

# 18th International MIRCE Symposium

**System Operational Effectiveness**

***Achieving  
Performance  
Targets At  
Least Cost***



*Supported by*



**Woodbury Park  
Exeter  
United Kingdom  
3 – 5 December 2008**






*Organised by*

 **Mirce Science**



**Register Now**

**LSC GROUP**

 +44 (0) 1395 233 856  
 +44 (0) 1395 233 899  
 [mirce@mirce.net](mailto:mirce@mirce.net)

## Achieving Performance Targets At Least Cost

The continuing transition in the defence and aerospace and other sectors from traditional methods of business to performance-based requirements and guarantees embedded in Contractor Logistic Support (CLS), Contracting for Availability (CfA), 'Power-By-The-Hour' and similar contracts have introduced new financial and operational risks for equipment manufacturers, third-party service providers and users. Engineering and management processes are now more than ever critically focussed on **achieving performance targets at least cost**.

### Focus

This Symposium has been designed to provide a unique forum to gain knowledge, share best practice and stimulate new ideas on how to effectively meet this key business objective. The Symposium will be of interest to a worldwide audience from industry, government, academic and research organisations.

### Features

Access new developments and industry best practice through –

- Presentations
- Master Class
- Workshop
- Technical Discussion
- Practical Guidance
- Exhibitors
- Technical Visit
- Networking Opportunities

### Cost

The cost of the full three-day Symposium Package is £695-00 plus UK VAT per person and includes all sessions, workshops, materials, lunches and light refreshments, symposium dinner and supporting events.

Other Packages are available – see **Key Information** for further details.

### The Mirce Akademy 2008 Annual Lecture

#### Method For Predicting The Impact of Cosmic Rays on Avionics Functionability

Ian Zaczyk, MIRCE Akademy  
Monday 3 December

Free Admission – All Welcome

## Wednesday 3 December 2008

0900 – 1000	<b>Registration</b>
1000 – 1015	<b>Opening Remarks</b>
1015 – 1100	<b>Presentation</b> <b>Through Life Capability Management – How Far Does Your Buck Go?</b> <i>Mark Willis, Harmonic Limited</i>
1100 – 1130	<b>Morning Coffee</b>
1130 – 1215	<b>Presentation</b> <b>Aircraft Performance and Operability Targets – Striking a Balance</b> <i>William Nankivell, Airbus UK</i>
1215 – 1300	<b>Economics of Maintenance Performance</b> <i>Clive Nicholas and Simon Gill, Mirce Engineering</i>
1300 – 1400	<b>Lunch</b>
1400 – 1530	<b>Master Class</b> <b>Mirce Mechanics Based Method for Achieving Performance Targets at Least Cost</b> An absolute must for 21st century reliability, maintainability, supportability, life cycle cost, life cycle engineering and life cycle management decisions at any stage of the system life. <i>Dr Jezdimir Knezevic, MIRCE Akademy</i>
1530 – 1600	<b>Afternoon Tea</b>
1600 – 1700	<b>Master Class continued</b>
1800	<b>Getting Together Reception</b> <b>The MIRCE Akademy 2008 Annual Lecture</b> <b>Method For Predicting The Impact of Cosmic Rays on Avionics Functionability</b> <i>Ian Zaczyk, MIRCE Akademy</i>
1900	

### The Venue

The Symposium will be held at **Woodbury Park Hotel, Golf and Country Club**, which is approximately eight miles from Exeter by road.

Delegates are responsible for the arrangement and payment of their own accommodation. Delegates wishing to take advantage of preferential room rates should contact Woodbury Park Hotel Reservations quoting 'MIRCE'.

Woodbury Park Hotel, Golf and Country Club, Woodbury, Exeter, EX5 1JJ, United Kingdom

Tel +44 (0) 1395 233 382  
Fax +44 (0) 1395 233 384  
Email enquiries@woodburypark.co.uk  
Web www.woodburypark.co.uk

A list of alternative accommodation in other hotels and guesthouses in the vicinity is available on request.

### Contact Mirce Science

☎ +44 (0) 1395 233 856  
☎ +44 (0) 1395 233 899  
✉ mirce@mirce.net

## Thursday 4 December 2008

0900 – 0945	<b>Presentation</b> <b>Systecon Approach To Performance Based Logistics</b> <i>Phil Sturgess, Systecon, UK</i>
0945 – 1030	<b>Presentation</b> <b>Impact of Dust and Sand on System Functionability</b> <i>Stuart Peake, Flight Refuelling</i>
1030 – 1100	<b>Morning Coffee</b>
1100 – 1200	<b>Presentation</b> <b>Using FRACAS to Improve Performance</b> <i>Simon Brailsford, Relex Europe</i>
1200 – 1300	<b>Presentation</b> <b>The Structured Application of Modelling &amp; Simulation in Support of Performance Versus Cost Trade-Off</b> <i>Nira Chamberlain and Peter Jackson, LSC Group</i>
1300 – 1400	<b>Lunch</b>
1400 – 1530	<b>Workshop</b> <b>Simulation Based Predictions for Achieving Performance Targets at Least Cost</b> <ul style="list-style-type: none"> <li>▪ Use of Simulation Models</li> <li>▪ Modelling reliability, maintenance, support, utilization and availability of large numbers of high-value repairable assets over their life</li> <li>▪ Running models to determine alternative scenarios and policies</li> <li>▪ Presenting results for understanding in decision making</li> </ul> <i>Dr John Crocker, MIRCE Akademy</i>
1530 – 1600	<b>Afternoon Tea</b>
1600 – 1700	<b>Workshop continued</b>
1930	<b>Symposium Traditional Christmas Dinner</b> <b>including the F1RE Centre Reliability Championship Awards 2008</b>

## Friday 5 December 2008

0900 – 0945	<b>Modelling Equipment Performance For a Procurement Programme</b> <i>Julian Gibbs, BMT Consultants</i>
0945 – 1030	<b>Impact of Superstructure Weight and Centre of Gravity Position to the Bucket Wheel Excavator Dynamic Stability</b> <i>Milorad Pantelic, Sava Kovacev Kolubara Metal, Vreoci, Serbia and Ljubisa Papic, DQM Research Center, Prijedor, Serbia</i>
1030 – 1100	<b>Morning Coffee</b>
1100 – 1145	<b>Should We Repair, Replace Or Store Failed Parts?</b> <i>John Thompson, AgustaWestland Helicopters</i>
1145 – 1230	<b>The Cost of Maintaining Software to Achieve Required Performance</b> <i>Oliver Markwardt, BMT Consultants</i>
1230 – 1300	<b>Open Forum</b>
1300 – 1400	<b>Lunch</b>
1400 – 1530	<b>Technical Visit</b> <b>F1 Reliability and Effectiveness</b> A technical visit to the F1 Reliability and Effectiveness Centre and the Nigel Mansell World of Racing -1992 F1 and 1993 Indy Champion. Lessons learned for other performance and time critical operations. <i>Dr Jezdimir Knezevic, MIRCE Akademy</i>
1530 – 1600	<b>Closing Down and Afternoon Tea</b>

## Formula 1 Reliability Championship Awards 2008



F1RE Centre Driver and Team Reliability Championship Awards for 2008 F1 Season will be announced during the Symposium Dinner

## Exhibitors



BMT Reliability Consultants is a leading specialist engineering consultancy providing value added services to a wide range of clients through expertise in Supportability Engineering, Reliability Engineering, Economic Modelling and Risk Management.



Relex has been providing solutions to the reliability engineering discipline for more than two decades. Its proven track record with thousands of engineers in a variety of businesses around the globe is unmatched.



Harmonic is a specialist services company offering independent consultancy and practical support to market leaders across the Defence and National Security sectors.



LSC Group is a solutions, services and management consulting company, dedicated to the delivery of services to meet the business transformation challenges of today and tomorrow.

**18th International****MIRCE Symposium**

Woodbury Park Exeter United Kingdom

3 – 5 December 2008

## Booking Form

Please photocopy for each additional participant

**telephone**

+44 (0) 1395 233 856

**fax**

+44 (0) 1395 233 899

**email**

mirce@mirce.net

**post**

Mirce Science  
Woodbury Park  
Woodbury  
Exeter EX5 1JJ  
United Kingdom

### Terms and Conditions

Substitution of participants may be made at any time. If you intend to do this, please advise Mirce Science as soon as possible.

Cancellation of a booking must be received in writing by the organiser at least 14 days before the commencement of the event in order to receive a refund of payment. Mirce Science regrets that no refunds will be made after the deadline.

Mirce Science reserves the right to change the advertised programme or location or to cancel the event at its discretion. In the event of cancellation of the event by Mirce Science payments received at the cancellation date will be refunded. All places offered are subject to availability.

Mirce Science is not responsible for any loss or damage as a result of substitution, alteration or cancellation of the event.

Mirce Science is unable to accept liability for the loss of, or damage to, the belongings of those attending the event.

### Value Added Tax (VAT)

Unless special exemption arrangements exist, under UK Customs and Excise regulations participants from all countries are required to pay UK VAT @ 17.5% at the time of publication. Non-UK participants may be able to recover VAT incurred via the relevant tax authority in their country of origin.

**Package Required (✓ please tick box)**

<input type="checkbox"/> <b>Full Three Day Programme and Supporting Events</b>		<b>£695.00 + £121.63 VAT = £816.63</b>
<input type="checkbox"/> <b>Two Day Programme</b> Please also tick the appropriate boxes opposite to show on which day you wish to attend	<input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday	<b>£595.00 + £104.13 VAT = £699.13</b>
<input type="checkbox"/> <b>One Day Programme</b> Please also tick the appropriate boxes opposite to show on which day you wish to attend	<input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday	<b>£395.00 + £69.13 VAT = £464.13</b>
<i>Please note that the One and Two Day Programmes do not include the Symposium Dinner – if you wish to attend see below.</i>		
<input type="checkbox"/> <b>Symposium Dinner</b>		<b>£42.55 + £ 7.45 VAT = £50 – 00</b>

**Participant Details**

Surname			
First Name			
Position			
Department			
Organisation			
Address			
Zip/Post Code		Country	
Telephone		Fax	
Email			
Special Requirements			
Dietary			
Other			
<i>I understand and accept the terms and conditions and payment as shown</i>			
Signature		Date	
Joining Instructions and a VAT Invoice will be issued on receipt of this form			

**Payment Method (✓ please tick box)**

<input type="checkbox"/> <b>Cheque</b> (made payable to Mirce Science)			
Cheque enclosed for £		(in GB Pounds)	
<input type="checkbox"/> <b>Bank Direct Transfer</b> (net of transaction any charges)			
Bank details (please quote Course and Date on remittance advice) National Westminster Bank plc, Exeter Bank Branch, 59 High Street, Exeter, EX4 3DL, United Kingdom / Sort Code: 56 – 00 – 49 / Account: Mirce Science Limited / Account No. 25189603 IBAN: GB07 NWBK 5600 4925 1896 03 / BIC: NWBK GB 2L			
<input type="checkbox"/> <b>Credit Card</b> (please debit my credit card)			
Visa			
MasterCard			
Amex			
Cardholder's Name			
Card No.			
Security Code			
Expiry Date			
Cardholder Signature			
<input type="checkbox"/> <b>Invoice</b> (please invoice my organisation)			
For the attention of			
Purchase Order No.			
Address (if different from above)			
Zip/Post Code		Country	