The School has a significant commitment to postgraduate training. In 2003 we had a total of 91 PhD students, including continuing students and those completing their thesis. A total of 27 postgraduate students (including five MPhil students) commenced their program of study during the year, five of them being women.

The School, in co-operation with the ANU Graduate School, organised various activities aimed at assisting postgraduate students and broadening their education. An introductory seminar for new students was provided and various tours of the School facilities and the Department of Physics, The Faculties, were conducted. The students also met at several social functions.

Several student prizes were presented at Founder’s Day on the 17th of October:

The Jagadishwar Mahanty Prize, awarded biennially for the best PhD thesis was awarded to Annette Berriman for her thesis entitled “Investigating Entrance Channel Effects in Fusion-Fission Dynamics”.

The Director’s Prize, for the most outstanding published research paper by a PhD student over the last year was awarded jointly to Ray Roberts and Ilya Shadrivov, for their leading contributions in “Spreading of Aqueous Liquids in Un-sized Papers is by Film Flow” in Journal of Pulp and Paper Science 29 (2003) 123-131; and “Beam Shaping by a Periodic Structure with Negative Refraction” in Applied Physics Letters 82 (2003) 2820-3822 respectively.

The Graduate Program in Physical Sciences ran a seminar competition for the tenth year. Talks were presented by postgraduates from this School and The Faculties, with the sessions chaired by students. The winners were announced at the conclusion of the program and the prizes were presented at Founder’s Day.

The winner of the John Carver Prize for best talk at the Graduate Student Seminar Series was: Milica Jelasavicic, Atomic and Molecular Physics Laboratory, for her talk entitled “The Role of Resonances in Electron Scattering from Nitric Oxide (NO)”.

Winner of the Director’s Award was:
Elliott Fraval, Laser Physics Centre, for his talk entitled “Nuclear Spin Coherence Time Extension for Quantum Computing”.

Winner of the Dean’s Award was:
Ilya Shadrivov, Director’s Unit, for his talk entitled “Left-handed Materials: Bending Light in a Wrong Way”.

The Robert and Helen Crompton Scholarship for travel in 2003 was awarded jointly to Mr Scott Collins and Mr Elliott Fraval.

The Scholarship was awarded to Scott Collins for his outstanding work in experimental plasma physics and the award is to enable Scott to attend the 14th International Stellarator Workshop in Greifswald, Germany.

Elliott Fraval received his scholarship in recognition of the development of new experimental techniques significant to the field of quantum computing. The award is to enable Elliot to present the new measurements at the 8th International Meeting on Hole Burning, Single Molecule, and Related Spectroscopies in Montana, USA.

The staff of the School also makes a significant contribution to undergraduate education by offering a broad range of courses to enrich the undergraduate teaching program. These courses are offered in The Faculties, in the Physics, Engineering and Chemistry Departments. Also, to provide wider opportunities for ANU undergraduates at research level, the School has in recent years offered honours projects and many undergraduates have taken up this opportunity. The School supports this program by offering honours year scholarships of which there were two in the current year. It was also pleasing to note that nine students who held either vacation scholarships, honours scholarships or were visiting scholars in 2002 have continued and enrolled as PhD students in the School in 2003.

A large number of international and national visiting scholars, 32 and 51, respectively, spent three months to one year in various departments for the purpose of training and research in 2003. Lists of these scholars are available as an appendix.
Degrees Awarded & Destinations

Mr Tristram Alexander
Thesis: Nonlinear Waves in Optics and Bose-Einstein Condensation
Currently: Postdoctoral Fellow, Nonlinear Physics Group, RSPhysSE

Dr Rachel Butt
Thesis: The Effect of Ground-state Spin on Fission and Quasifission Anisotropies
Currently: Australian Bureau of Statistics, Canberra

Dr Christine Carmody
Thesis: Defect Engineering on InP and InGaAs for Optoelectronic Applications
Currently: Travelling in India

Dr Ben Corry
Thesis: Simulation Studies of Biological Ion Channels
Currently: Department of Chemistry, University of Western Australia

Dr Geoffrey Ericksson
Thesis: The Isotropic Singularity in Cosmological Models
Currently: Department of Mathematics, University of Queensland

Dr Chris Glover
Thesis: Microstructural Characterisation of Implantation-induced Disorder in Compound Semiconductors
Currently: ARC Postdoctoral Fellow, Department of Electronic Materials Engineering, RSPhysSE

Ms Sally Lloyd
Currently: James Cook University

Dr Jevon Longdell
Thesis: Quantum Information Processing in Rare Earth Ion Doped Insulators
Currently: CSIRO

Dr Thomas McGoram
Thesis: Multi-quasiparticle States and K-forbidden Transitions in Neutron-rich Lutetium Nuclei
Currently: Department of Defence, Commonwealth Government

Dr Snjezana Tomljenovic-Hanic
Thesis: Propagation Effects in Optical Waveguides, Fibres and Devices
Currently: Visiting Fellow, Applied Photonics Group, RSPhysSE

Dr Tessica Weijers
Thesis: Accurate Multi-Element Energy Spectroscopy with Ion Detectors for Elastic Recoil Detection Analysis
Currently: University of Newcastle, Callaghan (until October 2003), Department of EME, RSPhysSE (from October 2003)

Postgraduate Students

Sources of Funding:
ADFA Australian Defence Force Academy
ASS ANU Supplementary Scholarship
ANUPS Australian National University Postgraduate Scholarship
ANUPTS Australian National University Postgraduate and Tuition Fee Scholarship
APA Australian Postgraduate Award
APA(I) Australian Postgraduate Award (Industry)
CRC Cooperative Research Centre
CSIRO Supported by the Commonwealth Scientific & Industrial Research Organisation
GSS Graduate School Scholarship
IPRS International Postgraduate Research Scholarship
SPIRT ARC SPIRT Grant
RMIT Royal Melbourne Institute of Technology
VC Vice Chancellor’s Supplementary Scholarship
WS RSPhysSE Supplementary Scholarship for Women

The lists include first year students who were not enrolled for the full year and continuing students who have not yet graduated.

Mr Farzand Abdullatif, MSc ANU, AUSAID (from July)
Mr Marko Alat, BSc WSyd, ANU/MPhil (from February)
Ms Annabel Alexander, BSc ANU, APA/ASS (from March)
Mr Tristram Alexander, BSc Darwin, APA (until June)
Ms Sam Ashby, BSc Sydney, APA(I)/ADC Telecommunications Australia Pty Ltd
Ms Vicki Au, BA BSc Melb, ANUPS
Mr Satyanarayan Barik, BSc Vidyasagar, India, ANUPTS (from August)
Mr Ivan Blajer, BSc Melb, ANUPS
Mr Cameron Bowles, BSc Flinders ANUPS/GSS (from February)
Mr David Brett, BSc Melb, ANUPS
Mr Phillip Brydon, BSc ANU, APA/ANU/ASS (from January)
Ms Rachel Butt, BSc ANU, APA, VC (until February)
Ms Christine Carmody, BSc UNSW, APA/CSIRO (until June)
Ms Anna Carnerup, BSc Malmö, ANUPTS, IPRS (from January)
Mr Yung-Kai Chan, BSc ANU, (self-funded)
Mr Cheng Chen, BSc (Hons) Flinders, ANUPTS/GSS (from July)
Ms Victoria Coleman, BSc Flinders, APA/ASS
Mr Massimiliano Colla, MSc Pisa, OPRS/ANUPS
Mr Scott Collins, BSc Syd, ANUPS
Mr Ira Cooke, BSc JCUI, APA/ASS
Ms Beata Dabrowska, BSc Warsaw, ANUPTS/ASS (from August)
Mr Robert G. Dall, BSc CQld, APA
Mr Scott Edwards, BSc, Cert. of Adv. Studies, Tripos Cambridge, APA/ASS
Mr Geoffrey Ericksson, BSc QLD, ANUPS (until February)
Mr Drew Evans, BSc ANU, ANUPTS/ASS
Mr Michael Fraser, BSc ANU, APA/ASS (from January)
Mr Elliot Fraval, BEng (Elec) BSc (Physi) UC, BSc ANU ANUPS
Mr Qiang Gao, MS BSc Northeastern University, China, IPRS/ANUPS
Mr Paulus Gareso, BSc Hasanuddin University, MSc Macq, AusAID
Ms Laura Gladkis MSc Buenos Aires, ANUPS
Mr Fenton Glass, BSc Old, ANUPS
Mr Chris Glover, BSc Newcastle, ANUPS (from March)
Ms Sangeetha Gnanapragasam, BSc, MSc, MPhil Madras, ANUPTS (from August)
Mr Brendan Hanna, BSc UNSW, ANU/MPhil (from March)
Ms Joanne Harrison, BSc Adelaide, BSc, APA/ASS
Ms Judith Hazel, DipSci BSc MSc Otago, ANUPS
Mr Ben Heres, BE ANU, ANU/MPhil (from January)
Ms Zohair Hussain, ANU/MPhil (from March)
Ms Milica Jelisavcic BSc Belgr, ANUPTS
Mr Anthony Jones, BE/BSc ANU, ANUPTS (from March)
Mr Ali Khalil, BSc ANU, ANUPTS
Ms Lydia Knuefing, BA BSc Wuppertal, ANUPTS
Mr Vesselin Kolev, Eng-Phys Uni of Plovdiv, GSS (until October)
Mr Santhosh Kumar, MSc Pune, ANUPTS (ARC Discovery) (from October)
Ms Vanessa Leung, BSc Massey, GSS/ASS/WS (jointly with University of Bonn)
Ms Penelope Lever, BE Canterbury, GSS/ASS
Mr Peter Linardakis, BE/BIT ANU, APA/ASS
Ms Sally Lloyd, BSc Murdoch, APA/ASS (until August)
Mr Jason Longden, BSc Waikato, MSc Auck, GSS/ASS (until May)
Ms Pearl Louis, BSc (Hons) ANU, ANUPS
Mr Liviu Lungu, MSc BU Bucharest, SPIRT/APA(I)
Ms Lily Luo, BSc Nanchang, APA/ASS
Ms Sally Madsen, BSc (Hons) UQ, APA/ASS (from March)
Mr Glen McCarthy, BSc(Hons) UNSW, Dip Ed UNSW, ANUPS
Mr Ben McMillan, BSc Melb, APA/ASS
Mr Roger McMaster, BAppSc UC, ANU/MPhil (from February)
Mr Albert Meige, BSc Galilee, France ANUPTS (from February)
Mr Clive Michael, BSc ANU, APA/ASS
Ms Sudha Mokkapati, BSc Usmania, MSc Kanpur, India ANUPS
Mr Joseph Morrall, BSc ANU, ANUPS
Ms Eleni Notaras, B ABSc (Redfern Polymer Optics)
Ms Megan O’Mara, BAppSc, BSc ANU, GSS/ASS
Mr Norman Oelkers, DipPhys Heidelberg, IPRS/DAAD, EES(GSS)
(Jointly with MSI)
Mr David Oliver, BSc, UWgong, APA/ASS (from February)
Mr David Pretty, BSc Melb, ANUPS
Mr Horst Punzmann, BSc Polytech Regensburg, ANUPS
Mr Devin Ramdutt BSc UWgong, GSS/ASS (from March)
Mr Edward H. Roberts, BSc NSW, MBA Deak, FIE(Aust), APA/ASS
Mr Ray Roberts, BSc(For), ANUPTS/ASS (CRC funded)
Ms Yinlan Ruan, BSc MSc HUST China, ANUPS
Mr Mohammad Saadatfar, BSc Mazandaran MSc IASBS, ANUPTS
Mr Gerd Schröder, Dipl-Phys Cologne, ANUPTS
Mr Darryl Scott, BSc Wollongong, ANUPS
Mr Ilya Shadrivov, MSc, Nizhny Novgorod, ANU/IPRS/ASS
Mr Nat Smith, BSc ANU, ANUPS
Mr Marc Spooner, BSc Ottawa, MSc Western Ontario, ANUPS
Ms Kallista Stewart, BSc BE, ANU, ANUPS ASS (Endowment for Excellence)
Mr Orson Sutherland, BE ANU, APA/ASS
Mr James A. Swansson, BA MSc Melb, APA/ASS
Ms Snjezana Tomljenovic-Hanic, BSc Belgrade, APA(I)/ADC
Telecommunications Australia Pty Ltd (until May)
Mr Michael Turner, BSc Canberra, APA/ASS
Ms Linda J. Uhlmann, BAppSci CQld, APA/ASS
Mr Jeta Vedi, BE BCom, APA/ASS (from February)
Ms Tahira Vora, BSc ANU, ANUPTS (from February)
Ms Kylie Waring, BSc Mon, APA
Mr Klaus Wicken, MSc Turku, IPRS ANUPS (from April)
Mr Daniel Wilkins, BSc ANU, (Department of Geology), ANUPS (from February)
Mr Andrew Wilkinson, BE BSc ANU, APA/ASS
Ms Lena Wilson, BSc Vibesk State, ANUPS
Mr Stephan Winkler, MSc Vienna, ANUPS/ANUTFS (from September)
Ms Hua Xia, MSc Chongquing University, China, ANUPS

Honours Students

Name | Home University/ANU Faculty | Host Department
---|---|---
Mr Thomas Argue* | Physics Department, ANU | NPG
Mr Rene Chastowski | Flinders University | AMPL/LPC
Ms Kristen Feher | Physics Department, ANU | TP
Mr Thomas Hanna* | Physics Department, ANU | AMPL
Ms Christine Henry | Department of Chemistry, ANU | AM
Mr Aaron Matthews | Physics Department, ANU | TP
Mr Michael Noakhtar | Flinders University | AMPL
Mr Shannon Orbons | Flinders University | EME
Ms Trudy Peatey | Physics Department, ANU | NP

* received a RSPhysSE Honours Scholarship