PROGRAM

SUNDAY 21 MARCH

	Koombana Bay Sailing Club
1700	Sunset with Dolphins Welcome Reception
	Proudly Sponsored by Albany International, Cockburn Cement & Westrac Equipment

MONDAY 22 MARCH

	Bunbury Entertainment Centre					
	Session Chairperson: Paul Potter					
0850	Welcome by AQW Committee Chairperson Paul Potter, Worsley Alumina					
0900	Official Workshop Opening Hon. Richard Court MLA, Premier of Western Australia					
0920	Keynote Address "The Global Alumina Market - What are the criteria for success" Peter McIntosh, Kaiser Aluminium, California, USA					
0950-1020	Morning Tea - Marquee					
	Session Chairperson: David Sutherland					
1020	Alumina Dustiness Related to Physical Quality Parameters - User Experience and R&D in Hydro Aluminum D. Olsen, Norsk Hydro Research Centre					
1050	Charge Contrast Imaging - Applications to the Bayer Process J. Cornell, Alcoa					
1120	Alpart's Improvements in Quality Conversion of Batch to Continuous Precipitation C. Thompson, Kaiser-US					
1150	Custom Designed Fluid Bed Calciner for Nabalco Pty Ltd D. Brodie, Nabalco					
1220-1330	Lunch in Marquee - Proudly Sponsored by Keystone					
	Session Chairperson: Robert Morton					
1330	Investigation of the Growth of Gibbsite Crystals by Atomic Force Microscopy and Optical Microscopy S. Freij, AJ Parker Research Centre					
1400	Sizing of Relief Valves for Two-Phase Flow in the Bayer Process Q. Tran, Kaiser Engineers					
1430	Impact of Liquor Causticity on Plant Operation D. Thomas, QAL					
1500	Afternoon Tea - Marquee					
	Session Chairperson: Ivan Anich					
1530	Solid Liquid Calcination Technology (SLC): Commissioning and Demonstration of a Full-Scale Unit J. Pulpeiro, Alcoa Europe					
1600	An Investigation into NaOH Attack on Cementitious Materials H. Trinh Cao, CSIRO					
1630	Estimating Bauxite Quality using FTIR Spectroscopy and Multivariate Calibration S. Eyer, Alcoa					
1700	Close of session and wrap up					
1710	Happy Hour at Trafalgars - Proudly Sponsored by Toussaint & Richardson					
1900	Gibbsite Gala Dinner at the South West Italian Club Proudly Sponsored by Kaiser Engineers See shuttle timetable for pick-up times					

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TUESDAY 23 MARCH

	Bunbury Entertainment Centre	Grand Cinemas		
	Precipitation Research	C.u.u. Citicana		
	Session Chairperson: Steve Rosenberg	·		
0800	Introduction			
	Steve Rosenberg, Worsley Alumina			
0810	Particle Interactions and Surface Forces during Gibbsite Precipitation from Bayer Liquors			
	J. Addai-Mensah, Ian Wark Research			
0840	The Role of Mixing Gibbsite Precipitation			
	D. Ilievski, AJ Parker Research Centre			
0910	The Effect of Sodium, Potassium and Caesium on Gibbsite Agglomeration in Bayer Solutions			
	J. Loh, AJ Parker Research Centre			
0940	Towards a Fundamental Rate Equation for Gibbsite Growth in Bayer Liquors			
	C. Vernon, AJ Parker Research Centre			
1010	Morning 1	Геа - Marquee		
	Session Chairperson: Gordon Parkinson	Session Chairperson: Charles Dobbs		
1040	Nucleation Mechanisms of Gibbsite as Suggested by Computational Molecular Modelling T. Soar, Ian Wark Research Institute	Employing Intelligent Advisory Systems at Alcoa of Australia Ltd A. Nooraii, Alcoa		
1110	Precipitation of Gibbsite: Development of a New Rate Equation	Implementation Trial of Input-Output Linearizing Control on an Industrial		
	R. Cornell, Alcoa	Evaporation Simulator K. Kam, Curtin University		
1140	Poisons, Polyols and Precipitation	Business Optimisation for the		
	A. Owen, AJ Parker Research Centre	Alumina Industry N. Freeman, Honeywell		
1210	Lunch in Marquee - Proud	ly Sponsored by Lurgi [Aust]		
	Session Chairperson: John Farrow	Session Chairperson: Lesley Dewhurst		
1320	Sodium Gluconate Poisoning of Primary and Secondary Nucleation of Gibbsite from Synthetic Bayer Liquors	Development of advanced control and systems application B. Thorne, Aughinish Alumina		
	D. Rossiter, AJ Parker Centre			
1350	Gibbsite Nucleation at Sodium Oxalate Surfaces	Application of Soft Sensors, Dynamic Simulation and Model Based Control to		
	G. Parkinson, AJ Parker Research Centre	Digestion Charge Control. J. Gorst, Nabalco		
1420	A Rate Equation for Crystallization of Sodium Oxalate under Bayer Conditions	Fluid Dynamics Analysis and Scale Modelling of Mixing and Agitating Vessels		
	A. McKinnon, Alcoa	J. Wu, CSIRO		
1450	Afternoon '	Tea - Marquee		
	Session Chairperson: Steve Rosenberg	Session Chairperson: Brendan Reid		
1520	Effect of Humate on the Batch and Continuous Crystallization of Aluminium Hydroxide	Necessary Fundamentals for Successful Alumina Seed Filtration		
	M.Ang, Curtin University	R. Bott, Bokela		
1550	Panel Review	Overland Bauxite Conveying- Cable Hauled Conveyors vs Conventional Conveyors		
	·	P. Conley, G. Thomas, JLV Industries		
1620	Close of session and wrap up	Close of session and wrap up		
1630	Paddles Up Sundowner at the Bunbury Rowing	Club.		
	Follow our guides for the short walk there			
	Proudly Sponsored by ACME Group Filtration	& Scapa Filter Media		

WEDNESDAY 24 MARCH 1999

0800-1130	VISIT TO WORSLEY ALUMINA OR ALCOA WAGERUP REFINERIES * Delegates are required to wear appropriate clothing including long trousers and covered footwear.
1200	Depart the Bunbury Entertainment Centre for the Margaret River Wine Experience. Enjoy lunch at the superb Amberley Estate Vineyard and then take the opportunity to a visit a choice of other wineries, a brewery and the magnificent Geographe Bay.
1200	Coach departs the Bunbury Entertainment Centre for an afternoon of golf.

THURSDAY 25 MARCH 1999

	Bunbury Entertainment Centre	Grand Cinemas
	Session Chairperson: Ray Shaw	
0800	Agglomeration of Alumina During Dissolution in Aluminium Cells	
	J. Thonstad, SINTEF Materials Technology	
0830	Alumina Quality Requirements for Improved Cell Feeding	
	E. Andrews, Comalco	
0900	Globalisation of Analysis of Smelter Grade Alumina	
	F. Kimmerle, Alcan International	
0930	Laboratory Evaluation of Agglomerated Superfine Alumina for Smelting	
1000	T. Barton, CSIRO	
	Morning Tea - M	
1030	Session Chairperson: Daniel Thomas	Session Chairperson: Greg Power
1030	The Effect of Quality of Alumina on the Environmental Emissions at Hillside Aluminium	Quaternary Amines as Sodium Oxalate See Oxalate Seed Stabilisers in Bayer Liquors G. Sipos, AJ Parker Research Co-Op Centre
	J. Uys, Hillside Aluminium Smelter	
1100	Use of Laser Diffraction Techniques	A Case Study in Downstream Testing of
	for Alumina	Bayer Process Additives
1130	G. Roach, Alcoa	J. Kildea, Nalco Australia
1130	Improving Electrostatic Precipitator Performance by Ductwork Changes	The Effects of Flocculants in Thickener Scaling
1000	C. Grainger, CSIRO	P. Avotins, Cytec Inc
1200	Lunch - Marquee Proudly Sponso	red by Dustcotech WA
1000	Session Chairperson: Wayne Connop	Session chairman: Gerald Roach
1320	Bauxite Extractable Phases in the Bayer High Temperature Process: Re-assessment of Boehmite Content and Aluminium Substitution in Alumino-Goethite	Technical Advances and Cost Benefit From CFD Modelling
	M. Authier-Martin, Alcan International	R. Kahane, Worsley Alumina
1350	Mineralogical Analysis of Bayer Materials -Rietveld or not Rietveld	Caustic Soda Absorption under Bayer Conditions
	N. Pearson, Alcoa	J. Farrow, AJ Parker Research Centre
1420	BQUANT 98: An Efficient Software Tool for Bauxite Mine Explorations	Effect of Sand Addition on the Rheological Properties of Red Mud Slurries
	F. Kimmerle, Alcan International	J. Doucet, Alcan International
1450	Afternoon Tea - M	larquee
	Session Chairperson: Darren Rodda	Session Chairperson: Mike Sisley
1520	Bayer Liquors Desilication Process G. Forte, Alcan International	The Role of Chemical Flocculants in the Disposal of Red Mud
		K. Bremmell, Advanced Mineral Products Special Research Cnt
1550	Plant Impurity Balances and Impurity Inclusion in DSP	Caustic Soda Adsorption on Bayer Residues
	G. Riley, Alcoa	M.Thornber, CSIRO Minerals
1620	Agitation Improvements in Predesilication at the EurAllumina Refinery M. Zirnsak, Comalco Research	A Fundamental Study of Photochemically Initiated Organic Reactions in Red Mud Disposal Wash Water
ĺ		M. Nunes, Alcoa
1650	Close of session and wrap up	Close of session and wrap up
1700	Happy Hour at Trafalgars - Proudly Sponsored by CYTEC Au	
1745	Last Frontier Mystery Dinner	
	Proudly Sponsored by Worsley Alumina See shuttle timetable for pick-up times	

FRIDAY 26 MARCH

	Bunbury Entertainment Centre
	Chairperson: Ross Greenhalgh
0900	Keynote Environmental Address David Coutts, Australian Aluminium Council
0920	Development of the Planning Principle of the ISO 14001 Environmental System Standard at the Worsley Alumina Refinery PB. Johnston, Worsley Alumina
0950	Current and Future Strategies in Energy Management at Worsley Alumina D. Heath, Worsley Alumina
1020-1050	Morning Tea in Marquee - Proudly Sponsored by Australian Aluminium Council
	Chairperson: Ross Greenhalgh
1050	Understanding the Hydrogeology of Bauxite Residue disposal Areas at the Worsley Alumina Refinery R. Wright
1120	Application of Equilibrium State Rheological Data in the Red Mud Disposal Process F. Sofra, University of Melbourne
1150	Bauxite Mine Rehabilitation in the eastern Jarrah Forest
	S. Vlahos, Worsley Alumina
1220	Closing Ceremony
1240	Official Farewell to the City of Bunbury - Mayor John Castrilli Lunch in the Foyer of the Bunbury Entertainment Centre - Proudly Sponsored by Department of Resources Development and Finn International

OPTIONAL PROGRAM FRIDAY 26 MARCH 1999

	Bunbury Entertainment Centre
1400-1700	Environmental and Bauxite Residue Management Workshop Cost: \$150 Full Day Chairperson: David Coutts, Australian Aluminium Council \$50 Lunch & Meeting Only

Social Functions

SUNDAY 21 MARCH

MARCH Sunset with the Dolphins

Welcome Reception, 5.00pm - 9.00pm, Koombana Bay Sailing Club Enjoy a relaxed gournet BBQ as the local sailing community welcomes you to the City of Bunbury.

Dress: Smart Casual. A light jacket is recommended

Proudly Sponsored by Albany International, Cockburn Cement & Westrac Equipment

MONDAY 22 MARCH Gibbsite Gala Dinner

Welcome Dinner, 7.30pm - late, South West Italian Club You're invited to dine as we roll out the conveyor belting and red mud carpet for the Official Opening Dinner.

Dress: Formal preferred.

Proudly Sponsored by Kaiser Engineers

TUESDAY 23 MARCH Paddles Up Sundowner

Happy Hour and Dragon Boat Race, 4.30pm - 7.30pm, Bunbury Rowing Club Just a short walk from the Entertainment Centre, this evening will give you a real feel for the Bunbury lifestyle. There will be a shuttle bus at 7.30pm for those wanting to return to their hotel, however, Victoria St is just one block away and has a variety of restaurants and cafes.

Dress.

Casual - shorts & t-shirt. Paddlers make sure you bring along a change of clothes and towel. A light jacket may be required.

Proudly Sponsored by ACME Filtration Group & Scapa Filter Media

THURSDAY 25 MARCH Last Frontier Mystery Dinner

Farewell Dinner, 6.30pm - late

Clues to the secret destination will be "leaked" during the week

This is an evening with a difference and definitely not to be missed. We can't reveal much more about the evening - you will just have to be there!

Dress: Smart Casual - a light jacket is recommended.

Proudly Sponsored by Worsley Alumina

FRIDAY 26 MARCH Farewell Lunch

Bunbury Entertainment Centre Foyer, 12.30pm 2.00pm The Mayor of Bunbury will bid you a farewell and the Bunbury Youth Chorale will leave you with fond memories of a week in the South West of Western Australia

Proudly Sponsored by Department of Resources Development & Finn International

REGISTRATION DESK

The Registration & Information Desk, located in the Foyer of the Bunbury Entertainment Centre, will be open during the following times: Phone number?

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Sunday	21 March	2.00pm - 6.30pm
Monday	22 March	7.30am - 6.00pm
Tuesday	23 March	8.00am - 6.00pm
Wednesday	24 March	8.00am - 10.00am
Thursday	25 March	8.00am - 5.30pm
Friday	26 March	8.00am - 2.00pm

SMOKING POLICY

Please be aware that for the comfort of all delegates, meeting rooms, secretariat, speaker preparation, exhibition and meals areas will be smoke free.

NAME BADGES

It would be appreciated if all delegates and accompanying persons wear their name badges at all times as this identifies them as eligible for registered meals, Workshop sessions and social functions.

MOBILE PHONES

Please ensure your mobile phone is switched off during the sessions. The signals received and transmitted can interfere with the audio visual equipment and be extremely disruptive.

MESSAGES

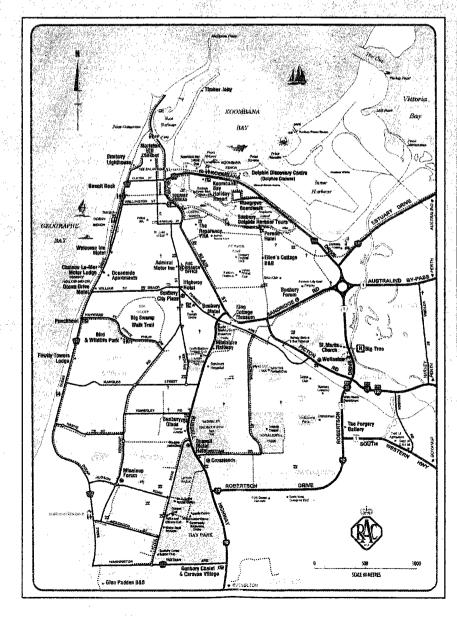
All messages for delegates will be posted on the message board adjacent to the Registration Desk.

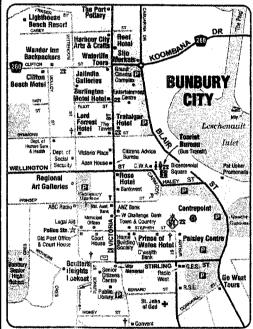
Public felephones for outward calls are located near the box office.

Please note that sessions WILL NOT be interrupted to relay messages.

BUSINESS CENTRE

For your convenience, Honeywell Ltd is generously providing an area for delegates to access Email, fax and photocopier. It is a quiet area where you will be able to respond to messages and catch up on business. The "Honeywell Hub" will be located on the mezzanine level of the Bunbury Entertainment Centre.







SHUTTLE TIMETABLE

Daily Departure Times

From Hotel / Motels to Entertainment Centre

	Bunbury Village (Carpark Outside Village)	Ocean Drive Motel (Outside Reception)	Chateau La Mer (Outside Reception)	Welcome Inn Motel (Outside Reception)	Ellen's Cottage (Top of Driveway)	Bunbury Motel (Outside Reception)	Admiral Motel (Carpark left of Motel)
Monday	8:00 am	8:08 am	8:23 am	7:12 am	7:14 am	8:00 am	8:48 am
Tuesday	8:12 am	8:14 am	8:00 am	7:18 am	8:00 am	8:08 am	8:53 am
Wednesday	7:00 am	7:12 am	7:18 am	7:23 am	7:00 am	7:08 am	7:14 am
Thursday	8:23 am	8:12 am	8:14 am	7:00 am	8:18 am	8:30 am	8:38 am
Friday	8:00 am	8:18 am	7:00 am	7:08 am	8:23 am	8:42 am	8:44 am

Delegates at other hotels should wait

outside the reception area at 7:00am.

Bus Departure times

Bunbury Entertainment Centre to Hotel /Motels

The above Motel / Hotels will have the following afternoon shuttle service available

Monday 22 March

Depart Entertainment Centre at 5:45 pm to selected Motel / Hotels

Thursday 25 March

Depart Entertainment Centre at 5:00 pm to selected Motel / Hotels

Friday 26 March

Depart Entertainment Centre at 2:00 pm selected Motel / Hotels

Shuttle Service - Sunday 21 March

See daily service for morning pick up times

4:45 pm

- Buses depart Bunbury Entertainment Centre for Koombana Bay Sailing Club

Shuttle Service will leave Koombana Bay Sailing Club at 8:30 pm, 9:00 pm and 9:30 pm

Shuttle Service -Monday 22 March

To Italian Club

Bunbury Village	Admiral Motor Inn	Bunbury Motel	Oceanside Apartments	Lighthouse Beach Resor	The t Clifton	The Lord Forrest
7:00 pm	7:10 pm	7:15 pm	7:00 pm	7:08 pm	7:13 pm	7:18 pm
Welcome Inn	Chataan La	Occar	Duite Day	. II.d.I	- 1 × D	EU 1 C II

Welcome Inn	Chateau La Mer	Ocean Drive Motel	Rose Hotel	Koombana Bay Resort	Ellen's Cottage
7:00 pm	7:05 pm	7:10 pm	7:00 pm	7:05 pm	7:12 pm

Shuttle Service will leave Italian Club to Hotel/Motels at 10:30 pm, 11:00 pm, 11:30 pm and 12:00 midnight

Shuttle Service - Tuesday 23 March

See daily service for morning pick up times

7:30 pm

- Pick up from the Bunbury Rowing Club for people wanting to return to hotels

Shuttle Service - Wednesday 24 March

See daily service for morning pick up times

7:00 am

- depart Bunbury Entertainment Centre for Refinery Site Visits

11:30 am

- return to BEC drop off delegates to hotels if required

12:00 noon

- Coaches leave Bunbury Entertainment Centre for the Margaret River Tour

12:00 noon

- Coach leaves Bunbury Entertainment Centre to Golf Course

6:00 pm

- return from Golf Course to guest's hotels or BEC

Shuttle Service - Thursday 25 March

Mystery Location

Bunbury	Admiral	Bunbury	Oceanside	Lighthouse	Ocean Drive	Chataue La
Village	Motor Inn	Motel	Apartments	Resort	Motel	Mer
5:45 pm	5:50 pm	5:53 pm	5.45 pm	5:57 pm	5:45 pm	5:48 pm

Welcome Inn	The Rose Hotel	Koombana Bay Resort	Ellen's Cottage	The Clifton	The Lord Forrest
5:52 pm	5:45 pm	5:50 pm	5:57 pm	5:49 pm	5:53 pm

Shuttle Service will leave the secret destination to return to Bunbury from 10.30 until 12:00 midnight

Shuttle Service - Friday 26 March

See daily service for morning pick up times

2:00 pm

- return from BEC to hotels

6:00 pm

- return service to Perth - one bus