

## IEA SHC Task 48 4<sup>th</sup> meeting

### Quality assurance and support measures for Solar Cooling

Boardroom - CSIRO Energy Technology  
10 Murray Dwyer Cct Mayfield West, NSW, 2300, Australia  
E--Mail: [daniel.rowe@csiro.au](mailto:daniel.rowe@csiro.au)

### Meeting Agenda – Draft version n°3

Tuesday April 9<sup>th</sup>, 2013, 14:00 – 22:30  
Wednesday April 10<sup>th</sup>, 2013, 14:00 – 22:00

**Important Notice : during the meeting, the time difference will be of 8 hours with Central Europe (CET)**

Task 48 website : <http://www.iea-shc.org/task48/index.html>

**Participation fee:**

The participation fee is \$200 AUD\* all inclusive and it will only be possible to pay cash when registering in Newcastle.

The fee will include meal and coffee breaks (Tuesday and Wednesday) and get together lunch on Wednesday 10<sup>th</sup> April (including transport, dinner, soft drinks and also beer).

\* Participation fee details :

- \$200 AUD for 2 meeting days (incl. 2 dinners, breaks, water, coffee and juice) + Together Lunch on Wednesday 10<sup>th</sup> at Silo Lounge and Bar + Bus for site tours
- Does not include optional Welcome Lunch on Tuesday 9<sup>th</sup>
- Does not include optional Solar Cooling Conference or Training Course attendance
- 1 AUD ≈ 0.79 EUR ≈ 1.05 USD

**Get Together optional lunch on Tuesday 9<sup>th</sup> (Own Cost):**

12noon Honeysuckle Hotel  
Lot 31 Wharf C, Honeysuckle Drive  
Newcastle, NSW, 2300  
Phone: 02 4929 1499

## Day 1 - Agenda for Tuesday April 9<sup>th</sup>, 2012 (14:00pm-22:30pm)

### **Plenary**

14.00-14.15	Welcome and Organisational issues	Daniel Mugnier	TECSOL
14.15-14.40	Welcome, Introduction, IEA, Infos, Structure of the meeting, Participation letters	Daniel Mugnier	TECSOL
14.40-15.20	Presentations of new participants/observers (5-7min/each)		New entities

### **1<sup>st</sup> block : Subtask Planning & status update**

15.20-15:50	Subtask A : Structures, status, deliverables	Marco Calderoni	POLIMI
15.50-16:20	Subtask B : Structures, status, deliverables	Alex Morgenstern	FhG ISE
<b>16:20- 16:40</b>	<b>Coffee Break</b>		
16.40-17:10	Subtask C : Structures, status, deliverables	Stephen White	CSIRO
17.10-17:30	Subtask D : Structures, status, deliverables	Uli Jakob	Green Chiller

**17.30-18:30 Dinner Break at CSIRO in a room beside the meeting room**  
*Please advise any dietary requirements – [daniel.rowe@csiro.au](mailto:daniel.rowe@csiro.au)*

### **2<sup>nd</sup> block : Latest developments & results session**

18.30-18:50	A new compact solar air conditioner based on fixed beds adsorption and high efficient evaporative cooling concepts and prototype	Marco Beccali	UNIPA
18.50-19.30	Results of the comparative study (thermal vs. PV cooling) within the project EVASOLK project	A. Morgenstern Mathias Safarik	ISE ILK
19.30-19:50	Development and first results of a 8 kW air-cooled water/LiBr absorption chiller	Mathias Safarik	ILK
19.50-20.20	PISTACHE, simplified design tool from MEAGPICS project	Daniel Mugnier/Romain Siré (François Boudehenn ?	TECSOL CEA INES?)
20.20-20.40	XX	XX	XX
<b>20:40- 21:00</b>	<b>Coffee Break</b>		

**Working groups : block1**

- 21:00-21:10    Organization of Group discussions on Work Package level (5-6people max per item)    Daniel Mugnier    TECSOL
- 21:10-22:30    Meeting in parallel on Work Package level; Suggested topics for working groups are:
- \* **B4** : Simplified design tool used as a reference calculation tool : design facilitator (Activity leader : Romain Siré, TECSOL)
  - \* **A2/B3** : Life Cycle analysis on component/system (Activity Leader : Marco Beccali (UNIPA) and Tim Selke (AIT))
  - \* **B7/C2** : Quantitative quality and cost competitiveness criteria for systems / Methodology for performance assessment, rating and benchmarking (Activity Leader : J. Döll / M. Schicktanz (ISE))
  - \* **B6 / A4**: Pumps efficiency and adaptability / Self detection on monitoring procedure (Activity leaders : Martin Helm (ZAE) & Dirk Pietruschka, Zafh.net)

=== End of the working Day 1 ===

## **Day 2 - Agenda for Wednesday April 10th (14:00pm-22:00pm)**

12:00-13:45 Get together lunch

18, 1 Honeysuckle Drive, The Boardwalk, Newcastle 2300 NSW  
Phone: (02) 4926 2828

### **Working groups : block2**

14:00-14:10 Organization of Group discussions on Work Package level (5-6 people max per item) Daniel Mugnier TECSOL

14:10-16:00 Meeting in parallel on Work Package level; Suggested topics for working groups are:

\* **C4** : Measurement and verification procedures (Activity leader : François Boudehenn (INES))

\* **A3** : Heat Rejection (Activity leader : Roberto Fedrizzi (EURAC))

\* **D1/ D5** : Website / Updated specific training seminars (Activity Leader : Marco Calderoni (POLIMI))

**16:00- 16:20 Coffee Break**

### **Working groups : block3**

16:20-17:40 Meeting in parallel on Work Package level; Suggested topics for working groups are:

\* **C6/C5** : Collaboration with T45 for contracting models (Activity Leader : Moritz Schubert, SOLID) / Labeling possibilities investigations (Activity Leader : Uli Jakob (Green Chiller))

\* **D4/D6** : Guidelines for Roadmaps on Solar cooling / Outreach Report (Activity Leader : Uli Jakob, Green Chiller & Anita Preisler (AIT))

\* **B1/C7** : System-Subsystem characterization & field performance assessment / Certification process definition for small systems (Activity Leader : Roberto Fedrizzi (EURAC))

### **Working groups : block4**

17:40-19:00 Meeting in parallel on Work Package level; Suggested topics for working groups are:

\* **B2** : Good practice for DEC design and installation (Activity Leader : Tim Selke (AIT))

\* **A1/A6** : Chiller characterization / State of the art on new collector & certification (Activity leader: POLIMI)

\* **C3** : Selection & standardization of best practice solutions (Activity Leader : Romain Siré (TECSOL))

**19:00 -20:00 Dinner Break at CSIRO in a room beside the meeting room**

**20.00 – 22.00 Plenary & overall**

20.00-20.20	Subtask A : Report on working group items; planning of next steps; distribution of work; action items	Marco Calderoni	POLIMI
20.20-20.40	Subtask B : Report on working group items; planning of next steps; distribution of work; action items	Alex Morgenstern	FhG ISE
20.40-21.00	Subtask C : Report on working group items; planning of next steps; distribution of work; action items	Stephen White	CSIRO
21.00-21.20	Subtask D : Report on working group items; planning of next steps; distribution of work; action items	Uli Jakob	Green Chiller
21.20-22.00	General items, next meetings, miscellaneous	Daniel Mugnier	TECSOL

22 :00 End of Task 4<sup>th</sup> expert meeting

## **Thursday April 11<sup>th</sup> – Technical Site Tour – Option A**

*Limited Numbers Available due to Bus Capacity*

### **09.30 – 18.00 Site Visit and Transfer to North Ryde**

09.30	Meet at Chifley Hotel Honeysuckle to board bus.
10.00-11.30	TAFE NSW Hunter Institute Commercial-Size Two Rotor Solar Desiccant Cooling System Site Visit
11.30-13.00	Charlestown Square Shopping Centre Two-Stage Absorption Chiller System with Solar Trough Collectors
13.00 – 14.00	Lunch (Charlestown Square Shopping Centre Food Court)
15.00 – 16.00	Wyong Milk Factory Technology Park Adsorption Chiller with Evacuated Tube Collectors)
16.00 –16.30	Afternoon Tea at Wyong Milk Factory Technology Park Cafe
18.00	Bus drop off at Quest North Ryde

## **Thursday April 11<sup>th</sup> – Solar Cooling Training Course – Option B**

### **09.00 – 16.00 Solar Cooling Training Course**

Cost: \$450

CSIRO North Ryde  
Building 12 Conference Room, CSIRO Riverside Life Sciences Centre  
Riverside Corporate Park  
11 Julius Avenue  
North Ryde NSW 2113

## **Thursday April 11<sup>th</sup> – Solar Cooling Conference Dinner**

### **19.00 – 22.00 Solar Cooling Conference Dinner**

Fournò  
56 Delhi Rd,  
North Ryde, NSW 2131  
Ph: 02 9889 4118

**Friday April 12<sup>th</sup> – Solar Cooling Conference**

***09.00 – 17.00 Solar Cooling Conference***

Auditorium, CSIRO Riverside Life Sciences Centre

Riverside Corporate Park

11 Julius Avenue

North Ryde NSW 2113

## Annex : Meeting Participant list (registered on 31/01)

	First Name	Last Name	Organization	Address	Town	Country	Email Address	Participation to the Task Meeting in Australia (Newcastle)	Participation to the Task Meeting by videoconferencing
1	Daniel	Mugnier	TECSOL	105 av Alfred Kastler - Tecnosud	Perpignan	France	daniel.mugnier@tecsol.fr	YES	NO
2	Hilbert	Focke	ASIC	Roseggerstr. 12	Wels	Austria	focke.hilbert@asic.at	NO	YES
3	Sören	Paulußen	InvenSor	Gustav-Meyer-Allee 25	Berlin	Germany	soeren.paulussen@invensor.de	NO	YES
4	Khalid	Nagidi	EMCG	844 Oakfield Ave, Suite 101	Wantagh, NY	USA	khalid.nagidi@energymcg.com	YES	
5	Paul	Kohlenbach	SOLEM CONSULTING	PO Box 360125	Berlin	Germany	paul.kohlenbach@solem-consu	NO	YES
6	Martin	Helm	ZAE Bayern	Walther Meissner Strasse 6	Garching	Germany	helm@muc.zae-bayern.de	YES	NO
7	Manuel	Riepl	ZAE Bayern	Walther Meissner Strasse 6	Garching	Germany	riepl@muc.zae-bayern.de	YES	NO
8	YanJun	DAI	Shanghai Jiao Tong University	800, Dongchuan Road, Shanghai, 200240	Shanghai	China	yjdai@sjtu.edu.cn	YES	NO
9	Marco	Beccali	University of Palermo	Viale delle scienze, bld #9	Palermo	Italy	marco.beccali@dream.unipa.it	YES	NO
10	Jeremy	Osborne	SOLEM Consulting	12 Tupper ST	Enmore	Australia	jeremy.osborne@solem-consul	YES	NO
11	Daniel	Neyer	UIBK	Technikerstr.13	Innsbruck	Austria	daniel.neyer@uibk.ac.at	NO	YES
12	Alexander	Thuer	UIBK	Technikerstr.13	Innsbruck	Austria	alexander.thuer@uibk.ac.at	NO	YES
13	Uli	Jakob	Green Chiller	Stendaler Strasse 4	Berlin	Germany	uli.jakob@greenchiller.de	YES	NO
14	Moritz	Schubert	Solid	Puchstr. 85	Graz	Austria	m.schubert@solid.at	YES	NO
15	Mathias	Safarik	ILK Dresden	Bertolt-Brecht-Allee 20	Dresden	Germany	mathias.safarik@ilkdresden.de	YES	NO
16	Alexander	Morgenstern	Fraunhofer ISE	Heidenhofstraße 2	Freiburg	Germany	alexander.morgenstern@ise.fra	YES	NO
17	Jochen	Döll	Fraunhofer ISE	Heidenhofstraße 3	Freiburg	Germany	jochen.doell@ise.fraunhofer.d	NO	YES
18	Björn	Nienborg	Fraunhofer ISE	Heidenhofstraße 4	Freiburg	Germany	bjoern.nienborg@ise.fraunhofe	NO	YES
19	Marco	Calderoni	Polimi	via Lambruschini	Milano	Italy	marco.calderoni@polimi.it	NO	YES
20	Patrizia	Melograno	Polimi	via Lambruschini	Milano	Italy	marco.calderoni@polimi.it	NO	YES
21	Roberto	Fedrizzi	EURAC	viale Druso, 1	Bolzano	Italy	roberto.fedrizzi@eurac.edu	YES	
22	Pietro	Finocchiaro	University of Palermo	Viale delle scienze, bld 9	Palermo	Italy	pietro.finocchiaro@unipa.it	YES	NO
23	Bettina	Nocke	AEE INTEC	Feldgasse 19	Gleisdorf	Austria	b.nocke@aee.at	NO	YES
24	Pollerberg	Clemens	Fraunhofer UMSICHT	Osterfelder Str. 3	Oberhausen	Germany	clemens.pollerberg@umsicht.f	NO	YES
25	Joemann	Michael	Fraunhofer UMSICHT	Osterfelder Str. 3	Oberhausen	Germany	michael.joemann@umsicht.fra	NO	YES
26	Romain	Siré	TECSOL	105 av Alfred Kastler - Tecnosud	Perpignan	France	romain@tecsol.fr	NO	YES
27	Salvatore	Vasta	CNR-ITAE	via Salita S. Lucia sopra Contesse 5	Messina	Italy	salvatore.vasta@itae.cnr.it	NO	YES

(in grey : to be confirmed)

## LOGISTIC INFORMATION AND MEETING PLACE:

### Accommodation – Newcastle (IEA Meeting)

#### **City/Harbour**

**\$158/night (excluding breakfast)**

Chifley Apartments Newcastle  
Building 7, 14 Honeysuckle Drive,  
Newcastle NSW 2300

Ph: +61 2 4910 4910  
F: +61 2 4910 4999  
Reception Hours: 24 hours  
Check In Time: 2:00pm  
Check Out Time: 11:00am

Hotel Star Rating: 4.5

Booking ID for conference rate : # IEA0413

<http://www.chifleyhotels.com.au/newcastle/chifley-hotel-newcastle/>

#### **Beach**

**\$160 Standard / \$195 Low Ocean View / \$215 High Ocean View (excluding breakfast)**

Quality Hotel NOAH'S On the Beach  
Cnr Shortland Esplanade & Zaara St  
Newcastle NSW 2300

Ph: +61 2 4929 5181  
F: +61 2 4926 5208

Booking ID for conference rate : # 470951 IEA

Email : [reservations@noahsonthebeach.com.au](mailto:reservations@noahsonthebeach.com.au)

Website: [www.noahsonthebeach.com.au](http://www.noahsonthebeach.com.au)

#### **Close to CSIRO Newcastle Venue**

**\$170/night (excluding breakfast)**

The Gateway Inn  
26 Williams St  
Corner Industrial Drive  
Mayfield NSW 2304

Ph: +61 2 4903 6300  
F: +61 2 4903 6390

Booking ID for conference rate : #4070599 or "IEA"

(Credit Card required to guarantee reservation. Cash not accepted.)

Email : [stay@gatewayinn.net.au](mailto:stay@gatewayinn.net.au)

Website: [www.gatewayinn.net.au](http://www.gatewayinn.net.au)

### **Cheap/Cheaper Accommodation**

Other accommodation can be found on the following websites :

Wotif – [www.wotif.com](http://www.wotif.com)

Lastminute – [www.lastminute.com.au](http://www.lastminute.com.au)

## Meeting Venue – CSIRO Energy Technology

Please present to reception on arrival to sign in.

### Address

CSIRO Energy Technology  
Steel River Estate  
10 Murray Dwyer Cct  
Mayfield West  
NSW 2304  
Australia

### Contact

Site: Reception – 02 4960 6000

Reception Hours  
8.30 am – 4.30pm  
Monday to Friday



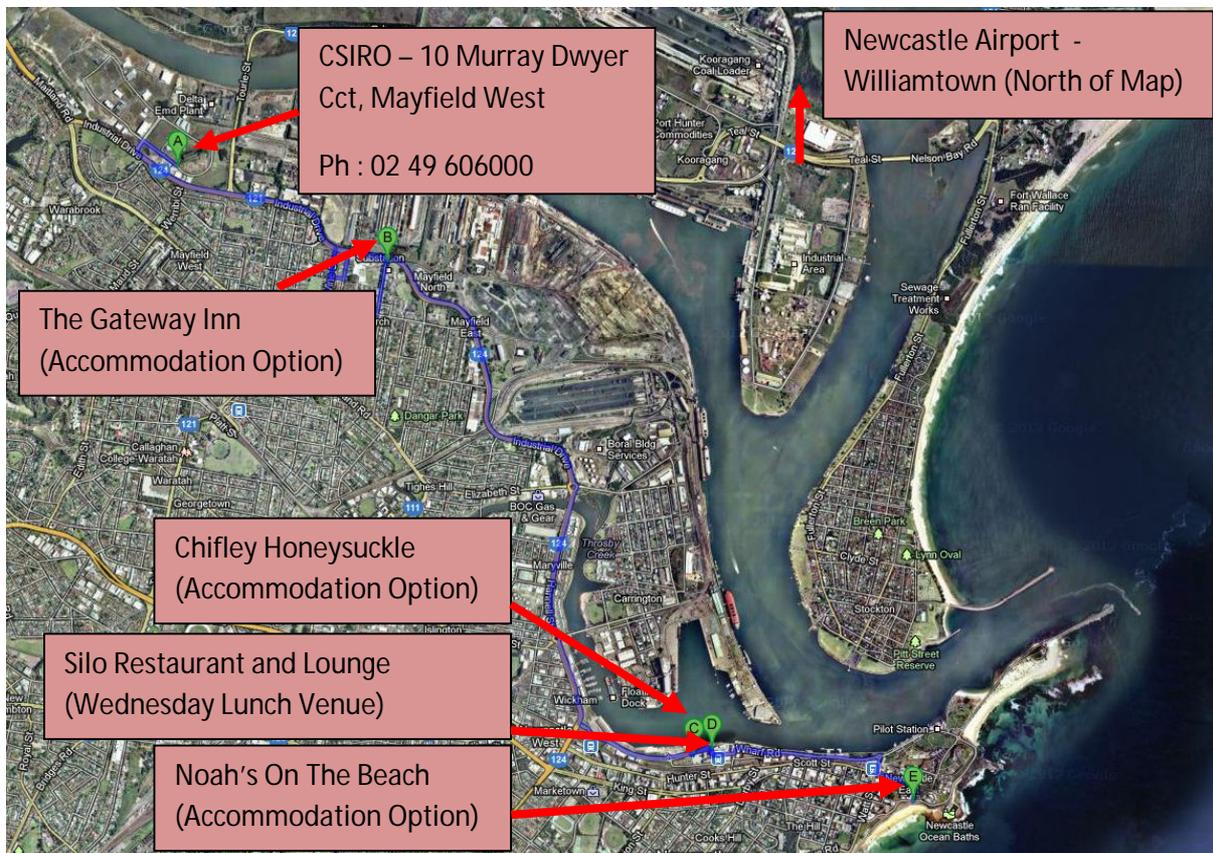
## Lunch – Wednesday April 10

LOCATION: 18, 1 Honeysuckle Drive, The Boardwalk, Newcastle 2300 NSW

TELEPHONE: (02) 4926 2828

WEBSITE: [www.silolounge.com.au](http://www.silolounge.com.au)

## Overall Map of Venues & Accommodation Options – Newcastle



## Accommodation – North Ryde, Sydney (Conference)

### Close to CSIRO North Ryde

#### **\*Book Promptly – Fills Up Very Quickly\***

Chifley Apartments Newcastle  
58–62 Delhi Road,  
North Ryde NSW 2113

Ph: +61 2 8899 8888  
F: +61 2 8899 8899

**Booking ID for conference rate : Please request the CSIRO rate (currently \$192/night studio, \$229/night 1 bedroom – room only rate).**

Email : [questnorthyde@questapartments.com.au](mailto:questnorthyde@questapartments.com.au)

Website: [http://www.questapartments.com.au/Accommodation/43/Australia/Sydney\\_Suburbs/Quest\\_North\\_Ryde/Welcome.aspx](http://www.questapartments.com.au/Accommodation/43/Australia/Sydney_Suburbs/Quest_North_Ryde/Welcome.aspx)

### Stamford Grand North Ryde

Stamford Grand North Ryde  
Cnr Epping & Herring Roads  
North Ryde, NSW 2113

Ph: +61 2 9888 1077  
F: +61 2 9805 0655

**Booking ID for conference rate : #**

**(current rate \$205/night standard superior king suite – 1 x full buffet breakfast included).**

Email : [sales@snr.stamford.com.au](mailto:sales@snr.stamford.com.au)

Website: <http://www.stamford.com.au/sgrn/>

### Travelodge Macquarie North Ryde

Travelodge Maquarie North Ryde  
81 Talavera Road  
North Ryde NSW 2113

Ph: +61 2 8874 5200  
F: +61 2 8874 5300

**Booking ID for conference rate : #**

**(current rate \$155/night single/double room – breakfast is an additional \$15 charge per person night).**

Email : [tmqr@travelodge.com.au](mailto:tmqr@travelodge.com.au)

Website: <http://www.travelodge.com.au/travelodge-macquarie-north-ryde-hotel/home>

### Cheap/Cheaper Accommodation

Wotif – [www.wotif.com](http://www.wotif.com)

Lastminute – [www.lastminute.com.au](http://www.lastminute.com.au)

HOW TO TAKE PART TO THE VIDEO CONFERENCE Call :

Preliminary requirement : .....

## Australian Solar Cooling 2013 Conference

Sydney – Friday – April 12<sup>th</sup> – 2013

Auditorium, CSIRO North Ryde



In April 2013, the Australian Solar Cooling Interest Group (ausSCIG) supported by the Australian Institute of Refrigeration, Airconditioning and Heating (AIRAH) is proud to host the Australian Solar Cooling Conference, a series of conferences aiming to raise the profile of solar cooling in Australia and disseminate national and international best practice experience to Australian HVAC practitioners and researchers. All papers will be peer reviewed and published in the conference proceedings.

The conference will cover all aspects of solar airconditioning including;

- Solar airconditioning components (Solar PV and Solar thermal)
- System, electricity grid and building integration
- Solar airconditioning industry development measures and programs
- Case studies

The draft timetable for the conference is:

Solar Cooling Site Tours (Newcastle, NSW)	Thursday, 11 <sup>th</sup> April
Solar Cooling Training Course (Sydney NSW)	Thursday, 11 <sup>th</sup> April
Conference Dinner (Sydney NSW)	Thursday, 11 <sup>th</sup> April
Conference, North Ryde	Friday, 12 <sup>th</sup> April

Paper submission - key dates for authors:

Abstracts due	Monday, 14 <sup>th</sup> Jan
Abstracts accepted	Monday, 21 <sup>st</sup> Jan
Full papers due	Thursday, 21 <sup>st</sup> Feb
Final papers accepted	Thursday, 7 <sup>th</sup> March



In addition to the conference program, a *Solar Cooling Training Course* will be held on April 11<sup>th</sup> for those seeking an overview of the technical, economic and bigger picture aspects of solar cooling. The course will also provide design tips and technical case studies for industry specialists.

Newcastle is about 160 kilometres (2-3 hours) North of Sydney and can be reached easily by train or car.

Supported by



**Abstracts due 14 January, 2013**  
Submission: email to [daniel.rowe@csiro.au](mailto:daniel.rowe@csiro.au)

## Australian Solar Cooling 2013 Conference

### CALL FOR PAPERS



**ausSCIG**

AUSTRALIAN SOLAR COOLING INTEREST GROUP

#### Australian Solar Cooling 2013 Conference

Sydney - April - 12 - 2013  
Auditorium, CSIRO North Ryde

Please respond and send to:

[daniel.rowe@csiro.au](mailto:daniel.rowe@csiro.au)

- YES I would like to attend the conference
- YES I would like to attend the training course
  - YES I would like to submit a paper
- YES I am interested in sponsoring this event

Name: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

#### Who Should Attend?

- ✓ Design Engineers & Consultants
  - ✓ Policy Makers
- ✓ Renewable Energy Researchers
  - ✓ Architects
  - ✓ Building Owners
  - ✓ Sustainability Managers
- ✓ HVAC Equipment Suppliers
- ✓ Mechanical services contractors

#### Conference Fees

Students	\$150
AIRAH Members & Conference Speakers	\$280
Non Members	\$410

#### Scientific Committee

Stephen White (Chair)

Lu Aye

Frank Bruno

Françoise Perrin-Burgun

Mike Dennis

Daniel Mugnier (International)

Jeremy Osbourne

Daniel Rowe

Marcus Sheldon

Rob Taylor

Supported by



## **TRANSPORTATION LINKS AND SCHEDULE BETWEEN SYDNEY and NEWCASTLE.**

### Car

Newcastle is about 2 hours from Sydney by car. Cars can be hired from Hertz, Thrifty, Budget, Europcar and others.

### Train

The train from Newcastle to Sydney takes 3-3.5 hours and costs approximately \$8 AUD (each way).

### Plane

International flights fly into Sydney, Brisbane and Melbourne with connecting flights to Newcastle

It is possible to fly to Sydney from Newcastle Williamtown airport or by seaplane from Newcastle harbour.