatomy in pregnancy and labour*. Paper presented at the Childbirth Educators Conference, Hamilton, New Zealand.

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## Unpublished Workshops at Conferences

- Abbott, M.** (2003). *Victims' rights: Where to from here?* Paper presented at the Victim Support 2003 National Conference, Rotorua, New Zealand.
- Boyd, M.** (2003). *Older adult: Nurse practitioner showcase of assessment*. Paper presented at the Division of Health Care Practice and Waitemata District Health Board Wave of Workshops, Auckland, New Zealand.
- Duke, J., Walton, J. A., Dixon, A., & Moss, C.** (2003). *Thesis examination*. Paper presented at the Research Higher Degree workshop, Wellington, New Zealand.
- Mellow, P.** (2003). *Pages by design: Creating school websites*. Paper presented at the Apple Education Conference, Auckland, New Zealand.

**Mellow, P.** (2003). *Website construction for education*. Paper presented at the Innovation Conference, Rotorua, New Zealand.

Winship, I. M., Wylie, J., & **Maconaghie, K. E.** (2003). *Ethics in practice*. Paper presented at the Australasian Research Management Society Annual Convention, Auckland, New Zealand.

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## ***Unpublished Posters at Conferences***

**Goedeke, S.** (2003). *Beyond the academic to self-awareness and self-reflective practice*. [Poster]. Paper presented at the Australasian Human Development Association 13th Biennial Conference, Auckland, New Zealand.

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## ***Intellectual Property***

**Hume, P., Soper, C., & Reid, D.** (2003). *Virtual Coach System* [Patent No 530093]. New Zealand.

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## ***Compositions***

**Graham, S. F.** (2003). *Advanced open 3 Ceroc* (Dance Choreography). Auckland, NZ: New Zealand Ceroc Dance Champs.

**Graham, S. F.** (2003). *Dream of the architect* [Choreography]. Auckland, NZ: AUT Dance Foundation.

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## ***Software***

**Cheung, K.** (2002). *Centre of mass calculation: LabVIEW programme*. (Version 1.) [Computer software]. Auckland, NZ: New Zealand Academy of Sport - North.

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## ***Exhibitions***

**Mellow, P.** (2003). *Sport: More than heroes and legends* [Exhibition]. Sydney, Australia: Powerhouse Museum.

## Oral Presentations

- Boyd, M.** (2003). *Nurse practitioner models for older adults*. Paper presented at the School of Health Science, Massey University, Wellington, New Zealand.
- Cairns, S. P.** (2003). *Interactive role of electrolytes in muscle fatigue*. Paper presented at the University of the Mediterranean, Marseille, France.
- Cowley, E., & Paterson, J.** (2003). *Pacific Island Families: Recent PIF findings*. Paper presented at the Pacifica Women Group, Auckland, New Zealand.
- Cowley, E., & Paterson, J.** (2003). *Pacific Island Families: Recent PIF findings*. Paper presented at the Ministry of Pacific Island Affairs, Wellington, New Zealand.
- Hopkins, W. G.** (2003). *Clinical vs statistical significance*. [Seminar]. Paper presented at the Department of Human Movement Science, University of Queensland, Brisbane, Australia.
- Hopkins, W. G.** (2003). *Clinical vs statistical significance*. [Seminar]. Paper presented at the Bioengineering Group, University of Auckland, Auckland, New Zealand.
- Hopkins, W. G.** (2003). *Clinical vs statistical significance*. [Seminar]. Paper presented at the Department of Community Health, University of Auckland, Auckland, New Zealand.
- Hopkins, W. G.** (2003). *A spreadsheet for analysis of straightforward controlled trials*. [Seminar]. Paper presented at the Department of Sports Medicine, University of Queensland, Brisbane, Australia.
- Hopkins, W. G.** (2003). *A spreadsheet for analysis of straightforward controlled trials*. [Seminar]. Paper presented at the Department of Movement Science, Australian Institute of Sport, Canberra, Australia.
- Horner, D.** (2003). *Health related quality of life: Comparison of questionnaires in a diverse population of patients with chronic heart failure*. Paper presented at the Cardiovascular Department, Middlemore Hospital, Auckland, New Zealand.
- Jones, M.** (2003, 6 June 2003). *Sea kayaking Antarctica's frozen coast*. [Lecture]. Paper presented at the Marine Education and Recreation Centre, Auckland, New Zealand.
- Jones, M.** (2003). *The New Zealand Antarctic sea kayak expedition*. Paper presented at the Te Kuiti Women's Group, Te Kuiti, New Zealand.
- Jones, M.** (2003). *Oceans of fury, mountains of wrath*. Paper presented at the Paremoremo Community Fundraising, Auckland, New Zealand.
- Jones, M.** (2003). *The Southern Andes sea kayak mountaineering expedition*. Paper presented at the Remuera Lions Club, Auckland, New Zealand.
- Paterson, J., & Cowley, E.** (2003). *Pacific Island Families: Recent PIF findings*. Paper presented at the Starship Childrens Hospital, Auckland, New Zealand.
- Paterson, J., & Cowley, E.** (2003). *Pacific Island Families: Recent PIF findings*. Paper presented at the Otahuhu Pacific Island Families Office, Auckland, New Zealand.
- Schofield, G.** (2003). *Big fat lies ... weight, physical activity and health*. [Seminar]. Paper presented at the Institute of Chartered Accountants, Auckland, New Zealand.
- Seedhouse, D. F.** (2003). *How to turn values into evidence*. Paper presented at the Manchester Metropolitan University, Manchester, United Kingdom.
- Seedhouse, D. F.** (2003). *Values, evidence and the law*. Paper presented at the Nottingham Trent University, Nottingham, United Kingdom.
- Seedhouse, D. F.** (2003). *Values-based medicine*. Paper presented at the University of East Anglia, Norwich, United Kingdom.
- Seedhouse, D. F.** (2003). *Nursing values and health values*. Paper presented at the King's College, London.
- Seedhouse, D. F.** (2003). *Software for values assessment*. Paper presented at the Greenwich University, London.
- Seedhouse, D. F.** (2003). *Values-based decision-making seminar for NHS leaders*. Paper presented at the University of Manchester, Manchester, United Kingdom.
- Solomon, M.** (2003). *A psychotherapeutic case-study in the termination phase*. Paper presented at the Institute of Psychoanalytic Psychotherapy, Auckland, New Zealand.

**Walton, J. A.** (2003, April). *Florence Nightingale: A nurse for our times?* Paper presented at the Auckland Rotary Club, Auckland, New Zealand.

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## Theses

**Harford, V. E.** (2003). *Foundation students: Academic achievement.* Unpublished Master of Education in Adult and Higher Education thesis, University of Auckland, Auckland, New Zealand.

**Macciarmid, R.** (2003). *Teaching on the run: An ethnographic study of RNs teaching other nurses.* Unpublished Master of Science thesis, University of Auckland, Auckland, New Zealand.

**Resnick, T.** (2003). *Home-based versus clinic-based phase II cardiac rehabilitation in New Zealand: A randomized trial.* Unpublished Master of Science thesis, University of Auckland, Auckland, New Zealand.

**Shelah, G. E.** (2003). *Enabling pedagogy: An enquiry into New Zealand students' experience of bioscience in pre-registration nursing education.* Unpublished Master of Education in Adult and Higher Education thesis, University of Auckland, Auckland, New Zealand.

**Watt, H.** (2003). *The value of oral communication to academic literacy.* Unpublished Master of Education in Adult and Higher Education thesis, University of Auckland, Auckland, New Zealand.

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## Other Research Outputs

**Appel, S.** (2003). Review of 101 experiments in the philosophy of everyday life. *A Capella Newsletter, March*, 5.

**Barker, M.** (2003). Wise up to the white stuff. *Kayak New Zealand Magazine*(20), 28-29.

**Barker, M.** (2003). Wise up to the white stuff (II). *Kayak New Zealand Magazine*(21), 8.

**Barker, M.** (2003). Wise up to the white stuff. *New Zealand Outdoors Instructors Association Quarterly*(27), 7-8.

**Butler, S. J., Williams, M., Tukuitonga, C., & Paterson, J.** (2003). Letter to the editor - response. *The New Zealand Medical Journal*, 116(1178), 527.

**Cairns, S. P.** (2003). Training in China. *Table Tennis Info*(22), 14-15.

**Cairns, S. P.** (2003). Brave performances by New Zealanders at world championships. *Table Tennis Info*(23), 25-26.

**Graham, S. F.** (2003). *Professional teacher education.* [Workshop]. Auckland, New Zealand: Tertiary Dance Festival.

**Hume, P., Dowson, M., Schofield, G., & Hopkins, W. G.** (2003, February). Feel the pulse at AUT. *The Kit*, 4-5.

**Jones, M.** (2003, August). Training for the outdoors! *The Kit*, 3.

**Larmer, P.** (2003). The sucking stuck needle. *New Zealand Journal of Acupuncture*, 2003, 38.

**Lythe, J.** (2003, August). A working partnership. *The Kit*, 4.

**McQuillan, J.** (2003). Getting heavy. *iRULE*, [Online]. <http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=97>.

**McQuillan, J.** (2003). Periodically. *iRULE*, [Online]. <http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=99>.

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<http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=102>.
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<http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=223>.
- McQuillan, J.** (2003). Upping the ante. *iRULE*, [Online].  
<http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=224>.
- McQuillan, J.** (2003). Sweet as. *iRULE*, [Online].  
<http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=240>.
- McQuillan, J.** (2003). Beam me up. *iRULE*, [Online].  
<http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=257>.
- McQuillan, J.** (2003). Camp data. *iRULE*, [Online].  
<http://www.irule.co.nz/cms/html/modules.php?name=IRuleHome&file=article&topicid=3.36.19&sid=75>.
- McQuillan, J.** (2003). Taupo day/night thriller. *Endurance Sport Magazine*, November/December, 50.
- Mellow, P.** (2003). Warming up. *Network*, December, 3.
- Mellow, P.** (2003, May). How do you measure up? *The Kit*, 6.
- Nikolai, J.** (2003). *An interdisciplinary approach to dance making*. [Workshop]. Auckland, NZ: Tertiary Dance Festival.
- Pudney, W., & Whitehouse, E.** (2003). *Volcano: Managing anger*. [CD-ROM]. Auckland, NZ: Peace Foundation.
- Sanders, C.** (2003). Internationalising the health science education curriculum. *New Zealand Health Review*, 1(6), 10,12-14.
- Sanders, C.** (2003). Rising to the challenge of health education. *New Zealand Health Review*, 1(2), 12-13,17-18.
- Schofield, G.** (2003). The weight of the nation: Physical inactivity and some steps forward. *New Zealand Health Review*, 1(1), 17.
- Zinn, C.** (2003). Food fat versus body fat. *Vodafone Warrior*, 3, 28-29.
- Zinn, C.** (2003). How to eat like a Vodafone Warrior? *Vodafone Warrior*, 2, 28-29.

## Postgraduate Student Research

The Faculty of Health offers a Master of Health Science (MHSc), Master of Philosophy (MPhil), Doctor of Health Science (DHSc), and Doctor of Philosophy (PhD).

### PhD Students

The PhD programme commenced in 2000, with seven candidates enrolled. A further sixteen candidates joined the programme in 2001, followed by ten candidates in 2002. Seven new candidates enrolled in 2003. One candidate (Clare Hocking) submitted her thesis for examination in December 2003, the first in the Faculty of Health

The first cohort of Doctor of Health Science candidates will commence their thesis research in 2004.

The following information is an outline of doctoral PhD research in process during 2003

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Darrell Bonetti	Professor Will Hopkins Dr John Cronin	The effect of specific high intensity resistance training on improving maximum and race specific kayak velocity
Vivian Cheung	Professor Max Abbott Associate Professor Janis Patterson	Developing a public health intervention: Promoting sexual health for Chinese youth in Aotearoa/New Zealand
Rhys Cullen	Professor David Seedhouse Kate Diesfeld	Rau Williams and assessing the moral competence of Doctors
Fe Day	Professor David Seedhouse Ian Buchanan	Playback theatre as a method of improving group communication and decision-making in health care teams
Annette Dickinson	Associate Professor Liz Smythe Dr Deb Spence	The working relationship between health professionals and families of children with chronic illness
Scott Duncan	Dr Grant Schofield Associate Professor Elaine Rush	The relationship between physical activity and obesity in New Zealand primary aged children
Cindy Evans	Dr John Cronin Anne Hart	The impact of active conditioning of select muscles of the neck and upper shoulder girdle upon biomechanical and kinematic aspects of wheelchair propulsion in the sport of wheelchair rugby
Bill Farrell	Associate Professor Stephen Appel Professor Jo Walton	An exploration of the impact of the learning group on the development of individual adult psychoanalytic psychotherapists
Tony Farrow	Professor Jo Walton Associate Professor Jane Koziol-McLain	How is care constructed for suicidal people in acute mental health inpatient wards?
Gudrun Frerichs	Dr Marion Jones Professor Jo Walton	How is the recovery of victims of sexual abuse shaped by the services

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Susan Gascoigne	Professor Jo Walton Dr Marion Jones	What shapes the 'everyday' decisions parents make about their children's health?
Suzanne Gates	Professor David Seedhouse Anne Bray	A critical analysis of the ethical and legal dilemmas in the area of self-determination for people with intellectual disabilities
Rosemary Godbold	Professor David Seedhouse Kate Diesfeld	In whose best interest? A critique of the ethico-legal principle of 'best interests' and the implications of its practical application within the context of clinical decision making in health care practice
Kerry Gould	Dr Andrew Duncan Dr Hans Everts	Staying connected: Enhancing outcomes for children after parental separation and divorce
Elizabeth Harding	Professor David Seedhouse	The paradox of rights: A purpose based approach to the use of health information
Erica Hinckson	Professor Will Hopkins Associate Professor Patria Hume	The effect of simulated altitude exposure on sea level performance
Clare Hocking	Professor Ann Wilcock Dr Janis Paterson	Rationalism, romanticism, objects and identity in occupational therapy
Maea Hohepa	Dr Grant Schofield Professor Gregory Kolt	Physical activity and obesity in Auckland secondary school students: Prevalence, correlates, and intervention
Wendy Horne	Dr Marion Jones Brian Findsen	Interdisciplinary education and practice for health professions
Rebecca Keown	Professor David Seedhouse Keith McLea	The nature of partnership and its use by the Accident Compensation Corporation
Mark Le Fevre	Professor Gregory Kolt Dr Jonathan Matheny	Stress in middle managers: Interventions and their utility to the employing organisation
Tony MacCulloch	Associate Professor Stephen Appel Brian Findsen	Critical analysis of discourses of emotional competence
Judith McAra-Couper	Dr Marion Jones Associate Professor Liz Smythe	What is shaping midwifery and obstetric practice in relation to intervention in childbirth?
Deborah Nelson	Professor David Seedhouse Kate Diesfeld	The philosophy and practice of holistic health care
Carl Paton	Professor Will Hopkins Dr John Cronin	Monitoring the performance of competitive cyclists
Ken Quarrie	Professor Will Hopkins Associate Professor Patria Hume	Injury prevention in New Zealand rugby

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Libby Sherpa	Dr Grant Schofield Professor Gregory Kolt	The relationship between ethnicity, physical activity, dietary patterns, and overweight and obesity in New Zealand adolescent females, taking into account growth and development
Margot Solomon	Associate Professor Stephen Appel Professor Barbara Bowers	The therapeutic experience
Clara Soper	Associate Professor Patria Hume Dr Richard Smith	Sculling technique: Potential optimisation of foot stretcher angle
Kim Swanwick	Dr Simon Cairns Associate Professor Elaine Rush	Blood glucose and exercise performance
Catherine Water	Associate Professor Liz Smythe Annette Dickinson	What is the experience of dilemma in paediatric practice?
Terry Webblemoe	Professor David Seedhouse Dr Gail Whitford	Teaching for cultural diversity in health education
Pornratshanee Weerapong	Associate Professor Patria Hume Professor Gregory Kolt	Pre-exercise strategies: The effects of warm-up, stretching, and massage on performance and muscle soreness
Jan Wilson	Associate Professor Lynne Giddings Dr Hilary Lapsley	'Lay wisdom' resisting professional expertise: Narratives of women overcoming depression
Lester Wong	Associate Professor Liz Smythe Associate Professor Lynne Giddings	A phenomenological study of how the experience of clinical touch informs practice

## **MHSc Thesis Students**

The following information is an outline of ongoing MHSc thesis research in 2003. Details of MHSc students who graduated in 2003 are on pages 59-61.

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Rosna Abdul Rahman	Dr Michal Boyd	A survey of parents' experience of caring for their child with asthma
Margo Angland	Dr Andrea Vujnovich Lynne Taylor	Evaluation of the effects of electrical stimulation on motor control in normal and impaired subjects. An investigation of the spinal and supra spinal influences on the Hoffman reflex
Hannah Badland	Associate Professor Patria Hume Dr Grant Schofield	A pedometer-based intervention to measure worksite physical activity
Glennis Best	Dr Deb Spence Jan Wilson	Student nurses' experience of clinical teaching with a faculty clinical teacher: A hermeneutic study
Elizabeth Binns	Denise Taylor	The Otago exercise programme: Do strength and balance improve?

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Elizabeth Blake-Palmer	Dr Deb Spence	The experience of being an orthopaedic nurse: A hermeneutic inquiry
Helena Blijlevens	Clare Hocking Ann Paddy	A phenomenological perspective of apraxia in every day life after stroke
Caroline Bree	Dr Deb Spence Associate Professor Lynne Giddings	The experience of planning pregnancy by alternative fertilisation: A lesbian perspective
John Bryant	Associate Professor Liz Smythe	The lived reality of men who have been abusive
Jonathan Claxton	Dr John Cronin Professor Peter McNair	The acute effect of different warm-up and stretch procedures on fast and slow stretch-shorten cycle performance
Fiona Clement	Marion Hunter Dr Deb Spence	How do primigravid women come to a decision to have an elective caesarean section?
Joyce Cowan	Marion Hunter Associate Professor Liz Smythe	Severe preclampsia: A hermeneutic analysis of women's experience
Blair Crewther	Dr John Cronin Justin Keogh	The mechanical, hormonal and metabolic profile of two power loading schemes
Anne Daniels	Carrie Sanders Associate Professor Jane Koziol-McLain	Listening to New Zealand Nurses: A survey of job satisfaction, burnout and intent to leave in one District Health Board
Jennifer De Leon	Associate Professor Liz Smythe Josephine Goulding	A phenomenological hermeneutic inquiry into the experience of stillness: a conscious, felt moment of stillness as told through the medium of dance performance and written exegesis
Erik Dombroski	Professor Peter McNair	Viscoelastic responses of the plantarflexor muscles during six weeks of static stretching
Deborah Earl	Marion Hunter Associate Professor Liz Smythe	What is midwives experience of keeping birth normal in a secondary care setting?
Stephanie Erick-Peleti	Dr Janis Paterson Dr Colin Tukuitonga	Maternal and health factors associated with household smoking among a cohort of Pacific mothers living in Aotearoa/New Zealand
Elaine Fyfe	Associate Professor Janie Koziol-McLain	Is there an association between sexual abuse and birth outcomes?
Brian Gabolinscy	Associate Professor Jane Koziol-McLain	Does triage code predict direct nursing care time in the emergency department?

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Janice Giles	Helen Curreen Margot Solomon	Becoming women who live without partner abuse: A feminist grounded theory study
Josephine Goulding	Margot Solomon Associate Professor Liz Smythe	What is the therapist's experience and understanding of their body responses during the therapeutic relationship
John Hagstrom	Dr John Cronin	A biomechanical analysis of three different strength training exercises and their application for sports performance
Julianne Hall	Jan Wilson Professor Jo Walton	How does nursing promote the rehabilitation of the child with traumatic injury in the acute setting?
Nigel Harris	Dr John Cronin	Equi-force resistance training and its effect on strength, power, hypertrophy and functional performance
Sharon Henaghan	Dr Simeon Cairns	The effects of moderate sleep loss on sleepiness levels and neuromuscular function in healthy males
Melanie Henderson	Associate Professor Patria Hume Dr Elizabeth Bradshaw	A netball jump shot increases goal shooting accuracy when compared to a standing shot from a distance of two metres
Jackie Herkt	Clare Hocking	Exploring the phenomenon of supervision of occupational therapists within New Zealand
Diane Hirst	Associate Professor Liz Smythe	The lived experience of the first year of midwifery practice
Diana Horner	Associate Professor Jane Koziol-McLain Dr Robert Doughty	Health related quality of life: Comparison of questionnaire properties in a diverse population of chronic heart failure patients
Dorothy Isaac	Dr Marion Jones Professor Jo Walton	The lived experience of paediatric nurses caring for burn injured children: A phenomenological study undertaken within a children's burn ward
Susan Johns	Professor Jo Walton Dr Deb Spence	'Being ethical' in clinical practice: What is the experience like for pre-registration nursing students
Margaret Jones	Clare Hocking Valerie Wright-St Clair	Parenting the child with traumatic brain injury
Deborah Jowitt	Associate Professor Lynne Giddings Linda Bryder	The H-Bug epidemic: The impact of penicillin resistance on New Zealand society and health during 1950's and early 1960's

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Marianne Kayes	Clare Hocking Ann Paddy	The experience of novice hospital play specialists in the first 18 months of employment
Nicola Khamis	Valerie Wright-St Clair	The lived experience of community physiotherapists working with clients at the end stage of life
Susan Kohut	Dr Deb Spence Peter Larmer	An exploration of the meaning of western acupuncture for New Zealand physiotherapists
Crea Land	Margot Solomon	Envy amongst psychotherapists in a psychotherapeutic community: A hermeneutic inquiry
Grant Mawston	Professor Peter McNair Dr Simeon Cairns	Kinematic and electromyographic responses to sudden loading in the trunk: Effects of fatigue
Beverley McClelland	Jackie Gunn Dr Marion Jones	What are the factors that contribute to the retention of nurses in an acute perioperative setting?
Joseph McQuillan	Dr John Cronin Dr Eadric Bressel	The effect of riding position in relation to power output in cyclists
Gael Mearns	Dr Michal Boyd Associate Professor Lynne Giddings	Decisions about preparing for the role of nurse practitioner in aged care
Stephanie Muncaster	Jan Wilson Dr Denise Dignam	What is the process of managing heart failure for the elderly person living in the community? A grounded theory study
Grace O'Sullivan	Clare Hocking Valerie Wright-St Clair	Older women's experiences of food centred occupations: A Canadian perspective
Gregory Owen	Dr John Cronin Nicholas Gill	The effect whole body vibration has on musculotendinous stiffness and performance
Julie Payne	Dr Anne Barlow Marion Hunter	The experience of being pregnant for women under the age of nineteen
Janet Phare	Clare Hocking	Narratives of people's everyday occupational lives following long term psychiatric hospitalisation
Valerie Raethel	Grace Wong	A grounded theory study exploring the process of living with high cholesterol levels
Susan Raleigh	Tony MacCulloch	The meaning and importance of service for health professionals
Maria Rameka	Dr Marion Jones Associate Professor Pare Keiha	What do Maori students need to complete an undergraduate nursing degree?

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Anneke Robinson	Associate Professor Liz Smythe Associate Professor Lynne Giddings	A case study analysis of women who have experienced a previous pre-term birth and seek acupuncture to prolong a subsequent pregnancy
Linde Rosenberg	Associate Professor Stephen Appel Dr Deb Spence	A qualitative study of psychotherapists' and counsellors' experience of unusual phenomena while working with clients
Tamzin Sheehan	Clare Hocking Ann Paddy	Motor neurone disease: The client experience
Kevin Sheehy	Professor Will Hopkins Dr John Cronin	Softball throwing speed: The effects of complex/contrast training
Marion Simmonds	Dr Andrea Vujnovich	The effect of spinal manipulation on excitability of the motor cortex
Carolyn Simmons-Carlson	Clare Hocking Valerie Wright-St Clair	Exploring the 'culture or practice' of MOE: Special education occupational therapists and physiotherapists through an ethnographic lens
Sandra Simpson	Jan Wilson Associate Professor Lynne Giddings	The process of daily managing type 2 diabetes: The Fijian experience
Kim Lam Soh	Associate Professor Jane Koziol-McLain Jan Wilson	Knowledge about nosocomial pneumonia prevention among critical care nurses in New Zealand
Elizabeth St Claire	Brigitte Puls Associate Professor Lynne Giddings	Living as an adult after involvement in a cult as a child: A narrative enquiry
Gene Stuart	Professor Will Hopkins Dr Simeon Cairns	The effect of caffeine supplementation on a simulated rugby performance
Daniel Sutton	Associate Professor Janis Paterson Ann Paddy	The meaning of daily activities for people recovering from mental illness: A phenomenological inquiry
Christine Tutty	Clare Hocking	The lived experience of teacher aides supporting students with high needs
Stephanie Vague	Associate Professor Liz Smythe Jackie Gunn	Midwives experiences of working with women in labour: Interpreting the meaning of pain
Ping Wang	Peter Larmer Dr Joan Campbell	The development and validation of traditional Chinese medicine questionnaire for patients with osteoarthritis of the hip or knee
Matthew Wood	Martin Dowson Professor Will Hopkins	The effects of simulated altitude training on aerobic and anaerobic performance indicators in the sub-elite swimmers

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Caryn Zinn	Dr Grant Schofield Associate Professor Patria Hume	Factors influencing dissemination of nutrition information by club rugby coaches to their athletes
Graham Zinsli	Associate Professor Liz Smythe	The experience of New Zealand nurses working in disaster/relief settings overseas: A phenomenological approach

### **MHSc Dissertation Students**

The following information is an outline of ongoing MHSc dissertation student research in 2003. Details of MHSc students who graduated in 2003 are on pages 59-61.

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Carlyn Abels	Dr Andrew Duncan	The therapeutic relationship: A systematic literature review with clinical illustrations. The effect of the therapeutic relationship when the presenting issues are sexually transmitted infections
Sandra Alexander	Tony MacCulloch	The significance of the physiotherapist-patient relationship from the perspective of the chronic pain client: A qualitative pilot study
Normal Alexis	Dr Andrew Duncan Robin Brinkman	The therapeutic relationship: A systematic literature review with clinical illustrations
Prakash Balasundara	Duncan Reid Wayne Hing	The incidence, nature and risk factors associated with young (schoolboy) pace bowlers in New Zealand
Jason Birse	Denise Taylor	Pilot testing of the modified Hammersmith Infant Neurological assessment
Rhonda Bliss	Brigitte Puls	A systematic review related to the therapeutic relationship: Anorexia nervosa and narcissism
Raewyn Brinsden	Peter Greener Dr Philip Culbertson	Sibling transference and tele: The road less travelled
Claire Burke	Wayne Hing Duncan Reid	Biomechanics of the upper cervical spine, validation of movements using ultrasound imaging: A pilot study
Kate Casey	Associate Professor Stephen Appel	The therapeutic relationship: A systematic literature review with clinical illustrations
Josephine Chetwynd-Talbot	Associate Professor Stephen Appel	The therapeutic relationship: A systematic literature review with clinical illustrations

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Kitt Christiansen	Dr Andrew Duncan	The unconscious influence of developmentally arrested symbol formation on the therapeutic relationship in psychotherapy with borderline clients: A Kleinian approach
Loretta Clarke	Associate Professor Stephen Appel Anna Hedley	The therapeutic relationship: A systematic literature review with clinical illustrations
David Coomber	Brigitte Puls	The therapeutic relationship: A systematic literature review with clinical illustrations: Fantasy as transitional phenomena in the therapeutic process
Rachel Cox	Dr Andrew Duncan	The therapeutic relationship: A systematic literature review with clinical illustrations
Megan Donovan	Wayne Hing Duncan Reid	Dynamic stability of the lumbar spine: Evidence for specific exercises for patients with chronic low back pain
Susan Goldstiver	Associate Professor Stephen Appel	The therapeutic relationship: A systematic literature review with clinical illustrations
Anne Gommers	Dr Andrew Duncan	How is play relevant to the teaching and learning of psychotherapy?
Susan Hawken	Susan Shaw Dr Marion Jones	An evaluation of the professional development component of the overseas doctors training programme
Gaylene Jakicevich	Dr Andrew Duncan	Buddhism and the therapeutic relationship
Roland Jeffrey	Wayne Hing	Musculoskeletal ultrasound
Susan Joyce	Margot Solomon	How do you live with yourself?
Amanda Marks	Dr Andrew Duncan Gudrun Frerichs	The therapeutic relationship: A systematic literature review with clinical illustrations
Gabrielle McClean	Evelyn Baker Sander	Somatisation in children: A modified systematic literature review with clinical illustrations
Margaret McMillan	Liadan Cotter	A systematic review related to the therapeutic relationship
Margaret Morice	Associate Professor Stephen Appel	The therapeutic relationship: A systematic literature review with clinical illustrations
Stefan Nagler	Liadan Cotter	The therapeutic relationship: A systematic literature review with clinical illustrations

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Judi Oliver	Associate Professor Stephen Appel	A systematic literature review illustrated by case material from child psychotherapy clinical case work
Seilosa Patterson	Dr Philip Culbertson	Cultural matching versus cultural collusion: How does cultural identification with the client affect the psychotherapeutic relationship?
Geoffrey Potts	Duncan Reid Professor Peter McNair	Biomechanical analysis of heavy load eccentric calf muscle exercise used in the rehabilitation of Achilles tendinosis
Brigitte Rothwell	Denise Taylor	The efficacy of 'casting motion to mobilise stiffness' to reduce proximal interphalangeal joint stiffness
Kelly Ryan	Duncan Reid Wayne Hing	The effects of manual therapy on muscle activity patterns in patients with shoulder impingement
Lisa Stowers	Dr Andrew Duncan Anita Wacker	A systematic literature review: Creative therapy and right brain
Ellen Van Essen	Lynne Taylor	The efficacy of arcuate dynamic traction splintage in the treatment of intra-articular fractures of the proximal interphalangeal joints of the hand: A retrospective view
Lisa Weaver	Stephen Stanley	The effects of lower limb strengthening and proprioceptive training programme on functional performance of a netball player
Janet Wilkinson	Peter Larmer Duncan Reid	The incidence and aetiology of Achilles tendon injuries in army recruits: A pilot study
Lynley Williams	Associate Professor Stephen Appel Gudrun Frerichs	The therapeutic relationship: A systematic literature review with clinical illustrations
Mandy Williams	Dr Deb Spence	One family's experience of having a relative in an intensive care unit: A phenomenological family case study
Pamela Williams	Dr Deb Spence	The experience of being new in the role of charge nurse: A hermeneutic phenomenological study
Julian Wilson	Dr Andrew Duncan Gudrun Frerichs	The therapeutic relationship: A systematic literature review with clinical illustrations
Heather Worley	Kate Diesfeld Professor David Seedhouse	Treatment by the law and society of parents of minors who have died in circumstances where they were denied medical intervention

## Research student graduates

The following Master of Health Science students graduated in 2003:

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Ghassan Abbas	Peter Larmer	A systematic review of acupuncture as a treatment for osteoarthritic pain
Bridget Armstrong	Professor Peter McNair Maynard Williams	Deep cervical flexor muscle activity and cervicocephalic proprioception in asymptomatic subjects and subjects following whiplash injury of the neck
Dianne Arthur	Dr Debbie Payne	Maternal request for a caesarean section: An interpretive descriptive study
Tony Ashcroft	Wayne Hing	Accelerated rehabilitation of the Achilles tendon
Janet Brady	Evelyn Baker-Sander	A systematic literature review illustrated with case material from a child psychotherapy clinical setting
Robyn Brinkman	Margot Solomon Associate Professor Stephen Appel	A grounded theory study of counter-transference in the group therapist working with people with eating disorders
Sharon Burmeister	Associate Professor Jane Koziol-McLain	Examining incidence of patient violence within a District Health Board
Maria Carbines	Dr Anne Barlow Dr Denise Dignam	What are the main concerns of fathers during childbirth and how do they continually manage those concerns?
Alex Chan	Dr Andrea Vujnovich Lynley Bradnam	Effect of acupuncture on alpha motorneuron excitability
Tina Darkins	Brian McKenna	The evaluation of a stress management programme using a quasi-experimental methodology
Abhijeet Deo	Wayne Hing	Musculoskeletal screening examination
Jill Depledge	Professor Peter McNair Cheryl Keals-Smith	The use of pelvic support belts in the treatment of symphysis pubis dysfunction during pregnancy
Anna Drijver	Associate Professor Stephen Appel	A systematic review related to the therapeutic relationship
Karen Drummond	Dr Marion Jones Associate Professor Lynne Giles	The perceived attributes of the clinical leader in the new millennium
Tim Dunn	Clare Hocking	An occupational perspective of unemployment

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Lynette Eaton	Clare Hocking Cameron Grant	The long-term functional implications of paediatric meningitis
Katrina Egan	Steve Stanley	International travel for high performance athletes: Effects and recommendations
Isla Emery	Clare Hocking	Occupations transformed: How psychosis affects the everyday things that people do. (A phenomenological study into the impact of psychosis on everyday occupation for youth)
Elizabeth Farrell	Professor Jo Walton	An exploratory study of public health nurses' perceptions of professional/clinical supervision
Catherine Healy	Associate Professor Stephen Appel	A systematic review related to the therapeutic relationship
Anna Hedley	Peter Greener	Counter-transference issues in the treatment of anorexia nervosa: A veritable feast in the context of famine
Margaret Hoessly	Professor Peter McNair	The effect of concentric and eccentric contractions on muscle stiffness at the knee in patients with spasticity of the quadriceps
Bjorn Jensen	Wayne Hing	Biomechanical considerations to pathology of the hip complex
Ravi Kanakamedala	Wayne Hing	Vertebro basilar insufficiency: Use of premanipulative screening guidelines in New Zealand
Gaela Kilgour	Professor Peter McNair Dr Susan Stott	The relationship between lower limb range of motion measures to phases in the gait cycle in children with spastic diplegia
Kath Levien	Lynley Bradnam	The effect of acupuncture on trigger points: A systematic review of the literature
Neil Lothian	Associate Liz Smythe Tony MacCulloch	A Van Manen hermeneutic phenomenological approach to the experience of being diagnosed with a malignant form of cancer for six adults
Kate McCallum	Dr Janis Paterson Dr Bob Large	'The Radiology conference.' Helping patients demystify their pain
Barbara McKenzie Green	Associate Professor Lynne Giddings	Registered nurses' work in residential aged care: A grounded theory study
Kaaren Marcinkowski	Grace Wong Dr Denise Dignam	Total knee joint replacement: A patient perspective of the process

<b>Student</b>	<b>Supervisor(s)</b>	<b>Topic</b>
Ingrid Marx	Wayne Hing	Biomechanical considerations to pathology of the hip complex
Caroline Masters	David Nicolls	Meaning of back pain for pregnant women
Anoushka Mohammed	Dr Andrew Duncan	A systematic review related to the therapeutic relationship
Margaret O'Sullivan	Tony MacCulloch	Responding therapeutically to clients' psychosocial needs in the assessment, treatment and rehabilitation setting: Constraints and facilitating factors encountered by the Registered Nurse
Simon Pearson	Dr Patria Hume Tim Ackland	Enhancing performance in ACG
Jarrold Presland-Tack	Martin Dowson Dr Henry Duncan	Comparing critical flicker fusion and the twitch interpolation technique in the measure of central fatigue from endurance exercise
Anne Recordon	Dr Andrea Vujnovich	The contribution of lateral weight transference to the control of balance in normal and hemiplegic subjects
Duncan Reid	Professor Peter McNair Lynne Taylor	The influence of hamstring flexibility on lumbo-pelvic angle during the rowing stroke: A kinematic analysis
Madeline Sands	Dr Marion Jones Associate Liz Smythe	An interpretative study to uncover the meaning of the team meeting for health professionals working in a multidisciplinary team
Tania Stephenson	Lynley Bradnam	Does acupuncture influence scars: A clinical investigation by case study
Vanessa Trent	Professor Peter McNair Maynard Williams	Frequency of stretching required to increase range of motion at the ankle joint
Anita Wacker	Margot Solomon Associate Professor Lynne Giddings	A grounded theory study of how psychotherapists manage work related vicarious traumatisation
Elizabeth Wood	Dr Deb Spence Associate Liz Smythe	The experiences of registered nurses who participate in a professional development programme: A phenomenological hermeneutic inquiry