

# 4<sup>th</sup> European Mechatronics Meeting



**EMM**  
2006  
European Mechatronics Meeting  
[www.emm2006.fr](http://www.emm2006.fr)

From Mechanics  
to Mechatronics,  
Risks or Opportunities  
for Industry?

MAY 18<sup>TH</sup> & 19<sup>TH</sup> 2006  
CONGRESS CENTRE  
OF SAINT-ETIENNE (FRANCE)

Organized  
in partnership with



thesame



ENISE  
Ecole Nationale Supérieure des Mines de Saint-Etienne



**cetim**  
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SAINT-ETIENNE

# CONFERENCES AND EXHIBITION

## 4<sup>èmes</sup> European Mechatronics Meeting

MAY 18<sup>TH</sup> & 19<sup>TH</sup> 2006 - CONGRESS CENTRE OF ST-ETIENNE (FRANCE)

### FROM MECHANICS TO MECHATRONICS, RISKS OR OPPORTUNITIES FOR INDUSTRY?

How to turn towards Mechatronics for a mechanics or electronics company ?

How to integrate new skills, new jobs ?

How to be identified by its customers as a reliable actor of this expanding technology ?

How to control risks of new markets ?

It is to answer industrial expectations that the **European Mechatronics Meeting - EMM 2006** has assembled for 4 years the main actors of industry, education and research.

It is the means of exchanging latest developments with the best experts in a convivial environment

Last year, more than 450 people from 35 nationalities were gathered in Annecy.

#### **EMM EXHIBITION The Mechatronics and Integrated Engineering Show.**

At the same time, an exhibition space will allow visitors to carry out a real **technological survey** on the latest developments proposed regarding products and services in **Integrated Engineering and Mechatronics**. Engineering and design departments, software publishers and technologies suppliers will present their offer.



Annecy-le-Vieux, Espace Rencontre.



# EMM 2006

European Mechatronics Meeting

The 2006 edition should assemble more than 500 participants around 2 themes :

✓ **MAY 18<sup>TH</sup>**, the "**EXPERT**" day will be focused on **Design**.

*It concerns in priority engineering and design departments.*

*It will be the occasion to take stock of one of the main challenges in Mechatronics which is reliability for systems including several technologies.*

✓ **MAY 19<sup>TH</sup>**, the "**GENERAL**" day will deal with various aspects of Mechatronics for SME's.

*The presentations will focus on different possible ways to make **transition towards Mechatronics a success**.*

*Market studies, marketing, design, training, production : all these questions will be tackled with pragmatism on actual industrial cases.*

#### **PARTICIPANTS :**

Heads of companies, persons in charge of research and Innovation, persons in charge of Engineering and design departments, purchasers.

Saint-Etienne town welcomes EMM 2006 in synergy with the international scientific congress INCOM' 2006.



# CONFERENCE SCHEDULE

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THURSDAY MAY 18<sup>TH</sup> 2006

## HIGHER PERFORMANCE IN DESIGN WITH

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“ Presentation of the days by Mr. **André MALET\***,  
President of the Competitiveness cluster ViaMeca  
and Director of Michelin Développement/SIDE ”

### INTEGRATED ENGINEERING IN PRACTICE

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Contributions and basic concepts  
of integrated engineering

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*By Jean-Claude BOCQUET - Ecole Centrale de Paris*

Deployment of reliability engineering  
during the design process

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*By Patrick LYONNET and Rosario TOSCANO - ENISE*

Risk management for safety  
devices design

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*By Brice LANTERNIER and Dominique CHARPENTIER - INERIS*

### CONCEPTS OF RELIABILITY AND MAINTENANCE IN DESIGN

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Experimental Reliability : definition of the test bench

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*By A. PONCET - RENAULT TRUCKS*

Optimization of automotive motorization  
by numerical Design of Experiments

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*By Aymeric DE BAVELAERE - Engineer Reliability RENAULT*

Optimization of Maintenance costs in helicopters "Design to cost"

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*By Mathieu GLADE - EUROCOPTER*

Model engineering in reliability integration in design

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*By Emmanuel ARBARETIER - APSYS*

\* With reserves



FROM 8H TO 18H

## INTEGRATED ENGINEERING.



### RAPID PROTOTYPING - EXAMPLES OF APPLICATIONS

State of the art in rapid prototyping

*By Philippe BERTRAND - ENISE*

Direct metal laser sintering :  
application to tools and direct parts

*By Bruno LE RAZER - Pôle Européen de Plasturgie*

Rapid prototyping and direct manufacturing by laser  
for multipurpose and multimaterial products

*By Igor SMUROV - Director of DIPI*

### ROUNDTABLE : "FROM INTEGRATED ENGINEERING TO MECHATRONICS"

Difficulties of integration and multitechnologic reliability

*Speakers : Philippe BERTRAND, Jean-Claude BOCQUET,  
Dominique CHARPENTIER*



### INVITATION

On invitation of the  
Chamber of Commerce and Industry  
and of the industries of Saint-Etienne  
Reception at the "Geoffroy GUICHARD  
football stadium", called the "Chaudron"  
and famous for its "Green" team.

# CONFERENCE SCHEDULE

FRIDAY MAY 19<sup>TH</sup> 2006

## MANAGING THE TRANSITION TOWARDS

“ Under the chairmanship of  
**Mr. Jean-Louis GAGNAIRE**,  
Vice-President of Rhône-Alpes region,  
in charge of economy. ”

### THE ECONOMIC WEIGHT OF MECHATRONICS

#### Mechatronics in the heart of competitiveness

Round Table with **Philippe de LACLOS** - General manager of CETIM, person in charge of the Competitiveness Clusters “Arve Industries”, “Via Meca”, “Minalogic” and of Regional Clusters

#### Economic impact of Mechatronics in automotive industry

Results of the 1st European scale investigation carried out with manufacturers and equipment suppliers

By **Thierry DUJARDIN** - DECISION

### HOW TO APPROACH MECHATRONICS?

#### DESIGNING Design outsourcing : a key to success?

Par **Jean-Denis SAUZADE** - TELEMAQ

#### MAKING RELIABLE Reliability and safety engineering in design

By **Patrick LYONNET** and **Rosario TOSCANO** - ENISE

#### PRODUCING The necessary adaptation of production equipments : the example of micro-factories

By **Philippe LUTZ** - Laboratoire d'Automatique de Besançon

#### SELLING Marketing a Mechatron product : new skills, new commercial approaches

By **Pascal LAURIN**, Responsible Marketing Technical support - BOSCH REXROTH



FROM 8H00 TO 16H30

# MECHATRONICS



## THE SPREADING OF MECHATRONICS IN INDUSTRY

**SME'S**

**10 years of mechatronics design :  
Synthesis of main success or failure factors of projects**

*By Eric BRUYAT, Responsible of electronic laboratory ALPES DEIS*

**Profits of a Mechatronics approach  
for designing and manufacturing intelligent tools**

*By Serge GRYGOROWICZ - Directeur RB3D*

**TRANSPORT**

**Building and civil work machinery sector is mobilized  
on mechatronics**

*By Guy GALAND, Responsible of CETIM's mechatronic project - STARTEC*

**PRODUCTION**

**IcIa Integrated closed loop Actuator  
The innovation to realize decentralized automation concepts**

*By Dr-Ing. Björn HAGEMANN,  
VP-Technology BERGER LAHR GMBH & Co. KG*

**When pneumatics join Mechatronics**

*By Ludovic MARAIS, Pneumatic Development Manager - BOSCH REXROTH*

**An integration platform for maintenance tools :  
the Proteus system**

*By Denis REBOUL - CEGELEC and Professor Jean-Pierre THOMESSE - LORIA Nancy*

## ROUND TABLE

**Education in Mechatronics. How to reach industrial needs?**

*By Prof. Jacques LOTTIN - Annecy Engineering School, Université de Savoie*

# Information

[www.emm2006.fr](http://www.emm2006.fr)

## ACCESS MAP

CENTRE DE CONGRÈS  
23, RUE PONCHARDIER  
42010 SAINT-ÉTIENNE - FRANCE

## BY CAR

Take road RN 88 and follow  
Firminy - Le Puy/Saint-Etienne,  
Take exit N°21  
"Le Rond Point"  
In town, follow :  
"Espace Fauriel/Centre de Congrès/Planétarium"



## ACCOMMODATION

On : [www.emse.fr/incom06/information.html](http://www.emse.fr/incom06/information.html)  
or Office du Tourisme / Service Congrès - 16, avenue Libération - 42000 Saint-Etienne  
Frédérique or David - Phone +33(0)477493902 - Fax +33(0)477493903 - [congres@tourisme-st-etienne.com](mailto:congres@tourisme-st-etienne.com)

## FEES INCLUDING VAT

Registration for :

1 DAY EMM 2006	18 <sup>TH</sup> or 19 <sup>TH</sup> MAI	170 € <sup>VAT</sup>
2 DAYS EMM 2006	18 <sup>TH</sup> and 19 <sup>TH</sup> MAI	300 € <sup>VAT</sup>
3 DAYS EMM + INCOM2006*	17 <sup>TH</sup> , 18 <sup>TH</sup> AND 19 <sup>TH</sup> MAI	445 € <sup>TTC</sup>

Group registration :

For 2 registrations in the same company, the 3<sup>rd</sup> is free.

Fees include, in the registration period, the participation in conferences and exhibition, coffee breaks, lunches, documents and the reception of May 18<sup>th</sup> in the Geoffroy GUICHARD stadium.

\* Full registration for 3 days includes access to the other industrial workshops and to INCOM' 2006 congress, and also to the May 17<sup>th</sup> official dinner.

Complete schedule for INCOM' 2006 on [www.emse.fr/incom06](http://www.emse.fr/incom06)

Payment by cheque or bank transfer to the order of  
"Agent comptable de l'Ecole des Mines de Saint-Étienne".  
IBAN N° for bank transfer : FR 76 1007 1420 0000 0010 0289 731

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Exhibitors lists at March 13<sup>th</sup> 2006.

## CONTACTS AND INFORMATION :

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www.emm2006.fr

www.thesame-innovation.com (Rubrique Agenda)

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