

Summer at the MIRCE Akademy

**An essential
learning
opportunity for**

- System Engineers ✓
- Human Factors Engineers ✓
- Supportability Managers ✓
- Maintainability Engineers ✓
- Integrated Logistic Support Managers ✓
- Technical Publications Specialists ✓
- Maintenance Managers ✓
- Equipment Procurement Managers ✓
- ILS Engineers ✓
- Human Factors Integrators ✓
- Logistic Support Analysts ✓
- Maintainability Managers ✓
- Operations Engineers ✓
- Human Factors
- Consultants ✓
- Capability Managers ✓
- Logistics Engineering Managers ✓
- Supportability Engineers ✓
- Human Factors
- Researchers ✓
- Others ✓

**Part of the
Learning Portfolio**

www.mirce.net

Human-Centred System Development

The 16th International Summer School

27 June – 1 July 2005, Woodbury Park, Exeter,
United Kingdom

Best Practice
Case Studies
Processes
Methods
Tools

- **Meet Customer Requirements**
- **Meet Regulatory Requirements**
- **Improve Safety**
- **Reduce Cost**
- **Improve Product Marketability**
- **Limit Product Liability**



**MIRCE
International
Summer School**



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Why a Summer School in Human-Centred System Development?

As an engineer, manager or analyst, you will only be too aware that system failures may have severe safety, economic or strategic consequences.

You will also be aware that as physical systems have tended to become more reliable there has been a growing emphasis and focus on the critical importance of the human performance and human factors integration.

This Summer School has been developed to extend your knowledge of human performance and to provide you with practical processes, methods and tools to assist you in fully integrating human performance into the systems engineering process.

Schedule

Each day will start at 0900 and normally end at approximately 1730 hours. There will be a coffee and tea breaks in the mornings and afternoons and lunch is provided.

The Summer School will also include an Evening Technical Presentation and Dinner where dress will be business.

Full joining instructions will be issued to participants approximately two weeks before the event.

Cost

The Summer School package includes – technical presentations, notes and materials, supporting programme, lunches, light refreshments and the Summer School Dinner. There will also be a technical visit to the Nigel Mansell World of Racing. Please note that the cost of accommodation is not included.

The cost of the full Symposium Package is just £1650-00 + VAT per person.

Group Discounts are available – please see Registration Form for full details.

Day One

Monday 27 June

Why bother about Human Performance?

- The growing importance of human performance and evidence of human error
- Real life case studies to illustrate the significance of human performance and the causes and consequences of human error

What exactly is Human Performance and why focus on Human Error?

- Human performance and human error
- The System – concept and performance
- Human Factors in the System Engineering Process
- Human performance and system performance
- Predicting System Behaviour – events, states and mechanisms
- Human performance and system elements

Day Two

Tuesday 28 June

What influences Human Performance?

- Basic Performance Influencing Factors
 - Product (i.e. design)
 - People (i.e. culture, personality, training)
 - Procedures (i.e. tasks, documentation)
 - Organisation (i.e. operational processes, management, physical environment)

These will be related to dimensions of human physiology (physique, vision, hearing, workload and fatigue etc.) and human psychology (information processing, communication, attention, perception, situational awareness, memory, stress, etc.).

Meeting Your Requirements

If there are any specific issues you wish to have covered in this Summer School please let us know and we will endeavour to integrate them into the programme.

Day Three

Wednesday 30 June

Who cares about Human Error?

- Regulators
- Operators
- Maintenance organisations
- Procurement
- Design/ Manufacturing organisations

How do Human Factors fit into the Systems Engineering Process?

- The Systems Engineering Process
- Human Factors Integration

Developing the Systems Engineering Process to consider Human Performance – A New Dimension and a New Approach

- An Overview of The Approach
- Strategies for development and implementation
- Understanding of the Sector/Industry (Regulatory reporting, Networks, Research, in-service experience)
- Understanding the Real Users and Operational Environment – establishing an early dialogue
- Processing and Analysing the Data (Data Collection, Analysis of Trends, determination of focus areas)
- Integrating the Developed Knowledge into Human Factors Targets and Measures
- Developing new Human performance Methods and Tools for use in the System Engineering Process –
 - Design Philosophy (Product, People, Organisation, Procedures)
 - Human Error Mode and Effect Analysis (HEMEA)
 - Human Error Management Strategy (HEMS)
 - Health and Safety Process (HASP)
- Implementation (Integrating with other Systems Engineering Processes and Analyses, Training and Guidance)

The Summer School is designed to encourage active learning through practical case studies, participative examination of examples of good and bad practice and practical hands-on use of methods and tools. Learn by doing rather than by listening.

Day Four

Thursday 31 June

Practical Methods and Tools 1 – Human Error Mode and Effect Analysis (HEMEA)

- How to do it
- Case Study
- Practical Exercise
- Lessons Learned

Technical Presentation followed by the Summer School Dinner

Day Five

Friday 1 July

Practical Methods and Tools 2 – Human Error Management Strategy (HEMS)

- How to do it
- Case Study
- Practical Exercise
- Lessons Learned

Bringing It All Together

Venue



The Summer School will be held at **Woodbury Park**, which is approximately eight miles from Exeter by road.

Communication between Exeter and other parts of the United Kingdom are excellent. By road, the M5 motorway links Exeter to London, the Midlands, Scotland and Wales. Regular rapid coaches run services to and from London and Heathrow Airport. By rail, a regular service is available to and from Exeter (St David's Station) and London (Paddington Station). By air, Exeter Airport offers regular flights to many British and Continental destinations and is situated near to Woodbury Park. Travel between Exeter and Woodbury normally requires a car or taxi.

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

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

Woodbury Park, Woodbury, Exeter, EX5 1JJ, United Kingdom

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 +44 (0) 1395 233 384

International Summer School 2005 - Registration Form

Fax on +44 (0) 1395 233 899 or Mail to MIRCE Industrial Akademy, Woodbury Park, Woodbury, Exeter, EX5 1JJ, United Kingdom

SUMMER SCHOOL FEES

Standard delegate fees:
GB £1650 (+VAT @ 17.5%) **Total £1938.75**

This fee covers all tuition, course material, daily lunches and light refreshments, an Evening Technical Presentation and Summer School Dinner.

10% Group Discount
GB £1485 (+VAT @ 17.5%) **Total £1744.88**

When two or more delegates from one organisation register for the Summer School, there is a 10% discount available for the second and additional delegates.

Substitution and Cancellation

Substitution of participants may be made at any time. If you intend to do this, please advise the MIRCE Industrial Akademy 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 Summer School. MIRCE Industrial Akademy regrets that no refunds or credits will be made after the deadline unless the Summer School is cancelled by the organiser.

The organiser reserves the right to alter the programme or cancel the Summer School at its discretion. All places offered are subject to availability.

VAT

Under UK Customs and Excise regulations delegates from all countries are required to pay UK VAT @ 17.5% on all courses taking place in the UK. This may be recovered via the relevant tax authority in the country of origin of the delegate.

PAYMENT DETAILS

Please invoice my organisation

For the attention of _____

Purchase Order No. _____

Please find enclosed a cheque for £ _____
(made payable to **MIRCE Science**)

Please charge credit card

Visa Mastercard Amex

Card No. _____ Expiry Date _____

Cardholder's Signature _____

PERSONAL DETAILS

Please print clearly

Surname _____

First name _____

Position _____

Department _____

Organisation _____

Address _____

Postcode _____ Country _____

Tel _____ Fax _____

E-mail _____

Home Address _____

Tel _____ Fax _____

E-mail _____

Address for correspondence Home Work

Special requirements Yes No
Please specify

I understand and accept the registration terms and conditions as shown

Signature _____ Date _____

Meeting Your Requirements

If there are any specific issues you wish to have covered in this Summer School please let us know and we will endeavour to integrate them into the programme.

You may use the reverse of this Registration Form to detail your suggestions.