

# world.MANUFACTURING.forum.2011

Innovation in Global Manufacturing

16-17 May 2011, Villa Erba  
*Cernobbio, Como Lake, Italy*

## PROGRAMME











world.MANUFACTURING.forum.2011

16-17 May 2011

Villa Erba  
*Cernobbio, Como Lake, Italy*

[www.worldmanufacturingforum.org](http://www.worldmanufacturingforum.org)





**The world's economies** are more interlinked than ever with most industries now operating globally. Countries that have consistently invested in research and development have been seeing their competitiveness increase. With manufacturing becoming ever more global questions arise: Are industrial policies keeping pace with global reality or are they still based on non-global manufacturing paradigms? Will economies become unstable by keeping their markets open or can there be a more resilient world, for example through collective R&D effort? According to a recent McKinsey survey, more than fifty percent of executives consider sustainability – the management of environmental, social, and governance issues – “very” or “extremely important” in a wide range of areas, including new product development, reputation building, and overall corporate strategy.

**Manufacturing** remains a significant source of employment and a major contributor to the GDP in developed countries. If related services are counted as well, the role of manufacturing becomes even larger. On the other hand, manufacturing and its services are major producers of CO<sub>2</sub> emissions and large consumers of energy. If industrial consumption patterns remain unchanged, then key resources such as water and fossil fuels will soon be scarce in a world of 9 billion people. In such a scenario, companies cannot avoid anymore the implementation of business strategies that focus on sustainability, and policy makers will need to create environments for innovation that go hand in hand with these strategies. This double challenge, sustainability and innovation, has been addressed all too often independent of one another.

**In Cernobbio**, at the wonderful surroundings of the Lake Como, decision makers will meet to discuss emerging trends in industrial innovation and global manufacturing. The focus of the event will be on the role of business and public policy in carving the right strategies for a sustainable future.



**The World Manufacturing Forum** offers a platform for debate among decision makers. How to achieve a low-carbon economy? How to decrease the use of non-renewable resources in industry? Which skills and competencies will be needed for manufacturing in 2020? How to create better workplaces? What is the role of national industrial policies in globally-driven economies? Around these themes, the 2011 World Manufacturing Forum aims to build a consensus strategy for a better future characterised by global sustainable development. Don't miss your opportunity to shape a better future world!

**The Forum** aims to bring together high-level industrialists, policy makers and key societal stakeholders across the globe to discuss challenges to manufacturing innovation and possible solutions through global cooperation. It is supported by leading industrial organizations and public institutions from over 30 countries and is open to new members.

**The focus** of the event's Day 1 will be on developing consensus on a vision with respect to global manufacturing challenges and sustainability issues as well as relevant growth models and policies. Day 2 will aim to stimulate bottom-up ideas to promote R&D and innovation partnerships through hands on parallel sessions.





## PROGRAMME OVERVIEW

### MONDAY, 16 MAY 2011

08:00 - 09:00	<i>Registration and Welcome Coffee</i>
09:00 - 09:30	WELCOME TO THE WORLD MANUFACTURING FORUM 2011
09:30 - 11:00	Plenary Session 1: MAJOR TRENDS IN MANUFACTURING
11:00 - 11:30	<i>Coffee break</i>
11:30 - 13:00	Plenary Session 2: INDUSTRIAL POLICIES FOR A GLOBALISED WORLD
13:00 - 14:00	<i>Lunch and Networking</i>
14:00 - 15:30	Plenary Session 3: MANUFACTURING INNOVATION AND SUSTAINABILITY
15:30 - 16:00	<i>Coffee break</i>
16:00 - 17:30	Plenary Session 4: INDUSTRIAL POLICY AND GLOBAL MANUFACTURING INNOVATION: WHAT ARE KEY SUCCESS FACTORS?
19:00	Gala Dinner



## TUESDAY, 17 MAY 2011

08:00 – 09:00     *Registration and Welcome Coffee*

09:00 – 10:30     Parallel Sessions A, B and C

Session A:    INFORMATION SYSTEMS SUPPORTING STANDARDS FOR SUSTAINABLE  
MANUFACTURING

Session B:    GLOBAL CONSUMERS' NEEDS FOR PRODUCTS AND SERVICES: A MAJOR  
DRIVER FOR MANUFACTURING SYSTEMS INNOVATION

Session C:    HOW WILL THE FUTURE WORKPLACE LOOK LIKE?

10:30 – 11:00     *Coffee break*

11:00 – 12:15     CONTINUATION PARALLEL SESSIONS A, B AND C

12:15 – 13:30     *Lunch and Networking*

13:30 – 15:00     Parallel Sessions D, E and F

Session D:    THE IMPORTANCE OF PRODUCT AND PROCESS LIFECYCLE MANAGEMENT

Session E:    RESOURCE EFFICIENCY IN GLOBAL MANUFACTURING

Session F:    THE RIGHT SKILLS FOR INNOVATIVE MANUFACTURING

15:00 – 15:30     *Coffee break*

15:30 – 16:45     CONTINUATION PARALLEL SESSIONS D, E AND F

16:45 – 17:00     *Move to Plenary Session 5*

17:00 – 18:00     Plenary Session 5:  
GLOBAL MANUFACTURING INNOVATION OUTLOOK

19:00               Dinner Cruise





world.MANUFACTURING.forum.2011

PROGRAMME

MONDAY, 16 MAY 2011



MONDAY, 16 MAY 2011

08:00 - 09:00 *Registration and Welcome Coffee*

## WELCOME

09:00 - 09:30 WELCOME TO THE WORLD MANUFACTURING FORUM 2011

### CHAIRMAN'S WELCOME

*FRED-HOLGER GÜNTHER, Chairman of the World Manufacturing Forum Executive Committee*

### WHY A WORLD MANUFACTURING FORUM?

*ZORAN STANČIĆ, Deputy Director-General, European Commission*

### INTRODUCTION TO THE PROGRAMME

*MARCO TAISCH, Scientific Chairman of the World Manufacturing Forum*

## PLENARY SESSION 1

09:30 - 11:00 MAJOR TRENDS IN MANUFACTURING

Manufacturing is one of the engines of global economic growth and sustainable development. But global requests for greener products, increasing competitiveness in low-cost manufacturing, more complex products and services with more technologies embedded, international regulation toward near-to-zero emission plants are all putting significant pressure on companies to respond with new manufacturing strategies. These can only be enabled through a radical redesign of the role of manufacturing in a company's vision. The session aims to spell out some of these trends.

### SESSION INTRODUCTION

Chair: *FRED-HOLGER GÜNTHER, Chairman of the World Manufacturing Forum Executive Committee*

### BUILDING THE FUTURE OF MANUFACTURING

*BILL BLACK, Group Senior Vice President Quality and Operational Excellence, ABB Group, Switzerland*

### PRODUCT ADVANCED DEVELOPMENT & MANUFACTURING PROCESSES: THE INTERACTIONS

*MAURO PILONI, Vice President Advanced Development and Cross Product Categories, Whirlpool, Italy*

### 787 AND MANUFACTURING

*DIANNE CHONG, Vice President - Assembly, Factory & Support Technology  
The Boeing Company, United States*

11:00 - 11:30 *Coffee break*





MONDAY, 16 MAY 2011

## PLENARY SESSION 2

11:30 - 13:00 INDUSTRIAL POLICIES FOR A GLOBALISED WORLD

The global business environment has changed dramatically in the last decade. Technology, ICT and skills have become increasingly important for international competitiveness. Global value chains are becoming interlinked and there is growing competition for scarce energy resources and raw materials. Access to international consumer markets has improved. Although the financial and economic crisis has led to a decrease of manufacturing activities in Europe, Japan and the US, many other economies appear to have feathered its effects quite well. The new business environment results in both challenges and opportunities for global manufacturing: Whilst OECD countries have maintained a high level of spending on science, technology and innovation (STI), BRIC economies have increased STI spending significantly. Governments are keen to put policies in place in order to help their industries seize the opportunities. This session aims to bring together policy and industry views and to investigate the new challenges and the impact of policy on global business by instigating a business-to-business, business-to-government and government-to-government dialogue.

### SESSION INTRODUCTION

Chair: *HERBERT VON BOSE, Director, European Commission*

### EUROPEAN POLICIES FOR INDUSTRIAL COMPETITIVENESS

*JORGO CHATZIMARKAKIS, Member of the European Parliament*

### EMERGENCE OF INTELLIGENT LOW CARBON MANUFACTURING

*VALLAMPADUGAI S. ARUNACHALAM, Chairman, Center for Study of Science, Technology and Policy, India*

### GREEN GROWTH POLICY IN KOREA

*KYOUNG HOAN NA, President, Korea Institute of Industrial Technology, Korea*

13:00 - 14:00 *Lunch and Networking*



MONDAY, 16 MAY 2011

## PLENARY SESSION 3

14:00 - 15:30 MANUFACTURING INNOVATION AND SUSTAINABILITY

The session hopes to explore global manufacturing challenges and sustainability issues within the framework of national policies. Speakers will present how their global networked industry operates within a quilt of national policies. National interests may be designed to protect resources ( water, fossil fuels, and rare earth elements ), environment, and revenue, but place ever-increasing innovation demands on industry to meet these challenges. Speakers will focus on these issues, and explore how governments may cooperate internationally to enact policies that support global manufacturing operations. The desired outcome is to address sustainability and innovation holistically from national policy and industry perspectives, and propose possible solutions.

### SESSION INTRODUCTION

Chair: *ROBERT G. KIGGANS, Vice Chairman ATI Board of Directors, SCRA, USA*

### SUSTAINABILITY OF THE GLOBAL MANUFACTURING FRAMEWORK: THE EFFECT OF ONE GREAT DISASTER

*MASAHIRO KITANO, Vice President and Executive Officer, Hitachi, Japan*

### AUTOMOTIVE MANUFACTURING CHALLENGES AND INNOVATIONS

*SUSAN SMYTH, Director Manufacturing Systems Research Laboratory  
General Motors Company, United States*

### INTERNATIONAL PRODUCTION NETWORK OF AN AUTOMOTIVE SUPPLIER: STRUCTURE, REQUIREMENTS AND BENEFITS

*WERNER STRUTH, President of Bosch Chassis Systems Control Division,  
Robert Bosch GmbH, Germany*

15:30 - 16:00 *Coffee break*





MONDAY, 16 MAY 2011

## PLENARY SESSION 4 - Roundtable

16:00 - 17:30 INDUSTRIAL POLICY AND GLOBAL MANUFACTURING INNOVATION:  
WHAT ARE KEY SUCCESS FACTORS?

The session is organised as a roundtable among high-level industry and R&D stakeholders. The primary expected outcome from the roundtable is a view of how future industrial policies can support technological innovation needs of the global manufacturing industry. To this end, key factors to measure the impact of industrial policy may be identified.

### SESSION INTRODUCTION

Moderator: *BRIAN JOHNSON, Cambridge University, UK*

*BRYAN DODS, Manufacturing Technology Leader, General Electric Energy, USA*

*ANTON MAGNANI, Director Shoes & Leather Accessories and Member of the Extended Board Management, Hugo Boss, Switzerland*

*HEINRICH FLEGEL, Member of Supervisory Board, Daimler, Germany*

*RISTO KUIVANEN, Vice President R&D, VTT, Finland*

*Jl OH SONG, Executive Vice President/Senior Advisor, Mechatronics & Manufacturing Technology Center, Samsung Electronics, Korea*

19:00 GALA DINNER









world.MANUFACTURING.forum.2011

PROGRAMME

TUESDAY, 17 MAY 2011



TUESDAY, 17 MAY 2011 morning parallel session A - B - C

08:00 - 09:00 *Registration and Welcome Coffee*

## SESSION A

### INFORMATION SYSTEMS SUPPORTING STANDARDS FOR SUSTAINABLE MANUFACTURING

Companies engaged in global manufacturing business networks see themselves increasingly confronted with local sustainability requirements and rules. Interoperable ICT solutions could help them become compliant whilst improving time-to market.

*Co-Chairs:*

*BYUNG-WOOK CHOI, Korea Institute of Industrial Technology, Korea*

*DIMITRIS KIRITSIS, Ecole Polytechnique Fédérale de Lausanne, Switzerland*

09:00 - 10:30 SESSION A - PART 1

### INTRODUCTION TO INTERNATIONAL STANDARDS OF MANUFACTURING SOFTWARE CAPABILITY PROFILING FOR INTEROPERABILITY

*EIJI ARAI, Osaka University, Japan*

### ACHIEVING PRODUCTIVITY AND SUSTAINABILITY TOGETHER IN MANUFACTURING

*HYUNBO CHO, Pohang University of Science and Technology, Korea*

### BEYOND GREEN: MAKING SENSE OF SUSTAINABILITY

*HOWARD HARARY, Deputy Director of Manufacturing, National Institute of Standards and Technology, USA*

10:30 - 11:00 *Coffee break*

11:00 - 12:15 SESSION A - PART 2

### A BUSINESS CASE FOR LONG-TERM ARCHIVING & RETRIEVAL OF THE MODEL BASED ENTERPRISE'S DATA

*DAVID WILLIAMS, Director of Information Solutions & Services, Sandia National Laboratories, USA*

### THE PROCESS OF SYSTEMATICALLY DEPLOYING STANDARDS TO MEET INDUSTRY NEEDS

*HOWARD MASON, BAE Systems, UK*

### DISCUSSION

12:15 - 13:30 *Lunch and Networking*





TUESDAY, 17 MAY 2011 morning parallel session A - B - C

## SESSION B

### GLOBAL CONSUMERS' NEEDS FOR PRODUCTS AND SERVICES: A MAJOR DRIVER FOR MANUFACTURING SYSTEMS INNOVATION

Design and engineering of new mass-customised products and services requires approaches that take into consideration a diversity of customer requirements and life style constraints. The session will address technology options for companies that want to successfully compete in global consumer markets.

*Co-Chairs:*

*ROBERTA SALONNA, Programme Manager, Industrial Technologies Programme  
European Commission, Belgium*

*EMANUELE CARPANZANO, Director, Synesis, Italy*

09:00 - 10:30 SESSION B - PART 1

#### THE CONSUMAUTHOR:

##### GLOBAL CONSUMERS' FUTURE TRENDS AND SCENARIOS

*SABINA DEWEIK, General Director, Future Concept Lab do Brazil, Brazil*

##### THE IMPORTANCE OF MASS CUSTOMISATION AS NEW PRODUCTION PARADIGM AND AS A CONTRIBUTION TO SUSTAINABILITY

*CLAUDIO BOËR, Director, SUPSI-ICIMSI, Switzerland*

##### FURNITURE INDUSTRY IN US: CONSUMER TRENDS AND INNOVATIVE MANUFACTURING SOLUTIONS TOWARDS CUSTOMISATION AND SUSTAINABILITY

*JEFF HOLMES, CEO, Piedmont Triad, USA*

10:30 - 11:00 *Coffee break*

11:00 - 12:15 SESSION B - PART 2

##### GARMENT INDUSTRY WORLDWIDE: INNOVATIVE SOLUTIONS TO GLOBAL CONSUMER NEW LIFE-STYLES AND TO PRESERVATION OF GLOBAL ENVIRONMENT

*YASUYUKI CHO, Customer Experience Specialist, Wacoal Corporation, Japan*

##### THE PROSUMER.NET INITIATIVE: NETWORKING EUROPEAN TECHNOLOGY PLATFORMS ADDRESSING DESIGN-BASED CONSUMER GOODS INDUSTRIES AND RELATED RESEARCH AND TECHNOLOGY FIELDS

*LUTZ WALTER, RTD Director, EURATEX, Belgium*

#### DISCUSSION

12:15 - 13:30 *Lunch and Networking*



TUESDAY, 17 MAY 2011 morning parallel session A - B - C

## SESSION C

### HOW WILL THE FUTURE WORKPLACE LOOK LIKE?

Dynamic trends are reshaping the workplace. Several include aging populations, the growing importance of the "prosumer", persons working from home, the effects of the crisis, and two parent working families to name a few. To respond, companies need transformational strategies, technologies, processes, and worker policies. This session examines how manufacturing companies can prepare for the future workforce and benefit from it.

*Co-Chairs:*

*THOMAS MESSERVEY, D'Appolonia SPA, Italy*

*TOBIAS BROSZE, FIR-Aachen, Germany*

09:00 - 10:30 SESSION C - PART 1

### POTENTIAL OF COLLABORATIVE TECHNOLOGIES IN RESHAPING FUTURE WORKSPACE ENVIRONMENTS

*TERRENCE FERNANDO, Director of ThinkLab, University of Salford, UK*

### THE DIGITAL REVOLUTION AND ITS INFLUENCE ON THE WORKPLACE 2020 - IMPLICATIONS OF A COMPLETE INTERCONNECTEDNESS ON OUR FUTURE LIFESTYLE

*ISA HOFMANN, Founder, Avantex, Germany*

### THE FUTURE ADAPTIVE CAPABILITIES OF MANUFACTURING ORGANISATIONS

*JEROME FINLAYSON, Lead Practitioner, Scottish Manufacturing Advisory Service, UK*

10:30 - 11:00 *Coffee break*

11:00 - 12:15 SESSION C - PART 2

### VIRTUAL MODELLING - AN ENABLING TECHNOLOGY FOR THE FUTURE WORKFORCE

*JACK HARRIS, Director of Advanced Manufacturing Technology  
Rockwell Collins, USA*

### PRAGMATIC IMPLEMENTATION OF LEAN MANUFACTURING CONCEPTS FOCUSED ON THE IMPROVEMENT OF WORKING CONDITIONS

*GEORGES ZIMBOULAS, Executive Vice President and Technical Director,  
ZF Bouthéon, France*

11:50 - 12:15 DISCUSSION

12:15 - 13:30 *Lunch and Networking*





TUESDAY, 17 MAY 2011 afternoon parallel session D - E - F

## SESSION D

### THE IMPORTANCE OF PRODUCT AND PROCESS LIFECYCLE MANAGEMENT

Added-value products depend more and more on lifecycle approaches that adequately link a product to its manufacturer and to related assets such as maintenance or other value-adding services. The session will elaborate on how a holistic approach can add value to high-tech products while helping reduce cost, energy consumption and waste.

*Co-Chairs:*

*DAVID ROMERO, Tecnológico de Monterrey, Mexico*

*MARCO GARETTI, Politecnico di Milano, Italy*

13:30 - 15:00 SESSION D - PART 1

### LIFECYCLE ENGINEERING: CURRENT TRENDS AND TECHNOLOGIES

*CIRO RODRIGUEZ, Director of Center for Innovation in Design and Technology, Tecnológico de Monterrey University, Mexico*

### CLOSED LOOP PLM USING SMART EMBEDDED SYSTEMS

*MARKUS FREY, Six Sigma, Processes and Tools Senior Engineer, Bombardier Transportation, Switzerland*

### TRENDS IN PRODUCT AND PROCESS LIFECYCLE MANAGEMENT

*AHMED AL-ASHAAB, Director of Knowledge Management for Innovation Center, Cranfield University, UK*

15:00 - 15:30 *Coffee break*

15:30 - 16:45 SESSION D - PART 2

### LINKING BUSINESS, MAINTENANCE AND ASSETS STRATEGIES. BUILDING EFFECTIVENESS INTO OUR MAINTENANCE MANAGEMENT

*ADOLFO CRESPO MARQUEZ, University of Seville, Spain*

### PRODUCT AND TECHNOLOGY INTELLIGENCE - INSTRUMENTS ENABLING NEW APPROACHES TO STRATEGIC DECISION MAKING IN PRODUCT DEVELOPMENT - TRENDS AND FUTURE PERSPECTIVE A POINT OF VIEW FROM THE INDUSTRY

*GUIDO CHIAPPA, Manager of Innovation Strategy Unit, D'Appolonia, Italy*

### SUSTAINABLE PROCESS INDUSTRY : DOING MORE WITH LESS. SUSCHEM - RESOURCE EFFICIENCY : THE ROOTS FOR INNOVATION

*PAUL-JOEL DERIAN, Group Vice President, Rhodia, France*

16:45 - 17:00 *Move to Plenary Session 5*



TUESDAY, 17 MAY 2011 afternoon parallel session D - E - F

## SESSION E

### RESOURCE EFFICIENCY IN GLOBAL MANUFACTURING

Manufacturing competition for raw materials and energy in the face of stricter government regulation is driving industry toward greater efficiencies in production and materials management. This session will discuss new technologies required to meet the challenges and how industry must respond.

*Co-Chairs:*

*PAUL SCHÖNSLEBEN, Center for Industrial Management, Federal Institute of Technology Zurich, Switzerland*

*ERASTOS FILOS, European Commission, Belgium*

13:30 - 15:00 SESSION E - PART 1

### ENERGY AND MATERIAL SCARCITY:

#### ACHILLES' HEEL OF FUTURE GLOBAL MANUFACTURING

*VALLAMPADUGAI S. ARUNACHALAM, Chairman, Center for Study of Science, Technology and Policy, Bangalore, India*

### INNOVATION IN GLOBAL MANUFACTURING: SUSTAINABILITY FOR BUSINESS SUCCESS

*STEPHAN BILLER, Group Manager Sustainable Manufacturing Systems, General Motors, USA*

### OUTSOURCING AND SUSTAINABILITY - MASTERING ENERGY CONSUMPTION

*ASBJØRN ROLSTADÅS, Vice Dean for Research at the Faculty of Engineering Science and Technology, Norwegian University of Science and Technology, Norway*

15:00 - 15:30 *Coffee break*

15:30 - 16:45 SESSION E - PART 2

### GLOBAL MANUFACTURING BASED ON GREEN TECHNOLOGIES - A MEXICO CASE STUDY

*MARIO MARTINEZ, Dean of Technological Innovation and Entrepreneurship, Tecnológico de Monterrey, Mexico*

### RESOURCE EFFICIENCY IN DISCRETE MANUFACTURING: PERSPECTIVES AND OPPORTUNITIES

*JOOST DUFLU, Katholieke Universiteit Leuven, Belgium*

### DISCUSSION

16:45 - 17:00 *Move to Plenary Session 5*





TUESDAY, 17 MAY 2011 afternoon parallel session D - E - F

## SESSION F

### THE RIGHT SKILLS FOR INNOVATIVE MANUFACTURING

If in the past competition was based on cost, quality, product differentiation in the current globalised service-oriented manufacturing arena, the competitive advantage is about having the right knowledge and competencies at the right time. Multi-cultural and multi-disciplinary skills are a prerequisite for successful global companies.

*Co-Chairs:*

*THOMAS KURFESS, Clemson University, USA*

*JON AGIRRE IBARBIA, Tecnalia, Spain*

13:30 - 15:00 SESSION F - PART 1

### TRANSFORMING MANUFACTURING'S MISSING MIDDLE THROUGH COLLABORATION

*RICHARD JARMAN, President, National Center for Manufacturing Sciences, USA*

### BUILDING UP SKILLS FOR INNOVATIVE MANUFACTURING

*DANIEL SCHAEFER, Head of Production Concept Project I, BMW, Germany*

### THE INTELLIGENCE & EMPATHY FOR THE BUSINESS & THE MACHINES

*FERNANDO LEON, Technical Manager, Fanuc Robotics Europe, Spain*

*AGUSTÍN J. SÁENZ, Business Development Director, TECNALIA Research & Innovation, Spain*

15:00 - 15:30 Coffee break

15:30 - 16:45 SESSION F - PART 2

### STRUCTURAL TRENDS OF MANUFACTURING AND R&D IN FINLAND - HOW TO GET MORE OUT OF NETWORKING

*TOMAS HEDENBORG, Chairman of "The Cluster ManufacturingFinland"*

*(Federation of Finnish Technology Industries), Executive Chairman Fastems Oy, Finland*

### SKILLS REQUIREMENTS AND TOOLS TO SUPPORT THE MULTI-DISCIPLINARY FUNCTION OF MAINTENANCE MANAGEMENT IN SUSTAINABLE MANUFACTURING

*CHRISTOS EMMANOUILIDIS, Head of Computational Systems and Applications Lab, CETI / ATHENA Research and Innovation Centre in Information Communication and Knowledge Technologies, Greece*

16:20 - 16:45 DISCUSSION

16:45 - 17:00 Move to Plenary Session 5



TUESDAY, 17 MAY 2011

## PLENARY SESSION 5

17:00 - 18:00 GLOBAL MANUFACTURING INNOVATION OUTLOOK

After two full days of intense discussions, the session will aim to outline the major emerged trends, thus helping to shape the WMF view on Innovation in Manufacturing. The three speakers, from three different perspectives, industry, R&D and funding agencies, will outline how the fostering of innovation should be pursued for creating more and better jobs

### SESSION INTRODUCTION

Chair: *MARCO TAISCH, Scientific Chairman of the World Manufacturing Forum*

### GREEN GROWTH IN THE FUTURE MACHINERY INDUSTRY

*DOO YEARN JO, Vice President and Chief Technology Officer, Doosan Infracore, Korea*

### PROMOTING INNOVATION AND COMPETITIVENESS IN MEXICO

*GUSTAVO VILLAR, National Council of Science and Technology, Mexico*

### THE FIRST WORLD MANUFACTURING FORUM.

### WRAP-UP AND CLOSING STATEMENTS

*ROBERT G. KIGGANS, Vice Chairman ATI Board of Directors, SCRA, USA*

19:00 DINNER CRUISE



The organisation of the World Manufacturing Forum 2011 consists of three groups, the EXECUTIVE COMMITTEE, the PROGRAMME COMMITTEE and the LOCAL ORGANIZING COMMITTEE. All groups are supported by IMS International and IMS2020.

Members of the EXECUTIVE COMMITTEE are:

- *FRED-HOLGER GÜNTHER, Chairman of the World Manufacturing Forum Executive Committee, Germany*
- *MASSIMO MATTUCCI, COO Comau Powertrain Systems, Italy*
- *ROBERT G. KIGGANS, Vice Chairman ATI Board of Directors, SCRA, USA*
- *JACK HARRIS, Director of Advanced Manufacturing Technology, Rockwell Collins, USA*
- *JI OH SONG, Executive Vice President/Senior Advisor, Mechatronics & Manufacturing Technology Center, Samsung Electronics, Korea*
- *ABRAHAM TIJERINA-PRIEGO, Director of Product Technology and Innovation Metalsa SA, Mexico*

Members of the PROGRAMME COMMITTEE are:

- *DAN NAGY, Managing Director, IMS Inter-Regional Secretariat, Switzerland*
- *ROBERTA SALONNA, Programme Manager, Industrial Technologies Programme, European Commission, Belgium*
- *ERASTOS FILOS, Head of Sector Intelligent Manufacturing Systems, European Commission, Belgium*
- *MARCO TAISCH, Politecnico di Milano, Scientific Chairman of the World Manufacturing Forum, Italy*

Members of the LOCAL ORGANIZING COMMITTEE are:

- *MARCO TAISCH, Politecnico di Milano, Italy*
- *IORELLA COLOMBO, Politecnico di Milano, Italy*
- *GOLBOO POURABDOLLAHIAN, Politecnico di Milano, Italy*
- *BOJAN STAHL, Politecnico di Milano, Italy*







world.MANUFACTURING.forum.2011  
16-17 May 2011, Villa Erba, Cernobbio, Como Lake, Italy



supported by:



[www.worldmanufacturingforum.org](http://www.worldmanufacturingforum.org)



Printed on Natural Recycled Paper