

NEWSLETTER

Vol 7 No.1

JUNE 1990.

STATE NEWS

and Membership List

(09) 328 8844

Vice President

Mr. R.t.J. Vogwill

Treasurer Mr. O.P. Commander Geological Survey of W.A. 66 Adelaide Terrace Perth. W.A. 6000.

(09) 222 3198

NSW Dr. M. Knight VIC Mr. R. Lakey QLD Mr. B. Pearce NT Mr. J. W. Hall ACT Dr. M.A. Habermehl SA Mr S.R. Barnett

Mr. R. J. Mr.Gow

W.A

State Lisison Members

OBITUARY

Dr Jeffery Joseph Jenkin

Jeff Jenkin died suddenly at his home in Blackburn, Victoria in August 1989 two years into formal retirement. Jeff graduated in geology from Melbourne University in 1953. His original interest in geology has been ascribed to his Cornish forebears who came to work in the mines of Castlemaine. Jeff spent his first year in the Groundwater Section of the South Australian Geological Survey. After a year in the oil industry in Queensland, he returned to Victoria to assist in the setting up of the Groundwater Division of the Victorian Geological Survey. During his nine years there he completed his MSc on the geology and hydrogeology of the Westernport area, and his PhD thesis on the geomorphology and Upper Cainozoic Geology of South East Gippsland. Jeff then worked for seven years in industry on mineral deposits, especially related to the weathered zone. In 1973 he joined the Soil Conservation Authority to lead a team investigating the nature and mitigation of soil salinity and worked in this field until his retirement. His interest and publications on the geomorphology of Victoria, together with his experience in hydrogeology, led on to important contributions towards an understanding of processes causing soil salinization and land degradation. Four important papers he published during this period are 'Hydrogeological characteristics of soil relevant to dryland salting' with P. Dyson in 1981, 'Hydrogeological provinces in Victoria as a basis for salinity investigation' in 1983, 'The mechanics and causes of soil erosion and dryland salting' with N.P. Timofeev in 1976 and 'Physical Resources' in 'Agriculture in Victoria' with J.N.Rowan in 1987. His wife died in April 1989, and he is survived by two daughters and a son.

(from 'The Australian Geologist' No.73, December 1989)

NATIONAL COMMITTEE NEWS

Treasurer's Report

IAH Australia ends the year with a healthy surplus. This is mainly because of the favourable exchange rate with the Deutschemark for much of the year. Although the rate currently stands at DM 1.23, the bulk of the subscriptions were remitted in September 1989 at a rate of DM 1.49.

This surplus will enable copies of the proceedings of the forthcoming Perth conference to be obtained and distributed to all members.

Accounts for Subscription Year 1989

	Expenditure	Income
Opening balance at bank 1.5.89:		7641.00
Interest Subscriptions received Payments for ties Advertising		1043.11 7648.00 481.00 40.00
Subs. to International Treasurer Newsletter printing Postage Labels Swan Coastal Plain Proc. State Tax Stationery Ties	6102.48 263.00 439.62 33.55 502.75 2.09 105.65 1752.85	
Closing balance at bank 2.5.90	·	7651.12
Financial State	ement	
Balance at bank 2.5.90 Subscriptions received for 1990 ye	ear	7651.12 1100.00
Surplus at end of 1989 year		6551.12

D P Commander

New Members

The following new members are welcomed:

Mr R.G. Aldam (SA Dept. of Mines & Energy) 24 Martin Ave Maslins Beach SA 5170

Mr P. Dalhaus

(Mt Newman Mining) Mt Newman Mining Newman WA 6753

Mr P.J. Best

Mr J. Harman (Mackie Martin & Ass) 34 Alton Tce The Gap Qld 4061

Mr A. Kuchakpour

6A Bosworth Place
Leeming WA 6155

Dr A.J. McNulty (Mackie Martin & Ass) PO Box 654 Neclands WA 6009

Mr D.P. Maltby (Dames & Moore) 69A St Helens Rd Hawthorne East Vic 3123

Mr S.S Phillips

4 Poplar Place Kirrawee NSW 2232 Mr J. McAvan (Water Authority of WA) 24 Colgrave Way Duncraig WA 6023

Mr C.D. Mackie (Mackie Martin & Ass) 4 Ross Place Wahroonga NSW 2076

Mr A. Olshina (Geological Survey of Vic) 1 Dermot St South Oakleigh Vic 3167

> Mr P. Roberts (Western Mining Corp.) 21 Grevillea Cres. Kambalda West WA 6444

Membership now totals 196 (this includes only members paying their subscriptions to the Australian National Committee). The state distribution is WA (72), Victoria (38), NSW (37), Queensland (20), SA (13), NT (8), ACT (3), Tasmania (1) and overseas (4).

Bubscriptions

The membership subscription for 1990 remains at \$55. Subscriptions to be paid in the 1989-90 financial year should reach the current treasurer by 2nd July.

Members in arrears

Members are reminded that memberships in arrears for more than two years will lapse. All members who have not paid since 1987 are being written to and informed that their membership will lapse at the end of this year if subscriptions are not received.

Publications

The National Committee still holds 45 copies of 'International Contributions to Hydrogeology' vols 2,5,7. These will be distributed to members on application to the Secretary.

General Meeting

A General Meeting of the Australian chapter will be held at 5.15 pm on Monday 9th July during the Perth Conference. Nominations are invited for officers of the National Committee. Proposed and seconded nominations should reach the secretary by 20th June.

In accordance with the practice of rotating the National Committee around the states, the NSW State committee was approached to nominate a new National Committee. The following nominations, approved by ballot of the NSW membership have been submitted for endorsement by the membership at the General Meeting.

President M. Knight
Vice President D. Woolley
Secretary R. Carr
Treasurer J. Ross
State Lias. Mbr. G.Gates

Nominations for State Liaison Members have been sought from the State committees of WA, Victoria and Queensland.

The following nominations have been received from states and territories without local committees:

South Australia S.R. Barnett
Australian Capital Territory M.A. Habermehl

STATE NEWS

Queensland

A new State Committee was elected on 20th March 1990 with the following officers

Chairman John Hillier Secretary/Treas Robert Ellis

Members Magdalena Reisser-Steffens

Bruce Pearce

The meeting was attended by 10 members and 12 non-members, and was addressed by John Hillier on the new Groundwater Protection Guidelines. It was decided that the Branch should write to the Minister of the Department of Environment and Heritage emphasising the need for upgrading of groundwater protection guidelines.

Regional Hydrologists also spoke briefly on activities in their respective areas.

Future meetings are to be held at two monthly intervals on the third Tuesday of the month.

Western Australia

Meetings have been held regularly each month:

July: The role of geological structures and palaeochannels in the development of salinity in the Wheatbelt - Ramsis Salama

August: Pilot scale hydrocarbon recovery and groundwater monitoring program - Toby Walters and Wallace Hise

September: Groundwater resources of palaeochannel aquifers in the Kalgoorlie area - Philip Commander

October: Observations from a visit to groundwater management agencies in the United States - Harry Ventriss

November: Mine dewatering - Phil Wharton

February: Groundwater sampling - Mirko Riha

April: What hydrogeologists should expect from a competent chemistry laboratory - Doug Ingraham



MOOLLEY

MR D

1990 MEMBERSHIP LIST

AUSTRALIAN CAPITAL TERRITORY

			•				
HABERMEHL	OR I	ΑМ	BUREAU OF MINERAL RESOURCES	GPO BOX 378	CANBERRA	ACT	2601
JACOBSON	MR f	6	SUREAU OF MINERAL RESOURCES	GPO BOX 378	CANBERRA	ACT	2601
LAU	MRS	JΈ	GC & JE LAU & ASSOCIATES	51 INVESTIGATOR ST	RED HILL	ACT	2603
				NEW COLENIA MALES			
				NEW SOUTH WALES			
ACWORTH	OR F	R]	CTR FOR GROUNDWATER MANAGEMENT	KING ST	MANLY VALE	NSV	2093
BELL	HR F	н	AUST. HYDROGEDLOGISTS INT.	REYNELLA	VIA DALGETY		2630
CAROSONE	DR I	F	AUSTRALIAN GROUNDWATER CONS.	11/19 GOODCHAP RD	CHATSWOOD		2067
CARR	DR F	RS	LAWSON & TRELOAR PTY LTD	PO BOX 799	NORTH SYDNEY		2060
COLLIN	MR (D	DEPT. OF WATER RESOURCES (NSW)	1 WATTLE CRESCENT	HOREE		2400
CORPUZ	MRS	HA	CTR FOR GROUNDWATER MANAGEMENT	UNIV. OF NSW PO BOX 1	KENSINGTON		2033
DALE	HR I		GROUNDWATER TECHNOLOGY INC.	35 BELMORE ST	ROZELLE		2039
ELLIOTT	MR.	3H	CUMEC PTY LTD	66 GIPPS ST	BIRCHGROVE		2041
GATES	MR (3	DEPT. OF WATER RESOURCES (NSW)	14 MELALEUCA AVE	LEETON		2705
GIBSON	DR (ж	AUST NUCLEAR SCI & TECHNOL ORG	PRIVATE BAG 1	HENAI	-	2234
HAM1LTON	MS S	5.7	DEPT. OF WATER RESOURCES (NSW)	58 BEETHOVEN ST	SEVEN HILLS		2147
HARWOOD	MR F	RC	GROUNDWATER TECHNOLOGY INC	6 BIANI CLOSE	BANGOR		2234
HATLEY	HR S	RK	AUSTRALIAN GROUNDWATER CONS.	74/5-13 HUTCHINSON ST	SURREY HILLS		2010
JEFFRIES	MR F	eo.	DAMES AND MOORE	84 ALEXANDER ST	CROWS NEST		2065
JEWELL	HR (CM	COFFEY & PTHRS. PTY, LTD.	2/2 LIBYA PLACE	MARSFIELD		2122
JOHNSON	DR P	4	NSW DEPT. MIN. RES.	12/6 TARANTO RD	MARSFIELD		2122
K100	MR C	:	AUSTRALIAN GROUNDWATER CONS.	SUITE 16,273 ALFRED ST	MORTH SYDNEY		2060
KNIGHT	OR H	IJ	CTR FOR GROUNDWATER MANAGEMENT	UNIV. OF NSW PO BOX 1	KENSINGTON		2033
LAWSON	MR S	IJ	DEPT. OF WATER RESOURCES (NSW)	235 COORTENGAN HEIGHTS RD	ENGADINE		2233
LE	HR V	/1		34 WORLAND ST	YAGOONA	NSV	2199
MACKIE	MR C	CD	MACKIE MARTIN & ASSOCIATES	4 ROSS PLACE	VAHROONGA	NSW	2076
MERR1CK	MR N	•	DEPT. OF APPLIED GEOLOGY	UNIVERSITY OF NSW	KENSINGTON	NSW	2033
MORTON	DR V	•	AUSTRALIAN GROUNDWATER CONS.	2/9 ILUKA AVE	MANLY	NSW	2096
MCLAUGHLAN	HAR B	t	CTR FOR GROUNDWATER MANAGEMENT	UNIV. OF MSW PO BOX 1	KENSINGTON	HSV	2033
PHILLIPS	HIR S	-		4 POPLAR PLACE	KIRRAWEE	NSV	2232
PLEASE	MS P		CTR FOR GROUNDWATER MANAGEMENT	UNIV. OF NSW PO BOX 1	KENSINGTON	NSV	2033
PUNTHAKEY	HR J		DEPT. OF WATER RESOURCES (MSW)	PO BOX 3880	PARRAMATTA	NSW	2124
RITCHIE	DR #		AUSTRALIAN ATOMIC ENERGY COMM.	22 BORONIA POE	LUGARKO	NSV	2210
ROSS	HR J		DEPT. OF WATER RESOURCES (NSW)	17A ROPER CRES	SYLVANIA WATERS	NZM	2224
SALAS	MOR G		DEPT. OF WATER RESOURCES (NSW)	22 SAPPA BULGA RD	DUBBO	MSW	2830
SAUNDERS	MS B	-	GROUNDWATER TECHNOLOGY INC	16/9 BORTFIELD DRIVE	CHISWICK	NSW	2046
SULLIVAN	HAR		GOLDER ASSOCIATES PTY LTD	161A COPELAND RD	EAST BEECROFT	NSW	2119
TUCKSON	DR H		SELF EMPLOYED	108 LUCINDA AVENUE	WAHRDONGA	NSM	2076
VILLIAMS	HR R		DEPT. OF WATER RESOURCES (NSW)	PO BOX 3720	PARRAMATTA		2150
WILLIAMSON	HR V		BERT - BE	6 HUGHES AVE	ERMINGTON .		2115
WOOLDRIDGE	HR D		DEPT. OF WATER RESOURCES (NSW)	75 TYMESIDE AVENUE	WILLOUGHBY	NSV	2068

NORTHERN TERRITORY

3 BARWON AVE

TURRAHURRA

NSW 2074

HALL	MR JW	AUSTRALIAN GROUNDWATER CONS.	7 EMPIRE COURT	ANULA	NT 5793
KARP	MS D		PO BOX 4729	DARVIN	NT 5794
McDGHALO	MOR P	POWER AND WATER AUTHORITY	PO BOX 1521	ALICE SPRINGS	NT 0871
PIOSLEY	HR D		GPO BOX 3865	DARVIN	NT 5794
QURESHE	MR H		25 WULAGI CRES	SANDERSON	NT 5793
VERMA	MR M		14 WANDIE CRES	SANDERSON	NT 5793
WISCHUSEN	MR JD	POWER AND WATER AUTHORITY	PD 80X 8240	ALICE SPRINGS	NT 0871
YIN FQO	MR D		PO BOX 3231	DARWIN	NT 5794

QUEENSLAND

BEDFORD	MR KA	1	4 WOORANA RO	THE GAP	QLD 4061
BINCH	MR I	COFFEY & PINES PTY LTD	PO BDX 40[1	EIGHT HILE PLAIN	ISQLO 4113
ERIESE	MR E	COFFEY & PTHRS PTY LTD	PO BOX 118	EAST BRISBANE	QLD 4169
ELLIS	MR RI	QLD WATER RESOURCES COMMISSION	PO BOX 315	KOOROOKA	QLD 4105
FORTH	HR JR	GROUNDWATER RESOURCE CONSULTANTS	S 93 GRACEVILLE AVE	GRACEVILLE	OLD 4075
FREE	MR OL	OLD WATER RESOURCES COMMISSION	11 KATOOHBA CRESCENT	TOOWOOKBA	QLD 4350
GROUNDS	MR JA	AUSTRALIAN GROUNDWATER CONS.	6/6 QUALTROUGH ST	BURANDA	QLD 4102
KAIR	MR ID	AUSTRALIAN GROUNDWATER CONS.	6/6 QUALTROUGH ST	BURANDA	QL0 4102
HARMAN	MR J	MACKIE MARTIN & ASSOCIATES	34 ALTON TCE	THE GAP	QLD 4061
HILLIER	MR JR	QLD WATER RESOURCES COMMISSION	38 LYTKAM ST	INDOOROOP1LLY	QLD 4058
JOHNSON	MR CL	GEOLSEARCH AUSTRALIA	BEAUARABA	VIA SOUTHBROOK	QLD 4352
LAIT	MR RW	QLD WATER RESOURCES COMMISSION	6 PETERS ST	MAREEBA	QLD 4880
LEACH	MR L	QLD WATER RESOURCES COMMISSION	7 TWELFTH A AVE	HOME HILL	QLD 4806
LLOYO	HR J	QLD WATER RESOURCES COMMISSION	36 EDWARD ST	NTH. ROCKHAMPTON	QLD 4701
LLOYD	MR T	AUSTRALIAN GROUNDWATER CONS.	6 QUALTROUGH ST	BURANDA	010 4102
PEARCE	MR B	QLD WATER RESOURCES COMMISSION	168 FLOCKTON ST	EVERTON PARK	QLD 4053
R-STEFFENS	MS H	GEOPHYS, GROUNDWATER PROSP. Co.	TAHITI ROAD	TIARO	QLD 4650
SMITH	MR PE		12 KINNAIRD ST	ASHGROVE	QLD 4060
SMOLSKI	HOR B	HOLLINGSWORTH CONSULTANTS	33 PICASSO ST	CARINA	QLD 4152
WEEKS	MR WD	QLD TRANSPORT DEPT.	7 CARAVATHA ST	EVERTON PARK	QLD 4053
		\$	SOUTH AUSTRALIA		
ALDAM	MR RG	SA DEPT. OF MINES & ENERGY	24 MARTIN AVE	MASLINS BEACH	** ***
ARMSTRONG	MR D	SA DEPT. OF MINES & ENERGY	77 HAWTHORNEDENE DR	GENALTA	SA 5170
BARNETT	MR SR	SA DEPT. OF MINES & ENERGY	PO BOX 151		SA 5052
BLEYS	KR C	CHRIS BLEYS & ASSOCIATES	24 KYRE AVE	EASTW000	SA 5063
BOWYER	HR DG	SANTOS LTD	1/104 EAST AVE	KINGSVOOD CLARENCE PARK	SA 5062
COBB	HR M	WATER SEARCH	PO BOX 191	ANGASTON	SA 5034 SA 5353
DILLON	DR P	CSTRO	PRIVATE BAG 2	GLEN OSMOND	SA 5064
HARRIS	MR B	ENG. AND WATER SUPPLY DEPT.	38 ROYAL AVE	BURNSIDE	SA 5066
LOVE	HR AJ	SA DEPT. OF MINES & ENERGY	6/78 WATTLE ST	FULLERTON	SA 5063
READ	MR R	SA DEPT. OF MINES & ENERGY	PO BOX 151	EASTWOOD	SA 5063
ROWAN	MR IS	AUSTRALIAN GROUNDWATER CONS.	RIVERVIEWDELI LIVERPOOL S		SA 5214
SMITH	MR PC	SA DEPT. OF MINES & ENERGY	PO 80X 151	EASTWOOD	SA 5053
STADTER	MR MH	SA DEPT. OF MINES & ENERGY	PO BOX 93	MARACOORTE	SA 5271
			TAPMANIA		
			TASMANIA		
ROBERTS	MR 6		427 STRICKLAND AVE	SOUTH HOBART	TAS 7000
			VICTORIA		
			TATOMIA		
BARTLEY	MR JG	DEPT. OF WATER RESOURCES	17 DALLY ST	CLIFTON HILL	VIC 3068
BLAKE	MR R	R BLAKE AND ASSOCIATES	671 STATION ST		VIC 3054
BRINKLEY	HR AJ	RURAL WATER COMMISSION	590 ORRONG RD	_	VIC 3143
BRUNLEY	HR J		49 UNVIN ST	TEMPLESTOWE	VIC 3106
CARNEY	HR P		132 ARVON RD	STRATHMORE	VIC 3041
KOSYO	MQ P		PO BOX 401	BENDIGO !	VIC 3550
EVANS	DR R		16 MYRTLE AVE	KEW	VIC 3101
GLOE	MR C		23 KIRKWOOD ST	BEAUMARIS 1	/IC 3193
HANCOCK HOLLAND	MR S		90 CLAREHONT AVE		/IC 3144
HOXLEY	MR GF MR GP		44 NABILLA CRES		/IC 3550
IFE	MR D		23 LAUGHLIN AVE		/IC 3131
INGRAM	MR T		590 ORRONG RD		/IC 3143
JASKER	MR R		11 GREEN ST		/IC 3135
JOYCE	MR EB	****	SUITE 6, 456 HIGH ST UNIV.MELBOURNE.PO BOX 952		/IC 3181
LAKEY	MR RC		20 QUEENS PDE		/IC 3052 /IC 3068
				erit ton Hill	16 3000

LANE	MR AP	AUST HYDROGEOLOGISTS INT.	2 RUSHMEAD ST	MALVERN	VIC 3144
LAWRENCE	DR CR	DEPT. OF WATER RESOURCES	35 SPRING ST	MELBOURNE	V1C 3000
MACUMBER	DR P	DEPT. OF WATER RESOURCES	20 RANGEVIEW RD	M]TCHAH	VIC 3132
MALTBY	MR DP	DAMES AND HOORE	69A ST HELENS RD	HAWTHORNE EAST	VIC 3123
MURPHY	MR L	SHELL AUSTRALIA	23 VALENTINE ST	[VANHOE	VIC 3079
NOLAH	MR JG	DEPT. OF WATER RESOURCES	9 BEOFORD RO	EAST KEW	VIC 3102
NOTT	MR RB	DEPT. OF WATER RESOURCES	150 GREVILLE ST	PRAHAN	VIC 3181
OAKES	MR A	RURAL WATER COMMISSION	23 HIGHGATE GROVE	ASHBURTON	VIC 3147
OLSHINA	MR A	GEOLOGICAL SURVEY OF VICTORIA	1 DERMOT ST	SOUTH OAKLEIGH	VIC 3167
PETTIFER	MR G	DEPT. OF IND. TECH. & RES.	PO BOX 173	EAST MELBOURNE	VIC 3002
POTTS	MR [V	RURAL WATER COMMISSION	7 JACOBSON ST	HOOROOPNA	V1C 3629
PRATT	MR M	DEPT. OF WATER RESOURCES	20 VICKI ST	BLACKBURN SOUTH	VIC 3130
REID	HR M	DEPT. OF WATER RESOURCES	PO 80X 1404	SHEPPARTON	VIC 3630
ROBINSON	KR KJ	DEPT. GEOL. & GEOL. ENG RHIT	PO BOX 150	CARLTON SOUTH	VIC 3053
SHUGG	KR A	DEPT. OF WATER RESOURCES	15 PARK RO	MIDDLE PARK	VIC 3208
STEWART	MR G	DEPT. OF WATER RESOURCES	22 MADOEN ST	BALWYN NORTH	VIC 3104
STILLVATER	DR R	DEPT. OF CIVIL AND AGRIC. ENG.	UNIVERSITY OF MELBOURNE	PARKVILLE	VIC 3052
THORNE	MR R	RURAL WATER COMMISSION	34 SIMS ST	SANDR INGHAM	VIC 3191
TICKELL	MR S	VICTORIAN GEOLOGICAL SURVEY	107 PATTERSON RO	MOCRASSIN	VIC 3189
VALKER	MR G	RURAL WATER COMMISSION	PO BOX 56 ROSSITER RD	KOO WEE RUP	VIC 3981
WILLIAMSON	DR RJ	SHEDDON PACIFIC PTY LTD	15 PENDER ST	THORNBURY	VIC 3071
YOUNG	MR N	ENVIRONMENTAL PROTECTION AUTH.	7/9 CROMWELL RO	SOUTH YARRA	VIC 3141

WESTERN AUSTRALIA

ALLEN	DR AD	GEOLOGICAL SURVEY OF WA	100 PLAIN ST	PERTH	VA 6004
APPLEYARD	DR SJ	GEOLOGICAL SURVEY OF WA	18 CARLTON ST	LEEDERVILLE	WA 5007
BADDOCK	MR L	GEOLOGICAL SURVEY OF WA	100 PLAIN ST	PERTH	VA 6004
BARBER	DR C	CSIRO	17 ALLPIKE RD	DARLINGTON	VA 6070
BARNETT	HR JC	GROUNDWATER RESOURCE CONSULTANTS	4 BIRD RD	KALAHUNDA	VA 5076
BAWDEN	HR J	GROUNDWATER RESOURCE CONSULTANTS	64 STATON RD	E FREMANTLE	VA 6158
BEST	MR PJ	MT NEWMAN MINING	MT NEWMAN MINING	NEWMAN	WA 6753
BOLTON	MR G	ROCKWATER PTY LTD	18 THORBURN AVE	BEECHBORO	WA 6063
BOYD	MR OV	WATER AUTHORITY OF WA	57 RIPLEY WAY	DUNCRAIG	VA 6023
BOYES	MR B	AUSTRALIAN GROUNDWATER CONS.	8/300 ALBANY HIGHWAY	VICTORIA PARK	WA 6100
BRUNNER	MR 1	GROUNDWATER RESOURCE CONSULTANTS	11 EMPEN CRT	LEEMING	WA 6155
BULMAN	MS T	CAMPBELL ENVIRONMENTAL LTD	22 CORBETT WAY	BOORAGOON	WA 6154
CHANDLER	MR M	GROUNDWATER RESOURCE CONSULTANTS	273 STIRLING ST	PERTH	WA 5000
CLARK	MR G	HEWMONT AUSTRALIA	38 TALBOT OVE	KINGSLEY	WA 6026
CLOTHIER	MR JV	GROUNDWATER RESOURCE CONSULTANTS	46 MANDORA WAY	RIVERTOR	WA 6155
COCK	MR PL		79 MARY ST	COMO	WA 6152
COLKAN	MR R	AUSTRALIAN GROUNDWATER CONS.	209 CRAWFORD RD	INGLEWOOD	WA 6052
COMMANDER	MR OP	GEOLOGICAL SURVEY OF WA	100 PLAIN ST	PERTH	WA 6004
COX	KR J	WATER AUTHORITY OF WA	629 NEWCASTLE ST	LEEDERVILLE	WA 6007
DAVIDSON	NR WA	GEOLOGICAL SURVEY OF WA	100 PLAIN ST	PERTH	WA 6004
DAVIS	DR GB	CSTRO	PRIVATE BAG	GPO WEMBLEY	WA 6014
DEENEY	MR AC	GROUNDWATER RESOURCE CONSULTANTS	13 SCHACKT COURT	MYAREE	VA 6154
DEROSARIO	MR PC	RESOURCE INVESTIGATIONS	73 FRASER RD	CANNING VALE	WA 6155
	MR PL	K H MORGAN & ASSOCIATES	30 WAVERLEY ST	SOUTH PERTH	WA 6151
DOMAHIDY	NR GC	ROCKWATER PTY LTO	64 TATE ST	W LEEDERVILLE	WA 6007
DUNDON	NR P	AUSTRALIAN GROUNDWATER CONS.	8/300 ALBANY HIGHWAY	VICTORIA PARK	WA 6100
GEORGE	MR R	WA DEPT. OF AGRICULTURE	PO BOX 1231	BUNBURY	WA 6230
HAILU	MR G		C/O 4 BIRD RD	KALAHUNDA	WA 6076
HARRIS	PROF F	Da	MOUNTS BAY RD	CRAWLEY	WA 6009
HASELGROVE	HR K	ALCOA OF AUSTRALIA PTY LTD	17 CLEMENTS RD	BOORAGOON	WA 6154
HEARNE	HR CUI		ORYLAND RESEARCH INST.	MERREDIN	WA 6415
HIRSCHBERG	DR KJ	GEOLOGICAL SURVEY OF WA	100 PLAIN ST	PERTH	WA 6004
HURLE	MR DH	AUSTRALIAN GROUNDWATER CONS.	300 ALBANY HWAY	VICTORIA PARK	WA 6100
KERN	HR AH	GEOLOGICAL SURVEY OF WA	74 FINHERTY ST	KARRINYUP	WA 6018
KUCHAKPOUR LAWS	MR A	CEDI DOTCE CUDUEY OF US	GA BOSWORTH PLACE	LEENING	WA 6155
FWA2	MR AT	GEOLOGICAL SURVEY OF WA	8 ILLAWONG WAY	KINGSLEY	VA 6026

LEE	MR IR	SINCLAIR KNIGHT & PINRS	52 BRUCE ST	KEDLANDS	VA 5009
LEECH	KR SJ	MACKIE MARTIN AND ASSOCIATES	3/420 BARKER RD	SUBTACO	VA 5008
LEW1S	MS M	WA DEPT, OF AGRICULTURE	YORK RO	NORTHAM	VA 6401
MARTIN	MR MV	GEOLOGICAL SURVEY OF WA	48 SASSE AVE	MOUNT HAWTHORN	WA 6016
MARTIN	DR RE	MACKIE MARTIN AND ASSOCIATES	PO BOX 654	HEDLANOS	WA 6009
MEYER	MR GM	WESTERN HINING CORPORATION LTD	PO 80X 91	BELMONT	VA 6104
MONCRIEFF	MR JS	GEOLOGICAL SURVEY OF WA	36 SAMSON ST	WHITE GUM VALLEY	VA 6162
HOORE	HAR RR	SELF-EMPLOYED	43 WESTVIEW ST	KARRIHYUP	WA 6018
MORGAN	HR KH	K H MORGAN & ASSOCIATES	34 GEDDES ST	VICTORIA PARK	WA 6100
MCAVAN	HR J	WATER AUTHORITY OF WA	24 COLGRAVE WAY	BUNCRAIG	WA 6023
McGOVAN	MR RJ	GROUNDWATER RESOURCE CONSULTANTS	190 SOUTH TCE	COMO	WA 6152
Mc INTOSH	HR K	ALCOA OF AUSTRALIA LTO	PO BOX 252	APPLECROSS	WA 6153
MCNULTY	DR AJ	MACKIE MARTIN & ASSOCIATES	PO BOX 654	KEDLANDS	WA 6009
H J DAGAL	HR V	GEOLOGICAL SURVEY OF WA	33 TODO AVENUE	COHO	WA 6152
O' BOY	HR CA	AUSTRALIAN GROUNDWATER CONS.	300 ALBANY HIGHWAY	VICTORIA PARK	WA 6100
PAGE	MR SJ	K H MORGAN & ASSOCIATES	4/8 YORK ST	SOUTH PERTH	VA 6151
PASSMORE	DA JR	ROCKWATER PTY LTD	94 ROKEBY RD	SUBTACO	8008 AW
PAUL	HR RJ	GROUNDWATER RESOURCE CONSULTANTS	4 RALEIGH RD	BAYSWATER	WA 6053
PECK	DR A	ROCKVATER	94 ROKEBY RD	SUBTACO	WA 6008
RIHA	MR N	SOLARVAN PTY LTD	25 PURDON RD	VEHBLEY DOVKS	VA 6019
RIVERA	MR MC	SELF-EKPLOYED	23/22 KING GEORGE ST	VICTORIA PARK	WA 6100
ROBERTS	MR P	WESTERN MINING CORPORATION	21 GREVILLEA CRES	KAMBALDA WEST	VA 6444
SALAKA	DR R	CSIRO -	PRIVATE BAG	GPO WEMBLEY	WA 6014
SMITH	MR RA	GEOLOGICAL SURVEY OF WA	193 KITCHENER RO	800RAGDON	WA 6154
THORPE	DR PM	GEOLOGICAL SURVEY OF WA	17 HUMMERSTON RD	KALAMUNDA	WA 6076
THROSSEL	MR JS	AUSTRALIAN GROUNDWATER CONS.	37 PHILLIP RD	DALKEITH	WA 5009
TOWNLEY	DR LR	CSIRO	PRIVATE BAG	GPO WENBLEY	WA 6014
VENTRISS	MR KB	WATER AUTHORITY OF WA	21 COLGRAVE WAY	DUNCRA16	WA 5023
VOGWELL	MR RI	HYDROEARTH CONSULTANTS	273 STIRLING ST	PERTH	WA 5000
VAINVRIGHT	MR N	M VAINVRIGHT & ASSOCIATES	PO BOX 125	SUBTACO	8008 AW
WATERHOUSE	HR J	AUSTRALIAN GROUNDWATER CONS.	8/300 ALBANY HIGHWAY	VICTORIA PARK	VA 6100
WHARTON	MR PH	ROCKWATER PTY LTD	94 ROKEBY RD	SUBTACO	WA 5008
WHI NCUP	HR P	GROUNDWATER RESOURCE CONSULTANTS	PO 80X 1120	KALAMUNDA	WA 6076
WILL TAMSON	MR DR	CSIRO	PRIVATE BAG	GPO WEMBLEY	WA BOL4
WILSON	MR YC	DEPT. PHYSICS & GEOSC., C.U.T.	45 PORTCULLIS OR	WILLETON	WA 6155
YOUNGMAN	MR MR	K H MORGAN & ASSOCIATES	27 GALWAY ST	LEEDERVILLE	WA 6007

OVERSEAS

FURKESS	MR LJ	MINISTRY OF LANDS AND HAT RES	PO 80X 5	HUKU" ALDFA	TONGA
HELM	DR DC	NEVADA BUR OF MINES AND GEOLOGY	DEPT GEOSCIENCE UNIV. NEV.	LAS VEGAS	USA
LAING	HR C	GEOLOGICAL SURVEY OF PMG	PO 80X 778	PORT MORESBY	PNG
MILKE	MR FJ	JOHN MILNE & ASSOCIATES	PO 80X 70	KHON KAEN	THA!LAND

CONFERENCES

Dryland Salinity in South Australia, Technical Forum.

The State's technical strategy on dryland salinity was outlined to an audience of about 150 persons on 14th February 1990. The Director General of Agriculture introduced the proceedings with the sobering thought that salinisation affects an estimated 220 000 ha in SA at a cost of about \$27 million in lost agricultural production. The goal is to:

Develop and implement programs to minimise the physical and economic impact of dryland salinity on the State's soil, water and vegetation resources.

Five components to the strategy have been identified and include:

Monitoring
Hydrogeological Investigations
Off-site Treatment Options
On-site Treatment Options
Education and Extension

The Monitoring component identifies the need to complete a land inventory of the state to determine areas affected by or at risk of salinisation. It also indicates the need to establish a network of observation wells, to provide predictions of salinisation trends and establish a system of stream gauging and salinity observation stations and relate the data to changes in land use.

The second component identifies the need to develop a broad hydrogeological understanding of all major areas of the State affected by dryland salinity. More intensive investigations (including modelling) are then required to detail causal mechanisms and provide direction for the formulation of appropriate management options.

The Off-site and On-site Treatment Option components recognise the need to increase plant water use and minimise groundwater recharge. On-site treatments are also required to enable landholders to improve production from areas already affected by salt.

The final component recognises the need for ongoing education and extension programs to improve landholder understanding of the processes leading to dryland salinisation and methods to control the spread or rehabilitate affected areas.

The strategy also recognises the need for community action, for without community involvement government agencies cannot address the problem of dryland salinity.

Groundwater in Large Sedimentary Basins, Perth 9-13 July

The Scientific program has now been finalised with 50 papers to be presented, and by mid-May registrations had reached 123. Day registration will also be available for a fee of \$100.

The next in the AWRC sponsored conference series is proposed to be held in Adelaide in 1993 or 1994. The proposed theme is 'Seeking solutions for Groundwater Management'.

REPORTS

Stable Isotopes in the River Murray - Indicators of Irrigation Return Water

A major cause of the large downstream increase in salinity of the Murray River is related to irrigation practices. A large fraction of the drainage system in areas within 20 km of the River Murray and adjacent to major tributaries now has a runoff and groundwater recharge cycle fundamentally different from the natural system prevailing prior to irrigated agriculture. The soil and water conditions established by this new balance of water and salt will govern the future of irrigated agriculture during the next century which will have important ramifications for the water quality of the River Murray.

The aim of this project is to quantify the amount and location of input of saline irrigation return water to the River |Murray and assess its relative importance to the increasing salinity of the river, and to apply the results of this study to help reduce return of saline irrigation water to surface waters of the Murray - Darling Basin.

When water evaporates, it preferentially leaves behind the heavier isotopes of the water molecule (deuterium and oxygen-18). Because irrigation drainage waters are always evaporated to some degree, this process leaves an isotopic signature or tracer that is much more sensitive than chloride concentration. The stable isotope composition of water from irrigation areas is typically enriched in stable isotopes of water in the order of 20 parts per thousand in deuterium relative to input water. This represents about a 30-40 percent loss of water by evaporation alone.

In co-operation with EWS, RWC, DWR_NSW and MDFRC, we now have about 14 months of samples from 27 stations along the River Murray and major tributaries. Samples from December 1988 to June 1989 have already been analysed as a reconnaissance exercise to test the feasibility of our approach. The results from the months of March and June 1989 show a large difference between the late summer

flows and onset of high runoff flows. When combined with chloride data from the same sampling periods, important information regarding the location and amount of significant groundwater and irrigation return flows can be gained.

It is critical to note that although groundwater input causes substantial increases in river salinity, it does not perturb the stable isotopic composition of the river water. The amounts of water are too small, and the isotopic composition is in the opposite direction to the observed changes.

The research is being carried out by Jim Simpson and Andrew Herczog of the CSIRO Division of Water Resources.

AUSTRALIAN ACADEMY OF SCIENCE

Various grants are available for scientific visits:

Destination	Applications close
France (Rhone-Poulenc Fellow): UK (exchange UK (post-doctoral) Japan (exchange) Japan (post-doctoral) China (exchange)	1.8.90 1.7.90 1.10.90 1.9.90 1.11.90 1.12.90
contact Bonnie Bauld (06) 24	7 3966

30.6.90

contact Faye Nicholas (06) 247 5777

into Australia (Selby Fellowship)

AWRC GROUNDWATER PROTECTION WORKSHOP

In September 1989 the Australian Water Resources Council (AWRC) Water Resources Management Committee commissioned a study to develop a set of guidelines for groundwater pollution protection to assist the states in the formulation of their groundwater management policies. The international firm of consultants Dames & Moore were engaged to undertake the work.

The study resulted in two main outputs, the first a status report which contains a discussion of the nature and occurrence of groundwater contamination in Australia and the regulatory framework for protection here and overseas. The second output was a document presenting a discussion of groundwater protection issues and a recommended set of guidelines for policy development.

An integral part of the study was a workshop held in March to discuss a draft status report and the draft guidelines. The workshop was convened by Jim Keary of DWR (Victoria) and was held at the Rural Water Commission training rooms. It was attended by 40 representatives from the water sector and industry, including state water departments, EPAs, chemical and manufacturing industry, the rural sector and a lawyer. The ACF were also invited but could not attend.

The workshop was opened by the Victorian Minister for Water Resources Mr "Bunna" Walsh and was presented with the findings of the study by the consultants (Anthony Lane, Alan Deeney and John Forth). The state representatives then made comments and other invited speakers from industry also made brief comments on their view of the guidelines. This set the scene for the workshop sessions by defining the key issues for discussion.

The workshop sessions discussed topics including Beneficial Use concepts, Vulnerability and Risk Assessment, Water Quality Criteria, Policy Implementation, Supplementary Guidelines, Public Awareness and other relevant technical issues. The sessions were reported to plenary sessions and a summary of the workshop was presented by Harry Ventriss of WAWA. The outcome of the workshop was that the guidelines were accepted, with variations, to satisfy the policy implementation needs of the states. The guidelines will be published by AWRC in due course.

1ST NOTICE

N.Z. HYDROLOGICAL SOCIETY ANNUAL SYMPOSIUM

D.S.I.R. CAMPUS - WAIRAKEI WEDNESDAY 21 - FRIDAY 23 NOVEMBER

GET A NEW HEAD OF HYDROLOGICAL STEAM AT WAIRAKEI THIS YEAR!

THEME:

HYDROLOGY IN CURRENT ENVIRONMENTAL

PROBLEMS.

SPECIALIST WORKSHOP:

GROUND WATER MODELLING IN NEW ZEALAND.

WHAT ARE WE ACTUALLY ACHIEVING?

CALL FOR PAPERS:

AS USUAL, ONLY EXTENDED ABSTRACTS WILL BE REQUIRED. THESE WILL BE REPRODUCED IN A SYMPOSIUM PROCEEDINGS BUT WILL NOT BE CONSIDERED TO BE PUBLISHED. PAPERS MAY DESCRIBE WORK IN PROGRESS AS WELL AS WORK COMPLETED. A FORMAL CALL FOR PAPERS SPECIFYING FORMAT AND DEADLINES WILL BE MADE WITH THE SECOND CIRCULAR

AROUND MID-YEAR.

ENQUIRIES:

PLEASE CONTACT - HUGH THORPE

D.S.I.R. ILAM CAMPUS P O BOX 29-181 CHRISTCHURCH

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