



Queensland Government

Event Partner

composites  
CRC



Composites  
Australia

Come to  
the Gold  
Coast!

19-20 April 2007

Crowne Plaza  
Royal Pines Resort  
Queensland, Australia



# Conference & Exhibition 2007

## New Technology Taking Shape



Conference sponsors



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JEC Composites

Conference Supporters

Australian Composite Structures  
Society (ACSS)  
SAMPE (Australia)

new technology  
taking shape

**If you only go to one industry event  
this year, make it this one!**

**Something for everybody – Don't miss out!**

Join delegates from around Australia and around the world. Hear **Bob Lacovara** from ACMA, **Bobbie Cook** from the Composites Association of NZ, **Tony Vizzini** from SAMPE and many others! Take your choice from up to 35 papers and presentations on the latest developments in the industry and listen to the experts in the field speaking about new technology taking shape in the composites industry.

- Visit more than 30 trade displays by materials and equipment suppliers and manufacturers.
- See live demonstrations on fabrication processes.
- Sign up for a local factory site visit.
- Attend panel discussions on "Occupational Health & Safety Issues", "Employment & Training in the Composites Industry" and on "Research & Development for the Composites Industry".
- Our poolside BBQ conference dinner on Thursday 19th April is an event not to be missed. Partners and guests are welcome.

**Stay on for the post conference options!**

- Play golf with your industry mates on Friday afternoon at the world-class Royal Pines Golf Course! The Ambrose Challenge is suitable for golfers of all abilities.
- Or choose the once in a lifetime experience of driving a Performance V8 Supercar.
- Get up close and personal with a tiger at Dreamworld!
- Have breakfast with the dolphins at Sea World.
- Or just stay a while on the sunny Gold Coast and explore the many attractions – or just relax!

# Composites Australia & the Composites CRC Annual Conference 2007

Delegates will hear presentations from national and international speakers on the new and emerging uses of technology in composite fabrication, design, engineering and processing - and on training and safety issues, which along with research and development, are imperative to these advances. As new technology takes shape, it creates challenges and opportunities for the composites industry.

## Message from John Mickel MP

Minister for State Development, Employment and Industrial Relations



Implementation of fibre composites technology is paying off for Queensland – both in terms of job creation and economic achievements.

Fibre composites are a key component in a number of the State's booming industry sectors including advanced manufacturing, aerospace, construction and infrastructure, defence, marine, mining and transport. A recent survey indicated that composites companies contributed an estimated \$1.2 billion to the State's industry turnover in 2004/05, comprising around 300 businesses employing close to 6,800 people.

The Queensland Government is capitalising on this growth through the implementation of its Fibre Composites Action Plan. We have also invested a significant amount into research and development through the

Smart State Innovation Funds and are actively addressing fibre composite skills and training issues through the commencement of an industry-wide skills formation strategy.

We are not alone in seeing this as a Queensland growth industry of the future. I am pleased that our State's fibre composite industry status and potential are being recognised nationally and welcome the 2007 Composites Australia / Composites CRC Conference and Exhibition to Queensland for the first time.

I encourage you to support the Conference and also enjoy some of the best our Smart State has to offer.

John Mickel MP

Minister for State Development,  
Employment and Industrial Relations

## Speakers will include

### The Shape of Future Composites

**Bob Lacovara** – ACMA (American Composites Manufacturers Association) – USA

### Crashworthiness of Composites

**Tony Vizzini** – SAMPE (Society for the Advancement of Material and Process Engineering) – USA

### The Composites Industry in New Zealand

**Bobbie Cook**, CANZ (Composites Association of New Zealand) – NZ

### Establishment and Management of Effective Distributor-based Sales Channels - A Model for Growing Globally while Meeting Local Demands

**Michael A. Ruby**, GlasCraft Inc – USA

### Marketing and Communication Strategies Employing Various Media

**Andy Rusnak**, ACMA (CM Magazine) – USA

### Osmotic Blistering - Causes, Prevention, Correction

**Chris Cranitch** – ATL Composites

### New Initiator Products Help "New" Application Technology Shape the Composites Industry of Today

**Glenn Campbell** – NORAC

### New Developments In Release Agent Technologies

**Ian Snowdon** – Marbocote Ltd / K & H Surface Technologies – UK

### Plant Based Resins for Fibre Composites

**David Rogers** – Fibre Composites Design and Development (USQ)

### Impact on Water of Composite Plates and Hulls

**Bruce Cartwright** – Pacific ESI (Pacific Engineering Systems International)

### Gel-Coat Spraying - Features, Advantages, Benefits

**Don Wincek** – GlasCraft Inc – USA

### Polymer Composites with Inherently Generated Micro-/Nano-Fibrils

**Debes Bhattacharyya**, Director, Centre for Advanced Composite Materials, The University of Auckland – NZ

### Wood Plastic Composites

**Alan Crosky** – University of NSW

### Phenolic Ventilation Ducting for the Marine Environment

**David Whittaker** – Thales Australia

### Lighter, Faster, Deeper, Smarter: Case studies in industrial composites R&D at CSIRO Exploration and Mining

**Philip Teakle** – CSIRO Exploration and Mining

### Making Composites Safe in Fire

**Stefanie Feih** – RMIT / CRC-ACS

### Beneath the Surface

**Arthur Rendell** – Regina Glass Fibre

## Supplier Sessions

(registered to date)

**3TEX, Inc** – Patrick Duke

Advancements in 3-D Braided Composite Preforms

**Airtech International** – Guy Schindler  
Vacuum Bagging Material Selection  
"Value Added Services"

**Allied Friction Australia** – Stephen Lele  
Thermal Analysis of Interaction Between Polymers and Additives

**DIAB** – Stefan Reuterlov  
High Temperature Foam Core Material

**Earth Composites** – Jacques Rohen VUBONITE  
- The New Incombustible Composite Matrix

**Exel Composites** – Hank van Herk  
Going Global

**JFR Australia** – Peter Clowes  
Spray Application of Syntactic Cores

**PARTEC** – Mark Halford  
The Development of Vacuum & Resin Infusion Fittings and Hoses

**Valspar** – Larry Nunes  
XLA PLUS - The Next Generation of High Performance Gel Coat

## Round Tables

### Skills Development and Access to Funding

A panel discussion on employment & training in the composites industry. Includes: Education & Employment Strategy for the Next Twelve Months – Understanding the Current Work Pool; Why Your Management Methods Will Change – A look at generational differences; Training workers for the demands of the future; Developing a national training strategy to best satisfy the skill development needs of industry; and helping the industry access government assistance.

### Occupational Health & Safety Issues

How to Meet Your Workplace Health and Safety Obligations; Health & Safety Legislation and How to Deal With It; and The New Changes in Standards: The Latest Research on Styrene Emissions - understanding the emissions mechanism.

### Research & Development Projects for the Composites Industry

Facilitated by Ian Crouch & Frank Rosselli – Composites CRC. Featuring Tony Vizzini and others.

# Information for Delegates



## Venue and Accommodation

The beautiful and lush Crowne Plaza Royal Pines Resort is located at the heart of the Gold Coast, midway between the magnificent beaches of Surfers Paradise and the lush rainforests of the Hinterland. In addition to the purpose built award winning convention centre, it boasts a five star hotel with all the luxuries.

We have secured a special rate of \$170.00 per night for a standard room for our conference delegates at the hotel. You must use the accommodation booking form to secure these rates – it can be downloaded from [www.compositesaustralia.com.au](http://www.compositesaustralia.com.au) or sent to you on request. Rooms are limited – book now to avoid disappointment.

### Crowne Plaza Royal Pines Resort

**Address** Ross Street, Ashmore,  
Queensland, 4214 Australia

**Telephone** + 61 7 5597 1111

Toll Free within Australia: 1800 074 999

**Facsimile** + 61 07 7 5597 2277

**Email** [rpr@rpr.com.au](mailto:rpr@rpr.com.au)

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

Parking is available on-site at no extra cost.

There are alternatives for those wishing to stay in Surfers Paradise. Please note that for those not staying at Crowne Plaza Royal Pines, transport to and from the conference would be by your own arrangement.

**Courtyard by Marriott Surfers Paradise Resort**  
\$135 for a standard room.

Cnr Surfers Paradise Blvd & Hanlan Street,  
Surfers Paradise. Phone +61 7 5579 3499  
[sales@cyspr.com.au](mailto:sales@cyspr.com.au) [www.marriott.com.au](http://www.marriott.com.au)

**Gold Coast International Hotel**  
\$145 for a single Mountain River View Room.

7 Staghorn Ave Surfers Paradise.  
Phone + 61 7 5584 1242  
[res@gci.com.au](mailto:res@gci.com.au) [www.gci.com.au](http://www.gci.com.au)

**Legends Hotel Gold Coast**  
\$140 for a standard room.

Cnr Gold Coast Hwy & Laycock St Surfers Paradise  
Phone +61 7 5588 7884  
[relax@legendshotel.com.au](mailto:relax@legendshotel.com.au)

## Travel Information

Ashmore is 24 km north of the Gold Coast Airport and 80 km south of Brisbane Airport.

For guests travelling to and from Brisbane, the Gold Coast is connected to Brisbane by a rail service. Catch the "Air Train" direct from Brisbane Airport. The Nerang Rail Station is five minutes drive from the Resort in Ashmore.

The resort offers a complimentary shuttle service loop to Surfers Paradise, Jupiters Casino and Pacific Fair Shopping Centre.

## Post Conference Options

### Friday 20th April 2007

**Ambrose Golf Challenge** 2.00pm - 5.00pm

Royal Pines is famous for its championship golf course! Everyone is welcome for this event - no prior golf experience necessary. Beginners and experts alike will enjoy this friendly competition. The challenge will be followed by refreshments and the presentation of prizes.

**Holden Performance V8 Supercar Driving and Racecar workshop tour** 1.30 pm - 5.00 pm

Ever wondered what it feels like to drive a V8 Supercar around a track at 150kph? Board the bus from the resort to nearby Ormeau, where you will be introduced to the V8 Supercars and learn about how they're made and how they're raced. Then, suit up in the full fireproof gear and drive a few laps yourself!

An instructor will be in the passenger's seat - but you're in control!

You'll then change places and see - and feel - how the pros drive.

This activity also includes the Paul Morris V8 Workshop Tour, a certificate, a souvenir cap, refreshments and bus return.

**Drinks with the Tigers at Dreamworld** 6.00pm - 8.30pm

After golf or a relaxing afternoon, hop on a bus for a trip to Dreamworld in Coomera, about 20 minutes north of the resort.

The theme park is closed to the public at this time of day, but our group has special privileges. Walk through to Tiger Island and enjoy drinks and nibbles while you watch the tigers interact with their keepers, hear about their behaviour and activities, and watch them go through their paces. If conditions suit (i.e., tiger moods!), a tiger will be brought out and guests may experience the thrill of actually patting this majestic jungle king. Guests also receive a souvenir of their visit.

### SATURDAY 21st April 2007

**Breakfast with the Dolphins at SeaWorld** 7.30am - 9.30am

Early risers will board a bus for a short ride to SeaWorld in Main Beach, about 20 minutes from the resort and just north of Surfers Paradise and be welcomed into the park - closed to the public at this hour – for a hot breakfast by the dolphin lagoons. Watch the dolphins interact with their trainers and each other, and learn about these intelligent mammals' capabilities. Next, you will have the opportunity to meet a dolphin in waist depth water for an educational, dolphin pat and photograph! Guests also receive a souvenir of their visit.

All delegates and exhibitors will receive discount coupons for a variety of the local theme parks and attractions, courtesy of Warner Village Theme Parks & Dreamworld.



## Further Enquiries

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

## PROGRAMME, COMPOSITES AUSTRALIA - COMPOSITES CRC 2007 ANNUAL CONFERENCE & EXHIBITION

WEDNESDAY 18TH APRIL - WEDNESDAY 18TH APRIL - WEDNESDAY 18TH APRIL - WEDNESDAY 18TH APRIL - WEDNESDAY 18TH APRIL

7.00 pm	Welcome drinks function - sponsored by Magnum Venus Plastech Venue, The Hydrate Bar, Crowne Plaza Royal Pines Hotel
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THURSDAY 19TH APRIL - THURSDAY 19TH APRIL - THURSDAY 19TH APRIL - THURSDAY 19TH APRIL - THURSDAY 19TH APRIL

### CONFERENCE

7.30	CONFERENCE DELEGATES REGISTRATION	
	<b>Monarch Room</b>	
8.30	Norm Watt, President, Composites Australia Inc, and Murray Scott, CEO, Composites CRC	
8.45	Gary Fenlon, Parliamentary Secretary to the Minister for State Development, Employment & Industrial Relations	
9.00	Bob Lacovara, ACMA (U.S.) - The Shape of Future Composites	
9.30	Anthony Vizzini, SAMPE (U.S.) - SAMPE's Emerging Technologies	
10.00	Bobbie Cook, CANZ (N.Z.) - The Composites Industry in New Zealand	

### DEMONSTRATIONS

10.30 <b>MORNING TEA - served at the rear of the Prince Room</b> (conference delegates & exhibition booth staff only)		10.30	Jacques Rohen of Earth Composites demonstrating "Vubonite" the New Composite Resin - 30 minutes
Monarch Room		Norfolk Room	
10.45	Larry Nunes of Valspar Australia demonstrating "RTM Lite"- 30 minutes		
11.00	Alastair Johnson, DLR (Germany) - Composites Structures for Enhanced Impact & Crashworthiness Performance	11.00	Alan Crosky, UNSW - Wood Plastic Composites
11.30	Steve Georgiadis, Hawker de Havilland - Bird-strike Simulation for Certification Boeing 787 Wing Trailing Edge Devices	11.30	Brian Jones, High Modulus - A Study of the Variability of Spray Roving Laminates
12.00	Julien Fabreguette, Australian Aerospace - Structural Composite Repair	12.00	Phil Teakle, CSIRO - Lighter, Faster, Deeper, Smarter
12.30 <b>LUNCH - served at the rear of the Prince Room</b> (conference delegates & exhibition booth staff only)			
1.30	Nigel St John, DSTO - Fibre Reinforced Composites for Naval Applications	1.30	Chris Cranitch, ATL - Osmotic Blistering, Causes, Prevention, Correction
2.00	David Whittaker, Thales – Phenolic Ventilation Ducting for the Marine Environment	2.00	Glenn Campbell, NORAC (U.S.) - New Initiator Products help "new" application Technology shape the Composites Industry
2.30	Bruce Cartwright, Pacific ESI - Analysis of the Impact of Composite Structures on Water	2.30	Don Wincek, Glas Craft (U.S.) - Gel-Coat Spraying – Features, Advantages, Benefits
3.00 <b>AFTERNOON TEA - served at the rear of the Prince Room</b> (conference delegates & exhibition booth staff only)		3.15	Dick Garrard of Iron Bark Composites demonstrating "Resin Infusion of a Surfboard Fin Panel" & "Sprayable Silicon Vacuum Bag" - 30 minutes
3.30	Debes Bhattacharyya, Uni. of Auckland (N.Z.) - Polymer Composites with Inherently Generated Micro-/Nano-Fibrils	3.30	Michael Ruby, Glas Craft (U.S.) - Establishment & Management of Effective Distributor-based Sales Channels
4.00	Stephanie Fieh, RMIT - Making Composites Safe in Fire	4.00	Andy Rusnak, ACMA (U.S.) - Reaching Your Customers, Same Ole? New Paradigm? Or, a Little of Both? A Forum for Manufacturers
4.25	Arthur Rendell, Regina Glass - Beneath the Surface	4.00	Jacques Rohen of Earth Composites demonstrating "Vubonite" the New Composite Resin - 30 minutes

4.45	Panel session, Research & Development Chairman, Ian Crouch, CRC-ACS Panel: Frank Rosselli, Composites CRC - CRC business models Grant Pearce – Exel, Mark Sterbic, David Lyons, Anthony Vizzini	4.30	Panel session, OH&S Chairman: Rick Milne - Meeting your workplace health & safety obligations Panel: Errol Conroy Bob Lacovara - The Latest Research on Styrene Emissions – Understanding the emissions mechanism		
5.30	<b>PRE-DINNER DRINKS</b>				
7.00	<b>POOL-SIDE QUEENSLAND BBQ DINNER - Royal Pines Pool Area, (conference delegates &amp; registered guests)</b>				
<b>FRIDAY 20TH APRIL – FRIDAY 20TH APRIL - FRIDAY 20TH APRIL - FRIDAY 20TH APRIL - FRIDAY 20TH APRIL - FRIDAY 20TH APRIL</b>					
			<b>SUPPLIERS SESSION</b>	7.00	Factory tour of Riviera - registered delegates to meet in Hotel lobby for bus
8.30	Brian Wardle: MIT (U.S.) - Nano-Engineered Advanced Composites for Aerospace Applications	8.30	Guy Schindler, Airtech (U.S.) - Vacuum Bagging Material Selection and "Value Added "Services		
		8.40	Jacques Rohen, Earth Composites - "VUBONITE" the new incombustible composite matrix		
8.55	Pavel Faigl, USQ - Plant based resins for fibre composites	8.55	Peter Clowes, JFR Australia - Spray Application of Syntactic Cores		
		9.10	Larry Nunes, Valspar Australia - XLA PLUS – The Next Generation of High Performance Gel Coat		
9.20	Ian Snowden, Marbocone (U.K.) - New Developments in Release Agent Technologies	9.25	Mark Halford, PARTEC – The Development of Vacuum & Resin Infusion Fittings & Hoses		
		9.40	Stefan Reuterlov, DIAB - High temperature foam core material		
9.45	Charles Tur, Magnum Venus Plastech (U.S.) - The Evolution of Light RTM	9.55	Hank Van Herk, Exel Composites - Going Global	9.45	Riviera tour returns
				10.00	Laurent Imbert of Mega Resins demonstrating FSP Spray Core - 60 minutes
10.10	Patrick Duke, 3tex (U.S.) – Advancements in 3-D Braided Composite Preforms	10.10	Nick Cossich, ATL Composites - Airex T90 Foam	10.15	Laurent Imbert of Mega Resins demonstrating "FSP Spray Core" - 60 minutes
		10.25	Floreana Coman, Australian Composites - Auspreg UV new product for composites in Marine, Transport, Ballistic, Wind Energy, Sporting, Tooling, Infrastructure, Corrosion fields	10.30	Jacques Rohen of Earth Composites demonstrating "Vubonite" the New Composite Resin - 30 minutes
10.35	<b>MORNING TEA - served at the rear of the Prince Room (conference delegates &amp; exhibition booth staff only)</b>				
	Monarch Room			10.30	Larry Nunes of Valspar Australia demonstrating "RTM Lite"- 30 minutes
11.00	Panel Session, Skills Development & Staff Retention Chairman: Gerard Murphy, CA Education & Employment Officer Co Chairman: Michael Bannister, Education Manager Composites CRC Presentation: Jayne Mark, Accessing Funding for Training & Employment Presentation: Bob Lacovara, ACMA - Why Your Management Methods Will Change – A look at generational differences Presentation: Grant Pearce, Exel - Incentive Systems in the Workplace			10.45	Chester Martin of Chem-Trend Australia demonstrating "Water-Based Mould Release Systems" - 60 minutes
12.30	Closing Remarks - Norm Watt, President Composites Australia Inc, and Murray Scott, Composites CRC CEO				
1.00	<b>LUNCH - served at the rear of the Prince Room (conference delegates &amp; exhibition booth staff only)</b>				
2.00	AMBROSE GOLF CHALLENGE – registered delegates to Tee off	1.30	SUPER V-8 DRIVING – Bus to take delegates to track		
6.00	DRINKS WITH THE TIGERS AT DREAMWORLD – Bus to take delegates				