



ACN 052 416 083



SolarPACES



Wednesday 8
to Friday 10
March 2000

Sydney
Australia

Renewable Energy for the New Millennium

Keynote speakers include:

Australia...

Professor Martin Green

Director, Centre for Photovoltaic Devices and Systems
University of New South Wales

Gordon Thompson

Managing Director
International Centre for Application of Solar Energy (CASE)
and Chairman, Solar Energy Industries Association

International...

Rainer Aringhoff

Secretary General
European Solar Thermal Power Industry Association; and
Vice President
Pilkington Solar International, Germany

Erik Lysen

Chairman, Executive Committee
International Energy Agency PVPS Programme, The Netherlands

Combining three renewable energy showcase conferences in one event, this major international forum offers a unique opportunity to hear and meet with world leaders in this dynamic and progressive sector.

Endorsed by:



The Australian and New Zealand Solar Energy Society

Final Program

plenary sessions

WEDNESDAY 9 am to 10.45 am : OPENING

Chair: **Keith Orchison**
Managing Director
Electricity Supply Association of Australia Limited

Senior Australian government representative
(name to be advised)

Professor Martin Green
Director
Centre for Photovoltaic Devices and Systems
University of New South Wales, Australia

Senior Advisor
World Bank (USA) (to be confirmed)

THURSDAY 9 am to 10.30 am : KEYNOTE ADDRESSES

Rainer Aringhoff
Secretary General
European Solar Thermal Power Industry Association; and
Vice President
Pilkington Solar International, Germany

Erik Lysen
Chairman, Executive Committee
International Energy Agency PVPS Programme, The Netherlands

Gordon Thompson
Managing Director
International Centre for Application of Solar Energy (CASE); and
Chairman, Solar Energy Industries Association, Australia

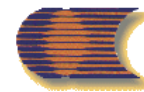
FRIDAY 2 pm to 3.30 pm : OPEN FORUM

Facilitator: **Professor Ian Lowe**
Professor of Energy and Environment
Griffith University, Australia

followed by summary and closing remarks

Keith Orchison
Managing Director
Electricity Supply Association of Australia Limited

Close of conference : 4 pm



WEDNESDAY

11.15 am to 12.45 pm

INTERNATIONAL DRIVERS FOR RENEWABLES

USA

- ❖ *John Scowcroft*, Head of Environment and Sustainable Development, The Union of the Electricity Industry, EURELECTRIC, Belgium

SOUTH EAST ASIA

- ❖ *Mr Pinij Siripruekpong*
Head of Renewable Energy Development Dvn EGAT, Thailand

AUSTRALIA

- ❖ *Dr Frank Reid*, Managing Director
ACRE Ltd, Australia

2 pm to 3.30 pm

NATIONAL DRIVERS FOR RENEWABLES

FEDERAL GOVERNMENT'S EMERGING AND RENEWABLE ENERGY ACTION AGENDA

- ❖ *Craig Pennifold*, General Manager
Pharmaceutical and Emerging Industries Branch, Department of Industry, Science and Resources, Australia

A STATE INITIATIVE: SEDA'S RENEWABLE ENERGY PROGRAM

- ❖ *Bruce Precious*, Acting CEO
Sustainable Energy Development Authority
Australia

RETAILING RENEWABLES

- ❖ *Malcolm Brodie*
Green Energy Products Manager
EnergyAustralia

4 pm - 5.20 pm

MARKETS FOR RENEWABLE ENERGY PRODUCTS

OVERVIEW FROM A UTILITY PERSPECTIVE

- ❖ *Adrian Chegwidde*n, Manager
Energy Technology and Environment
Western Power Corporation, Australia

WATER AND WIND

- ❖ *Hon Peter Rae*, Chairman
Hydro-Electric Corporation, Australia

BIOMASS

- ❖ *Dr Stephen Schuck*, Managing Consultant
Stephen Schuck & Associates, Australia

PHOTOVOLTAICS

- ❖ *David Jordan*, Engineering Best Practice Director
BP Solarex, Australia

THURSDAY

11am - 1 pm

FINANCING IN A COMPETITIVE ENERGY MARKETPLACE

THE ECONOMIC FRAMEWORK FOR RENEWABLES

- ❖ *Stephen Koukoulas*, Economics Analyst
The Australian Financial Review

VENTURE CAPITAL

- ❖ *Martin Poole*
ETI Management Pty Ltd, Australia

FEDERAL GOVERNMENT FINANCIAL INCENTIVES

- ❖ *Martin Walsh*, Manager Renewable Energy
Australian Greenhouse Office

INCENTIVES FOR RENEWABLE TECHNOLOGY EXPORTS

- ❖ *Martin Thomas* AM, Australia

FRIDAY

9 am - 10.30 am

ACCELERATING THE COMPETITIVENESS OF RENEWABLE ENERGY TECHNOLOGIES

COMPETITIVE STRATEGIES AND PRACTICAL SOLUTIONS

- ❖ *Kyle Datta*, Vice President
Energy Practice in Emerging Asia
BAH, USA

USING EXISTING INFRASTRUCTURE - CO-FIRING WITH BIOMASS

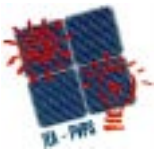
- ❖ *Grant Every-Burns*
Chief Executive Officer
Macquarie Generation, Australia

INTEGRATING RENEWABLES INTO A COHESIVE ENERGY MIX BY 2010

- ❖ *Dr John Wright*, Chief of Division
CSIRO Energy Technology, Australia

11 am to 12.30 pm WORKSHOP : MOVING TOWARDS A RENEWABLE FUTURE

- ❖ economic reality in a fossil fuel world
- ❖ renewable energy as the only really effective greenhouse response
- ❖ the good, the bad and the ugly - how to make renewables attractive to customers



concurrent sessions - PVPS

WEDNESDAY

11.15 am to 12.45 pm

POLICY, FINANCING AND BIPV

BIPV Overview & Getting PV into the marketplace in the Netherlands

- ❖ *Tony Schoen*, Operating Agent Task VII IEA PVPS Programme; and Manager, EcoFys, The Netherlands

A review of policy and financing mechanisms

- ❖ *Peter Lawley*
Business Development Manager
Pacific Solar, Australia

Summary of international survey on financing mechanisms for BIPV

- ❖ *Patrina Eiffert*
Research Fellow
National Renewable Energy Laboratory, USA

Japanese policy for getting PV into buildings

- ❖ *Takahiro Yamaguchi*
Manager
National Energy Development Organisation, Japan

2 pm to 3.30 pm

ARCHITECTURAL ISSUES IN BIPV Country Papers

UK	<i>David Lloyd Jones</i> , Director Studio E Architects
Germany	<i>Dr Ingo Hagemann</i> , Director Architekturburo
The Netherlands	<i>Tjerk Reijenga</i> , Director Bear Architecten
USA	<i>Steven Strong</i> , Director Solar Design Associates Inc

4 pm to 5.20 pm

ARCHITECTURAL ISSUES IN BIPV Country Papers (cont'd)

USA	<i>Gregory Kiss</i> , Director Kiss and Cathcart Architects
Japan	<i>Jiro Ohno</i> , Director Nihon Sekkei Inc
Italy	<i>Cinzia Abbate</i> , Director Officine di Architettura
Australia	<i>Dr Deo Prasad</i> Director SOLARCH Group University of New South Wales

THURSDAY

11 am to 1 pm

TECHNICAL AND INSTITUTIONAL ISSUES

- ❖ **Commercial scale grid connected PV: from theory to reality**
Neil Gordon, Manager - Sustainable Energy EnergyAustralia
- ❖ **Interconnection issues**
Reinhard Haas, Associate Professor
Institute of Energy Economics
Vienna University of Technology, Austria
- ❖ **Standards development for BIPV**
Ted Spooner, Research Fellow
PV Special Research Centre
University of New South Wales, Australia
- ❖ **System reliability issues**
Hermann Laukamp, Research Fellow
Fraunhofer Institute, Freiberg, Germany
- ❖ **Recent experiences in BIPV**
Richard Collins, Manager
BP Solar Australia Pty Ltd

FRIDAY

9 am to 10.30 am

WORKSHOP: FINANCING STRATEGIES AND MARKET TRANSFORMATION

- Leader:** *Dr Muriel Watt*, Project Scientist
PV Special Research Centre
University of New South Wales, Australia
- Panel:** *Patrina Eiffert*, Research Fellow
National Renewable Energy Laboratory, USA
Andrew Williams, Manager
Sustainable Energy Development Authority
Australia
Peter Toggweiler, Director
ENECOLO, Switzerland

11 am to 12.30 pm

WORKSHOP: EMERGING PRODUCTS AND INTEGRATION

- Leader:** *Paul Russevytl*, Director
Energy for Sustainable Development, UK
- Panel:** *Christian Roecker*, Manager
EPFL-LESO-PB, Switzerland
Henrik Sörenson, Manager
Esbensen Consulting Engineers, Denmark
Donna Munro, Manager
Halcrow Gilbert Energy Division, UK
Hideji Osawa, Manager
NEDO, Japan

WEDNESDAY	
11 am to 11.45 am	SolarPACES OPENING ❖ <i>Wolfgang Meike</i> , Chairman, SolarPACES Australia ❖ <i>Gary Burch</i> , Chairman, IEA SolarPACES Executive Committee, and Team Leader, Concentrating Solar Power Program, Office of Solar Energy Technologies US Department of Energy ❖ <i>Wilfried Grasse</i> , Executive Secretary, SolarPACES Committee
11.45 am to 12.45 pm	SOLAR THERMAL ELECTRIC POWER SYSTEMS Summary of the 10MW Solar Two tests and evaluations - ❖ <i>JE Pacheco</i> , Sandia PS10: A 10MW solar tower power plant for southern Spain - ❖ <i>R Osuna, et al</i> , Inabensa
2.00 pm to 2.30 pm	SOLAR THERMAL ELECTRIC POWER SYSTEMS (cont'd) Solar upgrading of fuels for generating of electricity - ❖ <i>U Fisher, et al</i> , Ormat

2.30 pm to 3.30 pm SOLAR THERMAL ELECTRIC POWER SYSTEMS Dish solar array combined with existing fossil fuelled steam turbine plant ❖ <i>S Kaneff</i> , ANUTECH Solar thermal supplementation of a coal fired plant ❖ <i>D Burbidge, DR Mills</i> , Stanwell, USYD CSP-Africa study ❖ <i>L Van Heerden</i> , Eskom	2.30 pm to 3.30 pm MEASUREMENT TECHNIQUES Measurement of concentrated solar radiation: the calorimeter ASTERIX ❖ <i>A Ferriere, B Rivoire</i> , CNRS Concentrated solar radiation measurement with video image processing and online fluxgauge calibration ❖ <i>R Lupfert, et al</i> , PSA Results of the second fluxmeter intercomparison campaign ❖ <i>J Kaluza, et al</i> , DLR
4 pm to 5.20 pm SOLAR THERMAL CONCENTRATING APPLICATIONS Aluminium production by carbothermal reduction of ore to Al-Si using high-temperature solar process heat ❖ <i>J P Murray</i> , Colorado School of Mines Economic evaluation of solar produced bulk and fine chemicals ❖ <i>K H Funken, et al</i> , DLR Solar hybrid methanol production from coal and natural gas ❖ <i>Y Tamaura</i> , Tokyo Institute of Technology	4 pm to 5.20 pm COMPONENT DEVELOPMENT EnerTracer: A new computer tool for energy analysis of concentrating systems ❖ <i>M Blanco; D Alarcon</i> , CIEMAT Weather derivatives - a new risk management solution for solar power plants ❖ <i>R Kistner; M Geyer</i> , DLR-PSA Receiver for solar-hybrid gas turbine and CC systems (REFOS) ❖ <i>R Buck, et al</i> , DLR, PSA Cost-optimized solar gas turbine cycles using volumetric air receiver technology ❖ <i>P Schwarzbozl, et al</i> , DLR

THURSDAY	
11 am to 1 pm SOLAR CHEMISTRY FUNDAMENTALS Thermal treatment of metallic materials by solar energy: a strategy for the control of the processing ❖ <i>A Ferriere, et al</i> , CNRS Direct solar thermal splitting of ZnO followed by a quench determination of the rate controlling steps ❖ <i>E Elorza-Ricart, et al</i> , CNRS-ENSIC Solar production of zinc from zinc ore ❖ <i>A Weidenkaff, et al</i> , University of Augsburg	11 am to 1 pm COMPONENT DEVELOPMENT - TROUGH PERFORMANCE IMPROVEMENTS Dynamic behaviour of the direct solar steam generation in parabolic trough collectors: a simulation study ❖ <i>M Eck</i> , DLR Results from parabolic trough systems for process heat at the DLR Cologne ❖ <i>D Krueger, et al</i> , DLR

THURSDAY (cont'd)

11 am to 1 pm

SOLAR CHEMISTRY FUNDAMENTALS (cont'd)

Back reactions in thermochemical cycle based on carboreduction of ZnO

❖ *A Berman; M Epstein*, Weizmann Institute

Solar nanostructured carbon materials: the 1MW experiment

❖ *T Guillard, et al*, CNRS

11 am to 1 pm

COMPONENT DEVELOPMENT - TROUGH PERFORMANCE IMPROVEMENTS (cont'd)

Parabolic trough collector efficiency improvement activities

❖ *T Fend, et al*, DLR

Compound-wall receiver for DSG in parabolic troughs

❖ *R Almanza, et al*

Uni Nacional Autonoma de Mexico

2 pm to 3.30 pm

COMPONENT DEVELOPMENT

Evaluation of optical parameters of a reflective coating in secondary solar concentrators

❖ *S K Suleimanov, et al*

Uzbek Academy of Sciences

Solar selectivity of cermet with large particles

❖ *C A Arancibia-Bulnes, et al*, UNAM

2 pm to 3.30 pm

SOLAR THERMAL ELECTRIC POWER SYSTEMS

Solar Tres: proposal of a solar-only 24-hour operation solar tower plant for southern Spain

❖ *P Grimaldi, I Grimaldi*, GHERSA

Solar thermal -fossil energy hybrid technology for advanced power generation

❖ *J H Edwards, et al*, CSIRO

Eurodish - the next milestone to decrease the costs of dish/stirling system towards competitiveness

❖ *P Heller, et al*, PSA-DLR

performance of the SES Stirling Dish

❖ *KW Stone, et al*, Boeing

4 pm to 5.20 pm

SOLAR CONCENTRATING APPLICATIONS

Small, multi-purpose concentrating solar energy systems

❖ *J Lovseth*

Norwegian Institute of Science and Technology

Design and construction of a solar thermal miniplant

❖ *M Sonnenschein, et al*

University of Dortmund

4 pm to 5.20 pm

POSTER SESSION

FRIDAY

9 am to 9.30 am

SOLAR CONCENTRATING APPLICATIONS - SOLAR WASTE DETOXIFICATION

The SOLARDETOX^a technology

❖ *J Bianco, et al*, CIEMAT-PSA

9.30 am to 10.30 am

SOLAR THERMAL ELECTRIC POWER SYSTEMS

Dish-based continuous solar thermal power using ammonia

❖ *K Lovegrove, et al*, ANU

Direct solar stream generation in parabolic troughs (DISS) - the first year of operation of the DISS test facility on the Plataforma Solar de Almeria

❖ *E Zarza; K Hennecke*, PSA, DLR

Improving the performance of combined cycles with solar thermal energy

❖ *W Stein*, Pacific Power

9.30 am to 10.30 am

SOLAR CONCENTRATING APPLICATIONS - SOLAR WASTE DETOXIFICATION

Solar photochemical detoxification of waste water - a comparison matrix for the application of different reactor types

❖ *C Sattler, et al*, DLR

High temperature solar thermal recycling of aluminium scrap in a directly heated rotary kiln: mini-plant experiments, dynamic simulation, and cost estimation

❖ *K H Funken, et al*, DLR

Solar thermal recycling of solid waste material

❖ *B Schaffner, et al*, PSI

11 am to 12.30 pm : WORKSHOP ... Large scale solar electricity generation - ready for the market now?

general information

CAR PARKING	Undercover car parking is available at the Hilton Hotel. The cost is approximately \$8 per hour.						
CURRENCY AND BANKING	All major international banks or their agencies have branches in Sydney. Normal banking hours are Monday to Thursday 9.30 am to 4 pm and Friday 9.30 am to 5 pm. Most banks are closed on weekends and public holidays. ATMs taking all major credit cards are conveniently located.						
MESSAGES	A message board will be placed adjacent to the main meeting area. Please advise callers to telephone the Hilton Hotel on +612 9266 2000 and ask to be connected to the Conference Secretariat in the Tambourine Bay Room.						
NAME BADGES	Your name badge is your entry to all sessions and functions and must be worn at all times.						
OFFICIAL LANGUAGE	The official language for the conference is English.						
PASSPORT AND VISAS	All international visitors require a valid passport and may need entry visas. Please check with your travel agent. Visas can be applied for, and issued from, the Australian Government representatives in major cities throughout the world.						
PEOPLE WITH SPECIAL NEEDS	Every effort will be made to accommodate people with special needs. If you require specific assistance please include a note with your registration form.						
ATTRACTIONS	Sydney has a wide range of attractions, shopping and dining options. The following are all within easy reach of the conference hotels. <table><tr><td><i>Sydney Opera House</i></td><td><i>Art Gallery of New South Wales</i></td></tr><tr><td><i>Australian Museum</i></td><td><i>Queen Victoria Building (shopping arcade)</i></td></tr><tr><td><i>Darling Harbour</i></td><td><i>Sydney Aquarium</i></td></tr></table> Staff on the Registration Desk will be happy to provide further suggestions.	<i>Sydney Opera House</i>	<i>Art Gallery of New South Wales</i>	<i>Australian Museum</i>	<i>Queen Victoria Building (shopping arcade)</i>	<i>Darling Harbour</i>	<i>Sydney Aquarium</i>
<i>Sydney Opera House</i>	<i>Art Gallery of New South Wales</i>						
<i>Australian Museum</i>	<i>Queen Victoria Building (shopping arcade)</i>						
<i>Darling Harbour</i>	<i>Sydney Aquarium</i>						
SMOKING POLICY	All conference rooms, exhibition, lunch and dinner areas are designated non-smoking.						
TRANSPORT FROM THE AIRPORT	Sydney's international and domestic terminals are a 30-45 minutes drive from the city centre. Taxis cost approximately \$35. An airport bus service operates every 15 minutes to the city and most major hotels. The cost is \$6.50 per person.						
TIPPING	Tipping is optional.						
VOLTAGE	240AC power is standard throughout Australia. 110V is available at hotels for razors.						
WEATHER	March is the first month of Autumn in Australia and temperatures range from 18°C to 25°C. Autumn days are usually sunny but it is advisable to be prepared for inclement weather and bring lightweight wet-weather clothing such as a jacket or raincoat						
TIME DIFFERENCE	Australia is GMT plus eleven hours (daylight saving time).						
SOCIAL FUNCTIONS DRESS CODE	Smart casual business clothes are suitable for all social functions. Gentlemen may prefer to wear a jacket and tie. Evening (after-five) attire is not necessary.						

conference, exhibition, social activities and site tour information

CONFERENCE & EXHIBITION VENUE

All conference sessions and the exhibition will take place at the Hilton Hotel which is located in the heart of Sydney's central business and shopping district.

The exhibition will be located adjacent to the Ballroom in the main Convention and Function area. This location and the conference program format offer maximum exposure to all exhibitors.

REGISTRATION DESK

The Registration Desk will be located on Level 8 of the Hilton Hotel. Registration on Tuesday 7 March will be from 5 pm to 7 pm, resuming on Wednesday, 8 March at 8 am.

COCKTAIL RECEPTION Wednesday

The Cocktail Reception will be held from 5.30 pm to 7.30 pm in the Exhibition Area, giving delegates and exhibitors an opportunity to network and exchange information on the latest developments in renewable energy applications. Accompanying guests are welcome to attend at \$25 per person.

CONFERENCE DINNER Thursday

The Conference Dinner will be held in the Ballroom beginning with pre-dinner drinks at 7 pm. Accompanying guests are welcome to attend at \$75 per person.

OLYMPIC SITE TOUR Thursday, 9 March 2 pm to 5 pm

EnergyAustralia will host this half-day tour of the Olympic site, beginning with a presentation on the energy management features of the site, and focussing on PVPS and sustainable energy.

Delegates will be transported by bus from the Hilton Hotel to Homebush Bay and taken on a guided tour of selected areas of the Olympic site, including the ferry wharf and stadiums. Also included is a drive past the Olympic village. EnergyAustralia staff will accompany the tour to explain some of the technical problems encountered and how these problems were overcome.

Bookings are essential as only a limited number of places are available. Please tick the box on the registration to reserve your place. Bookings accompanied by paid registrations will be given priority.

EXHIBITION & SPONSORSHIP

As an exhibitor and/or sponsor, your organisation will have the opportunity to showcase its products and services directly to potential as well as existing customers in this major industry sector.

A limited number of exhibition booths is available, as well as a range of sponsorship packages. Sponsorship packages can be tailored to suit the individual needs of an organisation.

Please tick the appropriate box on the registration form if you are interested in being an exhibitor or sponsor.

registration & accommodation information

(All prices are quoted in Australian dollars)

REGISTRATION FEES — *ESAA/IEA/ANZSES members ... \$595 Non-members ... \$795*

Fees include documentation, site visit, refreshments, lunches, cocktail reception and conference dinner.

Full payment must be received by Friday 3 March 2000. All registration and accommodation details will be confirmed in writing.

PAYMENTS — Payment of conference fees and accommodation can be made either by cheque or credit card. Direct deposit into a nominated bank account is also available on request.

If accommodation is required, a deposit equal to one night's accommodation must be included with registration or received no later than Friday, 4 February.

ACCOMMODATION — A limited number of rooms have been reserved at the following hotels. Prices quoted are per room per night, excluding breakfast.

Hilton Hotel (5-star) : \$215 plus 10% tax

The Hilton Hotel is conveniently located in the heart of the shopping district, opposite the landmark queen Victoria Building. All conference sessions, the exhibition, cocktail reception and official dinner will take place at this venue.

All Seasons Darling Harbour (4-star) : \$140 plus 10% tax

This is a new hotel located in Sydney's Darling Harbour precinct. In addition to the usual facilities offered, all rooms are equipped with data ports. The hotel is a 10-minute walk or a short monorail ride to the conference venue.

Park Regis Hotel Sydney (3-star) : \$99 plus 10% tax

The Park Regis is ideally located in the city centre, close to Hyde Park. It is adjacent to the monorail and only a 2-minute walk to the conference venue.

Please note: the hotels reserve the right to retain deposits for rooms cancelled within seven days prior to the date of check-in.

TO REGISTER — Complete the registration form included in this brochure and forward to...

The Meetings Manager Pty Ltd

PO Box N542, Grosvenor Place

NSW 1220 Australia

phone: +61 2 9241 2955

fax: +61 2 9241 5354

email: meetings@tmm.com.au

registration form (web)

NAME _____
 POSITION _____
 ORGANISATION _____
 MAILING ADDRESS _____
 CITY STATE POSTCODE COUNTRY _____
 TEL () FAX () _____
 EMAIL ADDRESS _____

EXHIBITION/SPONSORSHIP: Yes, I am interested in exhibiting sponsorship

CONCURRENT SESSIONS/WORKSHOPS: Please select and tick box

Wednesday	11.15-12.45	a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/>	Thursday	11.00-1.00	a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/>
	2.00-3.30	a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/> e <input type="checkbox"/>		2.00-3.30	c <input type="checkbox"/> d <input type="checkbox"/>
	4.00-5.20	a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/>		4.00-5.20	c <input type="checkbox"/> d <input type="checkbox"/>
Friday	9.00-10.30	a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/> e <input type="checkbox"/>	<i>Codes: a = ESAA/ANSZES; b = PVPS; c, d and e = SolarPACES.</i>		
	11.00-12.30	a <input type="checkbox"/> b <input type="checkbox"/> c <input type="checkbox"/>	<i>Refer to pages 4, 5, 6 and 7 for program details</i>		

OLYMPIC SITE TOUR (Thursday : 2.00 to 5.00): Yes, please book me on the tour

SOCIAL FUNCTIONS: Please tick the appropriate box. Payment for accompanying guests must be included with your registration fee. Guest tickets will only be issued on receipt of payment in advance.

Yes, I will be attending theCocktail Reception (Accompanying guest @ \$25) Yes
Conference Dinner (Accompanying guest @ \$75) Yes

Guest name: _____ (please print)

ACCOMMODATION: Prices are per room per night (including 10% state government accommodation levy). Please tick box for your selection. Hotel room reservations will only be confirmed on receipt of a deposit equivalent to one night's accommodation. *Deposits must be received no later than Friday 4 February 2000.*

Hilton Hotel \$236.50 Arrival date ____ / ____
 All Seasons Darling Harbour..... \$154.00 Departure date ____ / ____
 Park Regis..... \$108.90 Non-smoking preferred
 Double Single Twin-share (sharing with) _____

REGISTRATION FEES: ESAA/IEA/ANZSES members ... \$595 (*Full payment must be received by Friday 3 March 2000*)
 Non-members ... \$795

PAYMENT DETAILS: A cheque payable to The Meetings Manager Pty Ltd is enclosed
 or charge the following credit card.. Mastercard Visa Bankcard Amex Diners

Card number Expiry date ____ / ____

Signature _____
 (credit card payment not valid without signature)

Cardholder name _____
 (please print)

Conference registration fee \$ _____
 Accommodation deposit \$ _____
 Social functions (guests only) \$ _____
Total enclosed \$ _____

CANCELLATIONS: If you are unable to attend, a substitute delegate is welcome at no extra charge. Where no substitute is available, a fee of \$150 will be deducted from your registration fee for cancellations received by The Meetings Manager in writing no later than 14 days prior to the event. Thereafter no refunds can be made, but conference documentation will be forwarded by mail following the event.

(Note: all prices are quoted in Australian dollars)

Renewable Energy for the New Millennium

Wednesday 8 to Friday 10 March 2000 : Sydney, Australia

A major international three-conference event .

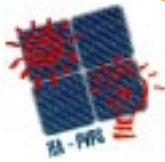


*Electricity Supply Association
of Australia Limited*

6th Renewable Energy Technologies & Remote Area Power Supplies Conference

ESAA's Renewable Energy Technologies and Remote Area Power Supplies (RAPS) conferences focus on the practicalities of meeting the increasing demand for renewable energy, with presentations on technical innovation, markets, financing and export opportunities.

This conference will concentrate on the delivery of the new renewables as part of the Australian federal government's mandated requirements for electricity supply .



*Photovoltaics in the Built
Environment
IEA PVPS Programme*

The 2nd World Solar Electric Buildings Conference

The use of Photovoltaic Power systems around the world is increasing rapidly. PV is quickly changing from being a 'high tech' electricity supply option to an everyday source of energy.

In urban areas grid-connected PV systems are set to become part of the urban landscape. Building integrated PV poses a number of challenges including many non-technical aspects such as standards/codes, economics, institutional issues and not least of which is aesthetics and construction.

Task VII of the International Energy Agency PVPS Programme is focussing on PV in the Built Environment with the objective of enhancing the architectural quality, the technical quality and the economic viability of PV systems in the Built Environment, and to assess and remove non-technical barriers for their introduction as a significant energy option. This is the second major international conference on PV in the Built Environment.

The program will include invited papers from international experts in the field of BIPV. There will also be joint sessions with other experts on engineering issues, and reports on key examples from around the



*IEA Solar Power and
Chemical Energy
Systems Programme*

Solar Thermal 2000 International Conference

For almost 15 years, the SolarPACES (Solar Thermal Power and Solar Chemical Energy Systems) Programme has provided a focus for the worldwide development of solar thermal power - and, since 1986, for solar chemical energy systems.

The *10th International Symposium on Solar Thermal Concentrating Technologies* will form part of the "Renewable Energy for the New Millennium" conference. It is the first time that this biennial conference will be held in Australia.

The conference will bring you up-to-date with international progress of solar thermal power technologies and project developments, as well as with solar chemical energy conversion. There will be an emphasis on the application of this renewable energy source to industry, with workshop sessions involving electricity utilities and other industry representatives.

Presentations will also feature the latest research on materials, hardware and test results, and look at all solar thermal concentrating technologies, including dishes, parabolic troughs, towers, solar furnaces and other devices.

Further information and updates available from.....
<http://www.meike.com/solarpaces.au/symposium.html>

OLYMPIC SITE TOUR

Included in the program is a half-day tour of selected areas of the Olympic site hosted by EnergyAustralia. See brochure for further details.

WHO SHOULD ATTEND?

Green energy businesses; energy supply businesses; renewable energy power systems designers; consultants; architects; planners; engineers; renewable energy scientists; government and policy planners; tertiary students; researchers; investors (stock market, ethical fund, etc); political drivers; utility engineers

Conference organiser:

THE MEETINGS MANAGER Pty Ltd
(ACN 065 936 192)
2nd Floor 81½ George Street
The Rocks Sydney NSW 2000 Australia
tel: +612 9241 2955 fax: +612 9241 5354
email: meetings@tmm.com.au

