

International Astronomical Union
XXVth General Assembly
July 13-26 2003
Sydney, Australia

Contents

Annex 1	Timeline of Events
Annex 2	National Organizing Committee Members
Annex 3	Opening Ceremony
Annex 4	Student-Volunteer Program
Annex 5	Tours Program
Annex 6	The Australian Festival of Astronomy
Annex 7	Associated Public Events
Annex 8	“Astronomy on the Go”
Annex 9	Room Allocations
Annex 10	Astro Expo Exhibitor listing
Annex 11	Industry Day
Annex 12	Delegate List
Annex 13	The Australian Festival of Astronomy - Marketing Report

ANNEX 1

INTERNATIONAL ASTRONOMY UNION

25TH GENERAL ASSEMBLY

Timeline of Events

1994

At Don Mathewson's invitation, IAU Executive Committee members visit Australia
Jeremy Mould heads move to bid for 2003 GA in Sydney

1995

Bid for 2003 GA in Sydney submitted to IAU

1997

Aug

Sydney awarded 2003 GA during Kyoto GA
Jeremy Mould calls for expressions of interest to form LOC (NOC)

1998

Apr

John Norris convenes 1st meeting of NOC
NOC decide on SCEC for GA venue
Convention Centre booked for period July 13-26, 2003?

Sep

Lawrence Cram takes over Chair for 5th NOC meeting

Sep

NOC call for tenders for provision of PCO services

Dec

7th NOC meeting spent visiting two candidate PCO companies

1999

Mar

Raymond Haynes takes over NOC Chair for 8th NOC meeting

Jun

ICMS chosen as GA PCO at the 9th NOC meeting

Jun

Use of Sydney Opera House for Opening Ceremony considered

Oct

Preliminary budget tabled at 11th NOC meeting

2000

May

Logo design selected at 14th NOC meeting

Aug

Sydney GA display and David Malin presentation at Manchester IAU GA

Nov

NOC sub-committees established at 16th NOC meeting

Dec

Harry Hyland becomes NOC Chair for 17th NOC meeting

2001

Apr

18

Tentative bookings of hotel and university college accommodation

Apr

19

IAU General Secretary Hans Rickman makes eight-day visit to Sydney

Jul

17

18th NOC meeting with Hans Rickman attending

Revised budget discussed at 19th NOC meeting

2002

Apr	19	At 22 nd NOC meeting, John Whiteoak added to Committee as Co-Chair,
Apr	19	David Ellyard appointed as NOC Executive Officer and Chairman of the Sponsorship and Exhibition Sub-Committee
May	22	23 rd NOC Meeting
Jun	26-28	IAU General Secretary in Sydney for GA discussions
Jun	27	24 th NOC Meeting with IAU General Secretary attending; Registration form and fee levels signed off
Aug	14	25 th NOC Meeting; planning commenced for combined public/professional exhibition
Sep	9	Appointment of DVA-Navion to provide Sponsorship Consulting Services for a period of six months
Sep	17	26 th NOC Meeting
Nov	7	27 th NOC Meeting; NOC finances low and ATNF loan discussed
Nov	14	First Risk Management Analysis of GA finances
Dec	17	28 th NOC Meeting; projected GA budget 'frozen'

2003

Jan	17	29 th NOC Meeting
Feb	15	Original deadline for Abstracts to reach Symposium/JD/SPS SOC's
	15	Deadline for IAU Travel Grant applications to reach Symposium SOC's or for other meetings to reach IAU General Secretary
	20	30 th NOC meeting
Mar	1	Extended deadline for Abstracts to reach Symposium/JD/SPS SOC's
	1	Symposium SOC Travel Grant recommendations to reach IAU General Secretary
	15	General Secretary sent first results to Travel Grant applicants
	18	31 st NOC Meeting
	26	CSIRO agreement to provide \$100,000 (\$40,000 cash, \$60,000 'in-kind') for GA sponsorship
Apr	1	Deadline for inclusion of meeting programs in the GA Programme Book
	11	Connell Wagner agrees to \$30,000 sponsorship (\$20,000 in-kind) of 'Industry Day' event
	30	Deadline for GA Early Registration
	15	Final approved Abstracts for Abstract Book to reach ICMS
	15	32 nd NOC Meeting
May	1,6	Second Risk Management Analysis of GA Budget
	14	33 rd NOC Meeting
	26	Approval by Federal Government of \$50,000 funding for 'International Conference Support' and \$100,000 funding for 'International Showcasing'
	30	Final proposal for Internet Cafe
	31	Extended deadline for GA Early Registration
	31	Extended deadline for final approved Abstracts
Jun	10	34 th NOC Meeting
	16	Approval of Federal Government of \$40,000 funding for support of 'Industry Day'
Jul	1	35 th NOC Meeting
	11	End of GA pre-registration
	12	Start of GA on-site registration
	12	36 th NOC Meeting
	14	Scientific meetings begin

14-17 IAU Symposia 216, 217, 218
15 Formal GA Opening and First Session of GA25
15 Astro Expo begins
18-21 Public admission to Astro Expo
21-25 IAU Symposia 219, 220
22-25 IAU Symposium 221
23 Industry Day
24 Second Session of GA25 and Closing Ceremony
24 GA 'Banquet'
25 Scientific meetings end

ANNEX 2

INTERNATIONAL ASTRONOMICAL UNION

25TH General Assembly July 13-26 2003

National Organizing Committee Members

Attendee	Affiliation	Meeting Range
M. Burton	UNSW	16-36
L. Cram	USyd	1-19
T. Davis	UNSW	34-36
M. Drinkwater	UMel	6-7
R. Ekers	ATNF	18-36
J. Everett	UNSW	8-36
J. Hawthorn	AAO	20-21
R. Haynes	ATNF/UTas	1-36
H. Hyland	SCU/JCU	1-36
W. Lawson	UNSW	1-23
S. Little	ATNF	19-36
N. Lomb	PHM	2-36
D. Malin	AAO	1-18
R. Manchester	ATNF	13-36
J. Nicholls	USyd	25-28
J. Norris	ANU	1-7
J. O'Byrne	USyd	4-36
E. Pacey	ATNF	1-19
B. Peterson	ANU	8-36
A. Schinckel	UNSW	1-4
H. Sim	ATNF	19-36
T. Turtle	USyd	8-36
A. Vaughan	UMac	2-36
R. Webster	UMel	17-36
G. White	UWS/JCU	8-36
J. Whiteoak	ATNF	22-36
W. Zealey	UWol	1-25

ICMS		
P. Beckton		9-11
S. Butterworth		16-27
L. Christopher		29-36

J. Gorton	28-32
B. Holliday	20-36
F. Houbert	22-27
L. Messenger	11-15
L. Phillips	21-25
S. Ramirez	17-18
C. Ross	15-16

Contractor

D. Ellyard	22-25
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Affiliations

AAO	Anglo-Australian Observatory
ANU	Australian National University
ATNF	Australia Telescope National Facility
JCU	James Cook University
PHM	Powerhouse Museum
SCU	Southern Cross University
UMac	Macquarie University
UMel	University of Melbourne
UNSW	University of New South Wales
USyd	University of Sydney
UTas	University of Tasmania
UWol	University of Wollongong
UWS	University of Western Sydney



IAUXXV

XXVth IAU-GA 2003 Opening Ceremony

Tuesday 15 July 2003 • Concert Hall • Sydney Opera House



Connell Wagner





The Peter Gruber Foundation

Honoring and Encouraging the Best

The Peter Gruber Foundation gives international prizes annually in the fields of genetics, cosmology, justice and, beginning this year, women's rights. Prize winners are selected by a panel of experts in each field. The goal of each prize is to recognize and honor an individual or individuals who have made significant contributions in the discipline and, by shining a spotlight on them, encourage others to support signal achievement in the various fields.

Winners of prizes from The Peter Gruber Foundation are:

Genetics

Dr. David Botstein - 2003
Dr. H. Robert Horvitz - 2002
Dr. Rudolf Jaenisch - 2001

Cosmology

Prof. Rashid Sunyaev - 2003
Dr. Vera Rubin - 2002
Sir Martin Rees - 2001
Dr. Allan R. Sandage - 2000
Dr. Phillip J.E. Peebles - 2000

Justice

Fali Nariman - 2002
Justice Anthony Gubbay and the
Law Society of Zimbabwe - 2001



THE PETER GRUBER FOUNDATION

6000 Estate Charlotte Amalie

St. Thomas, U.S.V.I. 00802

www.petergruberfoundation.org

PROGRAMME

- National Anthem: Performed by Lauren Easton
- Performance: Traditional welcome by Goombilar, and members of Descendance Dance Company
- Master of Ceremonies: Professor Harry Hyland
Co-Chair National Organising Committee IAU-GA
- Address: Professor Rachel Webster
President, National Committee for Astronomy of the Australian Academy of Science
Dr Robin J Batterham
Chief Scientist, Australia
- Performance: Composition by Sandy Evans
Images by Professor David Malin
Performed by Sandy Evans - saxophone and Phil Slater - trumpet and conch shell
- Official Welcome: The Hon Dr Brendan Nelson
Minister for Education, Science and Training
- Address: Professor Franco Pacini
President of the IAU
- Presentation of the 2003 Cosmology Prize
Peter Gruber Foundation
- Master of Ceremonies: Larry E Tise
- Awarded to Rashid Sunyaev
Max Planck Institute, Germany
- Address: Patricia Murphy Gruber
President, Peter Gruber Foundation
Professor Lodewijk Woltjer, France
Past President of the IAU
Professor Virginia Trimble
University of Maryland, USA
- Performance: Dr Robin Batterham performs on The Grand Organ
• 'Out There' composed by Andrew Batterham
• Non nobis Dominie composed by Patrick Doyle
Accompanied by the Voice Australia Choir
Conductor: Dr Steve Watson
- Interval: 20 minutes
- First Session of IAU General Assembly

PERFORMERS

Lauren Easton

Lauren Easton is one of Australia's rising stars. She has performed with the Australian Opera and toured throughout the USA for the Olympic Arts Festival, which included a performance in Carnegie Hall. Lauren is currently studying at the University of New South Wales for a Bachelor of Music Degree, where she has been awarded the prestigious Sony Foundation Scholarship.

Goomblar

Goomblar Wylo is an Australian Aborigine from the Birri-Gubba and Wakka Wakka tribes of South East Queensland. He has toured almost every continent on the planet, starred in feature films, played the worlds biggest festivals, corporate events, schools and universities, and is a top selling recording artist.

Descendance Aboriginal Dance Group

Descendance is a professional performing troupe, presenting traditional and contemporary dance and theatre. Descendance members range from Mount Isa across to Rockhampton, up to Cape York and around the Torres Strait Islands. They have worked in film, theatre, television, festivals and corporate events, showcasing the spirit of both Aboriginal and Torres Strait Island through their powerful style of dance and music.

Sandy Evans

Sandy Evans is one of Australia's leading jazz musicians and composers. She has won many awards for her work, including a Young Australian Creative Fellowship. She was a featured soloist on the roof of the Sydney Opera House at the dawn of the new millenium. Recent highlights have been her major work Testimony, and international festival performances by her group, the Sandy Evans Trio.

Voice Australia Choir

Voice Australia is a vocal ensemble chosen to support performances including Michael Crawford in Concert, Elvis the Concert, Gershwin Swings & Swings and Porgy and Bess. They have performed at the Sydney Opera House for UNICEF and Reconciliation as well as Handel's Messiah at St Mary's Cathedral. They have presented a number of special Christmas Concerts around Sydney. They are active in the recording studio as featured back up singers for many of the recordings for Sydney's national and international sporting events. Their musical director is Dr Steve Watson.

Dr Steve Watson

Steve Watson is Principal Conductor of the Sydney Concert Orchestra and has also conducted the Sydney International Orchestra, The Sydney Youth Orchestra and the SBS (Special Broadcasting Service) Youth Orchestra. He is Musical Director of the Beethoven Society of Australia. He has been a Senior Lecturer in Music and Director of the Academy of Music at the University of Western Sydney. More recently his focus has been on orchestral and choral conducting and the writing of arrangements and orchestrations.

Andrew Batterham

Andrew Batterham (born 1968) graduated B Mus from Melbourne University. He went on to study composition at the VCA. He lives as a composer in Melbourne and has had commissions from the ABC and others. His symphonic works have been performed by the Melbourne Symphony and the Brisbane Symphony orchestras. This current work, "Out There", has been written for this occasion.

Robin Batterham

Robin Batterham has a performance diploma in organ. Recent concerts include Rome, Aachen, Hong Kong, Melbourne (Concert Hall) as well as concerts associated with the music making at Scots Church in Melbourne where he is organist.

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ANNEX 4

IAU 25th GENERAL ASSEMBLY 2003

Report on the Student-Volunteer Program for the General Assembly

Tamara Davis

University of New South Wales

At the IAU General Assembly in Sydney, Australian university students were given the option of helping out at the conference for up to five days in exchange for a discounted registration fee of \$220. Ninety-four students took up this offer. If you are interested in the statistics, there were 52 males and 42 females. Divided by institution there were 30 from the Australian National University, 20 from the University of New South Wales, 16 from the University of Melbourne and 15 From the University of Sydney; the remaining were scattered between the University of Tasmania, University of Queensland, University of Wollongong, Swinburne University, Macquarie University and Monash University

The organisation of the volunteers started by gathering the names and contact details of the students. This list was continuously updated as ICMS received new student registrations. The list of jobs that the students would be required to do was compiled through discussions with Lee Christopher at ICMS and the National Organising Committee. I then emailed all the students asking for details concerning when they were available to do their shifts, and whether they had any special skills. The special skills that proved most useful were knowledge of other languages (for the airport welcoming committee), computer networking or trouble-shooting knowledge, and the ability to run a planetarium. Once this information had been gathered a roster was created and sent to all the students. An email group was created by which the students could communicate between each other and request shift swaps if necessary.

The students first started work on the weekend before the conference, when a welcoming group began greeting arrivals at Sydney International Airport. This group was not widely required, but very much appreciated by those who did use the service. The students were heavily involved in the pre-conference setup. They provided the primary work-force packing the delegate's satchels, they labeled the pigeon holes, and they prepared the poster boards. Students with some networking experience were assigned to assist Shaun Amy in wiring the Conference Centre for the Internet Cafe and the wireless internet. The weekend's preparation also included a tour of the facility, and an introduction to the audio-visual system. As a result, there was a hoard of 30 students who knew their way

around the Conference Centre and could provide directions for delegates and speakers during the General Assembly, in particular the busy first couple of days.

Once the conference began the students, identified by their bright red vests, became the general helpers for delegates. There were morning and afternoon shifts, each with a "team leader" to assign jobs for the students. The original roster was used as a guideline, but the team leader responded to whatever was urgent at the time and reassigned students to wherever they were needed.

During the entire conference the students staffed the "satchel pick-up" area at the registration desk. This soon became the help-point for delegates, and many general questions were directed to the students there. In the early stages of the conference students were assigned to key traffic points to help direct lost delegates. They were also assigned to poster board areas to help delegates find where their poster should go. When requests were made for blanket pigeon hole dumps, it was the students who filled the pigeon holes. Students also worked as door monitors for the large rooms, but it was found that this was not particularly useful, and they were often reassigned to other tasks. Another small task was taking head-counts to record participation rates in the various symposia and joint discussions.

More specific tasks included working in the media room, where daily the students would write articles for the "Magellanic Times" as well as act as runners for the media staff to find the people they wanted to interview. At the last minute the media office hired four full-time helpers. However, since students were preferred for reporting on scientific events, these hired helpers were used to replace some students on other tasks. Two hired helpers were assigned to the audio-visual room, where they worked for the entire two weeks. The other two were assigned to the IAU office, where they spent most of their time.

Students were also used at the external events, taking tickets and acting as ushers at the public talks. During the public expo they supported many of the attractions, running the Starlab planetarium, staffing the "Ask an Astronomer" stand, running a telescope outside the exhibition hall, staffing many of the stands, and again helping with the public talks. They also helped out at the North Sydney public viewing night.

Some lunch was provided for the volunteers by ICMS, and this was very much appreciated.

So concludes my summary of the main tasks of the student volunteers. There are several comments that should be made that may assist the organisers next time:

- 1) Assign more students for the setup and the first couple of days. The second week organization ran itself quite smoothly, and few general helpers were needed.
- 2) If at all possible, posters should not be moved during the conference. Taking down posters and safely returning them to delegates was one of the more difficult and time-consuming tasks performed by the students. Delegates should be clearly told when to remove their posters, so loss and damage can be avoided.

- 3) Assigning specific jobs to specific students before the conference is not always useful (except when specific skills are required). It is more useful to simply have a pool of help available, and a team leader who can assign jobs as the need arises. Flexibility is the key. However, a clear list of the jobs that are definitely required is very important to enable the right number of helpers to be available at the right time.
- 4) Ease of communication with the team leader is essential. The students need a permanent contact point, and preferably a mobile phone to carry if they need to leave their post.
- 5) It is vital to give the students a very good briefing before they start work, and giving them some easily identifiable clothing (like the red vests) is useful.
- 6) While working, the students require a secure location for their bags and valuables.

One downside was the "Volunteer" label on the students' name-badges. This was readily interpreted by the delegates to mean that the helpers weren't participating in the conference. This may have impaired the students' enjoyment of the conference from a scientific perspective, as the other delegates may not have taken them seriously as researchers. "Student" would have been a more appropriate label.

The student-volunteers were a great success. I accepted many words of praise from many different people on the behaviour of the volunteers. They were described by a Convention Centre organiser as the best volunteers that the Centre had ever had. This was primarily because the students were naturally very cooperative, but was also achieved by a fostered sense of community amongst them. We organised several get-togethers around town, and provided a forum in which students from all over the country could get to know each other. This became an added benefit of the volunteer scheme, and hopefully enhanced the student experience at the General Assembly.

ANNEX 5

Report on Tours Program for IAU2003

As part of IAU2003 a wide range of tours was planned and undertaken for the participants and their friends. These tours were well received, with many people taking the opportunity to travel around Sydney and further afield during, before or after the congress.

The attached table lists the tours undertaken and the number of participants.

Longer tours were offered before the General Assembly began, but only limited numbers of participants availed themselves of the offers, with a Tasmanian Tour being cancelled prior to the Assembly through lack of support. After the Assembly three tours were undertaken: Kakadu & Arnhemland in the far north of Australia, the Red Centre of Australia near Alice Springs, and a Barrier Reef cruise.

For the areas closer to Sydney, the tours most favoured were the Kur-Ring-Gai bushwalking, Canberra, the Hunter Valley, and locations containing koalas and kangaroos.

We had positive feedback from the Canberra 'day trippers' - the delegates were pleased that they could Mt Stromlo to see the effects of the recent bush fires.

Overall, I believe that most people were satisfied with the selection of tours. The day-tour bookings certainly picked up tremendously once the participants were in Sydney. This seems to be the trend these days, with most people not wishing to commit themselves beforehand, finding it easier to book on-site once they know their schedule.

The astronomy community provided tour guides on most of these tours and this was also welcomed by participants.

We found that the tour company, General Travel, did a good job in organizing the tours and providing on-site booking facilities throughout the conference. However, some General Assembly attendees considered some tours quite expensive and felt that they could not afford them.

Raymond Haynes
Chairman,
NOC Hospitality, Accommodation & Tours Sub-Committee



General Travel Australia

A Member of the General Travel Group Pty Ltd ACN 003 133 551 ABN 85 003 133 551

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FINAL TOURS SUMMARY

IAU – JULY 2003

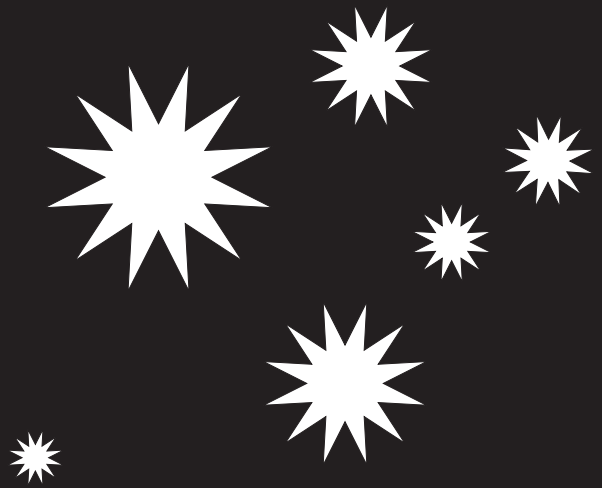
TOUR	DATE	NUMBERS
PRE & POST TOURS		
Kakadu & Arnhemland		17
Post Red Centre		18
Cruising the Barrier Reef		15
Pre Red Centre		6
Kimberley		cancelled
DAY TOURS		
City of Sydney	13 July	15
Coffee Cruise	13 July	4
Koalas & Kangaroos	13 July	14
Opera Afloat	14 July	13
Bridge Climb	14 July	5
Madame Butterfly	14 July	24
City of Sydney	15 July	27
Bridge Climb	16 July	5
Ku ring gai Bushwalking	16 July	29
Observatory Evening	16 July	12
Blue Mountains	17 July	17
Bridge Climb	17 July	5
Koalas & Kangaroos	17 July	28
Madame Butterfly	17 July	44
Creation of an Opera	17 July	10
Coffee Cruise	18 July	40
Observatory Evening	18 July	7
Aboriginal Walkabout	18 July	15
Northern Beaches	19 July	11
Blue Mountains Hiking	19 July	68
Canberra	19 July	34
Dinner Cruise	19 July	17
Hunter Valley Overnight	19 July	4
Sheep Station	19 July	32
Blue Mountains 4WD	20 July	71

City of Sydney	20 July	32
Hunter Valley	20 July	38
Koalas & Kangaroos	20 July	65
Learn to Surf	20 July	8
Coffee Cruise	21 July	19
Observatory Evening	21 July	19
Sheep Station	21 July	11
Aboriginal Walkabout	21 July	cancelled
Ku ring gai Bushwalking	22 July	23
Observatory Evening	22 July	22
Creation of an Opera	22 July	cancelled
Bridge Climb	22 July	5
Opera Afloat	23 July	26
Northern Beaches	23 July	4
Blue Mountains	23 July	23
Koalas & Kangaroos	23 July	20
Creation of an Opera	24 July	15
Aboriginal Walkabout	25 July	cancelled

The Australian Festival of Astronomy, in conjunction with the International Astronomical Union's 25th General Assembly, brings the Universe to Sydney in July 2003. Eye-opening talks all around Sydney, concerts, international exhibits and night viewings are just a little of what's in store for this star-studded month.

The Australian Festival of Astronomy

meet the stars - all July 2003



ASTROEXPO



AstroExpo is a must-see for anyone with an interest in the sky and the Universe.

For four days only - Friday 18 July to Monday 21 July - you can see new telescope designs, check out awe-inspiring displays from observatories around the world, discover every astronomy book under the sun, and don't miss The Australian Pavilion for special insight into our homegrown technology and expertise. Australia is a leading contender for major forthcoming astronomical projects such as the world's largest scientific instrument: The Square Kilometre Array (SKA) - here's your chance to see why.

Other highlights include:
an inflatable planetarium

8 amazing lectures at the AstroExpo Theatre (Saturday & Sunday) by leading astronomers from around the world talking about all things universal.

daily Ask an Astronomer desk so enthusiasts have the opportunity to ask any question under the sun about astronomy - and

exciting images and videos from NASA and from the Hubble Space Telescope

Entry to AstroExpo is \$10 per adult, \$5 per concession, \$25 per family of 4+. Includes GST.

HALL 5 OF THE SYDNEY CONVENTION & EXHIBITION CENTRE

Friday	11am to 4pm
Saturday	11am to 6pm
Sunday	11am to 5pm
Monday	12noon to 6.30pm

SEAT GRIPPING UNIVERSAL TALKS



Key talks from the world's leading astronomers on the Universe and the implications for Planet Earth.

The State of the Universe - Monday 14 July @ 7pm

¥ Professor Paul Davies, Professor of Natural Philosophy in the Australian Centre for Astrobiology at Macquarie University unfolds the evolution of the Universe;

The Danger from Space - Thursday 17 July @ 7pm

¥ Dr David Morrison, Senior Scientist, NASA Astrobiology Institute, Dr Alan Harris, Senior Research Scientist, Space Science Institute, Colorado and Dr Andrea Milani, University of Pisa discuss the very real asteroid threats that we face from space; and

The Expansion of the Universe - Monday 21 July @ 7pm

¥ Professor Robert P. Kirshner, Clowes Professor of Science, Harvard University reveals how our extravagant Universe is expanding - very fast

HARBOURSIDE AUDITORIUM 2 AT THE SYDNEY CONVENTION & EXHIBITION CENTRE, DARLING HARBOUR

These particular talks cost \$10 per adult/\$5 per concession/\$25 per family of 4+. Book with Nicole on 9241 1478.

LIGHTS OUT FOR THE FESTIVAL OF ASTRONOMY NORTH SYDNEY - FANS 2003



Following its successful debut last year, FANS 2003 is on Sunday 20 July at North Sydney Oval from 6pm to 9.30pm. Entry is free. Refreshments are available.

Brilliant for anyone and everyone who loves viewing the stars, this special evening is hosted by the combined amateur astronomy societies of Sydney and surrounds, and sponsored by North Sydney Council. Local businesses will again turn their building lights and signs off so everyone can truly enjoy the cosmos.

Over 100 telescopes, many handmade, will be on-hand to view the many exciting sights in the southern sky, especially around the Southern Cross which will be exceptionally favourably placed high in the south. These sights include the magnificent double star Alpha Centauri, the beautiful Jewel Box star cluster and Omega Centauri, which is a ball of millions of stars that are as old as our galaxy.

Avid amateur astronomers will explain how to find constellations and other sights in the sky. There will also be informative displays, beautiful colour images by astronomical photographer Dr David Malin on a giant screen and interesting astronomical talks.

ASTRONOMICAL EXPERTS SPEAK IN PARRAMATTA - IS THERE LIFE OUT THERE?



Parramatta City Council hosts two **FREE** talks at the Lennox Theatre in the Riverside Theatre Complex.

Mars: The Inside Story of the Red Planet - Friday 18 July @ 8pm

Heather Couper and Nigel Henbest discuss the idea of life on Mars. Based on their book *Mars: The Inside Story of the Red Planet*, and raise many of the mysteries that surround the enigmatic Red Planet.

Why, for instance, have so many spacecraft destined for Mars failed in spectacular fashion? ...this is a talk about what happens when humankind begins to push back the boundaries.

Extraterrestrial Intelligence - Sunday 20 May @ 5pm

Dr. Jill Tarter from the SETI Institute talks about **Extraterrestrial Intelligence**. She explains how the search for

Extraterrestrial Intelligence is not science fiction but science fact. That the hunt to find evidence of intelligent creatures elsewhere in the Universe is one of our most exciting challenges.

This is both an eye- and mind- opening talk.



CALENDAR OF EVENTS



JULY	TIME	EVENT	DESCRIPTION	VENUE
Daily	6.15pm & 8.15pm	Night Viewings & 3D Theatre		Sydney Observatory
		Space: beyond this world Exhibition		Powerhouse Museum
1 to 27		Digistar 3 SP Planetarium		Powerhouse Museum
5 to 20		School Holiday Program		Sydney Observatory & Powerhouse Museum
1	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
2	8.15pm	Guided Night Tours		Sydney Observatory
3	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
4	8.15pm	Guided Night Tours		Sydney Observatory
5	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
6	5.30-7.30pm	A Poetic Journey into the Cosmos		Sydney Observatory
7	2pm	Dreaming Stories of the Constellations Workshop		Sydney Observatory
8	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
9	6.15-10pm	The Legend of how Sagittarius challenged Scorpius		Sydney Observatory
10	11am-3pm	Create a Martian		Sydney Observatory
11	7pm	Dr David Malin	The Wond'rous Glory of the Stars	Powerhouse Museum
12	2pm	Prof Bryan Gaensler	New light on dead stars	Powerhouse Museum
13	2pm	Heather Couper/Nigel Henbest	Mars: The inside story of the Red Planet	Sydney Observatory
14	7pm	Prof Paul Davies	The State of the Universe	Harbourside Auditorium 2
15	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
16	7-9pm	Science in the Pub	Life, the Universe & everything - debate with Fred Watson and David Malin	Harlequin Inn, Harris Street, Pyrmont
17	7pm	Drs David Morrison, Alan Harris & Andrea Milani	Danger from Space: Are Near Earth Objects a catastrophe waiting to happen?	Harbourside Auditorium 2
18	12.45pm	Live Cross to South Pole		Hall 5, Sydney Convention & Exhibition Centre
	6.15-10pm	The Legend of how Sagittarius challenged Scorpius		Sydney Observatory
	8pm	Heather Couper/Nigel Henbest	Mars: The inside story of the Red Planet	Lennox Theatre, Riverside Theatre, Parramatta
18 to 21		ASTRO EXPO		Hall 5, Sydney Convention & Exhibition Centre
19	12noon	Prof Carlos Frenk	Dark matter, dark energy and the visible universe	Darling Harbour
	1pm	Dr Robert Walsh	Basking in the sunshine: a new encounter with our closest star	
	2pm	Dr Paul Murdin	The cosmic history of water	
	3pm	Suzanne Débarbat	The search for longitude - the French view	
	6-8pm	Beatlemania Concert & Night Telescope Viewings		Cockle Bay, Darling Harbour
20	12noon	Prof Ray Jayawardhana	New Worlds in the Making - the Birth of Planets	Hall 5, Sydney Convention & Exhibition Centre
	1pm	Dr David Crawford	Who has stolen the Milky Way? / Light Pollution	Darling Harbour
	2pm	Prof Donald Kurtz	Songs of the Stars - the real music of the spheres	
	3pm	Prof Joel Primack/Nancy Abrams	Concert & Talk: Experiencing the Cosmos symbolically and musically	
	12.30pm	Formal Opening of Scientific Memorial to Radio Astronomy at Dover Heights	In commemoration of outstanding astronomical discoveries made at Dover Heights	Rodney Reserve, Dover Heights
	5pm	Dr Jill Tarter	Search for Extraterrestrial Intelligence - Science Fact not Science Fiction	Lennox Theatre, Riverside Theatre, Parramatta
	6pm-9.30pm	FANS 2003	Over 100 telescopes, guides, talks and displays	North Sydney Oval, Miller Street
21	7pm	Prof Bob Kirshner	The Extravagant Universe - exploding stars, dark energy and the accelerating cosmos	Harbourside Auditorium 2
22		Astronomical Concepts	10 week course covering advanced concepts in astronomy	Sydney Observatory
23	9am-6pm	Industry Day	Meet key decision-makers in world astronomy	Hall 5, Sydney Convention & Exhibition Centre
24		Astronomical Concepts	10 week course covering advanced concepts in astronomy	Sydney Observatory
	10am-4pm	Schools Day at AstroExpo	Day talks, exhibits and films for Secondary students	Hall 5, Sydney Convention & Exhibition Centre
25	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
26	9am-4.30pm	Teachers Day Workshop	Stimulating for science teachers. No astronomy expertise necessary.	Powerhouse Museum
27	Continuous	Digistar 3 SP Planetarium		Powerhouse Museum
28	8.15pm	Guided Night Tours		Sydney Observatory
29	8.15pm	Guided Night Tours		Sydney Observatory
30	6pm	Dr Robert Walsh	Basking in the sunshine: a new encounter with our closest star	Squires Centre & Planetarium, Squires Way, Wollongong
31	8.15pm	Guided Night Tours		Sydney Observatory

Free entry to AstroExpo and the three public talks for IAU GA delegates

for more information www.astronomy2003.com

IAU General Assembly Sydney 2003

Associated Public Events Subcommittee

Report

Summary

The National Organising Committee felt that it was important to use the opportunity of the General Assembly being in Sydney to boost public interest in astronomy. It set up the Associated Public Events Subcommittee (APES) for this purpose.

The subcommittee held a whole range of highly successful events for the public in conjunction with the General Assembly under the umbrella of the Australian Festival of Astronomy. These events included a series of talks by leading astronomers from around the world before and during the General Assembly, a large viewing night conducted by amateur astronomers and a conference for amateur astronomers. Talks were held not only in central Sydney, but in the western suburbs of Sydney and around the country. Almost 30,000 people attended these events.

Background

APES held its first meeting on 20 November 2000, two years and eight months out from the GA. It was immediately established that the subcommittee would aim to organise an ambitious program of activities. Also that this program would not be held solely in central Sydney, but in the west of Sydney, in regional areas and in main centres around the country.

The first and subsequent early meetings were devoted to brain-storming. Numerous ideas, such as the following, were considered:

- ◆ National star relay – five parties of astronomers travelling the country and converging on Sydney
- ◆ A trip around regional areas on NSW and Queensland using a DC3 plane
- ◆ Television debate with media personalities and astronomers
- ◆ Conference for amateur astronomers
- ◆ Exhibitions on astronomy
- ◆ Public lectures
- ◆ Large public viewing night in central Sydney
- ◆ ‘Talk to an astronomer’ telephone question answering service staffed by a ‘call centre’ of postgraduate students

Many of these ideas were further refined for inclusion in the final program of the Australian Festival of Astronomy during the 38 meetings of the subcommittee. Some culling of the ideas was also necessary as constraints on funding and on resources became better defined as the time of the GA came closer.

Funding

Funding of \$7500 was obtained from the Donovan Trust to hire a consultant to assist in planning the events. The Donovan Trust assists in astronomy education in Australia; this was their largest ever grant. The position was widely advertised and Mr David Ellyard was hired after considering the applications and after interviews with selected applicants. Mr Ellyard's role eventually focused on organising the complex touring astronomers program.

Further funding of \$4180 was obtained from the British Council Australia for the travelling astronomers program. Obviously this source of funding restricted the tours to astronomers from Britain, but that did not turn out to be a serious constraint. The amount from the British Council was supplemented by \$800 from the NOC.

The cost of \$20,000 for the publicist was also provided by the NOC. It also provided \$400 to pay for gifts for speakers.

The subcommittee

Nick Lomb chaired the subcommittee and was responsible, inter alia, for organising the speaker program in Sydney, liaising with amateur astronomers and maintaining a webpage for the public events. Tony Turtle took the minutes of the subcommittee meetings as well as the meetings with amateur astronomers. David Ellyard was hired as a consultant under the Donovan Trust grant, but stayed on the subcommittee after the funding ran out; he organised the touring astronomers program. Rob Hollow was in charge of the Astronomy Day for Teachers held in conjunction with IAU Commission 46 on the Teaching of Astronomy. Michael Burton arranged the Astronomy on the Go program using separate resources from his own organisation, the University of NSW. Others who provided valuable input were Helen Sim, Graeme White, Jamie Biggs via telephone from Perth and John Lattanzio via telephone from Melbourne. Wayne Orchiston and Alan Vaughan assisted with occasional useful advice.

The AstroExpo

The NOC decided to open up the professional exhibition held at the General Assembly to the public. This became the AstroExpo over four days in the middle of the General Assembly. Apart from the exhibits for the conference participants there were a few exhibits specifically for the public: an amateur astronomy booth, a blow-up Starlab planetarium provided by the University of NSW, an Ask an Astronomer desk arranged by the subcommittee and a booth from Sydney Observatory. As well there was a 150-seat theatrette with back-to-back talks from 12 noon to 4 pm on the Saturday and Sunday of the AstroExpo.

Amateur astronomers

APES invited representatives of all local amateur astronomical societies to a meeting on 5 February 2001 to explore their involvement in the General Assembly. A group of enthusiastic amateurs came together and over 26 meetings explored a range of options under the guidance of Nick Lomb and Tony Turtle representing APES.

The main event was a telescope viewing night for the general public with telescopes provided and staffed by amateurs from the various clubs. In a search for suitable

locations for the viewing night contact was made with North Sydney Council, which offered the use of its sporting oval and the associated function centre at no charge. Advantages of this location included the availability of toilets and food outlets capable of handling large numbers of people as well as good transport links. Moreover, the council assumed public liability for the event, which was a crucial undertaking.

A test run of the Festival of Astronomy North Sydney (FANS) in June 2002 was a great success with over 3000 people attending. The FANS night during the General Assembly itself was also successful, though numbers were slightly less due to poorer weather. The organisation was excellent with over 70 telescopes on the darkened oval and a large screen showing David Malin colour sky images. The darkness on the oval was assisted by the cooperation of the surrounding building owners in turning off their rooftop advertising signs. Inside the function centre there were public talks and numerous booths demonstrating astronomy related material.

The other events organised by the amateurs were a one day conference for amateurs with some of the overseas astronomers as speakers and a booth at the AstroExpo.

It should be noted that these meetings with APES have provided the various amateur societies in the vicinity of Sydney with the opportunity to discuss cooperating in various matters especially with regard to public liability insurance. These meetings are planned to continue as are annual FANS nights.

The Touring Astronomers program

This program was mainly funded by the British Council Australia and allowed presentations by astronomers attending the General Assembly in eight different centres around Australia. In this way the Festival of Astronomy extended over much of the country not just the city holding the General Assembly. A separate report is attached.

Publicity

Paula Opfer from The Axis Public Relations and Marketing Company was hired to create publicity for the Australian Festival of Astronomy and the AstroExpo. Working with Helen Sim who was in charge of publicity for the General Assembly itself and Nick Lomb, she arranged a media launch for the festival and the GA. She prepared a media kit for the festival with a large range of releases on the speakers and other events as well as producing flyers and arranging a website specifically for the Festival of Astronomy. A separate report is attached.

Astronomy on the Go

The idea of regional astronomy tours was taken up by Michael Burton, a member of the subcommittee. He organised the tours using students and funding from the University of NSW. In three separate tours before the General Assembly, the students gave 130 presentations to an audience of about 10,000 people. These presentations are not listed in the appendix as a separate report is attached.

Discussion

Through hard work by a limited number of people the General Assembly boosted the profile of astronomy with the public in Sydney and around Australia. This boost was directly through people attending lectures, the telescope viewing night or a planetarium presentation or indirectly through the large number of media reports.

The only event that was not a full success was the AstroExpo. Numbers of public visitors to the exhibition were disappointingly low – less than 1000 in total – and most of these came specifically to hear the talks on the weekend. It is clear that it is insufficient to put on an exhibition without the means of alerting and interesting people about the opportunity of visiting. Unfortunately, the AstroExpo was not a ‘news’ item that the media was willing to cover for free. It could only have been promoted with a significantly large advertising budget, as happens with other exhibitions like the Boat Show mounted at the same Darling Harbour venue.

Apart from the AstroExpo, all other events went well – they took place as planned and advertised and were enthusiastically received by the audiences. The care in selecting good speakers covering a wide range topics relating to modern astronomy was highly worthwhile, as was the many years of work in planning the various events.

The subcommittee would like to thank all speakers who willingly participated in the Festival of Astronomy and gave such excellent talks.

**Prepared by Nick Lomb
1 September 2003**

APPENDIX 1: Listing of events

Virtual reality planetarium

Date	Event	Location	No.
June 21 to July 27	Digistar 3 SP Planetarium	Powerhouse Museum	12,744

Talks before the General Assembly

Date	Event	Location	No.
Friday July 11 7.00 pm	Inaugural Allison-Levick public lecture by Dr David Malin on "The Wond'rous Glory of the Stars"	Coles Theatre Powerhouse Museum	280
Saturday July 12 2.00 pm	Public lecture by Dr Bryan Gaensler	Coles Theatre Powerhouse Museum	120
Sunday July 13 2.00 pm	Public lecture by science writers and broadcasters Heather Couper and Nigel Henbest on "Mars: The Inside Story of the Red Planet"	Sydney Observatory	170

Amateur astronomers

Date	Event	Location	No.
Sunday July 13	"Pushing the limits" conference for amateur astronomers	Mason Theatre, Macquarie University	100
Sunday July 20 6.00 pm	Festival of Astronomy North Sydney, a public viewing	North Sydney Oval	2075

Talks during the General Assembly

Date	Event	Location	No.
Monday July 14 7.00 pm	Harley Wood lecture by Professor Paul Davies, Professor of Natural Philosophy in the Australian Centre for Astrobiology at Macquarie University on "The State of the Universe". Talk moderated by Robyn Williams	Darling Harbour Conference Centre	500
Thursday July 17 7.00 pm	Public forum with Dr Alan Harris from the Space Science Institute Colorado,	Darling Harbour Convention Centre	300

	Dr Darling Harbour Convention Centre Andrea Milani from the University of Pisa and Dr David Morrison from the NASA Astrobiology Institute on "The Danger from Space: Are Near Earth Objects a Catastrophe Waiting to Happen?" Talk moderated by Karl Kruszelnicki		
Monday July 21 7.00 pm	Public lecture by Dr Robert Kirshner on "The Extravagant Universe-- exploding stars, dark energy, and the accelerating cosmos". Talk moderated by John Doyle	Darling Harbour Conference Centre	450

Teachers

Date	Event	Location	No.
Saturday July 26	Astronomy Day for teachers	Powerhouse Museum	41

Talks in Western Sydney

Date	Event	Location	No.
Friday July 18 8.00 pm	Public lecture by science writers and broadcasters Heather Couper and Nigel Henbest on "Mars: The Inside Story of the Red Planet"	Riverside Theatre Parramatta	250
Sunday July 20 5.00 pm	Public lecture by Dr Jill Tarter on "SETI: Science Fact, Not Fiction"	Riverside Theatre Parramatta	220

Talks at the AstroExpo

Date	Event	Location	No.
Saturday July 19 12 noon	Professor Carlos Frenk on "Dark Matter, Dark Energy and the Visible Universe"	Hall 5 Darling Harbour Conference Centre	120
Saturday July 19 1.00 pm	Dr Robert Walsh on "Basking in the Sunshine: A New Encounter with our Closest Star"	Hall 5 Darling Harbour Conference Centre	120
Saturday July 19 2.00 pm	Dr Paul Murdin on "The Cosmic History of Water"	Hall 5 Darling Harbour Conference Centre	120

Saturday July 19 3.00 pm	Dr Suzanne Débarbat on "The Search for Longitude - the French View"	Hall 5 Darling Harbour Conference Centre	120
Sunday July 20 12 noon	Professor Ray Jayawardhana on "New Worlds in the Making: The Birth of Planets"	Hall 5 Darling Harbour Conference Centre	120
Sunday July 20 1.00 pm	Dr David Crawford on "Who has stolen the Milky Way?"	Hall 5 Darling Harbour Conference Centre	120
Sunday July 20 2.00 pm	Dr Don Kurtz on "Songs of the stars - the real music of the spheres"	Hall 5 Darling Harbour Conference Centre	120
Sunday July 20 3.00 pm	Professor Joel Primack and Nancy Abrams, combined talk and concert on "Experiencing the Cosmos Symbolically and Musically"	Hall 5 Darling Harbour Conference Centre	40

Talks outside Sydney

Date	Event	Location	No.
Wednesday July 2 7.30 pm	Public lecture by Dr Don Kurtz on "Songs of the stars - the real music of the spheres"	Elizabeth Jolly Lecture Theatre Curtin University PERTH	150
Thursday July 3 6.30 pm	Public lecture by Dr Don Kurtz on "Songs of the stars - the real music of the spheres"	Melbourne Planetarium Scienceworks MELBOURNE	49
Thursday July 17 7.00 pm	Public lecture by science writers and broadcasters Heather Couper and Nigel Henbest on "Mars: The Inside Story of the Red Planet"	Redback Brewery North Melbourne MELBOURNE	50
Tuesday July 2 6.00 pm	Public lecture by science writers and broadcasters Heather Couper and Nigel Henbest on "Mars: The Inside Story of the Red Planet"	Abel Smith Lecture Hall University of Queensland BRISBANE	200
Friday July 25 6.30 pm	Public lecture by science writer and broadcaster Heather Couper on "Mars: The Inside Story of the Red Planet"	Historic Council Chambers WAGGA	120
Friday July 25 7.30 pm	Public lecture by science writer and broadcaster Nigel Henbest on "Mars: The Inside Story of the Red Planet".	Parkes Observatory Visitors Centre PARKES	67

Associated Public Events Subcommittee Report

	Followed by telescope viewing of Mars		
Monday July 28 8.00 pm	Public lecture by Dr Robert Walsh on "Basking in the Sunshine: A New Encounter with our Closest Star"	Canberra Planetarium CANBERRA	51
Tuesday July 29 7.30 pm	Public lecture by Dr Robert Walsh on "Basking in the Sunshine: A New Encounter with our Closest Star"	Mawson Lakes Campus, University of South Australia ADELAIDE	100
Wednesday July 30 6.00 pm	Public lecture by Dr Robert Walsh on "Basking in the Sunshine: A New Encounter with our Closest Star"	Wollongong Science Centre WOLLONGONG	95

ANNEX 8

Report on “Astronomy on the Go” Program

Michael Burton

School of Physics, University of New South Wales

How often do two thousand of the world’s leading astronomers come to one’s country? Not often! So was born the idea for ‘Astronomy on the Go’, to take advantage of the publicity that would be generated by the presence of over two thousand professional astronomers (one quarter of the world’s total) at the International Astronomical Union’s twenty-fifth General Assembly, in order to run a science outreach program, and do our best to stimulate interest in the sciences through our natural wonder about the stars. Over most of Australia, outside the major cities, people are generally aware of the spectacle of the night sky, there being relatively low levels of light pollution over Australia due to the low population density. No time is better to watch the Milky Way than in winter (for visitors from the North – that’s now!), when the centre of the Galaxy passes directly overhead at midnight from the latitude of Sydney. Astronomy on the Go aimed to take advantage of both our natural curiosity about the Universe and the stellar display of the winter sky to motivate a public outreach program in science.

Astronomy on the Go was actually being run by science students from the University of New South Wales. Equally as important as bringing science to the public is the training of scientists with the skills to talk about their work in a comprehensible matter, and giving them the confidence to do so. We must hope that they can do better than the current generation of scientists in communicating the importance of science to the functioning of modern society, especially given the low levels of science literacy apparent across much of it. A large part of the program involved training some of the current crop of university students so that they could go out and talk about science in an entertaining and informative way. Astronomy on the Go thus started during the final session of the 2002 university year with the recruiting of students for the program. Around twenty-five put their hands up, with in the end some twenty participating. Some were postgraduates doing PhDs in astronomy, others were undergraduate physics students, while yet others were studying science communication, majoring in the biological sciences and not studying the physical sciences at all. Indeed one of the successes of Astronomy on the Go has been the bringing together of students from different disciplines, and their learning from each another through the different skills they each brought to the program.

Astronomy on the Go consisted of four distinct elements. The last two of these took place during the GA. These are two Science in the Pub events, on July 16th and 23rd, in the Harlequin Inn, just five minutes walk from the Convention Centre, and a special Schools' Day in the Convention Centre on the 24th (during the time of the GA itself). However the major part of Astronomy on the Go has been the three tours conducted of regional New South Wales, visiting high schools during the daytime and conducting a 'Starry Starry Night' presentation in the evenings.

Before we could head out on the tours, though, we needed to learn what to do. So the first part of the program was to visit, in May this year, six schools around the Sydney metropolitan area. And before that we had to practice our presentations so that we wouldn't appear too raw to the school children! There were two types of presentations we gave, talks about the solar system or about the stars, and project SEARFE. Our talks were fairly conventional in nature, pretty picture slide shows of everybody's favourite astronomical objects. Project SEARFE was rather different, however, with the focus being on radio astronomy. It was an initiative from the University of Sydney, and then conducted with extensive support from the CSIRO (Australia's national science organisation), and aimed at the final year physics classes at school (the HSC year in Australia). A broadband, omni-directional radio antenna + receiver + PC was used to conduct an experiment measuring the radio emission background at the school, and incorporated into a presentation which discussed radio waves and radio astronomy, while featuring some of the key physical ideas associated with their detection and measurement. As part of the exercise the students conducted two 'standard' measurements of their radio frequency environment and then were given a disk with their data for them to upload on to the Astronomy on the Go website, for comparison with similar scans made at schools right around Australia. As you may have guessed by now, there was also a deeper message being given here, that Australia's RFI environment is among the lowest on our planet, with large areas of virtually uninhabited land over much of the continent, which also provides the most suitable location for the next generation of radio telescopes, LOFAR and the SKA.

To come back to the outreach program, our first task then was to prepare the presentations and practice them amongst ourselves, before then heading off to schools around the Sydney metropolitan district where we tested ourselves against our audience, the high school students. It was a learning experience all round! Most classes were very receptive to us, and the questions would flood in. But not with Year 10 classes! At that age it is just not cool to communicate with your teachers or to ask questions. Didn't we all pass through such a bellicose stage when we were about sixteen?!

The tours started in early June and lasted until just before the GA started. We conducted three tours, and imaginatively named them the Southern, the Western

and the Northern tours for the directions they set off from Sydney. A different group of students ran each tour, travelling around in a van which affectionately acquired the name “Daisy”, through a story which can only be told by the students, and involves some of the bovine life encountered along the way. Each tour visited around five country towns along their cardinal directions, spending the days at high schools and the evenings with public presentations. At each school we would end up giving typically five or six presentations through the day. They would range from small groups of a dozen HSC-year students for SEARFE, to individual classes for some talks, to an entire year of 100 or more students for others. The latter could be quite challenging at times, especially if there was no microphone to drown out the sounds of excited chatter!

The evening entertainment was a presentation we called “Starry Starry Night”, and featured an interactive discussion about the heavens, while viewing the changing colours of the sky from sunset until it became fully dark. We would talk about some of the features apparent in the sky, and use them to include a discussion of how modern science came into being through the process of quantitative measurement and analysis pioneered by the Renaissance astronomers. We would also bring in some of the cultural aspects of the night sky, legends from past civilisations, including some aboriginal mythology. In places where the sky was truly dark we were able to point out that most spectacular, and unexpected, “constellation”, the Emu of aboriginal legend. If you get the chance to get outside Sydney look for it yourself, for it is quite striking, made up of the dark clouds spread along 30° of the Milky Way, from the Coalsack in Crux, to Sagittarius. Every Starry Starry night presentation had to be different, tailored for the local conditions. Sometimes we were lucky enough to be at an Observatory on a dark sky site, and the true wonder of the southern sky could be seen. Other sites were in town parks with streetlights around, and at other times we would be foiled by clouds. So we had a number of indoor presentations in readiness to complement the sky viewing, using planetarium software to show the motions in the sky, and a portable planetarium, as well as slide shows and the SEARFE equipment.

One of the activities we conducted is one you can join in yourself – a star counts exercise! Using a number of star maps drawn to different magnitudes of the South Cross to Pointers region, familiar to just about every Australian, the object was to find just how dark the sky was at your home by matching the charts to the sky above and seeing which one most closely resembles it. Download the activity sheet from the Astronomy on the Go website (see below for the URL), then enter the results through a web form, and compare with what others have found.

The website has been one of the features of Astronomy on the Go, providing not only the detailed itinerary for the tours and the program of presentations, but as a means of communication amongst the participants. Read the daily Blog that the students wrote on each tour, and then view the extensive picture gallery they compiled. Databases were also set up so that participants in SEARFE and the Dark Skies projects could also download their results and compare with

participants elsewhere, and find the darkest sites in the State, both for radio astronomy and for optical astronomy.

Putting Astronomy on the Go together has been an exhaustive process, involving much more than what was naively anticipated when we started last year. By the time we finish there will have been around 130 public presentations, of one sort or another, given to a total audience of about 10,000. Has it been worth it? Yes! Just to look at the students, exhausted but enthused, after a days talking astronomy to a diverse range of people is to know that it has worked! Producing quantitative statistics to satisfy an accountant may be another matter, but we all have no doubt that we've managed to inspire more than a few people along the way on our perambulating route around New South Wales!

Participants: UNSW staff–Michael Burton, Will Rifkin, Anita Pavic, Amy Winter. UNSW students–Marton Hidas, Tracey Hill, Steven Longmore, Cormac Purcell, Yael Augarten, Beau Bellamy, Michael Day, Mathias Kanzelsperger, Dorota Kubuj, Carmen Li, Juanita Mintono Phang, Jason Moore, Sherlin Ng, Dean Nicolson, Kylie Rivero-Glover, Liz Tay, Uwe Zell.

Metropolitan Schools: Catherine McCauley, Wenona, Mt Carmel High, Heritage College, Newington College, South Sydney High

Southern Tour: Batemans Bay, Nowra, Goulburn

Western Tour: Bathurst, Kelso, Mudgee, Dubbo, Cowra, Lithgow

Northern Tour: Taree, Port Macquarie, Westport, Coffs Harbour, Armidale, Tamworth

Science in the Pub: July 16th and 23rd at the Harlequin Inn.

Schools Day: July 24th in the Sydney Convention Centre.

Astronomy on the Go website: www.phys.unsw.edu.au/outreach

Sponsors: The U Committee and the Faculty of Science of the University of New South Wales.

Pictures: see Astronomy on the Go website for an extensive collection.

Astronomy on the Go in a Nutshell: see below for complete itinerary for the program.

Astronomy on the Go

In a Nutshell

www.phys.unsw.edu.au/outreach

A science outreach program for the

International Astronomical Union General Assembly, Sydney July 2003

Metropolitan Area Visits

May 1: Catherine McCauley School, Five presentations

May 5: Wenona School, Five presentations

May 7: Mt Carmel High School, Four presentations

May 8: Heritage College, Three presentations

May 21: Newington College, Eight presentations

May 30: South Sydney High School, Seven presentations

The Launch

June 4: School of Physics, University of New South Wales

Regional Tours

Southern Tour

June 9: Public Talk, Batemans Bay High School, Michael Burton "Our place in the Cosmos" (Steve Wallace, 4472-7233)

June 10: Batemans Bay High School, Six presentations

June 10: Nowra High School, Three presentations

June 11: Nowra High School, Seven presentations

June 11: Starry Starry Night, Nowra High School (Vicki Templeton, 4421-4977)

June 12: Starry Starry Night, Goulburn High School (Vero Joseph, 4821-4022)

June 13: Goulburn High School, Six presentations

Western Tour

June 16: Bathurst High School, Six Presentations

June 16: Starry Starry Night, Bathurst Observatory (Ray Pickard, 6337-3988)

June 17: Kelso High School, Three presentations

June 18: Mudgee High School, Six presentations

June 18: Starry Starry Night, Mudgee Observatory (John Vetter, 9718-6314)

June 20: Dubbo Senior College, Two presentations

June 20: Dubbo Primary School, Two presentations

June 21: Starry Starry Night, Dubbo Observatory (Peter Nielson, 6885-3022)

June 23: Cowra High School, Four presentations

June 24: Starry Starry Night, Derby Falls Observatory, Cowra (Markham Monk, 6435-1900)

June 25: Starry Starry Night, Lithgow Hill School Oval (Lee Middleton, 6352-1422)

June 26: Lithgow High School, Six presentations

Northern Tour

June 23: Taree High School, Five presentations

June 23: Starry Starry Night, Taree Park (Peter Baker, 6552-1166)

June 24: Public Talk, Port Macquarie Observatory, Michael Burton "Stardust, the stuff of life"(Jim Daniel, 6583-1933)

June 25: Westport High School, Seven presentations

June 25: Port Macquarie School of the Air

June 27: Coffs Harbour High School, Six presentations

June 28: Starry Starry Night, Coffs Harbour High School (Giorgio Dal Pozzo, 6652-3466)

June 30: Armidale High School, Three sessions

June 30: Starry Starry Night, Armidale High School (Kevin Birkett, 6772-7466)

July 2: Tamworth High School, Four presentations

July 2: Starry Starry Night, McCarthy Catholic College, Tamworth (Ian Evans 6761-0800)

Science in the Pub

July 16, Harlequin Inn, Pyrmont, “Life the Universe & Everything” with Fred Watson and David Malin, compered by Alf Conlon

July 23, Harlequin Inn, Pyrmont, “What is a Planet?” With Penny Sackett, Pat Roche, Gibor Basri and Chris Tinney, compered by Fred Watson

Schools Day

July 24, Sydney Convention Centre. Talks + IMAX + Expo (Anita Pavic, 9385-7311)

Charley Lineweaver: “Where is the Universe heading?”

Michael Burton: “Stardust—the stuff of life”

Maria Hunt: “The search for life in the Universe”

John Storey: “Astronomy in Antarctica—the quest to build the Earth’s ultimate telescope”

The Team

Academics: Michael Burton and Will Rifkin

Science Student Centre: Anita Pavic and Amy Winter

Postgraduate students: Marton Hidas, Tracey Hill, Steven Longmore & Cormac Purcell

Undergraduate students: Beau Bellamy, Carmen Li, Dean Nicolson, Dorota Kubuj, Helen Zhou, Jason Moore, Juanita Mintono Phang, Kylie Rivero-Glover, Liz Tay, Mathias Kanzelsperger, Michael Day, Sherlin Ng, Uwe Zell, Yael

Augarten

Sponsors

The U Committee, University of New South Wales

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School of Physics, UNSW

SEARFE: U. Sydney, CSIRO, UNSW, UTS, IBM, BAE Systems, Institute of Engineers, Perth Observatory, Australian Geographic

Annex 10

IAU General Assembly Sydney 13-26 July 2003



www.astronomy2003.com

EXHIBITOR LISTING

ASTRO EXPO EXHIBITORS ALPHABETICALLY

ALMA	Stand G38
American Astronomical Society	Stand G04
Amateur Astronomers	Stand G02A
Anglo-Australian Observatory	Stand G08A
Ask an Astronomer	Stand G01B
Astrodomes	Stand TT01
Astronomical Consultants & Equipment Inc.	Stand G36
Astronomical Society of Australia	Stand G12
ATNF	Stand G08B
Australian Antarctic Division	Stand G29
Australian Centre for Precision Optics, CSIRO	Stand G07
Australian SKA Consortium	Stand G19
Blackwell Publishing	Stand TT02
CDS	Stand G26
Connell Wagner	Stand G28
Coonabarabran Shire Council	Stand P14
CSIRO	Stand G02
DA Information Services	Stand G37
EDP Sciences	Stand G02B
EOS & EOST	Stand G05
ESO, European Southern Observatory	Stand G16 & G17
European Southern Observatory	Stand G23, G24 & G25
Gemini Observatory	Stand G09
IAU XXVIth General Assembly, Prague 2006	Stand G31
IPAC / Caltech	Stand G06
James Webb Space Telescope	Stand G32
Kluwer Academic Publishers	Stand G11
LOFAR: The Low Frequency Array	Stand G15
National Astronomical Observatory of Japan	Stand G22
NewScientist Magazine	Stand TT03
Research School of Astronomy & Astrophysics, ANU	Stand G13
SKA: International SKA Secretariat	Stand G20
SKA South Africa	Stand G21
SOFIA/USRA	Stand G03
Starlab	Stand G08
Sydney Observatory/Powerhouse Museum	Stand P10A
Telescope Technologies Limited (TTL)	Stand G14
The Australian Antarctic Division	Stand G29
The Australian Gemini Office	Stand G10
University of Sydney	Stand G18

DEST TECHNOLOGY AUSTRALIA PAVILION EXHIBITORS ALPHABETICALLY

Auspace	Stand P15A
Australian Photonics Pty Ltd	Stand P15B
Australian SKA Consortium	Stand G19
Swinburne University Centre for Astrophysics and Supercomputing	Stand P10B
Connell Wagner Pty Ltd	Stand G28
Laser Micromachining	Stand P12
Research School of Astronomy & Astrophysics, ANU	Stand G13
The Australian Gemini Office	Stand G10
University of New South Wales	Stand G29
University of Sydney	Stand G18

ASTRO EXHIBITORS BY STAND NUMBER

G01B	Ask an Astronomer
G02	CSIRO
G02A	Amateur Astronomers
G02B	EDP Sciences
G03	SOFIA/USRA
G04	American Astronomical Society
G05	EOS & EOST
G06	IPAC/Caltech
G07	Australian Centre for Precision Optics, CSIRO
G08	Starlab
G08A	Anglo-Australian Observatory
G08B	ATNF
G09	Gemini Observatory
G10	The Australian Gemini Office
G11	Kluwer Academic Publishers
G12	Astronomical Society of Australia
G14	Telescope Technologies Limited (TTL)
G15	LOFAR: The Low Frequency Array
G16	ESO, European Southern Observatory
G17	ESO, European Southern Observatory
G20	SKA: International SKA Secretariat
G21	SKA South Africa
G22	National Astronomical Observatory of Japan
G23	European Southern Observatory
G24	European Southern Observatory
G25	European Southern Observatory
G26	CDS
G27	IAU
G28	Connell Wagner Pty Ltd
G29	Australian Antarctic Division
G31	IAU XXVIth General Assembly, Prague 2006
G32	James Webb Space Telescope
G36	Astronomical Consultants & Equipment Inc.
D37	DA Information Services
G38	ALMA
P10A	Sydney Observatory/Powerhouse Museum
P14	Coonabarabran Shire Council
TT01	Atrodomes
TT02	Blackwell Publishing
TT03	NewScientist Magazine

DEST TECHNOLOGY AUSTRALIA PAVILION EXHIBITORS BY STAND NUMBER

Stand G10	The Australian Gemini Office
Stand G13	Research School of Astronomy & Astrophysics, ANU
Stand G18	University of Sydney
Stand G19	Australian SKA Consortium
Stand G28	Connell Wagner Pty Ltd
Stand G29	University of New South Wales
Stand P10B	Swinburne University Centre for Astrophysics and Supercomputing
Stand P12	Laser Micromachining
P15A	Auspace
P15B	Australian Photonics Pty Ltd

ASTRO EXPO EXHIBITOR LISTING

ALMA

Stand G38

Web: <http://www.eso.org/projects/alma/info/partners.html> or <http://www.eso.org/projects/alma/administration/>
or <http://www.nsf.gov/>

The Atacama Large Millimeter Array (ALMA) is an international collaboration between Europe and the North America to build a synthesis radio telescope to operate at millimeter and submillimeter wavelengths. Japan may become a partner, making a truly global collaboration. ALMA will be the largest ground-based astronomy project after VLT/VLTI, and, together with the James Webb Space Telescope (JWST), one of the two major new facilities for world astronomy coming into operation within the next decade.

Comprised of 64 12-meter sub-millimeter quality antennas, ALMA's baselines will extend to 16 km, located on the high-altitude Chajnantor site in Chile. Its receivers will cover the range from 30 to 950 GHz. This is an exceptional site for (sub) millimeter astronomy, possibly unique in the world.

American Astronomical Society

Stand G04

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The American Astronomical Society is the major organization of professional astronomers in the United States, Canada and Mexico. The basic objective of the AAS is to promote the advancement of astronomy and closely related branches of science. The membership, now at approximately 6500, includes physicists, mathematicians, geologists, engineers and other related scientists. The Society publishes the major research journals in the field including the Astrophysical Journal (Letters and Supplements) and the Astronomical Journal. Membership is open to professionals worldwide who are endorsed by two current full members.

Full details at www.aas.org

Amateur Astronomers

Stand G02A

Astronomy is the one area of science where amateurs can make a serious contribution to science, and where many people can enjoy the splendours of the universe, using private, and in some cases, very expensive, personal equipment for their own pleasure. Astronomy captures the imagination of members of the general public, evidenced by the large numbers of people who visit observatories, planetariums and public open nights around the world. Many amateur astronomers join astronomy clubs or astronomical societies to further their hobby, meet and learn from other experienced amateurs, attend lectures by professionals and use society owned equipment and observing sites with fellow amateurs.

Most astronomy clubs organize regular meetings (often with guest speakers), produce regular journals or newsletters, and organize group observing sessions. Some clubs have their own observatory or observing sites or regularly use public or private observatories. Clubs often organize viewing nights for the public and some clubs run public astronomy education programs.

Information on amateur astronomy clubs in Australia can be found at the www.ozastro.org web page.

Anglo-Australian Observatory

Stand G08A

The Anglo-Australian Observatory provides world-class optical and infrared observing facilities for British and Australian astronomers.

The Anglo-Australian Telescope Board is an independent, bi-national authority funded equally by the Governments of Australia and the United Kingdom. The Board's facilities consist of the 3.9-m Anglo-Australian Telescope (AAT) - the largest optical telescope in Australia - and the 1.2-m UK Schmidt Telescope. Both are located at Siding Spring Observatory near Coonabarabran, NSW. The headquarters of the Anglo-Australian Observatory are in the Sydney suburb of Eastwood.

The AAO builds instrumentation for both its own telescopes and for leading facilities around the world, such as the European Southern Observatory's Very Large Telescope, Japan's Subaru telescope and the Gemini Observatory. It has become a world leader in the development of optical fibre systems for astronomy.

Ask an Astronomer

Stand G01B

Members of the public often have questions that they would like to ask: 'What is a black hole and where do you find them?', 'What happened during the Big Bang?', 'Why does the Sun shine and will it ever stop shining?', 'Where do the stars go during the day?' And many more. This is a unique opportunity for people to find out what they always wanted to know, but were unable to ask. The desk is staffed by professional astronomers and astronomy students from 11 am to 3 pm Friday to Sunday and 12 noon to 3 pm on Monday.

Astrodomes

Stand TT01

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Web: www.astrodomes.com

Astrodomes manufacture state of the art observatories. With Astrodomes spherical shape and mouldings for strength, they are aesthetically pleasing and almost sculptural in appeal. Astrodomes are robust, providing protection and security for your equipment, making for a complete observatory. The shutter is powered by batteries fixed to the dome, so that it can be operated at any time. The batteries can be recharged by solar cells each day. The dome rotation apparatus is best mains powered. Shutter movement and dome rotation uses module number 3 rack and pinion working a unique wheel arrangement, making for quiet operation. All operations can be controlled remotely.

Astronomical Consultants & Equipment Inc.

Stand G36

P.O. Box 91946
Tucson AZ 85752-1946
USA
Tel: + 1 520 219 8722
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Web: www.astronomical.com

Astronomical Society of Australia

Stand G12

University of New South Wales
Sydney NSW 2052
Australia
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Web: <http://www.astronomy.org.au>

The Astronomical Society of Australia (ASA) was formed in 1966 as the organisation for professional astronomers in Australia. The ASA, together with the National Council for Astronomy, is hosting the IAU General Assembly. Membership of the ASA is open to people capable of contributing to the advancement of astronomy or a closely related field. The Society currently has around 350 members, including active professional astronomers, postgraduate students, retired astronomers, distinguished amateur astronomers and corporations. The Society publishes an ISI-listed, fully refereed journal for new and significant research in astrophysics, known as *PASA*. With a strongly international author base, *PASA* maintains a focus on areas of research relevant to Australian astronomy. From 2002, *PASA* has moved to exclusive online production. *PASA*'s speed of publication, plus wide distribution, offer significant advantages for authors, readers and subscribers. Visit this stand for information on the ASA and *PASA*. A computer will be connected to the internet to browse the *PASA* website (<http://www.astronomy.org.au>), plus free sample CDs with *PASA* papers will be distributed.

ATNF**Stand G08B**

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The Australia Telescope National Facility (ATNF) is a division of CSIRO, Australia's largest research organisation, and is one of the world's leading radio observatories. It operates the Australia Telescope, a set of eight individual radio telescopes, as a national research facility for use by Australian and international researchers.

Six of the telescopes make up the Australia Telescope Compact Array (ATCA), located at the Paul Wild Observatory near the town of Narrabri. Each of these antennas has a reflecting surface with a diameter of 22 metres. New cutting-edge receivers have made the Compact Array the first millimetre-wave synthesis telescope in the Southern Hemisphere, enabling astronomers to observe the richest part of the Galactic Plane and the nearest star-forming galaxies, the Magellanic Clouds, in unprecedented detail.

The Australia Telescope also includes another 22-metre antenna, known as the Mopra telescope, which is located near Coonabarabran, NSW, and the Parkes 64-metre radio telescope, near the town of Parkes, NSW. The Parkes telescope has been successfully operated since 1961. Recent upgrades to accommodate a 13-beam focal plane array have maintained its world-class position as a state-of-the-art instrument.

Australian Centre for Precision Optics, CSIRO**Stand G07**

CSIRO, Division of Telecommunications & Industrial Physics:
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Email: acpo@tip.csiro.au
Web: <http://www.tip.csiro.au/IMP/Optical/index.htm>

"Supply of precision custom optics in a range of materials, including glass, ceramics, crystals and metals. Products include super-polished flats and long radii surfaces to $\lambda/500$, precision spheres to 30nm asphericity, cube corners, beam-splitters, LiNbO₃ etalon tuneable narrow band filters, multi-layer dielectric and metal coatings, photonics components. Facilities include fabrication, metrology and coatings. New products include super polishing of sapphire and surface figuring by ion beam etching and selective coating."

CDS**Stand G26**

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Centre de Données astronomiques de Strasbourg (CDS)

The Strasbourg astronomy Data Center (CDS) develops reference services (SIMBAD, VizieR, Aladin) which are widely used by the world-wide astronomy community. The CDS services act as a hub towards other on-line services such as observatory archives, the ADS and electronic journals. The new functionalities of the services will be displayed. CDS also actively participates in the international VO projects (on display at the IVOA booth), in particular it is a member of the Astrophysical Virtual Observatory team. <http://cdsweb.u-strasbg.fr/question@simbad.u-strasbg.fr>

**Blackwell Publishing
Stand TT02**

**Coonabarabran Shire Council
Stand P14**

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Coonabarabran NSW 2357
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Coonabarabran is the 'Astronomy Capital of Australia'. With 70 per cent of night skies clear and the Galactic Centre of the Milky Way hovering overhead, astronomers from all over Australia, and the world, anxiously await their turn at Siding Spring Observatory, atop the magnificent Warrumbungle ranges. The nine telescopes on the premises include the largest optical telescope in Australia, the 3.9 m Anglo-Australian telescope, world famous for its quality of optics and technology. Skywatch Observatory, open to the public every night for guided telescope viewing and Siding Spring Observatory are the most accessible optical observatories in Australia and promise the total astronomical experience. This display will include information about the many attractions, galleries, restaurants, accommodation and encounters available in the area. Delegates can have their photo taken with Dr Fred Watson, Astronomer in Charge of the Anglo Australian Observatory at Siding Spring. Also on display will be some world-famous astronomical photographs taken from Siding Spring by David Malin. www.coonabarabran.com

**CSIRO
Stand G02**

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Australia's CSIRO is one of the world's largest and most diverse global scientific research organisations, employing over 6300 staff distributed amongst 20 research divisions throughout Australia, and overseas. CSIRO conducts strategic research, contract R&D, consultancy and specialised testing services, and licensing and exploitation of IP. We serve a wide range of industry sectors - Agribusiness, Energy and Transport, Environment and Natural Resources, Information, Communication and Services, Manufacturing, Mineral Resources, and Health. Using the depth and breadth of our R&D capabilities, we aim to provide new ways to improve the quality of life, and the economic and social performance of industry.

**DA Information Services
Stand G37**

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DA Information Services is a leading distributor of academic, technical and professional books, serials and electronic media products. DA supplies the resource needs of libraries, departments, companies and individuals throughout Australia, New Zealand and Papua New Guinea. Any book you need from any publisher worldwide and what you can't find we will find for you. Visit us at stand G37 to browse through a vast range of titles and purchase at the best prices or log onto DA's online bookshop at www.dadirect.com.

EDP Sciences**Stand G02B**

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EDP Sciences publishes scientific texts in the form of journals, books and web-sites. Closely linked to the scientific world, it contributes to the communication and the diffusion of Science to specialized and non-specialized audiences. The editorial work of the company covers the fields of astrophysics, theoretical and applied physics, materials, chemistry, life sciences, mathematics as well as cross-disciplinary fields. It offers its authors and readers a specialized editorial platform whose choices and quality are guaranteed by a scientific editorial committee.

Its main international journal "Astronomy & Astrophysics", publishes papers on all aspects of astronomy and astrophysics: theoretical, observational and instrumental, independently of the techniques used to obtain the results.

EOS & EOST**Stand G05**

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Electro Optic Systems (EOS) and EOS Technologies (EOST) are part of the EOS Group of companies. Based in Canberra, Australia and Tucson, Arizona they provide turnkey observatory systems for astronomy and satellite laser ranging. Systems include telescopes and instruments, enclosures, integrated control systems and software (including remote and autonomous operation), plus site works, installation and commissioning services. Telescopes from 0.75 meters to 2.0 meters have been designed, built and commissioned by the group. Designs for 3 to 6 meter class telescopes and observatories are currently in development.

ESO, European Southern Observatory**Stands G16 & G17**

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Germany

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Web: <http://www.eso.org/>

ESO is the intergovernmental European research organisation for Astronomy. It is supported by Belgium, Denmark, France, Germany, Italy, the Netherlands, Portugal, Sweden, Switzerland and the United Kingdom. More countries are expected to join during the next years. ESO operates observational facilities at two sites in northern Chile: The Paranal Observatory with the world's prime optical/infrared astronomical facility, the Very Large Telescope Array (VLT). At the La Silla Observatory state-of-the-art medium-sized telescopes are in operation. More than 1300 proposals are made each year for the use of the ESO telescopes.

ESO is the European partner in the Atacama Large Millimetre Array (ALMA) project of 64 12-m telescopes for observation in the mm/sub-mm wavelength domain. Furthermore, conceptual studies for a 100-m optical telescope, OWL, are being undertaken by ESO.

European Southern Observatory**Stands G23, G24 & G25**

IVOA

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85748 Garching

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Web: <http://www.ivoa.net>

The Virtual Observatory will be a system that allows astronomers to interrogate data centres in a seamless and transparent way, which provides new powerful analysis tools within that system, and which gives data centres a standard framework for publishing and delivering services using their data. This is made possible by standardisation of data, by standardisation of data exchange methods, and by the use of service registries. The International Virtual Observatory Alliance (IVOA) was formed in June 2002 to facilitate the international coordination and collaboration necessary to enable the international utilisation of astronomical archives as an integrated and interoperating Virtual Observatory. (<http://www.ivoa.net>)

Gemini Observatory Stand G09

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Web: <http://www.gemini.edu>

The Gemini Observatory is an international collaboration that has built two identical 8-meter telescopes. The Frederick C. Gillett Gemini Telescope is located on Mauna Kea, Hawai'i (Gemini North) and the other telescope on Cerro Pachón in central Chile (Gemini South), and hence provide full coverage of both hemispheres of the sky. Both telescopes incorporate new technologies that allow large, relatively thin mirrors under active control to collect and focus both optical and infrared radiation with unprecedented resolution.

The Gemini Observatory provides the astronomical communities in each partner country with state-of-the-art astronomical facilities that allocate observing time in proportion to each country's contribution. In addition to financial support, each country also contributes significant scientific and technical resources. The national research agencies that form the Gemini partnership include: the US National Science Foundation (NSF), the UK Particle Physics and Astronomy Research Council (PPARC), the Canadian National Research Council (NRC), the Chilean Comisión Nacional de Investigación Científica y Tecnológica (CONICYT), the Australian Research Council (ARC), the Argentinean Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) and the Brazilian Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq). The Observatory is managed by the Association of Universities for Research in Astronomy, Inc. (AURA) under a cooperative agreement with the NSF. The NSF also serves as the executive agency for the international partnership.

IAU XXVIth General Assembly, Prague 2006

Stand G31
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Fax: + 420 224 942 550
Email: astro2006@cbttravel.cz
Web: www.astronomy2006.com

The XXVIth General Assembly of the International Astronomical Union (IAU) will be held in Prague, the Czech Republic, a city with a rich astronomical history dating back to the middle of the XIVth century, when the oldest central European university was established there.

All details for planning your trip to Prague can be found on the web site: www.astronomy2006.com

IPAC/Caltech

Stand G06
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The Infrared Processing and Analysis Center (IPAC) at the California Institute of Technology is NASA's multi-mission center of expertise for infrared and submillimeter astrophysics. IPAC carries out large-scale scientific data processing tasks of vital importance to NASA's astronomy programs, develops and maintains data archives with access and analysis tools, offers scientific expertise on various projects to scientific investigators, and conducts education and outreach efforts aimed at the general public. Active missions and services include 2MASS, GALEX, the Keck Interferometer, as well as IRSA and NED.

Future missions include SIRTf, Herschel, SIM, WISE, and TPF. <http://www.ipac.caltech.edu>

James Webb Space Telescope

Stand G32

James Webb Space Telescope

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The James Webb Space Telescope (JWST), a new infra-red and spectrographic observatory is being designed by scientists and engineers to shed light on many astronomical mysteries. JWST will be more powerful than any telescope ever built; it will allow us to see even farther into space and time.

JWST will give us detailed pictures of very distant galaxies that formed when the universe was a fraction of its present age. JWST will also study objects that may provide clues about how solar systems and planets formed.

JWST has an expected launch date of 2010, and will succeed the Hubble Space Telescope.

Kluwer Academic Publishers

Stand G11

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LOFAR: The Low Frequency Array

Stand G15

LOFAR will be a major new multi-element, interferometric, imaging telescope designed for the 10-240MHz frequency range. The revolutionary design of LOFAR promises to provide observers with extraordinary capabilities including far higher resolution and sensitivity than any existing low-frequency telescope, the reliability of a telescope containing no moving parts and extreme agility in frequency and pointing via software and digital hardware...

And that's just for starters. Visit this stand for a display of LOFAR's capabilities and to find out more.

National Astronomical Observatory of Japan

Stand G22

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Japan

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As the center of astronomical researches in Japan, the National Astronomical Observatory of Japan (NAOJ) promotes a wide range of observational and theoretical researches and technical developments on astronomy, astrophysics, and related fields. NAOJ also promotes joint researches and open use of observatory facilities (such as Subaru, VERA, and, in the near future ALMA as well) and equipments by foreign and domestic researchers, in addition to supporting the cultivation of young researchers and graduate-level students.

NewScientist Magazine

Stand TT03

NewScientist is the world's leading news weekly reporting on the latest developments in science and technology and its impact on the way we live. Winner of more than 40 awards for editorial excellence, no other magazine offers the same diverse coverage of science and technology news.

Every week, NewScientist distills the key developments and reports them in an accessible way, highlighting the implications for industry, politics, the economy, individuals and the environment.

It is essential reading for people who want to know what's happening, why and how it will affect the world around them.

SKA: International SKA Secretariat

Stand G20

International Square Kilometre Array Consortium

Square Kilometre Array

ASTRON

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Web: www.skatelescope.org

New developments in all fields of astronomy have brought the current generation of astronomers to the brink of probing the origin and evolution of the Universe. To attack these questions directly, a new generation of astronomical facilities is needed with a revolutionary new instrument at radio wavelengths playing a critical role. A radio telescope with an effective collecting area more than 30 times greater than the largest telescope ever built will reveal the dawn of galaxy formation, as well as many other new discoveries in all fields of astronomy. A consortium of 35 institutes in 15 countries is engaged in a cooperative research and development program to solve the technical challenges required to build the Square Kilometre Array - a giant radio telescope with a collecting area of one square kilometre.

SKA South Africa

Stand G21

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South Africa

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South Africa has offered to host the biggest radio telescope ever – the Square Kilometre Array, or SKA. South Africa would be the ideal site for the core element of the SKA owing to its location, as well as the capabilities and record of accomplishment to host, support, and contribute to the science that will be generated by this giant radio telescope.

The SKA will be an important addition to a developing network of cutting-edge astronomy projects in Southern African, which includes the Southern African Large Telescope (SALT) at Sutherland in the Northern Cape and the High Energy Stereoscopic System (HESS) gamma ray observatory in neighbouring Namibia.

SOFIA/USRA

Stand G03

NASA/Ames Research Center

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In a unique cooperative program, NASA, the German Aerospace Center (DLR) and an international contractor team are working together to create SOFIA - a 2.5-meter (98.5-inch)-diameter reflecting telescope mounted in a modified Boeing 747SP. SOFIA will be the largest airborne telescope in the world, making observations that are impossible for even the largest, highest ground-based infrared telescopes. The contractor team, lead by the Universities Space Research Association (USRA), is responsible for developing and subsequently operating the observatory for NASA.

USRA will base SOFIA operations at NASA's Ames Research Center at Moffett Federal Airfield near Mountain View, California. With an expected operating lifetime of 20 years or more, it is scheduled to begin science operations in late 2004.

Sydney Observatory/Powerhouse Museum

Stand P10A

Sydney Observatory, Australia's oldest existing observatory, is a museum of astronomy and a public observatory. It is part of a large museum, the Powerhouse Museum, which is a few minutes walk from the Convention Centre. At the Astro Expo the Observatory is showing the Astronomy Powerpack: Sydney Observatory on Tour. This is a kit of astronomy education materials that will be sent to schools in country areas of the state. The exhibit also has some Observatory publications available such as the Sydney Observatory 2003 Sky Guide and Observer and Observed: a pictorial history of Sydney Observatory and Observatory Hill.

Telescope Technologies Limited (TTL)

Stand G14

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Telescope Technologies Limited (TTL) specialises in the design and manufacture of fully automated telescopes, for robotic or conventional operation. All telescopes are state-of-the-art systems. The telescope control system includes effective compensation for the effects of wind buffeting, allowing the telescopes to operate outside a conventional enclosure. Dynamic scheduling software provides unprecedented flexibility and efficiency in robotic operation.

Currently TTL are manufacturing and installing 2m telescopes for sites on La Palma; Maui, Hawaii; Pune, India; Siding Springs, Australia; and a 2.4m telescope for the Yunnan Astronomical Observatory, China, which, when installed in 2004, will be the largest telescope in Asia.

The Australian Antarctic Division

Stand G29

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Australian Antarctic Division
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The Australian Antarctic Division, within the Commonwealth Department of the Environment and Heritage, administers Australia's wide-ranging activities in the Antarctic and subantarctic regions.

These activities include research into 'Space Weather', the effects of the near earth environment on technological systems in space and on the ground. This is achieved through cosmic ray and geophysical observations from the Antarctic continent and Macquarie Island.

The Division provides most of the shipping transport infrastructure between Australia and Antarctica for the Australian program and is preparing to establish intra and intercontinental air transport in the next few years. This will assist Australian astronomers in accessing the best astronomical sites on the Antarctic plateau, for example at the French/Italian station at Dome C or the highest point on Dome A

DEST TECHNOLOGY AUSTRALIA PAVILION AT ASTRO EXPO LISTING

The showcasing element of Astro Expo at the IAU GA 2003 is supported by the Innovation Access Program, which is an initiative of Backing Australia's Ability.

Funding is provided jointly by the Department of Education, Science and Training (DEST) and the Department of Industry, Tourism and Resources (DITR).

Auspace

Stand P15A

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Auspace Limited is an Australian aerospace and systems engineering company with capabilities spanning electro-optic instruments, satellite communications systems and space systems.

Auspace has a proven capability in providing electro-optic instruments for ground and space based, astronomical and remote sensing applications. As a wholly owned subsidiary of EADS Astrium, Auspace is supported in all its activities by the technology and strength of Europe's leading satellite manufacturer.

Based in Canberra and Adelaide, Auspace has Class 100 cleanroom facilities with electronics laboratory, thermal vacuum chambers and other specialist equipment available to support the design and build of electro-optic instruments.

Australian Photonics Pty Ltd

Stand P15B

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Web: <http://www.photonics.com.au>

Australian Photonics is an unincorporated joint venture of 5 Australian Universities, TAFE, DSTO, and 21 industry partners with key objectives including:

- ◆ Undertaking world class research
- ◆ Commercialisation of outcomes
- ◆ Education and Training

Australian Photonics develops technologies for next generation systems, subsystems, and components for sensors and communications networks. Our core skills and capabilities are centred around technologies of:

- ◆ novel photonic materials,
- ◆ optical fibre,
- ◆ planar integrated circuits,
- ◆ automated manufacturing,
- ◆ information processing

We apply our capabilities and technologies to opportunities in a range of industries.

We work closely with our industry partners to help them achieve market leadership through the strategic application of photonic technologies. We provide a one-stop-shop for linkages in research, education and training, and investment opportunities in photonics.

Australian SKA Consortium

Stand G19

Australian Square Kilometre Array Consortium

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Email: peter.hall@csiro.au

Web: <http://askac.atnf.csiro.au/>

The Square Kilometre Array (SKA) radio telescope is being designed by an international consortium of eleven countries and will be built in about 10 years time. It will be 100 times as sensitive as the best current instruments and will enable astronomers to observe the first structures to form in the Universe and answer fundamental questions about how the Universe evolved.

The Australian SKA Consortium (ASKAC) coordinates SKA-related research in Australia. With its vast area and low background radio-frequency levels, Australia is an ideal host site for the SKA. The display will show examples of the initial site selection work and SKA science, as well as new SKA technologies, including a working model of a multi-beam antenna being developed by CSIRO.

Swinburne University Centre for Astrophysics and Supercomputing

Stand P10B

Contact: Matthew Bailes

Swinburne University of Technology

Mail 31 PO Box 218

Hawthorn Vic 3122

Australia

Tel: +61 3 9214 8782

Fax: +61 3 9214 8797

E-mail: mbailes@swin.edu.au

Web: <http://www.astronomy.swin.edu.au>

The Centre for Astrophysics and Supercomputing at Swinburne University of Technology is dedicated to the pursuit of fundamental astronomical research and the public appreciation of science.

The Centre's facilities include a Top 500-ranked supercomputer and a virtual reality theatre. Key educational programs include Swinburne Astronomy Online and AstroTour.

At Astro Expo, the Centre will be demonstrating its 3D projection system, ideal for scientific visualisation and public education. Come and talk to us about purchasing your own 3D theatre or see how we can help with your visualisation needs. Sample content from Swinburne Astronomy Online internet courses will also be available.

Connell Wagner Pty Ltd

Stand G28

Contact: Rick Hopkins, Project Manager

Level 2, 116 Military Road

Neutral Bay NSW 2089

Australia

Tel: +61 2 9465 5753

Fax: +61 2 9465 5786

E-mail: hopkinsr@conwag.com

Web: www.connellwagner.com.au

Leading international consulting firm Connell Wagner specialises in planning, engineering and managing infrastructure, energy, commercial and industrial projects. The company has long been involved with the CSIRO on such projects as the Parkes Radio Telescope upgrade and the Australia Telescope at Narrabri. Currently, Connell Wagner is collaborating with the CSIRO on the bid for the SKA project, contributing to the prototyping of potential antenna technology – a spherical lens antenna (Luneberg lens) made from new synthetic materials.

Connell Wagner has assisted in the development of the feed arm electro-mechanical operation for the prototype. The firm has more than 1800 staff in Australia, New Zealand and South East Asia, and has associated companies throughout the world. Connell Wagner offers local knowledge, international service and world-class expertise. Connell Wagner is a proud sponsor of the IAU General Assembly, as well as the Industry Day.
www.connellwagner.com.au/

Laser Micromachining

Stand P12

Contact: Linda Kerr
Division ICS
Innovation Incubator Centre
Macquarie University, NSW 2109
Australia
Tel: +61 2 9850 9101
Fax: +61 2 98509102
Email: lkerr@ics.mq.edu.au
Web: <http://www.mso.anu.edu.au>

Macquarie University Technical Services has provided custom solutions to mechanical and electronic challenges associated with leading edge scientific research for the past thirty years. Two hundred man years of expertise and experience are available to our customers. Ceramics to composites, platinum to titanium, telescopes to microscopes. Contact us for solutions.

Laser Micromachining Solutions (LMS) is a commercial venture of the Centre for Lasers and Applications, Macquarie University, undertaking strategic research and developing advanced laser micro-machining and micro-structuring techniques. These techniques have been used to process features less than 10microns in size in metals, ceramics, polymers, glasses and crystalline materials, for a range of scientific applications.

Research School of Astronomy & Astrophysics, ANU

Stand G13

Contact: Dr Paul Francis
Research School of Astronomy and Astrophysics, The Australian National University
Mt Stromlo Observatory, Cotter Road
Weston ACT 2611
Australia
Tel: +61 2 6125 0230
Fax: +61 2 6125 0233
Email: paul.francis@mso.anu.edu.au
Web: <http://www.mso.anu.edu.au>

The Australian National University's Research School of Astronomy and Astrophysics is Australia's premier university research group in this field. With 23 academic staff, we are the largest research group in Australia, covering field as diverse as cosmology, stellar evolution and planetary science. We run Australia's two major optical observatories: Mt Stromlo Observatory (our home base, located near Canberra) and Siding Spring Observatory (our dark sky site, located in the Western Plains of New South Wales, near the town of Coonabarabran). We have an active instrumentation program, currently building two instruments for Gemini, as well as expertise in theoretical and computational astrophysics.

The Australian Gemini Office

Stand G10

Contact: Professor Warrick Couch
University of New South Wales Dept. of Astrophysics,
University of New South Wales NSW 2052
Australia
Tel: +61 2 9385 4553
Email: info@phys.unsw.edu.au
Web: www.phys.unsw.edu.au

The University of New South Wales is one of the foremost universities in Australia, with over 32,000 students. The Department of Astrophysics and Optics is a growing and highly active group, consisting of six academics, eleven postdoctoral fellows, and fifteen graduate students.

The group is at the forefront of many areas of astronomy. Research activities include studies of galaxy evolution, large-scale structure, the high redshift deuterium abundance, fundamental physics (time and space variability of the constants of nature), the microwave background, extra-solar planets, high resolution spectroscopy of QSO absorption systems, infrared astronomy, star formation, the interstellar medium, astronomical instrumentation and astronomy from Antarctica.

The group also operates the Automated Patrol Telescope, the ROTSE fast-response gamma-ray burst telescope and the Mopra 22-m millimetre-wave telescope at Siding Spring Observatory, and two site-testing observatories in Antarctica.

**University of New South Wales
Stand G29**

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University of New South Wales, Dept. of Astrophysics
University of New South Wales NSW 2052
Australia
Tel: +61 2 9385 4553
Fax: +61 2 9385 6060
Email: info@phys.unsw.edu.au
Web: www.phys.unsw.edu.au

The University of New South Wales is one of the foremost universities in Australia, with over 32,000 students. The Department of Astrophysics and Optics is a growing and highly active group, consisting of six academics, eleven postdoctoral fellows, and fifteen graduate students.

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The group also operates the Automated Patrol Telescope, the ROTSE fast-response gamma-ray burst telescope and the Mopra 22-m millimetre-wave telescope at Siding Spring Observatory, and two site-testing observatories in Antarctica.

**University of Sydney
Stand G18**

Contact: Dr Anne Green
School of Physics, University of Sydney NSW 2006
Australia
Tel: +61 2 9351 5184
Fax: +61 2 9351 7726
Email: hos@physics.usyd.edu.au
Web: <http://physics.usyd.edu.au>

The Institute of Astronomy at the University of Sydney houses one of the largest groups of Australian astronomers. Utilising leading observational facilities, researchers at Sydney study the cosmos from X-ray to radio wavelengths. Highlights include ultra-sharp resolution of stars using optical interferometers and the deepest ever census of the southern sky using the Molonglo radio telescope.

Complementing these is a vigorous theoretical astrophysics program, uncovering the complex physics of the Sun, the extreme conditions of pulsars and gravitational lensing. This research provides exciting projects for training the next generation of astronomers, and providing other graduates with the skills for future careers in finance, computing, engineering and more.

Annex 11

IAU Industry Day Final Report

5 September 2003

Aaron Chippendale, CSIRO

Summary

IAU Industry Day was a success. It was executed within budget and was fully subscribed. CSIRO and Connell Wagner staged this event at the 25th General Assembly of the International Astronomical Union (IAU) in Sydney on 23 July 2003. It provided a full day's briefing to Australian industry on opportunities in the astronomy field – specifically opportunities to help deliver facilities for the next decade of astronomy.

Opportunities for Australian industry in astronomy were publicised directly to attendees and indirectly to the nation through an informative article in the Australian Financial Review (Annex A). We recorded the knowledge presented to the attendees in the form of a website containing all PowerPoint presentations made on the day.

We are currently assessing possible follow-up activities. These include targeted briefings of specific participants; setting up a contact and capability database; and providing a regular newsletter to keep all participants up to date.

Outcomes

Here we provide a list of IAU Industry Day outcomes which are expanded in following sections. IAU Industry Day:

- publicised opportunities for Australian industry in astronomy;
- identified that Australia is well positioned to participate successfully in upcoming astronomy projects worldwide – an opinion shared by astronomy and industry participants;
- established that a number of Australian organisations were interested in astronomy opportunities;
- facilitated high level networking between the industry and astronomy communities;
- increased awareness of tools such as the Industry Capability Network (ICN); and
- concluded that a network should be established to keep industry in touch with future developments and opportunities.

Attendance

125 attendees from 75 organisations formally registered for the event. Further participants joined at the last minute to fill the 150 person venue for the first and most important session. Annex B lists the organisations represented in the final RSVP list.

Media & Awareness

The primary media outcome was an article in the Australian Financial Review (AFR), page 8 of 24/7/03. This article is reproduced in Annex A. It commences,

“The nation’s astronomers, engineers and scientists are well placed to compete for part of the \$US10 billion earmarked for international projects in telescope arrays, deep-space network tracking, observatories and related technologies,”

and continues to extend the impact of the day’s key messages to readers of the AFR.

The advertising value for this article is \$25,100 and the editorial value is \$476,000 as calculated by the AXIS Public Relations & Marketing Company, our publicist for the event.

AXIS prepared a media release (Annex C) covering Astronomy industry development/spend potential as well as examples of Australia’s expertise to date. Industry Day was used to create an informal pictorial and interview opportunity ensuring that spokespeople were available to meet the media’s discussed angles.

Media attendees included:

1. Kate Marshall of Australian Financial Review
2. Scott Rochfort, Business, Sydney Morning Herald
3. Teresa Ooi, Business and photographer, The Australian

Interested but not able to attend though could be approached in the future:

1. Radio National Breakfast
2. BRW
3. Business Sunday

Initially, both The Australian and Sydney Morning Herald advised that the story had been upgraded to news. However, the story coincided with the death of Saddam Hussein's son and the Philippine coup and was then set on the backburner. The Australian Financial Review article was thus the only one to appear from this event.

Feedback

We distributed the feedback sheet in Annex D to attendees present at the day's conclusion. The sheet asked about the relevance of the proceedings, if the attendees perceived opportunities for their organisation in the astronomy field, and if they were interested in future projects and developments.

Annex E presents a table of the answers given by the 24 attendees who completed the feedback sheet. In summary, 22 attendees stated that the meeting was relevant (11 in fact said that it was very or highly relevant); 20 believed that there were opportunities for their organisation in the field of astronomy; and 23 said they would like to be kept informed of future projects and developments.

Further to this formal feedback, attending international leaders in the astronomy field commented that the Industry Day initiative was successful and competitive when compared to similar events staged in other countries.

Proceedings

The final programme in Annex F largely represents that presented in the Grant Agreement. We attracted twenty high impact presenters. All PowerPoint presentations were collected and placed on the web at <http://www.atnf.csiro.au/iau-ga/industry>. Some participants have already accessed and applied the wealth of information in this repository.

Budget

ICMS will lodge a full audited financial report detailing the grant's expenditure. The following approximate budget shows that we completed the project \$410 within budget. We recommend allocating any remainder to thank-you letters and follow-up communication aimed at keeping alive the assembled network of attendees.

Item	Original Budget	Expected Expenditure	Expected Surplus
Facilities Hire	\$10,000	ICMS - \$10,000	\$0
Use of Astro-Expo for 1 day	\$5,000	ICMS - \$5,000	\$0
Catering	\$10,000	ICMS - \$9,690	\$310
ICMS Management & DITR Liaison	\$10,000	ICMS - \$10,000	\$0
Communications & Marketing	\$5,000	CW post - \$400 CW printing - \$2,500 CW phone & misc. - \$1,000 Axis PR - \$1,000	\$100
Total	\$40,000	\$39,590	\$410

Future Activities

Follow-up activities will include targeted briefings of specific participants; setting up a contact and capability database; and providing a regular newsletter to keep all participants up to date. We hope to nurture the relationships developed on the day with a view to forming a cohesive astronomy-industry network. Through awareness of its member's capabilities, this network will facilitate Australia's participation in developing the next generation of astronomical facilities.

Conclusion

IAU Industry Day at the 25th General Assembly of the International Astronomical Union (IAU) in Sydney on 23 July 2003 was a success. The funds provided by DITR allowed us to run the first event in a process that will lever further opportunities for Australian industry from our national excellence in astronomy.

US space dollars up for grabs

Kate Marshall

The nation's astronomers, engineers and scientists are well placed to compete for part of the \$US10 billion (\$15 billion) earmarked for international projects in telescope arrays, deep-space network tracking, observatories and related technologies.

Australia Telescope National Facility director Brian Boyle yesterday said "frontier" discoveries by astronomers and the unprecedented pace of technological change could create millions of dollars in high-tech business opportunities.

Local scientists and engineers are pinning their hopes on hosting the \$US1 billion Square Kilometre Array – hundreds of huge radio-receiving array stations in remote areas – which is expected to attract \$400 million in infrastructure spending.

The federal government has given the SKA bid, led by an international consortium of which Australia is a member, \$10 million in seed funding for initial technology concepts, including antennas and sites.

The site host is expected to be announced in 2005, and the technology decision two years later.

CSIRO executive director, business development and commercialisation, Mehrdad Baghai, said Aus-

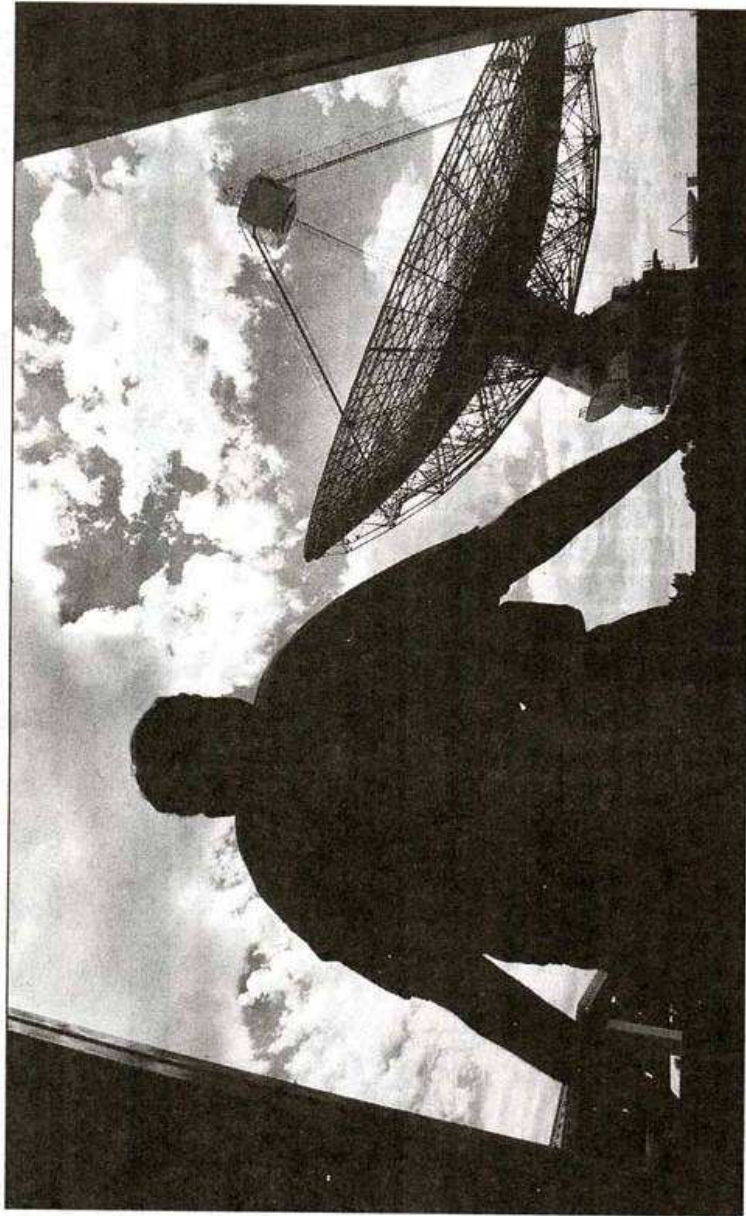


Photo: DALLAS KILPONEN

The Parkes observatory . . . an important role in space exploration.

ralia's head start in the history of astronomy meant it was "punching well above its weight". "Whether we host SKA or not, the impact on the economy and radio-astronomy would be huge," he said.

Another project that has astronomers salivating is the futuristic Extremely Large Optical and Infrared Telescope, billed as a showcase for local expertise in building, engineering and operating such enormous structures.

Professor Boyle said successive governments had understood the

importance of astronomy in scientific endeavour because it had helped drive so many leading-edge technologies.

Demand for very large optical telescopes and state-of-the-art radio telescopes to deepen knowledge of the universe is spurring new technologies in materials science, complex systems, cryo-engineering and IT, he told the AstroExpo conference in Sydney.

The conference was held in conjunction with an International Astronomical Union meeting. There was also an industry showcase sponsored by the CSIRO, the

Department of Industry, Tourism and Resources and consulting engineering firm Connell Wagner.

Australia's international sky-watching reputation was kicked off by advances in radio astronomy during World War II and the crucial role of the Parkes radio telescope in the first Apollo moon landing in 1969.

It has been significantly enhanced by the continent's location in the southern hemisphere. It is easier for Australian astronomers to escape the noise and light pollution their northern colleagues complain about.

Annex B – Participating Organisations

Advance Metal (Aust) Pty Ltd
Advanced Manufacturing Centre
Alstom Australia
Altium Limited
Anglo-Australian Observatory
Anssen Technologies
Arengo Pty Ltd
AusIndustry, NSW State Office
Auspace Limited
Australia Telescope National Facility, CSIRO
Australian Centre for Precision Optics
Australian Communications Authority
Australian National University
BAE SYSTEMS Australia, PSG
Barclay Mowlem Construction
Boral Masonary
Bowens Industry
Business Development and Commercialisation, CSIRO
CEA Technologies
Cerck Controls Pty Ltd
Citect
Cluster Navigators Australia Pty Ltd
Coherent Scientific Pty Ltd
Connell Wagner
Cooperative Research Centre for Satellite Systems
Cornell University, USA
CSIRO
Department of Industry, Tourism & Resources
Department of State & Regional Development
DSTO
Dynmast Pty Ltd
East Coast Development Engineering
Electro Optic Systems
GridComm Pty Ltd
Hartebeesthoek Radio Astronomy Observatory (HartRAO)
Hassell Group
IAU Commission for Astronomical Instrumentation and Techniques
Industry Capability Network
Invensys Process Systems Australia

IP Australia
IPS Radio and Space Services
Javac Pty Ltd
JEDS
John Holland Construction
Laserdyne Pty Ltd
Lastek Pty Ltd
Leighton Asia
Leighton Contractors
Linear Bearings Pty Ltd
Macquarie Bank
Macquarie Engineering & Technical Services
Macquarie University
Molonglo Observatory
Motion Technologies
Mount Stromlo Observatory, ANU
Nan Jing Institute of Astronomy (Nan Jing China)
National Astronomical Observatories, Chinese Academy of Sciences
National Council for Science and Technology, Mexico
National Instruments Australia
Norman Disney & Young
Optus
Primus Telecommunications
Raytheon
Reed Constructions Australia
ResMed Ltd
Rojone Pty Ltd
Russell Mineral Equipment Pty Ltd
Science Industry Australia
Space Operations in NASA's Office of Space Science
SpaceFutures
Swinburne Centre of Astrophysics and Supercomputing
Telescopes and Astronomy
University of Macquarie
University of Sydney/Anglo-Australian Observatory
UNSW
VIPAC Engineers & Scientists Ltd

Annex C – Press Release



Backing
Australia's
Ability

The Commonwealth Government's
Commitment to Innovation

MEDIA RELEASE: 15/7/03

Advancing Australia...further and further into space.

The Australian Pavilion at AstroExpo, a specialist astronomy exhibition being held alongside the International Astronomical Union's 25th General Assembly (IAU GA 2003), until Saturday 26 July, will showcase 10 of our leading lights in Astronomical industry. Supported by the Commonwealth Government, in recognition of the US\$10 billion opportunities available for Australian industry at the IAU GA 2003, the Australian Pavilion will act as a platform to take Australian technology and expertise to the international scientific community.

The Pavilion is supported by the Innovation Access Programme, an initiative of *Backing Australia's Ability*, and funding is provided jointly by the Departments of Education, Science and Training (DEST) and Industry, Tourism and Resources (DITR). In taking a national approach to showcasing Australian science, engineering, technology and innovation (SETI), the government is promoting Australia's image internationally as a source of leading-edge SETI and encourages greater international collaboration and networking.

Each of the companies and research organisations exhibiting in the Australian Pavilion and displaying under the Technology Australia banner was selected for its capacity to meet the objectives of the program. As a whole, they demonstrate the depth of Australia's skills, and our ability to realise research capabilities.

The free industry day on Wednesday 23 July offers businesses the best opportunity to meet the key international decision-makers in the astronomy field to gauge the potential business for their market and listen to presentations from a number of high profile industry leaders. Sponsored by CSIRO, Connell Wagner and DITR.

The implications for the Australian economy are enormous, with essential supporting services and infrastructure including finance, land acquisition, environmental planning, roads, power, construction, telecommunications, IT, (software / hardware), fibre networks, manufacturing and security.

“Australian researchers are world leaders in astronomical research and development as demonstrated by the exhibitors at the Australian Pavilion,” comments the Hon Peter McGauran MP, Commonwealth Minister for Science.

“The Federal Government, through *Backing Australia's Ability*, provides opportunities for research organisations and companies to strengthen international collaboration and networking activities to the benefit of all Australians.”

In essence, great advances are afoot in the world of Astronomy. New projects, new research, new technology. These are exciting times as new frontiers are discovered and conquered. Most exciting for Australians is the fact that our homegrown talent and technology is right up there at the forefront of the latest discoveries, with the strategic potential to reap the benefits of the Astronomy Industry's next-decade spend of US\$10 billion and to play host to world-class projects.

To cite just a couple of examples:

The Australian Pavilion showcases the technology involved in our bid to host such projects, including the proposed **Square Kilometre Array (SKA)** radio telescope and the proposed **Extremely Large Optical/Infrared telescopes (ELT)**.

The SKA will comprise hundreds of radio-receiving 'array-stations', each 250 metres in diameter, which will be spread over thousands of kilometres of the country chosen to host the project. A central cluster of array-stations will be linked to more distant ones.

This alone is a AUD2 billion project of which a large amount would be spent in the host country, complemented by a AUD 400 million infrastructure component.

With its vast, low-population interior, ultra-quiet radio frequency environment, stable economy and government, rich history of association with the world of astronomy and an unobstructed view of the Milky Way, experts believe that Australia is the perfect host for Radio Telescope projects.

“The SKA will be the most exciting global achievement ever made in radio astronomy,” says Tony Barry, Connell Wagner Regional Manager who has been working with the SKA team on this project. “We believe it will open up tremendous opportunities for Australian businesses, and we want to be part of its development.”

The Australian Pavilion offers visitors the opportunity to see the latest technology for themselves: from large numbers of 'array-stations' to large telescopes.

“Extremely Large Optical and Infrared Telescopes (ELTs) are the future of astronomy worldwide,” says Professor Penny Sackett, director of The Australian National University’s Research School of Astronomy and Astrophysics, which operates Mt Stromlo and Siding Spring Observatories. It has in the past six years secured around AUD25million worth of overseas contracts on the optical side of its business in collaboration with the Anglo Australian Observatory - Winner of Institution of Engineers Australia Engineering Excellence Award 2002 for IRIS2 (AAT) which is the world’s first multi-slit infrared spectrograph imager and first use of sapphire-based grisms in astronomy.

ANU’s display at the Australian Pavilion will show off its capacity to design and build the enormous telescopes, featuring mirrors 30-100m wide, highlighting the possibilities for Australian involvement in this project. Also on display will be plans to rebuild Mt Stromlo following the January bushfires.

“Australia is already at the forefront of the billion-dollar world market in advanced instrumentation for the current largest optical/infrared telescopes,” says Dr Peter McGregor, whose team at the Australian National University is currently working with industrial partners on the design and manufacture of more than AUD10 million of instrumentation for the International Gemini Project Telescopes. “The challenge is to maintain our leading position into the next generation of telescopes.”

Visitors to the Australian Pavilion will have the opportunity to see for themselves the way in which our Astronomy industry, and related services, is rising to that challenge.

For more information visit: www.astronomy2003.com

*Businesses interested in finding out more are welcome to the FREE industry day on Wednesday 23 July. Seating is limited, so interested parties are advised to register asap to attend, please send your name and affiliation to Rick Hopkins at Connell Wagner, at hopkinsr@conwag.com or call 02 9465 5753.

ENDS

For more information, to arrange an interview or for images contact:

Paula Opfer, The Axis Public Relations & Marketing Company – Tel (02) 9440 4202 / 0403 050 257– Email: paulaopfer@axis-trading.com

Annex D – Feedback Sheet

Name:	_____
Company:	_____
Phone:	_____
Email:	_____



IAU Industry Day Feedback Sheet

Could we please ask you to fill in the following feedback sheet?

1. How relevant was the material presented today?

2. Based on what you have seen and heard today, do you believe that there are opportunities for your organisation in the field of astronomy?

3. What would you have changed / added / deleted?

4. Would you like to be kept informed of future projects and developments?

5. Further comments:



Annex E – Feedback

Name	Organisation Represented	Sector	Relevance of Industry Day	Opportunities for Represented Organisation in Astronomy?	Suggested Changes	Interested in Future?	Comments
Tim Murray	Rockwell Automation	Power, Control & Information Systems	Very	Yes	Nothing	Yes	Will follow development
Andrew Stewart	Australian Communications Authority	Government Body	Radioastronomy relevant to Australian spectrum regulation and planning activities				
Jim Longley	Commonwealth Bank of Australia	Finance	Moderately	Yes, but not in the short term	Session on finance	Yes	An excellent initiative
Mr Robin Owen	Cluster Navigators Australia	Consultancy	First session, yes, Second, largely, third, capability, fourth, no	Yes - organisation can foster collaboration with industry, government and astronomy	More like Mehrdad Baghai and Bob Frater	Yes	A good gathering of people who could develop a whole of Australia strategic plan
John Russell	Russell Mineral Equipment	Manufacturing	Relevant and interesting, including trade display	Yes - design and precision manufacture	Nothing	Yes	Looking forward to engaging the 'Astronomy Engineering' market
David Warren	Altium	Electronic Design Software	Good, very interesting	Yes - selling our tools	Nothing	Yes	

Sid Magner	Coates Hire	Equipment Hire	Interesting, informative	Yes - in the construction phase	More focus on future opportunities, less focus on historical achievements	Yes	
Ashan Nathwany	Norman Disney and Young	Consultancy	Very relevant	Yes	Nothing	Yes	Well organised
Prof Justin Jonas	Rhodes University / Hart RAO	Academia	Very	We are astronomers!	Add something on training	Yes	Very similar to mtgs held in South Africa
Julia Hu	IP Australia	Government Body	Pertinent	Not really. IP Australia is a gvt agency that grants patents, trademarks and designs.	Nothing	Yes	
Mal Mellows	Motion Technologies	Machine Control	Provided good direction	Yes - precision telescopes	More involvement of surrounding engineering services and requirements to deliver working systems	Yes	Would like more information to be made available on ICN Network. Will view website
Peter Matthews	VIPAC Engineers and Scientists	Consultancy	Good coverage of current and future programmes	Possibly	Less advertising from some companies. More case studies of successful truly commercial products/services/companies	Yes	
Craig Smith	EOS	Laser Technologies	Important to see projects developing to which industry may contribute	Yes	More time for industry to show their products / capabilities, even through not directly related to astronomy	Yes	

Peter Mellander	Anssen Technologies	Astronomical Equipment	Very. Need more interaction between major players such as universities and large companies and manufacturers	Yes	Nothing	Yes	Need to form an 'industry database' where interested companies and/or suppliers can be continuously notified of projects in concept phase. Thank you for the opportunity today :-)
Col Blumem	Astrodomes	Observatory Domes	Interesting	Yes	Nothing	Yes	
John Cunningham	Motion Technologies	Machine Control	High	Yes - electro-mechanical systems	More info on non-electric/optical systems	Yes	
Alfonso Serrano	INAOE (Mexico)	Research	Very	Yes	Nothing	Yes	
Bob Oreb	CSIRO - ACPO	Research	Very relevant	Yes	Nothing	Yes	Impressive compilation of Australia's expertise in Astronomy related areas
Robert Koppelhuber	JEDS	Asset Management	Fairly - except afternoon business presentation	Yes - radio and microwave signal processing, maintenance and repair	Nothing	Yes	Future industry / astronomy meetings

David Baer	Laser Micromach / Nipol Solutions	Manufacturing	Very	Yes	More informative programme with information on exhibitors and attendees	Yes	
Jonathan Bowen	Lastek	Lasers & Photonics	Very	Yes	Nothing	Yes	
Judith Dawes	Macquarie University	Research	Generally	Research collaboration on laser communications and adaptive optics	List of contacts and what they do, quieter venue	Yes	There is scope for professional societies to include companies in their activities much more. The gulf between academic and industry is quite large
Robert McGeorge	Broens Industries	Toolmaking, Automation & Industrial Machines	Very relevant and educational	Yes - specialist manufacturing, machining, engineering	Nothing	Yes	Very encouraged about the potential for Australian technology and the support that exists (when discovered!) Exciting future applications for engineering expertise
Ron Kelly	East Coast Development Engineering	Consultancy		Yes	Nothing	Yes	

Annex F – Programme



IAU Industry Day Programme – 23 July 2003

Co-hosts: Mr. Andrew House – Connell Wagner
Mr. Tim Paterson – Connell Wagner
Dr. Peter Hall – Australia Telescope National Facility, CSIRO
Dr. Peter McGregor – Research School for Astronomy and Astrophysics, ANU



Connell Wagner

9:00am – Introduction

Tricia Berman – General Manager, DITR Innovation Policy Branch

9:10am – Motivation

Prof. Brian Boyle – Director, Australia National Telescope Facility

“Over the next decade 10 billion US dollars will be invested worldwide in astronomical facilities and observatories.”

9:25am – Australia’s Excellence in Astronomy

Prof. Ron Ekers – Federation Fellow, Australia Telescope National Facility and President Elect of the International Astronomical Union

Captain Cook set out to observe a star and discovered Australia, two centuries later from the same spot pioneering Australian astronomers looked at a new kind of star, a quasar, which opened up the rest of the Universe. Now we are in the position to use this land to explore the last remaining gap in our knowledge of the evolution of the Universe. Being top of the world in Astronomy, we should use our kudos to lever industry in this field.

9:40am – Connell Wagner Case Study

Mr. Andrew House – Connell Wagner

Connell Wagner is one of Australasia's largest and most experienced consulting firms in the planning, surveying, engineering design and project management of major infrastructure, commercial and industrial projects. They have delivered many key solutions to Australian astronomers over the years including the dome of the Anglo Australian Telescope and a new focus cabin and receiver translator for the Parkes radio telescope.

10:00am – Radiata Communications Case Study

Dr. Bob Frater – Vice President, ResMed Ltd.

Radiata communications developed a high-speed broad band modem chip set compatible with the IEEE 802.11a communications standard. This world standard is in turn based on CSIRO's US Patent 5,487,609. This is the story of how Radiata came to be valued at \$A567 million when it was acquired by Cisco in November 2001, and how radio astronomy influenced this development.

10:20am – Morning Tea

10:50am – Challenges and Opportunities for Astronomy – Towards 2010

This session is comprised of several 10 min snippets that give a rapid introduction to the challenges and opportunities for astronomy this decade.

Growing Industry Through Astronomical Challenges

Mr. Mehrdad Baghai – Executive Director, Business Development and Commercialisation, CSIRO

30m optical telescopes

Dr. Peter McGregor – Project Scientist, Research School for Astronomy and Astrophysics, ANU

Instrumentation, construction, and gaining time for Aussie astronomers.

Square Kilometre Array

Dr. Peter Hall – SKA Program Leader, CSIRO Australia Telescope National Facility

Technical, logistic, and organisational challenges of building the world's largest radio telescope array.

Supercomputing and the virtual observatory

Prof. Matthew Bailes – Director of the Swinburne Centre for Astrophysics and Supercomputing

Superclusters, grid computing, data mining, and data communications requirements for astronomy in the next decade.

Deep space communications requirements (TBC)

Dr. Barry Geldzahler – Program Executive for Space Operations in NASA's Office of Space Science

Meeting the communication needs of space exploration.

Future Large Antarctic Telescopes

A/Prof. Michael Ashley, School of Physics, UNSW

Space based instruments

Dr. Andrew Parfitt – CEO, Cooperative Research Centre for Satellite Systems

An astronomical payload for FedSat II and beyond.

Dr. Jeremy Bailey – Instrument Scientist, Anglo-Australian Observatory

An Australian instrument on Mars?

12:10am – Challenges and Opportunities Panel

The floor is opened to questions for a panel formed from all of the presenters in the previous session. Industry attendees are encouraged to drive the discussion, bringing up their own challenges and needs for discussion.

12:30pm – Astro-Lunch

Time to mingle freely, ask questions of each other, and undergo a guided tour of Astro Expo. The lunch will be joined by delegates of IAU Joint Discussion 08 (Large Telescopes and the International Virtual Observatory) and the IAU Working Group on Future Large Scale Facilities.

1:45pm – Australian Astronomy Capabilities

Further 10 min presentations discussing historic and present relationships between industry and Astronomy, highlighting Australia's capabilities. Presenters may include:

Swinburne University of Technology

Prof. Matthew Bailes – Director of the Swinburne Centre for Astrophysics and Supercomputing

Virtual reality for scientific visualisation

Australian Centre for Precision Optics

Dr. Roger Netterfield – Team Leader, Australian Centre for Precision Optics

Providing optics for international gravity wave detectors

Electro Optic Systems

Dr. Craig Smith – Head of Research and Development, Electro Optic Systems

Design, development and production of sophisticated laser technologies

Australia Telescope National Facility

Prof. Ray Norris – Acting Director, Australia Telescope National Facility

Building, operating, and upgrading some of the world's largest dishes

Anglo Australian Observatory

Dr. Roger Haynes – Anglo-Australian Observatory

New optical fibres for astronomy

Mount Stromlo Observatory, ANU

Dr. Peter McGregor – Project Scientist, Research School for Astronomy and Astrophysics, ANU

Selling instruments to the largest optical telescopes

These presentations will be followed by 20 min open discussion.

3:15pm – Afternoon Tea

3:45pm – Australian Industry Capabilities & Government Initiatives

The Industry Capability Network

Nicholas Driver – CEO, Industry Capability Network

Sourcing Australian suppliers

DITR Enhanced Project Bylaws Scheme

Rob McKeon – General Manager, Industry Collaboration Branch, DITR

Import implications

Alcatel Australia

Andrew Levido – Executive General Manager, Integration and Services, Alcatel Australia

Extending your reach with Professional Services

Altium

David Warren – Executive Director, Altium Limited

These presentations will be followed by 20 min open discussion.

5:00pm – Closing Summary

5:15pm – Reception

Annex G

Invitation to Attendees



Connell Wagner

US\$10 Billion Investment in Astronomy Infrastructure and Services Worldwide

Over the next decade, up to **US\$10 billion is planned for investment** worldwide in Astronomy facilities and observatories. Astronomy is largely an untapped market and is set to boom.

So how can you be a part of this boom?

The key decision-makers in the Astronomy industry are convening in Sydney in July for their tri-annual General Assembly. In conjunction with this meeting, Connell Wagner and CSIRO, with support from the Department of Industry, Tourism and Resources, are hosting an **Industry Day, free of charge**. On this day, you will meet these key players, listen to presentations on the opportunities and direction of the Astronomy industry, as well as participate in open discussions.

The benefits of attending the free of charge Industry Day include:

- learn more about the US\$10 billion investment over the next decade
- hear key players from the Astronomy community present papers on the upcoming opportunities
- network with the key decision-makers in the Astronomy industry and interested government bodies
- free entry into the Astro Expo (the exhibition component of the General Assembly)
- free lunch and cocktail function

As major sponsors of the IAU General Assembly, we invite you to participate in the Industry Day on:

Date: Wednesday 23rd July 2003

Time: 8.30 am registration for 9.00 am start through to 5.15 pm.
(Cocktail function 5.15 – 6.30 pm)

Venue: Hall 5, Convention & Exhibition Centre at Darling Harbour, Sydney.

Seating is limited, so please

RSVP no later than 16th July 2003 to Juliana Au on (02) 9465 5809 or auj@conwag.com.

We look forward to seeing you at the Industry Day, and to Australian companies playing a significant role in the development of the Astronomy industry both locally and abroad.

Yours sincerely

Professor Brian Boyle
Director-designate
Australia Telescope National Facility, CSIRO

Tony Barry
Regional Manager (NSW)
Connell Wagner



IAU Industry Day Program – 23 July 2003

Co-hosts:
Mr. Andrew House – Connell Wagner
Mr Tim Paterson – Connell Wagner
Dr. Peter Hall – Australia Telescope National Facility, CSIRO
Dr. Peter McGregor – Mount Stromlo Observatory, ANU

MORNING SESSION

9:00am – **Welcome** – Department of Industry, Tourism and Infrastructure (DITR)

9:10am – **Introductions**

Over the next decade, \$US10 billion will be invested worldwide in astronomy facilities and observatories

Prof. Brian Boyle – Director, Australia Telescope National Facility, CSIRO

Australia's Excellence in Astronomy

Prof. Ron Ekers – Australia Telescope National Facility, President Elect IAU

9:40am – **Industry Case Studies**

Consultants to the Astronomy Industry

Mr. Andrew House, Connell Wagner

Radar Systems and the SKA

Mr. Andy Anderson, CEA Technologies

The High-Speed Broad Band Modem Chip That Made Half a Billion for Radiata Communications

Dr. Bob Frater, Vice President, ResMed Ltd.

10:30am – **Morning Tea**

11:00am – **Challenges and Opportunities for Astronomy – Towards 2010**

Growing Industry Through Astronomy Challenges

Mr. Mehrdad Baghai Executive Director, Business Development and Commercialisation, CSIRO

30m Optical Telescopes

Dr. Peter McGregor – Project Scientist, Mount Stromlo Observatory, ANU

Square Kilometre Array

Dr. Peter Hall – SKA Program Leader, Australia Telescope National Facility, CSIRO

Supercomputing and the Virtual Observatory

Prof. Matthew Bailes – Director of the Swinburne Centre for Astrophysics and Supercomputing

Deep Space Communications Requirements

Dr. Barry Geldzahler – Program Executive for Space Operations in NASA's Office of Space Science

Space Based Instruments

Dr. Andrew Parfitt – CEO, Cooperative Research Centre for Satellite Systems

Dr. Jeremy Bailey – Instrument Scientist, Anglo-Australian Observatory

These presentations will be followed by a 20 minute open discussion.

12:30pm – **Lunch**



Connell Wagner

AFTERNOON SESSION

1:45pm – Australian Astronomy Capabilities

Virtual Reality For Scientific Visualisation

Prof. Matthew Bailes - Swinburne University of Technology

Providing Optics For International Gravity Wave Detectors

Dr Roger Nettlefield –Australian Centre for Precision Optics

Electro Optic Systems

Craig Smith – Head of Research and Development, Electro Optic Systems

Australia Telescope National Facility

Prof. Ray Norris – Acting Director, Australia Telescope National Facility, CSIRO

Anglo-Australian Observatory

Dr. Joss Bland-Hawthorn – Anglo-Australian Observatory

Mount Stromlo Observatory, ANU

Dr. Peter McGregor – Project Scientist, Mount Stromlo Observatory, ANU

These presentations will be followed by a 20 minute open discussion.

3:15pm – Afternoon Tea

3:45pm – Australian Industry Capabilities and Government Initiatives

The Industry Capability Network

Nicholas Driver – CEO, Industry Capability Network – Sourcing Australian suppliers

Department of Industry, Tourism and Resources (DITR) Enhanced Project By-laws Scheme

Import implications

Extending Your Reach with Professional Services

Andrew Levido – Executive General Manager – Integration and Services, Alcatel Australia

The Protel Experience and the State of IT in Australia

David Warren, Exective Director, Altium Limited.

Participant Showcase

Chance for an organisation participating in Industry day to showcase their capabilities

These presentations will be followed by a 20 minute open discussion.

5:00pm – Closing Summary

5:15pm – Reception

Annex 12

DELEGATE LIST

Name	Organisation	Country
A'HEARN, Michael F.	University of Maryland	USA
ABI-YOUNES, Joanne		
ADAMI, Christophe	LAM	FRANCE
ADELBERGER, Kurt	Harvard University	USA
AERTS, Conny	University Of Leuven	BELGIUM
AGAFANOV, Michail	Radiophysical Reasearch Institute	RUSSIAN FEDERATION
AGHANIM, Nabila	Institut D'Astrophysique Spatiale	FRANCE
AGUIRRE, Anthony	Institute For Advanced Study	USA
AHN, Youngsook	Korea Astronomy Observatory	KOREA
AI, Guoxiang	National Astronomical Observatories, CAS	CHINA
AIKAWA, Yuri	Kobe University	JAPAN
AJIKI, Masaru	Tohoku University	JAPAN
AKESON, Rachel	Caltech	USA
AKSNES, Kaare	University Of Oslo	NORWAY
ALCOCK, Charles	University of Pennsylvania	USA
ALI, Priscilla	DA Information Services	AUSTRALIA
ALLEN, Anthony		TAIWAN
ALLEN, Christine	National University, Mexico	MEXICO
ALLEN, Mark	Universite Louis Pasteur	FRANCE
ALLEN, Ronald J.	Space Telescope Science Institute	USA
ALLOIN, Danielle	European Southern Observatory	CHILE
ALSABTI, Abdul Athem	University College London	UK
ALVAREZ DEL CASTILLO, Elizabeth	International Dark-Sky Association	USA
ALVES, David R	Columbia University	USA
ALVES, João	European Southern Observatory	GERMANY
AMADO, Pedro	Instituto De Astrofisica De Andalucia - CSIC	SPAIN
AMATO, Elena	Osservatorio Astrofisico Arcetri	ITALY
AMBROZ, Pavel	The Academy of Science of the Czech Republic	CZECH REPUBLIC
AMRAM, Philippe	LAM	FRANCE
AMY, Shaun	CSIRO	AUSTRALIA
ANANDARAO, Boddapati	Physical Research Laboratory	INDIA
ANANTHAKRISHNAN, Subramaniam	National Centre For Radio Astrophysics, TIFR	INDIA
ANDERS, Peter	Universitaets-Sternwarte	GERMANY
ANDERSEN, Johannes	Nordic Optical Telescope	DENMARK
ANDRZEJEWSKI, Caroline Jane	The University of Melbourne	AUSTRALIA
ANN, Hong Bae	Pusan National University	KOREA
AOKI, Wako	National Astronomical Observatory	JAPAN
APAI, Daniel	Max-Planck-Institute For Astronomy	GERMANY
APOLESKI, Lynne		
APPENZELLER, Immo	Landessternwarte	GERMANY
ARAYA, Esteban	University of Puerto Rico	PUERTO RICO
ARCE, Hector G.	California Institute Of Technology	USA
ARCHINAL, Brent	U. S. Geological Survey	USA
ARELLANO FERRO, Armando	Instituto De Astronomia, UNAM	MEXICO
ARENOU, Frederic	Observatoire De Paris	FRANCE
ARGYLE, Robert	Institute Of Astronomy	UK
ARIAS, Elisa Felicitas	BIPM	FRANCE
ARLOT, Jean-Eudes	CNRS Observatory	FRANCE
ARNABOLDI, Magda	Observatory Of Turin	ITALY
ARNOULD, Marcel	Universite Libre De Bruxelles	BELGIUM
ARONS, Jonathan	University of California	USA
ASAI, Naoki	Chiba University	JAPAN
ASHLEY, Michael	The University of New South Wales	AUSTRALIA
ASPLUND, Martin	Australian National University	AUSTRALIA
ATHANASSOULA, Lia	Observatoire De Marseille	FRANCE
AUDARD, Marc	Columbia Astrophysics Laboratory	USA
AYESHA BEGUM,	Tata Institute Of Fundamental Research (TIFR)	INDIA
BABAR, Ali	IPAC/Caltech	USA
BACHILLER, Rafael	Observatoria Astronomico Nacional	SPAIN
BACMANN, Aurore	European Southern Observatory	GERMANY
BAES, Maarten	Universiteit Gent, Sterrenkundig Observatorium	BELGIUM

DELEGATE LIST

Name	Organisation	Country
BAGGALEY, Jack	University Of Canterbury	NEW ZEALAND
BAILES, Matthew	Swinburne Centre for Astrophysics And Supercomputing	AUSTRALIA
BAILEY, Janelle	University of Arizona	USA
BAILEY, Jeremy	Anglo-Australian Observatory	AUSTRALIA
BAILIN, Jeremy	Steward Observatory	USA
BAKARE, John Abiodun	Erakab Trading Venture	SOUTH AFRICA
BAKER, Joanne	University of Oxford	UK
BAKER, Norman H	Columbia University	USA
BALAZS, Bela A.	Eotvos Lorand University	HUNGARY
BALÁZS, Lajos György	Konkoly Observatory	HUNGARY
BALDRY, Ivan	Johns Hopkins University	USA
BALL, Lewis	ATNF/CSIRO	AUSTRALIA
BALLESTER, Pascal	European Southern Observatory	GERMANY
BALMAN, Solen	Middle East Technical University	TURKEY
BANGERT, John	US Naval Observatory	USA
BANHIDI, Zita	Ruhr-Universitaet Bochum	GERMANY
BAO, Shudong	National Astronomical Observatories, CAS	CHINA
BAPTISTA, Raymundo	Universidade Federal De Santa Catarina	BRAZIL
BARBUY, Beatriz	University Of Sao Paulo	BRAZIL
BARDEN, Marco	Max-Planck-Institute For Astronomy	GERMANY
BARDEN, Samuel	National Optical Astronomy Observatory	USA
BARGER, Amy	University of Wisconsin-Madison	USA
BARING, Matthew	Rice University	USA
BARNES, David	The University of Melbourne	AUSTRALIA
BARNES, John Robert	University of St Andrews	UK
BARNES, Peter	Sydney University	AUSTRALIA
BARSONY, Mary	San Francisco State University	USA
BARSTOW, Martin Adrian	University Of Leicester	UK
BARTH, Aaron	California Institute Of Technology	USA
BARUAH, Rulee	HRH The Prince Of Wales Inst. Of Eng. & Technology	INDIA
BARUCCI, Marie Antonietta	Observatoire De Paris-Meudon	FRANCE
BARUCH, John	University of Bradford	UK
BASRI, Gibor	University of California	USA
BASTIAN, Tim	National Radio Astronomy Observatory	USA
BASTIEN, Pierre	University of Montreal	CANADA
BATCHELOR, Robert Alexander		AUSTRALIA
BATE, Matthew	University of Exeter	UK
BAUDIN, Frederic	Institut D'Astrophysique Spatiale	FRANCE
BAUMGARDT, Holger	University Of Tokyo	JAPAN
BAVASSANO, Bruno	Istituto Di Fisica Dello Spazio Interplanetario (CNR)	ITALY
BEASLEY, Anthony	California Institute Of Technology	USA
BEASLEY, Mike	Swinburne University of Technology	AUSTRALIA
BECKER, Robert	University of California	USA
BECKER, Werner	Max-Planck-Institut Fuer Extraterrestrische Physik	GERMANY
BECKFORD, Adele	University of Hertfordshire	UK
BECKLIN, Eric	UCLA	USA
BECKWITH, Steven	Space Telescope Science Institute	USA
BEDDING, Tim	The University of Sydney	AUSTRALIA
BEERS, Timothy	Michigan State University	USA
BEIERSDORFER, Peter	Lawrence Livermore National Laboratory	USA
BEIGLBOECK, Wolf	Springer-Verlag	GERMANY
BEKKI, Kenji	The University of NSW	AUSTRALIA
BELL BURNELL, Jocelyn	University of Bath	UK
BELLING, Erica		
BELY-DUBAU, Francoise	Observatoire De La Cote D'Azur	FRANCE
BENNETT, Charles	NASA/GSFC	USA
BENVENUTI, Piero	Space Telescope European Coordinating Facility	GERMANY
BENZ, Arnold O.	Institute Of Astronomy	SWITZERLAND
BERDYUGINA, Svetlana	Institute Of Astronomy, ETH Zurich	SWITZERLAND
BERGER, Mitchell	University College London	UK
BERGMANN, Marcel	NOAO Gemini Science Center	USA

DELEGATE LIST

Name	Organisation	Country
BERNSTEIN, Danielle	Australian National University	AUSTRALIA
BERRIMAN, Bruce	California Institute Of Technology	USA
BERTOLA, Francesco	University of Padova	ITALY
BESSELL, Michael S	Australian National University	AUSTRALIA
BEST, Philip	University Of Edinburgh	UK
BEUTHER, Henrik	Harvard-Smithsonian Center For Astrophysics	USA
BEZZINA, Rebecca		
BHATHAL, Ragbir	University of Western Sydney	AUSTRALIA
BHAVSAR, Suketu	University of Kentucky	USA
BICKNELL, Geoffrey	Australian National University	AUSTRALIA
BIGGS, James	Perth Observatory	AUSTRALIA
BIGNALL, Hayley	Joint Institute For VLBI, Europe	THE NETHERLANDS
BIGNAMI, Giovanni F.	CESR	FRANCE
BIK, Arjan	University of Amsterdam	THE NETHERLANDS
BINGGELI, Bruno	University of Basel	SWITZERLAND
BINNEY, James	Oxford University	UK
BINZEL, Richard	M.I.T.	USA
BIRKS, Joseph Redfern	UMIST	UK
BJORKMAN, Jon Eric	University of Toledo	USA
BJORKMAN, Karen	University of Toledo	USA
BLAKE, Christopher	The University of New South Wales	AUSTRALIA
BLAKE, Geoffrey	California Institute Of Technology	USA
BLAKESLEE, John	Johns Hopkins University	USA
BLAND-HAWTHORN, Joss	AAO	AUSTRALIA
BLASI, Pasquale	Osservatorio Astrofisico Di Arcetri	ITALY
BLOM, Harry	Kluwer Academic Publishers	THE NETHERLANDS
BLUNDELL, Katherine	Oxford University	UK
BOCK, Douglas	University of California	USA
BOCKELEEE-MORVAN, Dominique	Observatoire De Paris-Meudon	FRANCE
BODEN, Andy	California Institute Of Technology	USA
BOEHRINGER, Hans	Max-Planck-Institut Fuer Extraterrestrische Physik	GERMANY
BOICE, Daniel C.	Southwest Research Institute	USA
BOLAND, Wilfried	Netherlands Research School For Astronomy	THE NETHERLANDS
BOLATTO, Alberto	University of California	USA
BOLLER, Thomas	Max-Planck-Institut Fuer Extraterrestrische Physik	GERMANY
BONIFACIO, Piercarlo	Istituto Nazionale Di Astro Fisca	ITALY
BONNET, Roger-Maurice	COSPAR	FRANCE
BOOMSMA, Rense	Kapteyn Astronomical Institute	THE NETHERLANDS
BOOTH, Roy	Onsala Space Observatory	SWEDEN
BOSMA, Albert	Observatoire De Marseille	FRANCE
BOTHA, Gert J. J.	University College London	UK
BOUCHARD, Antoine	Australian National University	AUSTRALIA
BOUNDY, Roslyn		
BOURKE, Tyler	Harvard-Smithsonian Center For Astrophysics	USA
BOUY, Herve	European Southern Observatory	GERMANY
BOWELL, Edward	Lowell Observatory	USA
BOYD, Mark	Coonabarabran Shire Council	AUSTRALIA
BOYLE, Brian	Anglo-Australian Observatory	AUSTRALIA
BOYLE, Richard P.	Vatican Observatory	USA
BRADLEY, Arthur	Spacecraft System Engineering Services	USA
BRAFFORD, Suellen	University of Dayton	USA
BRAINE, Jonathan	Observatoire de Bordeaux	FRANCE
BRAINERD, Tereasa	Boston University	USA
BRANDEKER, Alexis	Stockholm Observatory	SWEDEN
BRANDNER, Wolfgang	Max-Planck-Institute For Astronomy	GERMANY
BRAY, Robert	CSIRO	AUSTRALIA
BRECKINRIDGE, James	Jet Propulsion Laboratory	USA
BRICKHOUSE, Nancy	Smithsonian Astrophysical Observatory	USA
BRIDGES, Terry	Anglo-Australian Observatory	AUSTRALIA
BRIDLE, Sarah	Institute Of Astronomy	UK
BRIGGS, Frank	Australian National University	AUSTRALIA

DELEGATE LIST

Name	Organisation	Country
BRIGGS, Kevin	Paul Scherrer Institut	SWITZERLAND
BRINKS, Elias	INAOE	MEXICO
BRODIE, Jean	UCO/Lick Observatory	USA
BROOKS, John	CSIRO/ATNF	AUSTRALIA
BROUW, Wim	ATNF/CSIRO	AUSTRALIA
BROWN, Alexander	University Of Colorado	USA
BROWN, Gregory V.	University of Maryland	USA
BROWN, Joanna	California Institute Of Technology	USA
BROWN, John C.	University of Glasgow	UK
BROWN, Michael James Isles	National Optical Astronomy Observatory	USA
BROWN, Robert L	National Astronomy & Ionosphere Center	USA
BROWNLEE, Don	University of Washington	USA
BRUN, Allan Sacha	CEA Saclay	FRANCE
BRUNSWICH, Rob	Eos & Eost	USA
BRYANT, Greg	Sky & Telescope Magazine	AUSTRALIA
BUCKLEY, David	Southern African Large Telescope	SOUTH AFRICA
BUES, Irmela	University of Erlangen	GERMANY
BULIK, Tomasz	Nicolaus Copernicus Astronomical Centre	POLAND
BUOTE, David	University of California	USA
BUREAU, Martin	Columbia University	USA
BURGAY, Marta	Bologna Astronomical Departement	ITALY
BURSTEIN, David	Arizona State University	USA
BURTON, Michael	The University of New South Wales	AUSTRALIA
BUTCHER, Harvey	ASTRON	THE NETHERLANDS
BUTLER, Bryan	National Radio Astronomy Observatory	USA
BUTT, Yousaf Mahmood	CFA/SAO	USA
BUTTERWORTH, Paul	Erco Lighting	AUSTRALIA
BUXTON, Michelle	Yale University	USA
BUYLE, Pieter	Ghent University	BELGIUM
BUZASI, Derek	US Air Force Academy	USA
CAIRNS, Iver	The University of Sydney	AUSTRALIA
CALABRETTA, Mark R.	ATNF/CSIRO	AUSTRALIA
CALDWELL, Douglas	SETI Institute	USA
CALLY, Paul	Monash University	AUSTRALIA
CALVET, Nuria	Smithsonian Astrophysical Observatory	USA
CAMERON, Andrew	University of St Andrews	UK
CAMILO, Fernando	Columbia University	USA
CAMPBELL, Donald	Cornell University	USA
CAMPBELL, Garey		
CAMPBELL, John	James Cook University	AUSTRALIA
CAMPBELL, Robert M.	Joint Institute For VLBI, Europe	THE NETHERLANDS
CANDIDI, Maurizio	IFSI/CNR	ITALY
CANE, Hilary	Bruny Island Radio Spectrometer	AUSTRALIA
CANFIELD, Richard	Montana State University	USA
CANNON, Russell	Anglo-Australian Observatory	AUSTRALIA
CAPITAINE, Nicole	Observatoire De Paris	FRANCE
CARAVEO, Patrizia	IASF-Milano "G. Occhialini"	ITALY
CARIGNAN, Claude	University Of Montreal	CANADA
CARLSTROM, John	The University of Chicago	USA
CAROLLO, Daniela	Osservatorio Astronomico Di Torino	ITALY
CARPENTER, Kenneth	NASA/GSFC	USA
CARR, Janet	Australian Broadcasting Corporation	AUSTRALIA
CARSWELL, Robert F	Institute Of Astronomy	UK
CARTER, Brad	The University of Southern Queensland	AUSTRALIA
CARTWRIGHT, Susan	Sheffield University	UK
CASELLI, Paola	Osservatorio Astrofisico Di Arcetri	ITALY
CASH, Webster	University of Colorado	USA
CASSAM CHENAI, Gamil	CEA Saclay	FRANCE
CASWELL, James	ATNF/CSIRO	AUSTRALIA
CAYREL, Roger	Observatoire De Paris	FRANCE
CAYREL-DE-STROBEL, Giusa	Observatoire De Paris-Meudon	FRANCE

DELEGATE LIST

Name	Organisation	Country
CELEBRE, Cynthia	Pagasa	PHILIPPINES
CELLINO, Alberto	Osservatorio Astronomico Di Torino	ITALY
CEMELJIC, Miljenko	Astrophysical Institute Potsdam	GERMANY
CESARSKY, Catherine	European Southern Observatory	GERMANY
CHAE, Jongchul	Chungnam National University	KOREA
CHAKRABARTI, Supriya	Boston University	USA
CHAMBERLIN, Richard	Caltech Submillimeter Observatory	USA
CHAMBLISS, Carlson	Kutztown University	USA
CHAN, Ben	The University of Sydney	AUSTRALIA
CHAN, Kwing L.	The Hong Kong University of Science And Technology	CHINA
CHAN, Sze-Ting	University of Tokyo	JAPAN
CHANDRASEKHAR, Thyagarajan	Physical Research Laboratory	INDIA
CHANGCHIT, Nantawan		
CHANGCHIT, Vantanee		
CHAPMAN, Jacqueline	The University of Sydney	AUSTRALIA
CHAPMAN, Jessica	ATNF/CSIRO	AUSTRALIA
CHARBONNEAU, David	California Institute Of Technology	USA
CHARLOT, Patrick	Observatoire De Bordeaux	FRANCE
CHARNLEY, Steven Black	NASA Ames Research Centre	USA
CHARTAS, George	Penn State University	USA
CHATTERJEE, Tapan Kumar	Puebla University	MEXICO
CHEMIN, Laurent	Université De Montréal	CANADA
CHEN, Lin-Wen	National Taiwan Normal University	TAIWAN
CHENG, Andrew	Johns Hopkins Applied Physics Laboratory	USA
CHENG, Fuzhen	University Of Science & Technology	CHINA
CHENG, Kwang-Ping	California State University	USA
CHENGALUR, Jayaram Narayanan	Pune University Campus	INDIA
CHESLEY, Steven	Jet Propulsion Laboratory	USA
CHEVALIER, Roger	University of Virginia	USA
CHI, Seungyoup	Seoul National University	KOREA
CHIBA, Masashi	National Astronomical Observatory	JAPAN
CHIEFFI, Alessandro	Istituto Di Astrofisica Spaziale E Fisica Cosmico	ITALY
CHIGAI, Takeshi	Kobe University	JAPAN
CHIN, Yi-Nan	Tamkang University	TAIWAN
CHINCARINI, Guido	Universita` Degli Studi Milano Bicocca E Osservatorio Astronomico	ITALY
CHITRE, Shashikumar	University Of Mumbai	INDIA
CHO, Dong-Hwan	Seoul National University	KOREA
CHONG, Philip	Pierlite Pty Ltd	AUSTRALIA
CHRISTENSEN, Lars Lindberg	Hubble European Space Agency Information Centre	GERMANY
CHRISTENSEN-DALSGAARD, Joergen	University Of Aarhus	DENMARK
CHRISTIANSEN, Jessie Leigh	Australian National University	AUSTRALIA
CHU, Yaoquan	Centre For Astrophysics	CHINA
CHUBEY, Markiyana S.	Central Astronomical Observatory, Pulkovo	RUSSIAN FEDERATION
CHURYUMOV, Klym	Kyiv Shevchenko National University	UKRAINE
CIARDULLO, Robin	Penn State University	USA
CLAMPIN, Mark	NASA/GSFC	USA
CLANCY, Fred	Coonabarabran Shire Council	AUSTRALIA
CLANCY, Kelly	MIT	USA
CLARKE, Tracy	University of Virginia	USA
CLAUSEN, Jens Viggo	Copenhagen University Observatory	DENMARK
CLEMENS, Marcel	University of Padova	ITALY
CODY, Ann Marie	Harvard University	USA
COFFEY, Deirdre	Dublin Institute For Advanced Studies	IRELAND
COHEN, Raymond James	University of Manchester	UK
COLE, David	IPS Radio & Space Services	AUSTRALIA
COLEMAN, Matthew Grant	Australian National University	AUSTRALIA
COLETTI, Donna	Harvard-Smithsonian Center For Astrophysics	USA
COLLESS, Matthew	Australian National University	AUSTRALIA
COLLINGS, Mark	University of Nottingham	UK
COMBES, Francoise	Observatoire De Paris	FRANCE
COMBI, Michael R.	University of Michigan	USA

DELEGATE LIST

Name	Organisation	Country
CONDON, James	National Radio Astronomy Observatory	USA
CONN, Blair Campbell	The University of Sydney	AUSTRALIA
CONSELICE, Christopher	California Institute Of Technology	USA
CONSOLMAGNO SJ, Guy	Specola Vaticana	VATICAN CITY STATE (HOLY
COOK, Kem	Lawrence Livermore National Laboratory	USA
COOPER, Jackie Louise	Australian National University	AUSTRALIA
COORAY, Asantha	California Institute Of Technology	USA
CORBALLY, Christopher	Vatican Observatory	VATICAN CITY STATE (HOLY
CORDES, James M.	Cornell University	USA
CORREIA, Jose Carlos	University of Lisbon	PORTUGAL
CORSINI, Enrico Maria	University of Padova	ITALY
COTERA, Angela	SETI Institute	USA
COTTER, Garret	University of Cambridge	UK
COTTON, William	National Radio Astronomy Observatory	USA
COUCH, Warrick	The Australian Gemini Office (AusGo)	AUSTRALIA
COUDE DU FORESTO, Vincent	Observatoire De Paris-Meudon	FRANCE
COUPER, Heather Anita	BBC	UK
COURTIN, Regis	Obervatoire De Paris	FRANCE
COUTURES, Christian	Commissariat A L'Energie Atomique (C.E.A.)	CHILE
COX, Pierre	Institut D'Astrophysique Spatiale	FRANCE
CRABTREE, Dennis	National Research Council	CANADA
CRAIG, Nahide	University of California	USA
CRAM, Lawrence	Australian Research Council	AUSTRALIA
CRAMER, Neil	The University of Sydney	AUSTRALIA
CRAUSE, Lisa	University of Cape Town	SOUTH AFRICA
CRAWFORD, Carolin	University of Cambridge	UK
CRESS, Catherine Marion	University of Natal	SOUTH AFRICA
CRIGHTON, Neil Hugh Mackinnon	The University of New South Wales	AUSTRALIA
CROOM, Scott	Anglo-Australian Observatory	AUSTRALIA
CROSS, Nicholas	Johns Hopkins University	USA
CROSTA, Maria Teresa	Observatory Of Turin	ITALY
CROTTS, Arlin	Columbia University	USA
CRUIKSHANK, Dale P.	NASA Ames Research Center	USA
CUI, Chenzhou	National Astronomical Observatories, CAS	CHINA
CUI, Xiangqun	Nanjing Institute Of Astronomical Optics & Technology	CHINA
CULLUM, Martin	European Southern Observatory	GERMANY
CUNHA, Katia	Observatorio Nacional - McT	BRAZIL
CUNTZ, Manfred	University Of Texas	USA
CURRAN, Stephen	The University of New South Wales	AUSTRALIA
D'ALESSIO, Paola	Universidad Nacional Autonoma De Mexico	MEXICO
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STENCEL, Robert	University of Denver	USA
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STEPHENSON, Francis Richard	University of Durham	UK
STEPIEN, Kazimierz	Warsaw University Observatory	POLAND
STEPP, Lawrence	Gemini Observatory	USA
STERKEN, Chris	University of Brussels (VUB)	BELGIUM
STEVENS, Jamie	The University of Melbourne	AUSTRALIA
STICKEL, Manfred	Max-Planck-Institute For Astronomy	GERMANY
STOFAN, Ellen	Proxemy Research	USA
STOLMAR, Aladar	Stolmar Corporation	USA
STOLTE, Andrea	Max-Planck-Institute For Astronomy	GERMANY
STOREY, John	The University of New South Wales	AUSTRALIA
STOREY, Michelle	ATNF/CSIRO	AUSTRALIA
STRASSMEIER, Klaus G.	Astrophysical Institute Potsdam	GERMANY
STRATEN VAN, Willem	Netherlands Foundation For Research In Astronomy	THE NETHERLANDS
STRINGFELLOW, Guy	University Of Colorado	USA
STROBEL, Darrell F.	Johns Hopkins University	USA
STROM, Richard	ASTRON	THE NETHERLANDS
STRUCK, Curtis	Iowa State University	USA
STUPAR, Milorad	Macquarie University	AUSTRALIA
SU, Ding-Qiang	National Astronomical Observatories, CAS	CHINA
SUESS, Steven	NASA Marchall Space Flight Centre	USA

DELEGATE LIST

Name	Organisation	Country
SUGITANI, Koji	Nagoya City University	JAPAN
SULLIVAN, Woodruff	University of Washington	USA
SUNADA, Kazuyoshi	Nobeyama Radio Observatory	JAPAN
SUNG, Eon-Chang	Korea Astronomy Observatory	KOREA
SUNYAEV, Rashid	Max-Planck-Institute For Astrophysics	GERMANY
SUSUKITA, Ryutaro	The Institute of Physical and Chemical Research (RIKEN)	JAPAN
SUTHERLAND, Ralph S.	Australian National University	AUSTRALIA
SUTO, Yasushi	University of Tokyo	JAPAN
SUZUKI, Takeru	Kyoto University	JAPAN
SVENSON, Nic	The Sun Herald	AUSTRALIA
SWAIN, Mark	Jet Propulsion Laboratory	USA
SWATERS, Rob	Johns Hopkins University	USA
SWEATMAN, Winston	Massey University, Albany	NEW ZEALAND
SWINGS, Jean Pierre	University of Liege	BELGIUM
SZALAY, Alexander	The Johns Hopkins University	USA
SZKODY, Paula	University of Washington	USA
TACHIHARA, Kengo	University Observatory of Jena	GERMANY
TAKADA-HIDAI, Masahide	Tokai University	JAPAN
TAKAHASHI, Fujinobu	Communications Research Laboratory	JAPAN
TAKAHASHI, Rohta	Kyoto University	JAPAN
TAKAKUWA, Shigehisa	Harvard Smithsonian Center For Astrophysics	USA
TAKAMI, Michihiro	University Of Hertfordshire	UK
TAKANO, Shuro	Nobeyama Radio Observatory	JAPAN
TAKEUCHI, Tsutomu	National Astronomical Observatory	JAPAN
TAMURA, Motohide	National Astronomical Observatory	JAPAN
TAN, Alison		
TANAKA, Masahiro	National Astronomical Observatory	JAPAN
TANAKA, Yasuo	Max-Planck-Institut Fuer Extraterrestrische Physik	GERMANY
TANGO, William	University of Sydney	AUSTRALIA
TANIGUCHI, Yoshiaki	Tohoku University	JAPAN
TANIKAWA, Kiyotaka	National Astronomical Observatory	JAPAN
TANUMA, Syuniti	Kyoto University	JAPAN
TAPIA, Mauricio	Instituto De Astronomia, UNAM	MEXICO
TARENGHI, Massimo	Alma	GERMANY
TARTER, C. Bruce	Lawrence Livermore National Laboratory	USA
TARTER, Jill	SETI Institute	USA
TATEKAWA, Takayuki	Waseda University	JAPAN
TATEMATSU, Ken'ichi	National Astronomical Observatory	JAPAN
TATULLI, Eric	Observatoire Grenoble (LAOG)	FRANCE
TAUTVAISIENE, Grazina	Vilnius University	LITHUANIA
TAYLOR, A. Russell	SKA: International SKA Secretariat	CANADA
TAYLOR, Edward	The University of Melbourne	AUSTRALIA
TAYLOR, James	University of Oxford	UK
TAYLOR, Joseph	Princeton University	USA
TEDESCO, Edward	TerraSystems, Inc.	USA
TEMPORIN, Sonia Giovanna	University Of Innsbruck	AUSTRIA
TEN BOOM, Paul Geert	The University of New South Wales	AUSTRALIA
TEN BRUMMELAAR, Theo	Georgia State University	USA
TERRILE, Richard	Jet Propulsion Lab	USA
TESTI, Leonardo	Osservatorio Astrofisico Di Arcetri	ITALY
THEIS, Christian	University of Kiel	GERMANY
THOLEN, David J.	University of Hawaii	USA
THOM, Christopher	Swinburne University of Technology	AUSTRALIA
THOMAS, Daniel	Max-Planck-Institut Fuer Extraterrestrische Physik	GERMANY
THOMAS, Maik	Technical University Dresden	GERMANY
THOMAS, Nicolas	University Of Bern	SWITZERLAND
THOMPSON, David	NASA/GSFC	USA
THOMPSON, Rodger I.	University of Arizona	USA
THUILLOT, William	IMCCE/Paris Observatory	FRANCE
THURL, Christine	Mount Stromlo Observatory	AUSTRALIA
TIAN, Lanlan	Purple Mountain Observatory	CHINA

DELEGATE LIST

Name	Organisation	Country
TIAN, Lirong	National Astronomical Observatories, CAS	CHINA
TICHA, Jana	Klet Observatory	CZECH REPUBLIC
TICHY, Milos	Klet Observatory	CZECH REPUBLIC
TINNEY, Chris	Anglo-Australian Observatory	AUSTRALIA
TIPLADY, Adrian	Rhodes University	SOUTH AFRICA
TISSERA, Patricia	Institute Of Astronomy & Space Science	ARGENTINA
TITLE, Alan	LMATC	USA
TITOV, Oleg	Geoscience Australia	AUSTRALIA
TOKOVININ, Andrei	Cerro Tololo Inter-American Observatory	CHILE
TOLBERT, Charles	University of Virginia	USA
TOLSTOY, Eline	Kapteyn Astronomical Institute	THE NETHERLANDS
TOOMRE, Alar	Massachusetts Institute Of Technology	USA
TORRES-PEIMBERT, Silvia	Universidad Nacional A. De Mexico	MEXICO
TORTORA, Paolo	University Of Bologna	ITALY
TOTANI, Tomonori	Kyoto University	JAPAN
TOTHILL, Nicholas	Smithsonian Astrophysical Observatory	USA
TOVMASIAN, Gagik	Observatorio Astronomico Nacional	MEXICO
TOYOZUMI, Hiroyuki	The University of New South Wales	AUSTRALIA
TRAN, Le		
TRAUB, Wesley	Harvard-Smithsonian Center For Astrophysics	USA
TRAVOUILLON, Tony	The University of New South Wales	AUSTRALIA
TRESCHMAN, Keith	The Glennie School	AUSTRALIA
TREU, Tommaso	California Institute Of Technology	USA
TRIMBLE, Virginia	University of California	USA
TROTT, Cathryn	The University of Melbourne	AUSTRALIA
TSUBOI, Yohko	Chuo University	JAPAN
TSUBOTA, Yukimasa	Keio Senior High School	JAPAN
TSUJIMOTO, Takuji	National Astronomical Observatory	JAPAN
TSURUTA, Sachiko	Montana State University	USA
TSVETANOV, Zlatan	NASA Headquarters	USA
TSVETKOV, Milcho	Bulgarian Academy Of Sciences	BULGARIA
TUCCI, Marco Lorenzo	Instituto De Fisica De Cantabria	SPAIN
TULLY, R. Brent	University of Hawaii	USA
TUNTSOV, Artem	Gazeta.ru	RUSSIAN FEDERATION
TUOMINEN, Ilkka	University of Oulu	FINLAND
TURATTO, Massimo	Instituto Nazionale Di Astrofisica	ITALY
TURCK-CHIEZE, Sylvaine	SAP/DAPNIA/DSM/CEA	FRANCE
TURNER, Jean	UCLA	USA
TURNER, Nils	Georgia State University	USA
TURTLE, Anthony	The University of Sydney	AUSTRALIA
TUTHILL, Peter	The University of Sydney	AUSTRALIA
TYLER, G. Leonard	Stanford University	USA
TZANAVARIS, Panayiotis	The University of New South Wales	AUSTRALIA
TZIOTZIOU, Konstantinos	Sterrekundig Instituut, Universiteit Utrecht	THE NETHERLANDS
TZIOUMIS, Anastasios	ATNF/CSIRO	AUSTRALIA
UDALSKI, Andrzej	Warsaw University Observatory	POLAND
UDAYA SHANKAR, Narayana Rao	Raman Research Institute	INDIA
UITENBROEK, Han	National Solar Observatory	USA
UJIHARA, Hideki	National Astronomical Observatory	JAPAN
UMEKAWA, Michihisa	Kyoto University	JAPAN
UMEMOTO, Tomofumi	National Astronomical Observatory	JAPAN
URBAN, Sean	U.S. Naval Observatory	USA
VAISANEN, Petri	European Southern Observatory	CHILE
VALDEZ-GUTIERREZ, Margarita	Mount Stromlo Observatory	AUSTRALIA
VALENZIANO, Luca	CNR- IASF	ITALY
VALSECCHI, Giovanni Battista	Istituto Di Astrofisica Spaziale E Fisica Cosmica	ITALY
VAN ALTENA, William F	Yale University	USA
VAN BREUGEL, Wil	UC / LLNL	USA
VAN CITTERS, Wayne	NSF	USA
VANDAS, Marek	Astronomical Institute	CZECH REPUBLIC
VANDENBERG, Don	University of Victoria	CANADA

DELEGATE LIST

Name	Organisation	Country
VAN DER HUCHT, Karel A.	Space Research Organization Netherlands	THE NETHERLANDS
VAN DER HULST, J.M.	Kapteyn Astronomical Institute	THE NETHERLANDS
VAN DER KRUIT, Pieter C.	Kapteyn Astronomical Institute	THE NETHERLANDS
VAN DER SWALUW, Eric	FOM Institute For Plasma Physics Rijnhuizen	THE NETHERLANDS
VAN DER TAK, Floris	Max-Planck-Institute For Radioastronomy	GERMANY
VAN DE VEN, Glenn	Sterrewacht Leiden	THE NETHERLANDS
VAN DISHOECK, Ewine F	Leiden Observatory	THE NETHERLANDS
VAN DRIEL, Wim	Observatoire De Paris-Meudon	FRANCE
VAN DRIEL-GESZTELYI, Lidia	University College London	FRANCE
VAN DYK, Schuyler	IPAC/Caltech	USA
VAN GORKOM, Jacqueline	Columbia University	USA
VAN KERKWIJK, Marten	University of Toronto	CANADA
VAN LEEUWEN, Joeri	Utrecht University	THE NETHERLANDS
VASAN, Arvind	The University of Melbourne	AUSTRALIA
VAUCLAIR, Sylvie	Observatoire Midi-Pyrenees	FRANCE
VAUGHAN, Alan	Macquarie University	AUSTRALIA
VAZQUEZ-SEMADENI, Enrique	Instituto De Astronomia-Morelia, UNAM	MEXICO
VEILLET, Christian	Canada-France-Hawaii Telescope Corporation	USA
VEILLEUX, Sylvain	University of Maryland	USA
VELUSAMY, Thangasamy	Jet Propulsion Laboratory	USA
VENNES, Stephane	Australian National University	AUSTRALIA
VERBUNT, Frank	Astronomical Institute Utrecht	THE NETHERLANDS
VERDES-MONTENEGRO, Lourdes	Instituto De Astrofisica De Asdaleca	SPAIN
VERHEIJEN, Marc	Astrophysical Institute Potsdam	GERMANY
VERNER, Ekaterina M.	NASA/GSFC	USA
VESPERINI, Enrico	Michigan State University	USA
VIANA, Pedro	Universidade Do Porto	PORTUGAL
VIDAL-MADJAR, Alfred	Institut D'Astrophysique De Paris	FRANCE
VIK, Tonu (Tony)	Tartu Observatory	ESTONIA
VINK, Jacob	Columbia University	USA
VONDRAK, Jan	Astronomical Institute	CZECH REPUBLIC
VON HIPPEL, Ted	The University of Texas At Austin	USA
VORONKOV, Maxim	ATNF/CSIRO	AUSTRALIA
VRANESEVIC, Natasa	The University of Sydney	AUSTRALIA
VRTILEK, Jan M.	Harvard-Smithsonian Center For Astrophysics	USA
VRTILEK, Saeqa Dil	Harvard-Smithsonian Center For Astrophysics	USA
WADHWA, Surjit Singh	University of Wollongong	AUSTRALIA
WAGNER, Stefan	Landessternwarte	GERMANY
WAINSCOAT, Richard	University of Hawaii	USA
WAKAMATSU, Ken-Ichi	Gifu University	JAPAN
WAKKER, Bart	University of Wisconsin-Madison	USA
WALKER, Christina	University of St Andrews	UK
WALKER, Constance	National Optical Astronomy Observatory	USA
WALKER, Mark	The University of Sydney	AUSTRALIA
WALKER, Matthew G.	University of Michigan	USA
WALL, Jasper	University of British Columbia	CANADA
WALLACE, Patrick	Rutherford Appleton Laboratory	UK
WALSH, Andrew	Harvard-Smithsonian Center For Astrophysics	USA
WALSH, Robert	Centre For Astrophysics	UK
WALSH, Wilfred	Harvard Smithsonian Center For Astrophysics	USA
WALTER, Fabian	National Radio Astronomy Observatory	USA
WALTER, Frederick M.	Stony Brook University	USA
WALTON, Nicholas	University Of Cambridge	UK
WAMBSGANSS, Joachim	Universitaet Potsdam	GERMANY
WANG, Hua-Xiang	Urumqi Astronomical Observatory, NAOC	CHINA
WANG, Jingxiu	National Astronomical Observatories, CAS	CHINA
WANG, Jun-Jie	National Astronomical Observatories, CAS	CHINA
WANG, Nina	The University of Sydney	AUSTRALIA
WANG, Tonjiang	Max-Planck-Institute For Astronomy	GERMANY
WANG, Xiankun	Shanghai Astronomical Observatory	CHINA
WANG, Xuyan Rosalind	The University of Sydney	AUSTRALIA

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Name	Organisation	Country
WANG, Yiping	Purple Mountain Observatory	CHINA
WANG, Zhengming	ShaaXi Astronomical Observatory	CHINA
WARD, Martin	University of Leicester	UK
WARD-THOMPSON, Derek	Cardiff University	UK
WARDLE, Mark	Macquarie University	AUSTRALIA
WARELL, Johan	Uppsala University	SWEDEN
WARK, Robin	ATNF/CSIRO	AUSTRALIA
WARNER, Brian	University of Cape Town	SOUTH AFRICA
WARR, George	ATNF/CSIRO	AUSTRALIA
WARREN, Bradley Evan	Australian National University	AUSTRALIA
WARREN, Harry	Naval Research Laboratory	USA
WARREN, Steve	Imperial College London	UK
WATANABE, Jun-Ichi	National Astronomical Observatory	JAPAN
WATANABE, Naoki	Hokkaido University	JAPAN
WATSON, Christopher	University of Sheffield	UK
WATSON, Fred	Anglo-Australian Observatory	AUSTRALIA
WAUGH, Meryl	The University of Melbourne	AUSTRALIA
WAYTH, Randall	The University of Melbourne	AUSTRALIA
WEBB, David	Boston College	USA
WEBB, John	The University of New South Wales	AUSTRALIA
WEBSTER, Rachel Lindsey	The University of Melbourne	AUSTRALIA
WEBSTER, Zodiac	California State University	USA
WEHLAU, Amelia	The University of Western Ontario	CANADA
WEINER, Benjamin	UCO/Lick Observatory	USA
WEIS, Edward	Wesleyan University	USA
WEISHEIT, Jon	Los Alamos National Laboratory	USA
WEISS, Achim	Max-Planck-Institute For Astrophysics	GERMANY
WEISS, Werner W.	Department Of Astronomy	AUSTRIA
WELCH, Doug	McMaster University	CANADA
WELDRAKE, David Thomas Frederick	Australian National University	AUSTRALIA
WELLS, Donald C	National Radio Astronomy Observatory	USA
WELSCH, Brian	University of California	USA
WELTY, Daniel	University of Chicago	USA
WEST, Michael	University of Hawaii	USA
WHEATLAND, Mike	The University of Sydney	AUSTRALIA
WHITE, Gavin	Vision Design Studio	AUSTRALIA
WHITE, Graeme	James Cook University	AUSTRALIA
WHITE, James	Rhodes College	USA
WHITE, Simon	Max-Planck-Institute For Astrophysics	GERMANY
WHITELOCK, Patricia	South African Astronomical Observatory	SOUTH AFRICA
WHITEOAK, John	ATNF/CSIRO	AUSTRALIA
WHITING, Alan	Cerro Tololo Inter-American Observatory	CHILE
WHITING, Matthew	The University of New South Wales	AUSTRALIA
WHITWORTH, Anthony	Cardiff University	UK
WICKRAMASINGHE, Dayal	Australian National University	AUSTRALIA
WICKRAMASINGHE, Thulsi	The College of New Jersey	USA
WIDEMANN, Thomas	Observatoire De Paris-Meudon	FRANCE
WIELEBINSKI, Richard	Max-Planck-Institute For Radioastronomy	GERMANY
WIERINGA, Mark	ATNF/CSIRO	AUSTRALIA
WIKLIND, Tommy	Space Telescope Science Institute	USA
WILKINSON, Mark	University Of Cambridge	UK
WILKINSON, Philip James	IPS Radio & Space Services	AUSTRALIA
WILLES, Andrew	University of Sydney	AUSTRALIA
WILLIAMS, Gareth	Smithsonian Astrophysical Observatory	USA
WILLIAMS, Iwan	Queen Mary, University Of London	UK
WILLIAMS, Kurtis	Steward Observatory	USA
WILLIAMS, Mary Elaine Kathleen	Australian National University	AUSTRALIA
WILLIAMS, Peter	Shanghai Astronomical Observatory	CHINA
WILLIAMS, Robert	Space Telescope Science Institute	USA
WILLIAMS, Thomas R.	Rice University	USA
WILLIS, Allan James	University College London	UK

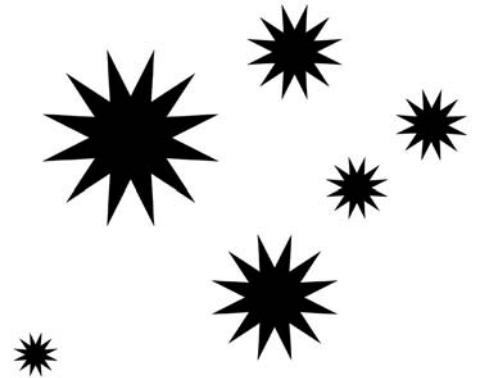
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Name	Organisation	Country
WILLIS, Jon Paul	European Southern Observatory	CHILE
WILNER, David	Harvard-Smithsonian Center For Astrophysics	USA
WILSON, Reg		AUSTRALIA
WILSON, Robert E	Astronomy Department	USA
WIMMER-SCHWEINGRUBER, Robert	Extraterrestrial Physics	GERMANY
WING, Robert F.	The Ohio State University	USA
WINKLER, P. Frank	Middlebury College	USA
WOLF, Sebastian	California Institute Of Technology	USA
WOLFE, Arthur	University of California	USA
WOLFF, Sidney	National Optical Astronomy Observatory	USA
WOLK, Scott	Harvard-Smithsonian Center For Astrophysics	USA
WOLTJER, Lodewijk	Observatoire De Haute Provence	FRANCE
WONG, O. Ivy	The University of Melbourne	AUSTRALIA
WONG, Tamae	US National Academy of Sciences	USA
WONG, Tony	ATNF/CSIRO	AUSTRALIA
WOOD, Kent S.	Naval Research Laboratory	USA
WOODEN, Diane	NASA Ames Research Center	USA
WOODEN, William	U.S. Naval Observatory	USA
WOODS, Leslie	University of Oxford	UK
WORRALL, Diana	University of Bristol	UK
WOUDT, Patrick Alan	University of Cape Town	SOUTH AFRICA
WRIGHT, Jason	University of California	USA
WU, Kinwah	University College London	UK
WU, Phillip		
WU, Shi Tsan	The University of Alabama In Huntsville	USA
WULANDARI, Hesti	TU Munich	GERMANY
WYITHE, Stuart	The University of Melbourne	AUSTRALIA
WYSE, Rosemary	The Johns Hopkins University	USA
XIA, Xiaoyang	Tianjin Normal University	CHINA
XU, Dawei	National Astronomical Observatories, CAS	CHINA
XU, Renxin	Peking University	CHINA
XUE, Suijian	National Astronomical Observatories, CAS	CHINA
YAHAGI, Hideki	National Astronomical Observatory	JAPAN
YAMAGUCHI, Nobuyuki	National Astronomical Observatory	JAPAN
YAMAMOTO, Tetsuo	Nagoya University	JAPAN
YAMAOKA, Hitoshi	Kyushu University	JAPAN
YAMASHITA, Koujun	Nagoya University	JAPAN
YAMASHITA, Takuya	Subaru Telescope, NAOJ	USA
YAN, Yihua	National Astronomical Observatories, CAS	CHINA
YANAMANDRA-FISHER, Padma	Jet Propulsion Laboratory	USA
YANG, Dehua	Nanjing Institute Of Astronomical Optics & Technology	CHINA
YANG, Tinggao	ShaaXi Astronomical Observatory	CHINA
YANO, Taihei	National Astronomical Observatory	JAPAN
YAO, Dazhi	Purple Mountain Observatory	CHINA
YAO, Yongqiang	Purple Mountain Observatory	CHINA
YAQOOB, Tahir	Johns Hopkins University	USA
YASUDA, Naoki	National Astronomical Observatory	JAPAN
YE, Binxun	National Astronomical Observatories, CAS	CHINA
YE, Shuhua	Shanghai Astronomical Observatory	CHINA
YEOMANS, Donald	Jet Propulsion Laboratory	USA
YI, Meiliang	National Astronomical Observatories, CAS	CHINA
YISHAMUDING, Aili	Urumqi Observotry	CHINA
YOCK, Philip	University of Auckland	NEW ZEALAND
YOKOGAWA, Sozo	The Graduate University for Advanced Studies	JAPAN
YONEHARA, Atsunori	University Of Tsukuba	JAPAN
YORKE, Harold W.	Jet Propulsion Laboratory	USA
YOSHIDA, Michitoshi	Okayama Astrophysical Observatory	JAPAN
YOSHIKAWA, Makoto	Institute Of Space & Astronautical Science	JAPAN
YOSHIMURA, Hirokazu	University of Tokyo	JAPAN
YOUNG, Matthew	The University of Western Australia	AUSTRALIA
YU, Zhi-Yao	Shanghai Astronomical Observatory	CHINA

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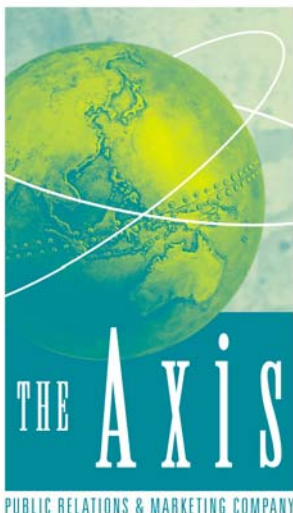
Name	Organisation	Country
YUAN, Qirong	Nanjing Normal University	CHINA
YUNGELSON, Lev	Russian Academy Of Sciences	RUSSIAN FEDERATION
ZACHARIAS, Marion I.	U.S. Naval Observatory, AD	USA
ZACHARIAS, Norbert	U.S. Naval Observatory, AD	USA
ZACKRISSON, Erik	Uppsala Astronomical Observatory	SWEDEN
ZACS, Laimons	Institute Of Atomic Physics & Spectroscopy	LATVIA
ZEALEY, William	University of Wollongong	AUSTRALIA
ZEPF, Stephen	Michigan State University	USA
ZHANG, Chengmin	The University of Sydney	AUSTRALIA
ZHANG, Heng	Yunnan Observatory	CHINA
ZHANG, Honqqi	National Astronomical Observatories, CAS	CHINA
ZHANG, Jun	National Astronomical Observatories, CAS	CHINA
ZHANG, Qizhou	Harvard-Smithsonian Center For Astrophysics	USA
ZHANG, Shuang Nan	Tsinghua University	CHINA
ZHANG, Xiaolei	US Naval Research Laboratory	USA
ZHANG, Youhong	Tsinghua University	CHINA
ZHAO, Haibin	Purple Mountain Observatory	CHINA
ZHAO, Junliang	Shanghai Astronomical Observatory	CHINA
ZHAO, Xuepu	Stanford University	USA
ZHAO, Yongheng	National Astronomical Observatories, CAS	CHINA
ZHARKOVA, Valentina	Bradford University	UK
ZHOU, Ji-Lin	Nanjing University	CHINA
ZHOU, Jianfeng	Tsinghua University	CHINA
ZHU, Yongtian	Nanjing Institute Of Astronomical Optics & Technology	CHINA
ZINNECKER, Hans	Astrophysical Institute Potsdam	GERMANY
ZISKIN, Viktor	Institut D'Astrophysique De Paris	FRANCE
ZIURYS, Lucy M.	University of Arizona	USA
ZUO, Yingxi	Purple Mountain Observatory	CHINA
ZWAAN, Martin	The University of Melbourne	AUSTRALIA

The Australian
Festival of Astronomy
meet the stars - all july 2003



MARKETING REPORT

**Prepared by Paula Opfer –
The Axis Public Relations & Marketing Company
Prepared on 28/8/03**



EXECUTIVE SUMMARY

Objective:

Using a budget of \$20,000 including expenses over the month of July to:

generate general awareness, interest and knowledge of astronomy;

generate attendance at the public associated events for the IAU's 25th General Assembly.

Strategies

- 1) To publicise the speakers for the public talks and their specific topics by relevance/by location;
- 2) To publicise The Australian Festival of Astronomy's general events program and specific major events; and
- 3) To organise giveaways to AstroExpo and the three major talks at the Harbourside Auditorium.

This was achieved by using existing interview and media resources and by developing new media contacts.

Coverage Achieved – APPENDIX 0

The media coverage attained equated to: \$1,451,242 in advertising buy value and \$27,573,598

Press & Print Coverage

Advertising Value: \$253,315 based on casual advertising rates

Editorial Value: \$4,812,985 in terms of publicity value.

Television Coverage

Advertising Value: \$380,638 based on casual advertising rates

Editorial Value: \$7,232,122 in terms of publicity value.

Radio Coverage

Advertising Value: \$817,289 based on casual advertising rates

Editorial Value: \$15,528,486 in terms of publicity value.

Website Coverage

Not monitored thoroughly.

Public Attendance

The following figures have been supplied:

Sydney Public Events

Friday 11 July David Malin - 280

Saturday 12 July Bryan Gaensler - 120

Sunday 13 July Heather Couper & Nigel Henbest - 170

Monday 14 July Paul Davies - 500 (including IAU participants)

Thursday 17 July - Asteroid forum - 300 (including IAU participants)

Friday 18 July - Heather Couper & Nigel Henbest, Parramatta - 250

Saturday 19 July - AstroExpo 4 talks - each 120

Sunday 20 July - AstroExpo 3 talks - each 120

Sunday 20 July - AstroExpo 1 talk (Experiencing the Cosmos) - 40

Sunday 20 July - Dr Jill Tarter, Parramatta - 220

Sunday 20 July - FANS North Sydney - 2075

Monday 21 July - Bob Kirshner - 450 (including IAU participants)

Saturday 26 July - Teachers Day - 41

Outside Sydney Talks

Perth - Don Kurtz - 175

Melbourne - Don Kurtz - 49

Melbourne - Heather Couper & Nigel Henbest - 70

Brisbane - Heather Couper & Nigel Henbest - 200

Wagga - Heather Couper - 120

Parkes - Nigel Henbest - 67

Canberra - Robert Walsh - 51

Adelaide - Robert Walsh - 100

Wollongong - Robert Walsh - 95

CONSIDERATIONS FOR NEXT CONFERENCE

Budget

PR budget was far from sufficient. Over half went to expenses including flyer production, printing and distribution, postage, logo design, media monitoring, parking, couriers, internal printing, stationery, international, interstate and mobile telephone calls etc.

Given that approximately 300 head hours were invested into this project at a senior consultant rate of \$150 per hour the true cost should have been \$45,000 for head hours alone.

Advertising

Major talks needed advertising support. As these talks were either topical or of general interest to the media so many of the media did not cover the event until afterwards as actually attended for further research.

Lead Time

The publicity program started six weeks prior and needed to be at least eight to 12 weeks prior primarily for sourcing information and securing exposure in long lead publications and special features.

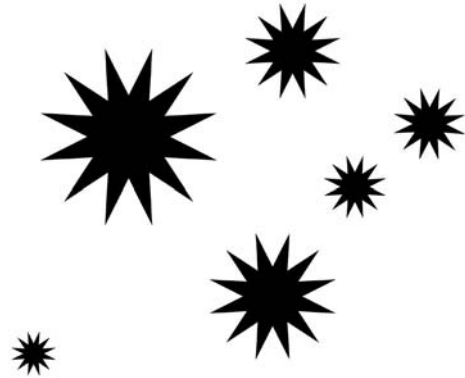
Conference and Festival Publicity Consideration

The sheer amount of stories presented to the media in such a short amount of time ended up causing saturation with stories being rejected by the second week of the conference/third and fourth week of the public program.

LOGO

Repositioned the public associated events of the IAU 25th General Assembly under the banner of:

**The Australian
Festival of Astronomy**
meet the stars - all july 2003



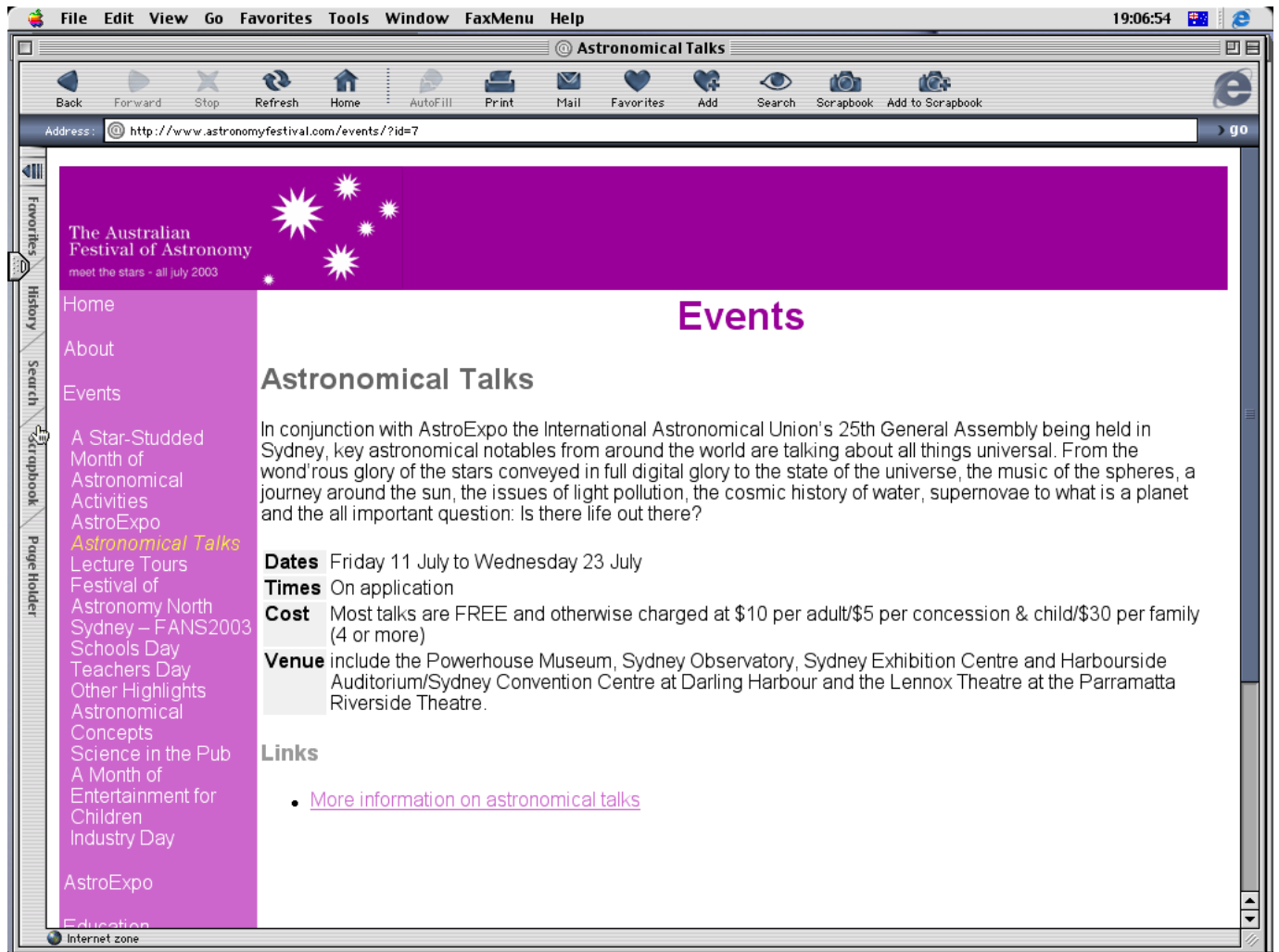
This logo was used on all publicity material, advertisements, promotional flyer, lecterns and presentation backgrounds.

Banners at major RTA bridges were considered but cost vs relevant exposure negated this option.

WEBSITE

Registered the domain name: www.astronomyfestival.com

Site included information on all the public events, profiles on the speakers and the exhibitors (including links to their websites) with a daily bulletin board on the home page.



The site could be accessed via the home page of www.astronomy2003.com or independently.

The site was up from July 1 and promoted through all media releases and some articles.

MEDIA BRIEFING AND MEDIA KIT

Media Briefing

A media briefing was initiated to incite interest in the festival and conference.

This was held at Sydney Observatory and included Professor Ron Ekers on how Australia fits into the global picture of Astronomy and the significance of the IAU meeting, Nick Lomb on the festival program, Tony Barry of Connell Wagner on Australian industry's involvement with astronomy and David Malin on Astronomy's role in the discovery and development of Australia,

Attendees included: Sydney Morning Herald News, Sun Herald Science, Radio National Breakfast, ABC News, ABC Online, Channel 7 Big Arvo, Scicom, AAP and members of the German and Japanese press.

Direct response was SMH page 5 and ABC News interview with Ron Ekers and five week interview series on Radio National Breakfast, Big Arvo segment to be aired September, AAP interest in the festival and international press interest in the conference.

Media Kit – APPENDIX 1

A media kit was developed which covered the festival program, speakers and their talks, calendar of events, AstroExpo and its specialist days as well as Conference content and media registration.

The kit was disseminated to attendees and to key media who were unable to attend.

All the media were followed up and elements of the kit were then expanded and distributed to specifically targeted mediums.

SPEAKER PROGRAM ARTICLES AND MAJOR EVENTS

Speakers - APPENDIX 2

Articles focusing on speakers and more indepth information on their talks supported by visuals were disseminated to targeted media as appropriate. They were also tailored to suit the venue and/or location – this was particularly relevant for the interstate talks.

Giveaways were organised with City Weekly for the Harbourside Talks. Book giveaways were also organised but not used.

Festival - APPENDIX 3

The festival calendar of events was broken down by week and targeted to the entertainment and children's TV programming media. Plus a children's media release was distributed to promote the school holidays program covering the events at both Sydney Observatory and Powerhouse Museum.

AstroExpo - APPENDIX 4

AstroExpo and its individual program was publicised to a wide target media using a variety of angles including the Live Cross, the speaker's specialties and the Schools Day.

It was promoted with a giveaway campaign on the afternoon program for both Saturday and Sunday on Radio 2GB. Tickets were also given away through NewScientist and Night Sky.

Festival of Astronomy North Sydney - APPENDIX 5

This was publicised within the local community, to the metro and to the electronic media. Again a variety of angles were used from amateur astronomy, opposition of Mars, David Malin's images, light pollution and location/local business community co-operation.

Education – APPENDIX 6

Publicised the Schools Day and Teachers Day programs to the education media.

Careers

Organised profile story with a young astronomer to promote Astronomy as a career.

Other Opportunities

Publicised the fact that Mars was in opposition in August to leverage the Mars talks.

DIRECT MAIL

Festival Flyer - APPENDIX 7

Developed, produced and printed 7,500 flyers for distribution to conference delegates in their bags, at registration desks and notice boards, Sydney Observatory reception, Sydney Observatory talk, Powerhouse Museum reception and cloaking, at Powerhouse Museum talks, at Harbourside Auditorium talks, to AAO and ATNF lists and to North Sydney community. It was also placed in The Magellanic Times on Day One.

Education Flyers - APPENDIX 8

Developed, produced, printed and distributed Schools Day and Teachers Day Flyers to metro schools' science teachers.

Sourced list through Michael Burton at University of New South Wales.

Powerhouse Museum E.Newsletter – APPENDIX 9

General information on Festival included within the July members newsletter.

Suburban Mail Drop

This was researched but not proceeded with due to distribution costs.

ADVERTISING

David Malin Advertisement - APPENDIX 10

This was funded by a trust.

Wrote, designed and bought media space. Secured page 3 of Sydney Morning Herald on 9/7.

NewScientist Advertisements - APPENDICES 11 & 12

These advertisements were contra for a display stand at AstroExpo.

Design and artwork costs were funded through the PR budget.

The first advertisement covered The Australian Festival of Astronomy.

The second was advertisement focused on AstroExpo.

Special Feature

Approached Sun Herald but was advised that a special feature would need to have been presented for consideration some 18months prior.

Approached Sunday Telegraph and supplied list of potential advertisers. These contacts were approached but were not prepared to invest so the feature did not proceed.