



ATTAR

Advanced Technology Testing and Research

A division of Engineering Materials Evaluation Pty Ltd

ISSUE - SUMMER 2008

ATTAR's Trade Mission to Malaysia

During the month of October ATTAR, as part of an "Extending Aircraft Life" delegation, travelled to Malaysia on a trade mission. The purpose of this visit was to identify regional opportunities within the aerospace industry that matched the capabilities of the companies involved.



The visit, conducted over 4 days, was well planned and supported by Austrade and the Department of Innovation who successfully organised meetings with high ranking representatives from the Royal Malaysian Defence Forces, Malaysian Government departments, Malaysian Airlines and leaders of industry including Malaysia's largest defence contractors and civil aerospace operators.

Australia has a fantastic reputation on the world stage for the quality of our technical service offerings and this was certainly evident during our visit. Strong interest in ATTAR's NDT Training capabilities was pleasing with the company coming away with numerous contacts and opportunities to explore.

A big thank you to the organisers that made this visit such a great success.

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Happy Festive Season!

As the end of the year is fast approaching, the ATTAR Team would like to take this opportunity to thank-you all for your support during 2008.

We wish you and your families a very Happy Christmas and a safe and prosperous New Year!

Please note that ATTAR will be closing for the Christmas Period on Friday the 19th December 2008 at **12pm** and will re-open at 8am on Monday 5th January 2009.

We look forward to working with you again in 2009!

Gary Martin

Condition Monitoring National Forum - Melbourne

The Condition Monitoring National Forum was held on the 28th & 29th October at the Sebel Hotel, Albert Park in Melbourne. Approximately 200 delegates, with the likes of Maintenance and Reliability Engineers, Condition Monitoring Technicians & Managers from across the country were in attendance; all with an interest in improving equipment, plant or materials reliability in their specialised industries.

ATTAR was one of the exhibitors during the forum and with such a brilliant turn out we were able to meet a large number of Condition Monitoring professionals, all eager to learn more about ATTAR and our services, particularly our Materials Failure Analysis and Acoustic Emission Testing.

With four rooms running presentations over the course of the two days the delegates were spoiled for choice. One of the papers on bearing failure was presented by ATTAR's own Dr. Gary Martin.

The Forum was a great success, as Paul



Gallagher from One Steel would agree. Paul was the winner of our "Guess the mode of failure" competition of a Pump Shaft that we had on display at our stand. Paul won two bottles of quality Victorian wine and a leather

case for his guess. Congratulations Paul!

Thank-you to the SIRF for organising a fantastic event, we look forward to seeing you all again in Randwick in 2009!

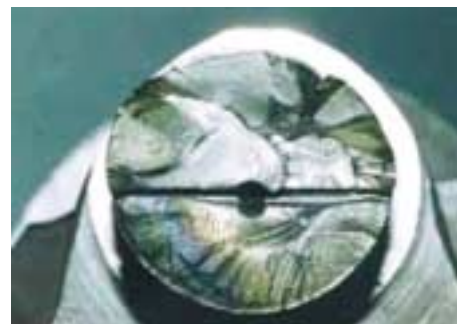
Failure Analysis Forensic Materials Engineering

Broken or failed components can cause loss of production, injury and even death; all of which result in loss of money for someone. Who is ultimately responsible for failed components? What causes them to fail? How can failures be avoided in the future?

ATTAR offers a wide variety of materials failure analysis services for Manufacturers, Insurance Companies and the Legal Profession. Examples of these services include:

- Incident investigations involving machines and equipment.
- Determination of contributing factors, including compliance with Occupational Health and Safety and other standards.
- Mechanical Failure of products and equipment, such as ladders, chairs, racking systems, motorised scooters and trolley systems.
- Analysis of failed motor vehicle components, including suspension, engine, transmission and braking systems.
- Qualification of welding procedures to Australian Standards.
- Verification of material properties comparing with customer standards.
- Assessment of corrosion mechanisms.
- Evaluation of structures utilising Non Destructive Testing techniques.

To discuss how ATTAR can help you with your failure analysis requirements please call our



Principal Materials Engineer, Trevor Rowlands on (03) 9574 6144 or email trevorrowlands@attar.com.au.

Upcoming courses with **ATTAR!**

MARCH

Acoustic Emission Level 1 - Melbourne
Intro to Phased Array – Melbourne
Intro to Phased Array – Perth
Liquid Penetrant Level 2 – Brisbane
Liquid Penetrant Level 2 – Melbourne
Magnetic Flux Leakage – Melbourne
Magnetic Particle Level 2 – Melbourne
Magnetic Particle Level 2 – Brisbane
Multisector – Brisbane
Multisector – Melbourne
Phased Array Level 2 – Melbourne
Radiography Level 2 - Melbourne
Radiation Safety – Perth
Ultrasonics Level 1 – Perth
Ultrasonics Level 2 – Perth

This is just a snap shot of the courses coming up in the next few months at ATTAR.

APRIL

Hands on Introduction to NDT - Melbourne
Liquid Penetrant Level 2 – Melbourne
Multisector – Perth
Liquid Penetrant Level 2 – Perth
Radiation Safety – Melbourne
Ultrasonics Level 2 – Melbourne

MAY

Magnetic Particle Level 2 – Melbourne
Magnetic Particle Level 2 – Perth
Magnetic Particle Level 3 – Melbourne
Multisector – Gladstone
Multisector – Melbourne
Liquid Penetrant Level 2 – Gladstone
Liquid Penetrant Level 3 – Melbourne
Radiography Level 2 – Perth
Radiography Level 3 - Melbourne
Ultrasonics Level 1 – Melbourne
Ultrasonics Level 3 – Melbourne



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for more information & enrolment forms visit www.attar.com.au

ATTAR NDT Training now in Brisbane

ATTAR is pleased to announce that, due to popular demand, we have commenced offering NDT Training Courses in Brisbane. Conveniently located at Brisbane International Airport, these courses are run out of Aviation Australia's fantastic training facilities.

This exciting move will allow us a greater capacity of courses

offered and will better cater to our industry clients based in the Northern states of Australia.

To book a place on an upcoming course in Brisbane please contact **Christine Elliott Training Administrator on (03) 9574 6144;** email training@attar.com.au or visit our website www.attar.com.au for more information.

2008 ATTAR Calendar Prize Draw

Congratulations Andrew Juett of ETSA Utilities!

Andrew was the lucky winner of 2 Gold Class Tickets 2 Food and Beverage Vouchers and 2 Bottles of Quality Australian Wine!

Well Done Andrew!



Happy Trails

One of ATTAR's longest serving employees, Marcus Braché, has commenced a gruelling training regime in the lead up to his participation in the OXFAM Trailwalker 100km team event in March next year.

Marcus is part of a 4 man team, appropriately named "A Short Stroll", who aim to complete this mammoth challenge within a time of 24 hrs with the goal of raising \$2,000 for this worthy charity. Oxfam is one of the

world's largest charity organisations raising money to fight poverty and injustice around the globe. The Oxfam Trailwalker is Australia's largest fundraising endurance event, attracting over 4,000 participants annually in Sydney and Melbourne. ATTAR will be supporting Marcus in his efforts to raise money for this cause. If you too would like to support Marcus please go to the link below to donate. Happy trails and good luck Marcus!



www.oxfam.org.au/trailwalker/Melbourne/team/622

Staff on View

Trevor Rowlands - Principal Materials Engineer

ATTAR is delighted to introduce their newly appointed Principal Materials Engineer; Trevor Rowlands. Trevor comes to ATTAR with a strong background of over 16 years in the aviation industry as a Materials and Processes Engineer.

During this time Trevor was responsible for the technical aspects relating to the manufacture of new components which involved; material selection, machining, NDT and surface finishing for both civil and defence platforms, including Boeing 737 and 777, Airbus A320 and A340, and Lockheed Martin F-35 (JSF) and C130, just to name a few.

Trevor was also involved when things went wrong with components that had been in service, including investigating defects and failures and providing recommendations to avoid such recurrences.

It's fair to say he has experienced from the beginning right through to the end when it comes to the life and times of aviation materials.

Trevor is also qualified as a Level 2 Magnetic Particle and Penetrant inspection operator, having completed his courses with ATTAR.

In his new role with ATTAR, Trevor will continue to provide a Materials Engineering Service, predominantly focusing on failure investigations.



Trevor can be contacted on (03) 9574 6144 or trevorrowlands@attar.com.au.

Daniel King - Engineering Assistant

ATTAR would like to welcome its newest member of the team, Daniel King. Daniel is currently studying a double degree in Science and Materials Engineering at Monash University. He is in his 4th year and joins ATTAR for

his summer work placement. Our Materials Engineers are keen to impart some of their knowledge and have been keeping Daniel very busy with a wide variety of challenging jobs.



Head Office - Australia

Unit 27, 134 Springvale Rd, Springvale Vic 3171 Australia

PO Box 286, Springvale Vic 3171 Australia

T +61 3 9574 6144 F + 61 3 9574 6133 E info@attar.com.au