

STAFFING AND ADMINISTRATION

IN-KIND AND CRC-FUNDED STAFF AT JUNE 30, 2001,

MORE THAN 140 RESEARCHERS AND SUPPORT STAFF WERE CONTRIBUTING TO CRC ACTIVITIES.

THESE STAFF REPRESENTED MORE THAN 47 FULL-TIME STAFF.

A LISTING OF STAFF RESOURCES IS GIVEN IN THE APPENDIX.

NEW APPOINTMENTS

PROJECT LEADERS

Dr Mike Stewardson

(The University of Melbourne)
Project Leader, Projects 6.1 and 6.7,
River Restoration Program

Dr Tony Ladson

(The University of Melbourne)
Project Leader, Projects 6.2,
River Restoration Program

SENIOR RESEARCHERS

Dr Christy Fellows

(Griffith University)
Land-use Impacts on Rivers Program

Dr Tim Fletcher

(Monash University)
Urban Stormwater Quality Program

Mr Nick Marsh

(Griffith University)
River Restoration Program

Dr Sergei Schreider

(Monash University)
Sustainable Water Allocation Program

SPECIFIED RESEARCH PERSONNEL

Professor Russell Mein

Department of Civil Engineering
Monash University (Centre Director)

Professor Tom McMahon

Department of Civil and Environmental
Engineering, The University of Melbourne
(Centre Deputy Director,
Program 5 Leader - Climate Variability)

Dr John Tisdell

Faculty of Environmental Sciences,
Griffith University
(Centre Deputy Director, Program 3
Leader - Sustainable Water Allocation)

Dr Rob Vertessy

CSIRO Land and Water
(Centre Deputy Director, Program 1
Leader - Predicting Catchment Behaviour)

Dr Peter Hairsine

CSIRO Land and Water
(Program 2 Leader - Land-use Impacts on Rivers)

Dr Ian Rutherford

Department of Geography and Environmental
Studies, The University of Melbourne
(Program 6 Leader - River Restoration)

Associate Professor Tony Wong

Department of Civil Engineering
Monash University
(Program 4 Leader - Urban Stormwater Quality)

Associate Professor John Fien

Faculty of Engineering Sciences
Griffith University
(Program 8 Leader - Education & Training)

Researcher	Percentage Time	
	Actual	Agreement
Professor Russell Mein	100	100
Professor Tom McMahon	86	70
Dr John Tisdell	100	70
Dr Rob Vertessy	100	100
Dr Peter Hairsine	93	75
Dr Ian Rutherford	55	55
Associate Professor Tony Wong	59	45
Associate Professor John Fien	33	30



Far Left CRC office facilities provided at Griffith University – Mary-Lou Clarke and Telena Nethercote at front desk

Left (Left to Right) Tanya Jacobson – CSIRO node, John Molloy – Business Manager, and Virginia Verrilli – Centre Office.

STAFF ON CONTRACT

Staff on short-term contracts during 2000-2001 included Lionel Siriwardena, Maeve O'Leary - Monash University; Murray Peel - The University of Melbourne

POSTGRADUATES

During 2000-2001 42 postgraduates were involved in research on CRC core programs or projects.

A further five were engaged in research on associated research projects. (Details are outlined in the Education and Training section).

RESEARCH FACILITIES

The principal research facilities for the CRC are located at CSIRO Land and Water - Canberra; Griffith University - Nathan Campus; Monash University - Clayton; and The University of Melbourne - Parkville.

Access to research infrastructure including laboratories, technical equipment, computer resources and libraries has been provided at the principal locations.

Significant research facilities are made available by other CRC Parties, in addition to the principal sites mentioned above.

OTHER

Focus Catchments at Brisbane, Fitzroy, Goulburn Broken, Murrumbidgee and Yarra Rivers represent substantial items in the research sites and facilities available to the CRC.

Important resources for the CRC research include the datasets provided by CRC Parties including Brisbane City Council, Bureau of Meteorology; Department of Land and Water Conservation, NSW; Department of Natural Resources and Environment, Vic; Goulburn-Murray Water; Melbourne Water and Natural Resources and Mines, Qld.

COMMUNICATION ACTIVITIES

Throughout 2000-2001, the CRC continued to expand its communication efforts to include the general public, as well as its stakeholders, Parties and natural resource industry practitioners.

Public interest in catchment hydrology issues, such as the impact of reforestation on water yields and water trading and allocation, is at an all-time high. The CRC contributed to the public debate by providing information based on relevant, practical, leading-edge research, through a variety of communication activities tailored to suit different audiences.

Examples of successful communication activities include the acclaimed industry and technical seminar series and accompanying reports and videos, Catchword newsletter, workshops and field days, industry manuals, fact sheets, best practice guidelines and protocols, and the CRC Website.

WEBSITE

During the year, the CRC continued to update its Website at www.catchment.crc.org.au. User feedback was welcomed and used to update a range of features which included:

- improved navigation
- research model downloads (AquaCycle, CRC-Forge)
- technical report summaries
- project sheets
- events calendar and events notification
- new pages
- Catchword subscription
- publications lists
- direct access to Program pages:

Program 1
www.catchment.crc.org.au/catchmentprediction

Program 2
www.catchment.crc.org.au/landuseimpacts

Program 3
www.catchment.crc.org.au/waterallocation

Program 4
www.catchment.crc.org.au/urbanstormwater

Program 5
www.catchment.crc.org.au/climatevariability

Program 6
www.catchment.crc.org.au/riverrestoration

Program 7
www.catchment.crc.org.au/communication

Program 8
www.catchment.crc.org.au/education

Website data logging started in early 2001 and confirmed the site's value as an important tool for communicating CRC for Catchment Hydrology research outcomes. More than 2000 different people visit the Website every month and almost half visit more than once. Visitors include researchers and practitioners from the US, Russian Federation, Japan, Netherlands, Germany, Singapore, Spain, Italy, Canada, South Africa, New Zealand, Saudi Arabia and Malaysia.



Far Left Participants at workshop on Design of Flood Mitigation Measures, Monash, November 2000

Left Presenters at 'Flood' workshop included CRC Monash staff Rick Wootton, Russell Mein and Erwin Weinmann and (second from left) Mike Read (Read Sturgess and Associates)

Below Future Issues Workshop participants addressed by Dr Stephen Beare, ABARE



PUBLIC PRESENTATIONS

The CRC continued its industry and technical seminar series throughout the year, attracting large audiences from land and water management agencies, local councils, community groups, Catchment Management Authorities, and research and funding organisations.

- CRC researchers were invited to present their findings at Australian and international workshops, conferences and field days. Highlights included: CRC Chairman, Dr John Langford, was invited to present the Munro Oration at Water 2000, the 26th Hydrology and Water Resources Symposium conference in Perth. This oration is a memorial to Professor Crawford Munro, the father of engineering hydrology in Australia and initiator of the successful symposium series. Orators are selected as people eminent in the field of hydrology and water resources.

PUBLIC RELATIONS

The CRC maintains a specialist media distribution list of more than 30 journals and magazines, and radio and television outlets and uses news releases and media liaison to promote research outcomes and significant achievements to the wider community.

During the year, media coverage was obtained in a range of print and electronic media including New Scientist magazine (a review of water reform reports, quoting Dr John Tisdell), ABC Radio, the *Canberra Times* (an article on Ms Rebecca Bartley, CRC Young Water Scientist of the Year) and regional newspapers.

A list of media references is provided in this report.

The CRC mounted displays promoting its activities at the Water Sensitive Urban Design - Sustainable Drainage Systems for Urban Areas Conference, 30-31 August 2000, Melbourne.

The CRC maintained the 'hydrology' list server, which links world-wide some 1500 users with an interest in hydrology.

PUBLIC PRESENTATIONS

PUBLIC RELATIONS AND COMMUNICATION

PUBLIC PRESENTATIONS 2000 – 2001

Date	Speaker (s)	Topic	Organisation/Location
20 June 2000	Dr Robert Argent	Integrated management: Integrated modelling, integrated assessment, integrated knowledge	EcoSummit, Halifax, Canada
27-29 June 2000	Dr Rob Vertessy	Forest hydrology	Pusan National University, South Korea
28 June 2000	Dr Robert Argent	Integrating models for environmental management - Paradigms, people and process	The University of Guelph, Canada
20 July 2000	Assoc Prof Tony Wong	Water Sensitive Urban Design	Victorian Department of Infrastructure, Vic
26 July 2000	Chris Carroll	Overview of Fitzroy catchment	AEAM Planning Meeting, Rockhampton, Qld
28 August 2000	Dr Rob Vertessy	Water quality modelling	South East Queensland regional Water Quality Management Strategy, Brisbane, Qld
29 August 2000	Dr Robert Argent	Catchment management modelling in Australia: Practice, theory and the future	Bay Delta Modeling Forum, Berkeley, USA
30 August 2000	Dr Rob Vertessy	Water yield impacts of afforestation	National Vegetation Working group, AFFA, Canberra, ACT
6 September 2000	Dr Robert Argent	Multi-jurisdictional catchment management: Enhancing understanding and problem solving using simulation software and GIS components	GIS-EM4 Conference, Banff, Canada
8 September 2000	Dr Ian Rutherford, Dr Chris Gippel	Stream rehabilitation: Australia v. the Rest of the World.	Brisbane River Festival, Brisbane, Qld
1-3 September 2000	Dr Richard Silberstein	Trees, Water and Salt - Highlights from a forthcoming guide to growing trees for salinity control	Australian Forest Growers conference, Cairns, Qld
8-10 September 2000	Dr Ian Prosser	Modelling catchment-scale sediment delivery to streams	European Union Conference on Linkage of Hillslope Erosion to Sediment Transport in River Systems, Almeria, Spain
8-10 September 2000	Dr Jacky Croke	Channel linkage, sediment delivery and catchment response in a managed forest in temperate southeastern Australia. COST 623	Soil Erosion and Global Change Meeting, Almeria, Spain
13-14 September 2000	Dr Ian Rutherford	Keynote Presentation: The functions of riparian vegetation in Australia: a review of recent work	Greening Australia Environmental Research Forum, Vic
17 October 2000	Sandra Roberts	Transpiration and water yield in eucalyptus sieberi forests of different age	State Forests of NSW, Eden, NSW
19 October 2000	Assoc Prof Tony Wong	Design, construction and operation of the stormwater management scheme in the Lynbrook Estate	Stormwater Industry Association dinner forum
23 October 2000	Dr Ian Rutherford	Keynote Address: Some concepts for effective stream rehabilitation	Wise Waterways Conference 2000, Beechworth, Vic
30 October – 10 November 2000	Dr Alan Seed	S_PROG, a nowcasting system for quantitative precipitation forecasting.	World Weather Research Program Nowcasting Workshop, Bureau of Meteorology Sydney, NSW
5-9 November 2000	Assoc Prof Rodger Grayson	The importance of soil moisture in hydrological processes.	Soil Science Society of America Annual Meeting, Minneapolis, Minnesota, USA
14-16 November 2000	Dr Richard Silberstein	Agroforestry design for salinity control	National Dryland Salinity Program National Conference, Bendigo, Vic
13-17 November 2000	Dr Alan Seed	S_PROG, a nowcasting system for quantitative precipitation forecasting.	Bureau of Meteorology, Sydney, NSW
4-8 December 2000	Dr Rob Vertessy	Environmental management Support system (EMSS)	SE QLD Regional Water Quality Management Strategy, Brisbane, Maroochy Shire Offices, Gatton, and Gold Coast Shire Offices, Qld
12 February 2001	Prof Tom McMahon	Keynote paper: Drought and anti-drought	International Symposium of Drought in Aquatic Ecosystems, Albury, NSW
19 February 2001	Dr Margaret Greenway Assoc Prof Tony Wong	Activities of the Urban Stormwater Quality Program in 2000	Brisbane City Council, Brisbane, Qld
28 February 2001	Dr Margaret Greenway	Water quality monitoring in Native Dog Creek.	Logan-Nerang Water Quality Technical Advisory Committee, Qld
1 March 2001	Dr Rob Vertessy	Salinity management hypothetical	LWRRDC, Canberra, ACT
5 March 2001	Chris Carroll	GRDC update	Moura, Qld
7 March 2001	Assoc Prof Tony Wong Dr Tim Fletcher, Hugh Duncan	Activities of the Urban Stormwater Quality Program in 2000	Melbourne Water, Melbourne, Vic
20 March 2001	Prof Russell Mein	Overview of the CRC for Catchment Hydrology Research Program	North-East CMA, Albury, Vic
28 March 2001	Prof Russell Mein	Catchment hydrology, with the emphasis on catchment	Melbourne Water Employee Forum, Sunbury, Vic
3 April 2001	Rebecca Bartley	Experiences as a young female scientist in the water industry	Women in Water Breakfast, AWA Convention, Canberra, ACT
17 May 2001	Rebecca Bartley	Giants slugs attack Australian streams - research to the rescue	CRCA Conference, Perth, WA

CRC SEMINARS 2000 – 2001

Date	Speaker (s)	Topic	Organisation/Location
21 June 2000	Scott Wilkinson (Monash)	The response of large scale bedforms to changes in stream discharge: A modelling approach	The University of Melbourne, Parkville, Vic
11 August 2000	Dr Rob Millar (Uni BC)	Impacts of forestry operations on BC salmon streams: Challenges and opportunities for restoration	The University of Melbourne, Parkville, Vic
16 August 2000	Sandra Roberts (Uni Melb)	Transpiration and water yield in eucalyptus sieberi forests of different age	CSIRO Land and Water, Canberra, ACT
21 August 2000	Dr Rein Van Genuchten (US Dept Agric)	Unsaturated hydraulic property estimation in support of variably-saturated flow and transport modelling	CSIRO Land and Water, Canberra, ACT
30 August 2000	Dr Glen Walker (CSIRO)	Disposal basins within irrigation areas of the Riverine Plain: Siting, design and management issues	CSIRO Land and Water, Canberra, ACT
20 September 2000	Dr Bill Young (CSIRO)	Relative changes in sediment supply and sediment transport capacity in a bedrock-controlled river	CSIRO Land and Water, Canberra, ACT
21 September 2000	Dr Jacky King (Univ Cape Town S. Africa)	Development of an environmental flow strategy for a newly developed inter-basin transfer scheme in Lesotho, Southern Africa	The University of Melbourne, Parkville, Vic
16 October 2000	Dr Rob Vertessy Dr Rob Argent Joel Rahman (All CSIRO)	Catchment modelling toolkit	CSIRO Land and Water, Perth, WA
25 October 2000	Dr Ian Prosser (CSIRO)	A new terrain analysis technique for hillslope erosion prediction	CSIRO Land and Water, Canberra, ACT
2 November 2000	Dr John Tisdell (Griffith)	Irrigator attitudes to water trading in the Goulburn-Murray catchment, Victoria	CSIRO Land and Water, Canberra, ACT
15 November 2000	Dr Roger Braddock (Griffith)	Perspectives on the modelling toolkit	Griffith University, Nathan, Qld
8 December 2000	Chris Carroll (NRM, Qld)	Project 3.2 – Enhancement of the water market reform process: A socio-economic analysis of guidelines and procedures for trading in mature water markets	Queensland Department of Natural Resources and Mines, Rockhampton, Qld
19 December 2000	Dr John Tisdell (Griffith)	Irrigator and community attitudes to water reform in the Fitzroy basin	Brisbane, Qld
17 March 2001	Sandra Roberts (Uni Melb)	Transpiration and water yield in Eucalyptus sieberi forests of different age	The University of Melbourne, Parkville, Vic
30 March 2001	Dr Graham Jenkins (Griffith)	Hydraulic retention time distribution in surface water wetlands	Brisbane, Qld
6 April 2001	Emma Jakku, Clayton White Peter Hoppe, Margaret Gooch Neil Harris, Dana Thomsen Peter Oliver (All Griffith)	Public participation and community change - showcasing postgraduate research. The contribution of the social sciences to environmental decision-making	Griffith University Nathan, Qld (also with Coastal Zone CRC)
27 April 2001	Brett Anderson (Uni Melb)	On the influences of riparian vegetation on catchment-scale flood characteristics	The University of Melbourne, Parkville, Vic
20 June 2001	Mark Verbunt (FIT, Zurich, Switzerland)	The role of glaciers in the spatially distributed hydrological modelling of Alpine river catchments	CSIRO Land and Water, Canberra, ACT
29 June 2001	Dr Ian Rutherford (Uni Melb)	Are we fooling ourselves? Philosophy and approaches in evaluating stream management projects	Brisbane, Qld

PUBLIC PRESENTATIONS

PUBLIC RELATIONS AND COMMUNICATION

OTHER SEMINARS 2000 – 2001

Date	Speaker (s)	Topic	Organisation/Location
2-3 August 2000	Dr Ian Rutherford (Uni Melb)	Setting priorities for stream rehabilitation: some principles applied to willow management	River Basin Management Society, Ballarat, Vic.
6 September 2000	Juliette Woods (Uni Adelaide)	Simulating solute transport: Why models disagree	Water Resources and Catchment Seminar Series Centre for Groundwater Studies Adelaide
6 October 2000	Dr Tony Ladson (Uni Melb)	Implementing environmental flows on the Murray River, Australia	Department of Fisheries, University of Washington, Seattle, Washington, USA
9 October 2000	Assoc Prof Tony Wong (Monash)	Water Sensitive Urban Design	Urban Design Group and Specialist Review Panel of the Docklands Authority, Melbourne, Vic
13 October 2000	Assoc Prof Tony Wong (Monash)	Water Sensitive Urban Design	Mornington Shire, Mornington, Vic
22 February 2001	Prof Geoffrey Pegram (Uni Natal, S Africa)	From raindrops to stepped spillways: Observations, patterns and puzzles	Miegunyah Lecture, The University of Melbourne
26 April 2001	Dr Tony Ladson (Uni Melb)	Stream Restoration Program of the CRC for Catchment Hydrology	Freshwater Research Unit, University of Cape Town, Rondebosch, South Africa
3 May 2001	Dr Mike Stewardson (Uni Melb)	Incorporating variability into environmental flow regimes and uncertainty in rehabilitation planning	Australian Society for Limnology Retreat Hotel, Abbotsford, Vic
14 May 2001	Dr Mike Stewardson (Uni Melb)	Incorporating variability into environmental flow regimes and uncertainty in rehabilitation planning	Arthur Rylah Institute, Heidelberg, Vic

CRC WORKSHOPS/FIELD TOURS 2000 – 2001

Date	Name	Topic	Organisation/Location
13-14 July 2000	Erwin Weinmann (Monash) Prof Russell Mein (Monash) Assoc Prof Tony Wong (Monash) Dr Roger Hadgraft (Monash) Peter Hill (Sinclair Knight Merz)	Hydrology and hydraulics for floodplain managers: Workshop 2 – Design flood flow estimation	Monash University, Clayton, Vic
17 July 2000	Assoc Prof Tony Wong (Monash) Scott Seymour (Melb Water)	Water Sensitive Urban Design – Field tour	For North East Catchment Management Authority and Goulburn Broken Catchment Management Authority regions, Vic /Lyndhurst
18-19 July 2000	External speakers with Dr Ian Prosser (CSIRO) Dr Gary Caitcheon (CSIRO) Dr Ian Rutherford (Univ Melb)	Murrumbidgee 2000	CSIRO Land and Water and CRC for Catchment Hydrology Charles Sturt University, Wagga Wagga, NSW
30-31 August 2000	Assoc Prof Tony Wong (Monash)	Water Sensitive Urban Design	Hilton on the Park, Melbourne (With Australian Water Association)
4-6 October 2000	Assoc Prof Bob Keller (Monash) Erwin Weinmann (Monash) Assoc Prof Tony Wong (Monash) Michael Daly (Sinclair Knight Merz) Dr Andrew McGowan (Water Technology Pty Ltd) Phillip Meinhardt (Monash) Rick Wootton (Monash)	Hydrology and hydraulics for floodplain managers: Workshop 3 – Flood level estimation	Monash University, Clayton, Vic
23-25 October 2000	Dr Lu Zhang (CSIRO) Dr Rob Vertessy (CSIRO)	Regional hydrologic modeling workshop	Lilydale, Vic
23-27 October 2000	Assoc Prof Tony Wong (Monash) Dr Peter Breen (Melb Water & CRC for Freshwater Ecology) Scott Symour (Melb Water) Chris Chesterfield (Melb Water) Prof John Argue (Univ S. Aust)	Planning and design of urban stormwater management measures	Monash University, Clayton, Vic
9-10 November 2000	Erwin Weinmann (Monash) Prof Russell Mein (Monash) Rick Wootton (Monash) Mike Read (Read, Sturgess and Assoc) Alan Baker (BOM) David Sheehan (Egis Consulting)	Hydrology and hydraulics for floodplain managers: Workshop 4 – Design of flood mitigation measures	Monash University, Clayton, Vic
22 February 2001	Bruce Rhodes (Melb Water) Prof Geoff Pegram (Uni Natal S. Africa) Prof Tom McMahon (Uni Melb) Dr Sri Srikanthan (BoM)	Stochastic hydrology workshop for middle/senior managers	The University of Melbourne, Parkville, Vic
19 March 2001	Dr Rob Vertessy (CSIRO)	Environmental Management Support System (EMSS)	SE QLD Regional Water Quality Management Strategy, Brisbane, Qld
26 - 27 April 2001	Assoc Prof Tony Wong (Monash) Dr Tim Fletcher (Monash)	MUSIC (Model for Urban Stormwater Improvement Conceptualisation)	Melbourne Water, Melbourne, Vic
10-11 May 2001	Assoc Prof Tony Wong (Monash) Dr Tim Fletcher (Monash)	MUSIC (Model for Urban Stormwater Improvement Conceptualisation)	Brisbane City Council, Brisbane, Qld
15-16 May 2001	Joel Rahman Shane Seaton	Tarsier developers workshop	CSIRO Land and Water, Canberra, ACT
24 May 2001	External Participants CRC Board Members and CRC Program Leaders	Future Issues	The Brassey, Canberra, ACT

PUBLIC PRESENTATIONS

PUBLIC RELATIONS AND COMMUNICATION

OTHER WORKSHOPS 2000 – 2001

Date	Name	Topic	Organisation/Location
20 July 2000	Dr Rob Vertessy (CSIRO)	Water yield impacts of afforestation	Plantations and Hydrology Workshop, Melbourne, Vic
26 July 2000	Assoc Prof Tony Wong (Monash)	The Urban Stormwater Quality Program's DSS Project	Institution of Engineers and the Stormwater Industry Association, Brisbane, Qld
27 July 2000	Dr Rob Argent (Uni Melb)	Adaptive Environmental Assessment and Management Workshop for the Fitzroy River Focus Catchment	CRC for Freshwater Ecology, Rockhampton, Qld
11 October 2000	Dr Rob Argent (Uni Melb)	Adaptive Environmental Assessment and Management Meeting for the Fitzroy River Focus Catchment.	CRC for Freshwater Ecology, Brisbane, Qld
28-29 March 2001	Chris Carroll (NRM, Qld)	Stakeholder Workshop	CRC for Coastal Zone, Estuary and Waterway Management, Rockhampton, Qld
20 March 2001	Dr Peter Hairsine (CSIRO) Dr Lu Zhang (CSIRO) Dr Rob Vertessy (CSIRO) Andrew Bradford (CSIRO) Pat Feehan (G M Water) Mark Hocking (NRE) Prof Russell Mein (Monash) Dr Ian Rutherford (Uni Melb)	The Impacts of Land Use Change on Catchment Water Balances	North East Management CMA research forum, Albury, NSW
3 May 2001	Dr Peter Hairsine (CSIRO) Dr Glen Walker (CSIRO)	Evapotranspiration, runoff and recharge: Opportunities for collaboration with CRC for Catchment Hydrology	CRC for Plant-based Management of Dryland Salinity - Planning Workshop

CRC MEDIA REFERENCES 2000 – 2001

Medium	Publisher	Issue/Date (Page)	Title of Article/Item
Melbourne Water Corporation Annual Report	Melbourne Water	1999/2000 (27)	Working with developers to protect waterways - Lynbrook Estate
Media Release	Griffith University	12 July 2000	Study into farmers' views on water trading and allocation
The Age (National Edition) Newspaper	Fairfax	22 July 2000	Forestry takes toll on water: experts by Sara Phillips
Riprap	Land and Water Australia (LWRRDC)	Edition 17, 2000 (1, 3-6)	Monitoring and Evaluation Article modified from Rutherford et al. A Rehabilitation Manual for Australian Streams
Monash Magazine – News Views and Achievements	Monash University	Issue 6 Spring/Summer 2000 (4-5)	Water Sensitive Urban Design 'Water, water everywhere' by David Bruce
Land and Water News	Hallmark Editions	Volume 4, No 8 5 Sept 2000 (27)	Curbing road pollution
The Source	Melbourne Water	Issue 10 October 2000 (4)	The Local Link Watching brief on innovative design – Lynbrook Estate Case Study
Radio Interview 6PR	Australian Broadcasting Commission	19 October 2000	Richard Silberstein interview on role of agroforestry by Eon Cameron
What's New in Scientific and Laboratory Technology	Westwick-Farrow	Vol. 11, No. 4 October/ November 2000 (24)	Rainmaking scientists challenge forestry beliefs
Water	Australian Water Association	November/ December 2000 (14-32)	Special feature: new research findings into catchment hydrology
Media Release	Cooperative Research Centres Association, Inc.	December 2000 - January 2001	CRCs help resolve development versus environment issues – CRCCH collected a set of data on sediment sources and movement within forestry environments
Water	Australian Water Association	January 2001 (17-28)	Special feature: developments in catchment hydrology
Queensland Country Hour ABC Radio	Australian Broadcasting Commission	19 January 2001	Irrigators aren't vandals. Interview with Dr John Tisdell, Griffith University
The Source	Melbourne Water	Issue 12 February 2001 (4,5)	What happens if ash turn to ashes
The Source	Melbourne Water	Issue 12 February 2001 (15)	Waterway to get a \$2.6m clean sweep

CRC MEDIA REFERENCES 2000 – 2001 continued

Medium	Publisher	Issue/Date (Page)	Title of Article/Item
Radio Interview – ABC Regional Radio 'Trees Reduce Catchment Flows'	Australian Broadcasting Commission	26 March 2001	Interview with Russell Mein by Kate Raston, Rural Reporter
The Griffith Gazette	Griffith University	March 2001	The development of Water Reform in Australia
Land and Water News	Hallmark Editions	Volume 5, No.2 13 March 2001	Water Policy - Fair Water Distribution Ranked as Top Priority
The Canberra Times	Federal Capital Press of Australia Pty Ltd	3 April 2001	Fluid thinking on conservation - Young Scientist of the Year award article
Media Release	Cooperative Research Centres Association Inc.	3 April 2001	Rebecca Bartley named 'Young Water Scientist of the Year'
Radio Interview ABC Radio Gippsland (Sale)	Australian Broadcasting Commission	5 April 2001	Interview with Rebecca Bartley By Kelly Wilson New research on sediment slugs in Australian water ways has found some Gippsland rivers are the worst affected
The Hamilton Spectator	Richard Beks (Hamilton Spectator Partnership)	12 April 2001	Wannon 'degraded' by sediment slugs by Brian O' Brien
The Source	Melbourne Water	Issue 13 April 2001 (10)	'Wising up to water'
Nine Network 'Nightline'	Publishing and Broadcasting Ltd	13 May 2001	Interview with Rob Vertessy on issue of afforestation impacts on water yield
Monash Memo	Monash University	13 May 2001	Sand slug research wins award Young Water Scientist honoured
Water	Australian Water Association	Vol 28 No 4 June 2001	Young Water Scientist of the Year
The Source	Melbourne Water	Issue 14 April 2001 (2)	'Water sensitive-design a winner' Cooperative Research Centres' Association Award
The Source	Melbourne Water	Issue 14 April 2001 (15)	'How sediment slugs our waterways' Rebecca Bartley named 'Young Water Scientist of the Year'
Media Release	North Central Catchment Management Authority	14 June 2001	'Down the Drain' urban stormwater forum - Dr Tim Fletcher

GRANTS

ASSOC PROF RODGER GRAYSON

University of Melbourne, Collaborative Grant Scheme. Developing and testing a coupled analytical model for the seasonality and long-term water balance response of catchments. Principal investigators Rodger Grayson and Ross Woods (National Institute for Water and Atmosphere, New Zealand); \$7000. 10/2000 – 10/2001

University of Melbourne, Collaborative Grant Scheme – Visiting Fellow for Dr. Tomas Thierfelder, Uppsala University, Sweden, \$12,000. 2000 – 2001

Australian Research Council, SPIRT (Strategic Partnerships with Industry), Establishing and testing a methodology for determining the exceedence probability of water levels and fluxes in complex estuarine systems. Rodger Grayson, Tom McMahon; Dr Francis Chiew, Dr David Provis. Collaborators are: Gippsland Ports, East Gippsland Catchment Management Authority, West Gippsland Catchment Management Authority, Gippsland Coastal Board, Lawson and Treloar Pty. Ltd., \$513,000 total. 2001 – 2003

DR ANDREW WESTERN

University of Melbourne, Collaborative Grant Scheme. Mapping salinity and soil moisture using remote sensing. Principal Investigators Andrew Western and Hugh Turrall

Dairy Research and Development Corporation (DRDC), Project Grant. Modelling Nutrient Fluxes from Dairy Pasture to Surface and Ground Waters in Southwest Victoria. Principal investigators Dr John Sherwood (Deakin University, Mr Ivan Boyd (WestVic Dairy), Dr Nick Turoczy (Deakin University), Dr Robert Edis (Institute of Land and Food Resources, University of Melbourne), Dr Roger Grayson, Dr Andrew Western.

DR TONY LADSON

Awarded a Victoria Fellowship in August 2000 for the project "Adaptive Management of Environmental Flows: lessons from South Africa and North America"

ASSOC PROF BRIAN FINLAYSON

ARC – Constraining Plio-Pleistocene river incision history with cosmogenic burial dating of fluvial sediments.

MRDGS – Towards an adaptive approach to integrated catchment management in Australia

AINSE – Landscape evolution in Gippsland from cosmogenic burial dating of sediments (dating component).

MRDGS– Landscape evolution in Gippsland from cosmogenic burial dating of sediments.

MR CHRIS CARROLL

Three successful 3 year funding applications to ACARP, GRDC and Rural Water Use Efficiency R&D projects.

PROF TOM MCMAHON

ARC SPIRT Grant: Establishing and testing a methodology for determining the exceedence probability of water levels and fluxes in complex estuarine systems 2001 – 2002 (RB Grayson & TA McMahon)

ARC Large Grant: Reconstructing Australian environments of the Last Glacial Cycle: a quantitative modelling program 2001 – 2003 (I Simmonds, P Kershaw & TA McMahon)

ASSOC PROF JOHN FIEN

- UNESCO, Paris *Evaluation of Learning for a Sustainable Future: Multimedia professional development program* 2001 Grant of \$33 000
- WWF – US Action research in education for sustainable consumption 2000 – 2001 Grant of \$30 000

DR ROB VERTESSY

- Principal Investigator for Department of Industry and Resources (DISR) grant: \$36,000 over two years to conduct modelling workshops in the United States.
- Principal Investigator for SE QLD Regional Water Quality Management Strategy grant: \$125,000 over 15 months to develop a spatially-explicit water quality model for the North Pine catchment.
- Sub-contractor to WBM Oceanics on SE QLD Regional Water Quality Management Strategy grant: \$48,000 over 5 months to contribute to a broad-scale evaluation of sediment and nutrient source data for the SE QLD region.
- Appointed Readership within Australian Research Council; entails reviewing grant submissions in the field of hydrology.



Left Rebecca Bartley presented by the Hon. Dr Carmen Lawrence with the award for the best presentation in 'Showcasing Research' at the CRC Association's Conference, May 2001

Below Recent PhD Phillip Jordan awarded prize for 'Best Presentation' at Hydro 2000 Conference, Perth, November 2000



DR RODGER HADGRAFT

Monash University Strategic Innovations Fund, Development of Model Internationalised, Project-Based Civil Engineering subjects for Distance Education, Monash University, 2001, \$35,785.

DR LU ZHANG

Dr Lu Zhang was awarded a joint MDBC/CRC for Catchment Hydrology/CSIRO Land & Water Project: Integrated Assessment of the Effects of Landuse Changes on Water Yield and Salt Loads; 2001 – 2003; \$750,000.

MR SCOTT WILKINSON

Monash University Postgraduate Travel Grant \$1000

DR IAN PROSSER

MDBC Mapping basin-wide patterns of erosion and sediment transport. \$520,000 over three years.

ASSOC PROF TONY WONG

The Victorian EPA has awarded the following research grants to Tony Wong under the auspices of the Victorian Stormwater Action Program:

Assessing the Performance of Gross Pollutant Traps and providing selection guidance – \$200,000 (in association with Melbourne Water)

Monitoring and Evaluation Protocols and Selection Guidance for Non-structural Stormwater Management Measures – \$100,000

Stormwater Management – Technical Basis for Planning Schemes – \$70,000

AWARDS

REBECCA BARTLEY

- Young Water Scientist of the Year Award, April 2nd 2001.
- Showcasing CRC Postgraduates, CRCA Conference, Perth May 17th, 2001.

DR MARGARET GREENWAY

- Australian Minerals and Energy Environmental Foundation. 2000 Environmental Excellence Award – Project (Small/medium company)

This award is given for excellence in environmental management in relation to a specific project. The award was presented to Gympie Gold Ltd for its project "Managing the Controlled Discharge of Gold Mill tailings Water into the Mary River in an Environmentally Sensitive Way". This was a collaborative research effort involving Margaret Greenway and Heather Chapman, School of Environmental Engineering, the National Research Centre for Environmental Toxicology, the Queensland Department of Natural Resources and Mines and Gympie Eldorado Mines Pty Ltd.

DR PHILLIP JORDAN

- Phillip Jordan was awarded the prize for the best presentation at the symposium by a student or recent graduate. (Effect on flood forecasting, Hydro 2000, 3rd International Hydrology and Water Resources Symposium, Institution of Engineers Australia, Perth, November 2000)

DR ROB VERTESSY

- XXI IUFRO World Congress in Kuala Lumpur, Malaysia, 7 – 12 August 2000. Rob Vertessy was one of eleven scientists to be presented with the IUFRO Scientific Achievement Award during the opening ceremony.

AWARD FOR EXCELLENCE IN TECHNOLOGY TRANSFER

The CRC for Catchment Hydrology jointly with Melbourne Water, The Urban and Regional Land Corporation and Brisbane City Council won an Award for Excellence in Technology Transfer at the CRC Association Conference in Perth in May 2001. The awards were given to CRCs that demonstrated that their research was innovative, had arisen from the CRC Program, had been applied or commercialised with significant benefits to Australia and had strong end-user support.

DR JOHN LANGFORD

Board Chair (Dr John Langford) gave the Munro Oration at Water 2000 in Perth in November 2000. This oration is a memorial to Professor Crawford Munro, the 'father' of engineering hydrology in Australia, and the initiator of the successful symposium series. (Water 2000 is the 26th Hydrology and Water Resources Symposium). The Orator is chosen as a person 'eminent in the field of Hydrology and Water Resources'.

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GLOSSARY

AFFA	Agriculture, Fisheries and Forestry – Australia (Commonwealth Department)
AGSO	Australian Geological Survey Organisation
AR	Traditional auto-regressive time series model used in generating annual rainfall data
AWA	Australian Water Association
BRS	Bureau of Rural Sciences
C&A	Communication and Adoption
CMA	Catchment Management Authority
COAG	Council of Australian Governments
CRC	Cooperative Research Centre
CRC-Forge	Computer software methodology for extreme rainfall analysis
DLWC	Department of Land and Water Conservation, NSW
DNRE	Department of Natural Resources and Environment, Vic
DSS	Decision Support System
EMSS	Environmental Management Support System
ENSO	El Nino – Southern Oscillation
FCC	Focus Catchment Coordinator
GEWEX	Global Energy and Water Experiment (a component of the world Climate Research Program)
HSM	Hidden State Markov – computer model used in generating annual rainfall data
ICMS	Integrated Catchment Management System
LWA	Land and Water Australia (formerly Land and Water Resources Research and Development Corporation) (Commonwealth R&D Corporation)
MDBC	Murray-Darling Basin Commission
MUSIC	Model for Urban Stormwater Improvement Conceptualisation
NLWRA	National Land and Water Resources Audit (Commonwealth Government, funded by NHT)
NRMQ	Natural Resources and Mines, Qld
NWP	Numerical Weather Prediction
R&D	Research and development
RIRDC	Rural Industries Research and Development Corporation (Commonwealth R&D Corporation)
SEQRWQMS	South East Queensland Regional Water Quality Management Strategy
SME	Small to Medium Enterprises
S_PROG	Model for nowcasting (forecasting rainfall one to two hours in advance)
Tarsier	Modelling approach for catchment with computer model developed for integration and analysis of water and land issues
WSUD	Water Sensitive Urban Design