





Dr Ian McKelvie,
Program Leader

PROGRAM LEADER: DR IAN MCKELVIE

The Centre's Education Program provides high quality education at the postgraduate, undergraduate, school and community levels with the aim of providing a strong comprehensive ecological framework for the sustainable management of freshwater resources.

Its specific objectives include:

- Provision of postgraduate education that produces ecologists and aquatic scientists with high level research skills that are sought after to work in the water industry.
- Contribution to undergraduate education programs to ensure graduates have sound ecological knowledge and an appreciation of its application to water management, and that graduates are aware of opportunities and employable within the water industry.
- Assisting community groups to understand water related issues and help equip them to take an active role in land and water management.
- Building community awareness of water ecology and related environmental issues through a program of public and school-based education.

4.1 Postgraduate education

Postgraduate teaching

Professor Sam Lake taught a postgraduate course entitled " Ecological Status of Surface Waters: Monitoring and Management of Rivers" at the Centro Internacional de Altos Estudios Agronomicos Mediterraneoos at Zaragoza, Spain, May 8-12.

First Postgraduate Student Workshop

The first CRCFE Postgraduate Student Workshop was held in October 1999 as a satellite meeting of the annual staff meeting of the CRCFE. The meeting provided a number of postgraduate students with an opportunity to present papers

The presentations were followed by discussion on the CRC Postgraduate program. Melissa Parsons and Brendan Ebner subsequently prepared a working paper entitled "The CRCFE Postgraduate Program in the Next 7 Years".

Postgraduate Completions

Postgraduate students who have completed their studies this year include:

Azaam Khosmanesh (PhD)	WSC, Chemistry (Monash)
Stuart Minchin (PhD)	WSC, Chemistry (Monash)
Daryl Nielsen (PhD)	MDFRC/Charles Sturt University
Sabine Schreiber (PhD)	Biological Sciences (Monash)
Soheyl Tajiki (PhD)	WSC, Chemistry (Monash)
Catherine Tan (M App Sc)	WSC, Chemistry (Monash)
Jason Van Berkel (PhD)	WSC, Chemistry (Monash)

Previous page:
Mayfly larvae, Family Baetidae.

Postgraduate Recruitment

Three CRCFE full postgraduate scholarships were awarded to Claire Sellens (Univ Canberra), Adrian Kelleher (Monash Univ), and Claudette Kellar (Monash Univ). Top Up scholarships were awarded to Heather McGuinness (Univ Canberra), Claire McKenny (Griffith Univ), Kellie Watts (Monash Univ) and Niem Tri (Monash Univ).

A postgraduate student induction manual has been prepared and distributed to all new students, and has been placed on the CRCFE student web site.

Postgraduate Training

PhD candidates Alison King and Cathy Francis undertook the week-long CRC Leadership and Career Development Course. The course was run by the Melbourne Business School sponsored by the Federal Government's CRC Program and the Business/Higher Education Round Table.

A number of CRC postgraduate students participated in a 14 day Statistics and Experimental Design course presented by Dr Gerry Quinn (CRCFE, Monash) and Dr M. Keogh (University of Melbourne).

Writing Award

A new three-month Writing Award was introduced to encourage students to submit within a three-year period.

Supervisor Training

Another new initiative was the introduction of a supervisor training day held in conjunction with the Annual Meeting. Thirteen participants from both university and non-university CRC partners attended this workshop.

Bruno David, summer scholarship student, electrofishing in clay section of Castle Creek for the Granite Creeks project.



Conference Attendance

The Centre has supported student travel to present papers and posters at a number of national and international conferences and workshops.

CHEN, Bailin	8th International Sediment-Water Interactions Conference, Beijing
CROOK, David	Australian Society for Fish Biology, Bendigo
EVANS, Lisa	Australian Society for Limnology, NZ
FINLAY, Kyla	Australian Society for Limnology, NZ
FRASER, Ian	Australian Society for Limnology, NZ
GRAHAM, Sue	Australian Society for Limnology, NZ
JENKINS, Kim	Australian Society for Limnology, NZ
KING, Alison	Australian Society for Fish Biology, Bendigo
LOVELL, Belinda	American Society for Limnology and Oceanography (Copenhagen)
McNEIL, Dale	Australian Society for Limnology, NZ
McNEIL, Dale	Australian Society for Fish Biology, Bendigo
OSWALD, Louisa	Australian Society for Limnology, NZ
OSWALD, Louisa	SETAC (Philadelphia)
TREADWELL, Simon	Australian Society for Limnology, NZ
TRI, Niem	FFF Conference, Paris

Ms Rhonda Butcher was selected to represent the Centre at the Young Water Scientist of the Year Award.

4.2 Undergraduate education

Undergraduate teaching takes place at Monash University, University of Canberra, La Trobe University and Griffith University and other CRC sites or at the request of other institutions. For example:

- Ian Lawrence gave a lecture on Catchment pollutant export processes to 3rd year students at University of Canberra.
- * Ian Lawrence gave a lecture on Landscape design: integrated land and water management to 3rd year students at University of Canberra.
- Chester Merick (MDFRC) gave a lecture and field trip to 2nd year students at Charles Sturt University, Wagga Wagga on River and lake dynamics and water quality indicators.
- John Whittington (MDFRC) gave a lecture on Eutrophication to 3rd year students at University of Canberra.
- Paul Humphries (MDFRC) gave one lecture and one tutorial to students at the University of Canberra in July 1999.
- John Whittington (MDFRC) gave a lecture on Cap on MDBC flows to Riverina TAFE Natural Resource Management students.



Water Science students at Tharwa Bridge
on the Murrumbidgee River.
Photo: P Sloane



- Terry Hillman presented a lecture on “Billabongs in the Murray Darling Basin” for the Graduate Diploma in Environmental Management, La Trobe University, students on 31 August 1999.
- Mr Glenn Wilson (Mildura) ran TAFE Natural Resource Management laboratory classes.
- Mr Glenn Wilson (Mildura) presented Koori TAFE Conservation and Resource Management classes.

Summer research scholarships and work experience

Twelve summer scholarships of \$3000 were available for distribution among the sites. These were allocated to University of Canberra (3), Monash WSC and Biology (3), Griffith University (2), MDFRC (2), La Trobe University -Wodonga (1), and the Lower Basin Laboratory, Mildura (1). The scholarships are offered for 8-10 weeks at \$300 per week (tax payable). Students are required to submit a final report.

4.3 School Education

The Centre is involved in school education at a number of levels, including:

- presentations at science exhibitions and Teachers’ Association conferences.
- presentations, class lessons and field work for specific schools.
- curriculum development and teacher training (including the Diploma of Education at La Trobe University).
- development of gifted students/high achievers extension program.
- work experience and career advice.
- “Easter School”, “Riverine School” (at Mildura) and “Upper Murray School” in conjunction with Rotary.

Learning outcomes for school students include:

- the excitement of science and some appreciation of techniques,
- the relevance and importance of science to environmental problems,
- an understanding of aquatic ecosystems, and
- possible career paths



School curriculum materials

Mike Copland continues to provide schools with information and advice about the inclusion of CRCFE educational materials within the school program.

As was proposed in last year's Report, the Centre has become involved in the satellite broadcasts to Victorian Schools in the STEPs project.

Rotary Murray-Darling School of Freshwater Research

The fifth Rotary Murray-Darling School of Freshwater Research was held in and around Albury from 16 to 20 April. The School enables high quality science students to work with the scientists of the centre, so that they may better understand and appreciate the issues relevant to freshwater ecology. The participants this year included 26 students from as far away as Berri, Cobar, Nambucca Heads and Mudgee; a local Waterwatch coordinator; and 3 Graduate Diploma of Education students from La Trobe University (Wodonga). Organised by Mike Copland.

The Rotary Camp on River Health

29 Year 10 students, 2 teachers, 1 Waterwatch coordinator and several Rotary Mentors. Organised by Ben Gawne.

Demonstrations to school groups

More than 25 schools have been introduced to freshwater environments through bill-abong and river field trips, ranging from year four to year 11. Post Graduate Diploma of Education students from La Trobe University became involved in this year's program. The interest and understanding of students is high, with return visits showing a sound retention of knowledge.

Assistance continued to be provided to schools involved in "Murder Under the Microscope", an interactive World Wide Web educational activity conducted through Sydney University and to the Melbourne Zoo's "Communicating Across the Catchment" program.

The Lower Basin Laboratory has also been very active with a schools outreach program. Mike Copland has represented the Centre at a number of career nights for secondary students and at speech days/nights. The MDFRC presented its first Freshwater Ecology prize to a senior student at Murray High School. He also "presided" at two primary school Science Week presentations.

The Wirraminna Centre at Burrumbuttock has become a most valuable school and community ecological resource.



*Students sample fish at
Lake Cullulleraine*

Table 4.1

CRCFE Students

Note: Honours students are not formally associated with the CRCFE, but are included by virtue of their supervision by CRCFE staff.

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
Honours						
BRICOUT, Jodie	1/3/00	University of Adelaide	Walker (Adelaide)	Effects of salinity on floodplain vegetation.		
CHURCHILL, Ricc	1/2/98	La Trobe	Suter Meathrel (La Trobe)	A retrospective assessment of gold mining in the Reedy Creek subcatchment, North East Victoria, Australia.	La Trobe	
COCKAYNE, Bernard	1/2/98	La Trobe	Suter (La Trobe) Scholz (MDFRC)	Postdrought macroinvertebrate recolonisation of a temperate seasonally flowing temporary river: Rose River, VIC.	La Trobe	
COOK, Robert	1/7/98	La Trobe	Suter (La Trobe) Scholz (MDFRC)	Effect of shading on biofil biomass macroinvertebrate community structure in the Murray and Darling Rivers at Wentworth.	La Trobe Scholarship	
DOOLANDS, Shannon	1/3/00	University of Adelaide	Walker (Adelaide)	Design of wetland inlet regulators to exclude carp.	NHT per Bookmark Biosphere Trust	
EDWARDS, Megan	1/3/00	Charles Sturt University	Baldwin (MDFRC) Roberson (CSU)	The role of DOC in inhibiting macrophyte growth.		
GEISECKE, Jonathon	1/33/00	University of Adelaide	Walker (Adelaide)	Design of wetland inlet regulators to exclude carp.	NHT per Bookmark Biosphere Trust	
GRIBBEN, Deborah	2/2/99	La Trobe	Rees (MDFRC), Croome (La Trobe)	Normans Lagoon: an examination of its phytoplankton and photosynthetic bacterial populations.	La Trobe	
HAMMER, Michael	1/7/00	University of Adelaide	Walker (Adelaide)	Conservation biology of southern pygmy perch.	Apps pending	
HUBBERT, Elizabeth	1/5/99	Biological Sciences, Monash	Lake (Monash)	Shoreline refugia in a sand-bed stream: Creighton's Creek, Victoria.		
KELLER, Reuben		Monash	Lake (Monash)	The Ecological impact of the Oriental weatherloach in wetlands.		



Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
MITCHELL, Alison	1/6/98	Charles Sturt University	Baldwin (MDFRC) Robertson (CSU) Rees (MDFRC)	The interactions of the anaerobic nutrient cycling processes in sediments.	CRCFE	
MOONEY, Angie	1/6/99	University of Canberra	Thoms (UC)	Sedimentation in the Murray Catchment South Coast Catchment Management Committee.		
MURCHLAND, David	1/3/00	University of Adelaide	Walker (Adelaide)	Design of wetland inlet regulators to exclude carp.	NHT per Bookmark Biosphere Trust	
PEARSON, Melanie	1/7/98	La Trobe	Suter (La Trobe)	Habitat occupation of the Baetidae (Insecta: Ephemeroptera) in the Rose River, Victoria.	La Trobe	
PINNER, Andrew	1/6/99	University of Canberra	Thoms (UC)	Heavy Metal storage in Floodplain systems – South Coast Management Committee.		
SCOTT, Kane	1/3/00	University of Adelaide	Walker (Adelaide)	Design of wetland inlet regulators to exclude carp.	NHT per Bookmark Biosphere Trust	
SIMPSON, Lisa	1/3/00	University of Canberra	Norris (UC), Thoms (UC)	Effects of grazing on streams in the Australian alpine parks	Self funded	
STEGGLES, Tracey	1/7/00	University of Adelaide	Walker (Adelaide)	Distribution of spiders on Murray floodplain.		
SUTHERLAND, Lachlan	31/2/00	Charles Sturt University	Robertson (CSU), Nielsen (CSU)	Response of the micro-invertebrate egg bank in temporary wetlands to disturbance by livestock.		
YIAW, Hui Loi	1/3/00	University of Adelaide	Walker (Adelaide)	Effects of salinity on floodplain vegetation.		
YOUNG, Wendy	1/3/00	University of Adelaide	Walker (Adelaide)	Effects of salinity on floodplain vegetation.		
ZUTOWSKI, Sylvia	1/7/00	University of Adelaide	Walker (Adelaide)	Life history of freshwater mussels.		

Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
Honours Completed						
BIGGIN, Margo	1/2/98	University of Canberra	Thoms (UC)	Suspended sediment transport in a dryland river: The Barwon-Darling River system.		
BRUNNER, Peter	1/2/99	University of Canberra	Thoms (UC)	River channel morphology within the lower Balonne River system.		
DAVIES, Jennifer	2/2/99	Water Studies Centre, Monash	McKelvie (Monash)	Development of a flow injection technique for determination of acetate in anaerobic digestion processes.		
GRAHAM, Nicholas	1/3/99	Biological Sciences Monash	Lake (Monash)	Hyporheos of a sand-bed stream: Creighton's Creek, Victoria.		
KURUKULASURIYA, Srimali	1/2/99	Water Studies Centre, Monash	Beckett (Monash)	The speciation of pesticides in aquatic waters and sediments.		
MCINERNEY, Paul	1/7/00	LaTrobe	Suter (LaTrobe)	Impact of Inter basin transfer of water from the Snowy River to the Murray River on stream macroinvertebrates.	La Trobe	
OSWALD, Kathryn	1/2/99	La Trobe	Suter (La Trobe) Scholz (MDFRC)	Benthic diatom communities of a temporary stream: Groundwater interactions and effects of nitrogen and phosphorus addition.		
ROBERTS, Kate	1/7/98	University of Canberra	Norris (UC) Thoms (UC)	The effect of drought on community structure of stream macroinvertebrates.	Environmental Division of Urban Services (ACT)	Environmental Division of Urban Services (ACT)
RATAJCZYK, Paul	1/7/00	LaTrobe	Suter (LaTrobe)	The distribution of mayflies communities along the Kiewa River.		
SMITH, Ben	1/7/98	University of Adelaide	Walker (Adelaide) Wilson	Observations on the early life history of carp, <i>Cyprinus carpio</i> : fecundity, spawning and tolerance of eggs to salinity and dehydration.	Bookmark Biosphere Trust	Queensland Fisheries
WATTS, Kellie	2/2/99	Water Studies Centre, Monash	Hart (Monash)	Investigation of pore water phosphorus concentrations in lowland river sediments.		
WEDDERBURN, Scott	1/7/99	University of Adelaide	Walker (Adelaide)	Conservation status of small fish in the River Murray, SA.		



Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
Masters						
ALLANSON, Matt	1/3/95	University of Canberra	Norris (UC)	Effects of land use on water quality in coastal freshwaters of New South Wales determined using rapid bioassessment.	CRCFE	NSW Fisheries
COGHLAN, Jason	1/2/97	University of Canberra	Thoms / Cho (UC)	Predicting the health of the riverine corridor.	Hawkesbury Nepean Catchment Management Trust	
CURMI, Tim	1/3/99	La Trobe	Suter (La Trobe)	The Health of the Lachlan River.	NHT	
DAVIS, Nicole	6/3/96	University of Canberra	Apte (CSIRO) Maher (UC) Wade (ACTEW)	The fate of ammonia and the effects on the river system.	ACTEW	
HEWLETT, Rebecca	22/4/98	La Trobe	Suter (La Trobe) Metzeling (EPA Vic)	Classification of Victorian streams: Implications of taxonomic resolution, sample frequency and sample method.	La Trobe/ EPA	EPA, VIC
HUNTER, David	1/7/96	University of Canberra	Osborne Georges (UC)	Life history of declining and non declining frogs in the Southern highlands of NSW.	Self Funded	
OWEN, Brendan	25/6/96	University of Melbourne	Harris (NSW Fisheries) Palaniswami (Melb)	Electronic monitoring of fishways.	MDBC	
ROBERTS, Cherie	1/7/97	University of Western Sydney	Gehrke (NSW)	Habitat and niche segregation among larval and juvenile fish (Fisheries).	University of Western Sydney in Hawkesbury River lagoons.	
THOMPSON, Scott	1/3/98	University of Canberra	Georges (UC)	Systematics of the long-necked turtles in the family Chelidae.	ABRS	

Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
Masters completed						
AMINI, Nana	1/2/99	Water Studies Centre, Monash	McKelvie (Monash)	Development of rapid analytical methods by immobilised enzymes and flow injection analysis.		
GREENWOOD, Ashley	1/7/99	University of Adelaide	Walker (Adelaide)	Inter-annual variability in climate and streamflow in the Lower Murray-Darling Basin: An environmental perspective.		
HARDWICK, Lorraine	4/2/94	Charles Sturt	Hillman (MDFRC)	Relationships between Macroinvertebrate Communities and Riparian Vegetation in Tarcutta Creek- a lowland tributary of the Murrumbidgee River, New South Wales.	Self-funded	
PhD Commencing						
BALLINGER, Andrea	24/2/00	Biological Sciences, Monash	Mac Nally (Monash) Lake (Monash)	Invertebrate biodiversity of coarse woody debris on floodplains.	MDBC CRCFE Top Up	
CAPON, Samantha	1/2/00	Griffith University	Bunn (GU), Brock (DLWC)	Flow related response of vegetation in arid inland floodplains.	LWRRDC	
KELLAR, Claudet	1/3/00	Monash	Quinn (Monash) Lake (Monash)	Community Dynamics in temporary pools.		
LYDDY-MEANY, Amanda	1/2/00	Water Studies Centre, Monash	McKelvie (Monash)	Determination of silica in Estuarine Waters by Flow Injection Analysis.		
SELLENS, Claire	1/5/00	University of	Norris (UC) Canberra	Defining the reference condition: implications for biological assessment.	CRCFE	
WATTS, Kellie	1/3/00	Monash	Hart (Monash)	Biogeochemical cycling of nutrients in sand bed Lowland rivers		



Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
PhD Continuing						
ASSEMI, Shoeleh	19/1/95	Water Studies Centre, Monash	Beckett Hart (Monash)	Characterisation of humic substances and its role in phosphorus speciation in natural waters.	CRCFE Top Up	
BALCOMBE, Stephen	27/8/95	La Trobe	Lawler (La Trobe) Humphries (MDFRC) Closs (Otago)	Spatial and temporal habitat use in billabongs by small fish assemblages.	La Trobe Scholarship	
BEATTIE, Gillian	31/3/96	Water Studies Centre, Monash	Hart / Beardall (Monash)	The role of algae and bacteria in nutrient cycling in lowland rivers.	Monash CRCFE top up	
BROWN, Glen	1/6/98	University of Canberra	Norris / Maher (UC)	Relationships between nutrients, algae and invertebrates in the Thredbo River.	Kosciusko Thredbo Top up	DNR - QLD
BUTCHER, Rhonda	28/3/96	Biological Sciences, Monash	Lake (Monash) Marchant (Museum of Victoria)	Conservation assessment of Victorian wetlands using invertebrates.	APA + CRCFE Top up	
CHEN, Bailin	20/1/97	Monash	Beckett	Development of field flow fractionation (Monash)	APA methods.	
CROOK, David	1/3/98	Charles Sturt University	Humphries (MDFRC)	Habitat use and movement of golden perch and carp in a lowland river.	CSU	
DAVIS, Karen	1/12/97	University of NSW	Harris (NSW)	Genetic variation of Carp <i>Cyprinus</i> <i>Fishes</i>	Self funded	Carp in South-Eastern Australia.
DOODY, Sean	20/2/96	University of Canberra	Georges Osborne (UC)	Effects of nest site selection and fluctuating temperatures of <i>Carettochelys insculpta</i> .	CRCFE Scholarship	
DRIESEN, Jennifer	1/3/95	Water Studies Centre, Monash	Hart (Monash)	Carbon and nutrient cycling in lowland rivers.	CRCFE scholarship	

Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
DRIVER, Patrick	27/2/95	University of Canberra	Harris (NSW Fisheries) Norris (UC) Closs (Otago)	Impact of carp on macrophytes and water quality.	CRCFE scholarship	DLWC -
EBNER, Brendan	3/3/97	La Trobe	Suter (La Trobe) Gawne (MDFRC)	Introphic interactions between zooplankton and fish.	La Trobe Scholarship	
EVANS, Lisa	24/7/95	University of Canberra	Williams Thoms(UC)	Riparian vegetation development and disturbance along the Upper Murray and Murrumbidgee rivers.	APA CRCFE Top Up	
FERDINANDS, Rod	1/1/95	Water Studies Centre, Monash	Hart (Monash) Finlayson Gippel (Melb)	Environmental indicators.	Self Funded	
FINLAY, Kyla	1/8/96	Biological Sciences, Monash	Campbell (Monash)	Taxonomy of freshwater invertebrates (Ephemeroptera).	CRCFE Scholarship	
FONSEKA, Chintha	1/8/92	Water Studies Centre, Monash	Beckett (Monash)	Characterisation of organic matter in waste waters for optimal recycling and treatment.	WSC(l)	
FRANCIS, Cathy	3/3/97	University of Canberra	Thoms Gawne(UC)	The effects of flow regulation on carbon and nutrient cycle in temporary wetlands of the Murray River.	APA CRCFE Top up	
FRASER, Ian	4/10/96	Water Studies Centre, Monash	Hart (Monash) Barling (SKM)	Development of a predictive model for algal growth in Cairn Curran Reservoir.	Goulburn Murray-Water	
GRAHAM, Sue	1/2/97	University of Adelaide	Walker (Adelaide)	Impact of water extraction on the endemic invertebrates of Artesian springs in the Lake Eyre Region.	APA(1) Western Mining	
GRAY, Leigh	18/7/95	University of Canberra	Maher (UC) Lawrence (CRCFE) Ford (CSIRO)	Role of redox processes in the release of phosphorus from sediments.	CRCFE Scholarship	



Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
GREEN, Damian	15/9/95	University of Canberra	Harris (NSW Fisheries) Oliver (MDFRC) Cullen (UC)	Population dynamics and physiology of phytoplankton in an artificially perturbed reservoir.	CRCFE scholarship	
GRIGGS, Jackie	4/1/95	La Trobe	Croome (La Trobe) Shiel (MDFRC)	Taxonomy, biogeography and ecology of Chydoridae in Australia.	ABRS+ CRCFE top up	Tasmania's HECS
HOWITT, Julia	29/3/99	Monash	Baldwin Rees (MDFRC)	Photochemistry of Aquatic Substances.	APA, CRCFE top up	
JENKINS, Kim	16/3/98	University of New England	Boulton Brock (UNE)	Flood frequency and community dynamics of invertebrates emerging from reflooded sediments of dry lakes in south-western NSW.	Menindee Project Scholarship	
JONES, Sandra	1/1/95	University of Canberra	Osborne Williams (UC)	Conservation biology of the endangered legless lizard <i>Aprasia parapulchella</i> in the Molonglo catchment.	ACTEW RPRA	
KING, Alison	30/3/98	Biological Sciences, Monash	Lake (Monash) Humphries (MDFRC)	Identification and quantification of the nursery habitats of Murray Darling freshwater fish larvae.	LWRRDC Scholarship	
LLOYD, Natalie	21/8/95	Biological Sciences, Monash	Campbell MacNally (Monash)	Scales of spatial correlation in macroinvertebrate community structure.	CRCFE Scholarship	
LOVELL, Belinda	1/5/98	Monash	McKelvie	Transport, Speciation and Bioavailability of Phosphorus in the Latrobe River.	Bonlac/ DNRE/ WGCMA	
MCNEIL, Dale	4/3/96	La Trobe	Lawler (La Trobe) Hillman (MDFRC) Closs (Otago) Gehrke (NSW Fisheries)	Fish, zooplankton and algae dynamics in Murray River billabongs.	APA CRCFE top up	

Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
NIAS, Deborah	27/1/95	Biological Sciences, Monash	Bailey (Monash)	Foodweb structure in an ephemeral floodplain wetland.	Monash CRCFE Top up	
OSWALD, Louisa	20/11/95	University of Canberra	Norris / Maher (UC)	In situ toxicity testing of water quality.	APA CRCFE Top up	
PARSONS, Melissa	12/9/95	University of Canberra	Norris / Thoms (UC)	Compositional patterns of lotic benthic macroinvertebrates: Relationship to habitat and the scale of measurement.	APA CRCFE Top up	
PETERSON, Kylie	3/3/97	University of Canberra	Kearney Thoms (UC) Humphries (MDFRC)	Age, growth and survival of larval fish in the Murray-Darling Basin.	APA CRCFE Top Up	
ROSE, Louise	5/12/97	University of Canberra	Gerritsen (UC)	Investigate management response and adaptations to coastal change in the face of increasing population and environmental stresses.		
SIEBENTRITT, Mark	1/1/99	University of Adelaide	Walker (Adelaide) Ganf (Adelaide)	Effects of water regime on wetland plants	Bookmark Biosphere Trust, CRCFE top-up app pending	
SONNERMAN, Jason	1/7/97	Water Studies Centre, Monash	Kershaw (Monash) Breen (Melb Water)	The development of rapid bioassessment protocol for the use of diatoms as water quality indicators.	APA	WSC-Monash
STOFFELS, Rick	1/2/98	University of Otago		Diet habitat associations of Midgley's gudgeon within and among floodplain billabongs: the role of their interaction with perch and mosquitofish.		
TREADWELL, Simon	2/9/96	Biological Sciences, Monash	Lake MacNally Campbell (Monash)	Role of snags in carbon dynamics in lowland rivers.	CRCFE Scholarship	



Table 4.1
CRCFE Students, continued

Name	Commenced	University	Supervisor	Topic	Funding	Graduate Employment
TSYRLIN, Edward	1/7/95	Biological Sciences, Monash	Campbell (Monash)	Taxonomy of the Plecoptera.	CRCFE Scholarship LWRRDC	
WARD, Jacqueline	1/3/99	La Trobe	Suter (La Trobe)	Ecology of the Murray River Crayfish.	Self funded	
WHITE, Lindsay	1/6/99	Monash	Harris (NSW Fisheries)	Hydraulics and fish behaviour in fishways.		
PhD Completed						
DUGGAN, Ian	1/3/96	Waikato	Shiel (MDFRC)/ Green Chapman (Waikato)	The ecology of New Zealand North Island Rotifers and their use as bioindicators.	Waikato Jolly Fellowship	
KHOSHMANESH, Aazam	1/1/97	Water Studies Centre, Monash	Hart / Beckett (Monash)	Study on biotic and abiotic uptake/release of phosphorus by sediment.	APA CRCFE Top up	
NIELSEN, Daryl	1/7/94	Charles Stuart University	Shiel / Hillman Klomp (MDFRC)	The influence of flooding regimes on the ecology of billabongs: and experimental approach.	LWRRDC	MDFRC
PUCKRIDGE, Jim	1/7/89	University of Adelaide	Walker (Adelaide)	Flow variability and fish ecology in an arid zone floodplain river, Cooper Creek, Central Australia.		Visiting Research Fellow, Univ Adelaide
SCHREIBER, Sabine	1/4/94	Biological Sciences, Monash	Lake / Quinn (Monash)	Ecology of the introduced snail <i>Potamopyrgus antipodarum</i> and its effects on native fauna.	CRCFE Scholarship	Institut fur Gewässer- kologie und Binnenfischerei in Berlin, Germany
TADJIKI, Soheyl	19/1/95	Water Studies Centre, Monash	Beckett (Monash)	The application of FFF techniques to the study of colloids.	Monash Scholarship CRCFE top up	Post Doc fellow at WSC
THOMSON, Jim	1/7/94	Biological Sciences, Monash	Lake (Monash) Downes (Melbourne)	Influences of disturbance on predation in streams.	APA	
VAN BERKEL, Jason	1/2/95	Water Studies Centre, Monash	Beckett (Monash)	Colloid characterisation and dynamics in reservoirs.	CRCFE Scholarship	Self employed