

**ALUMINIUM
TWO THOUSAND**



ICEB
International Conference
on Extrusion and Benchmark

United Aluminium World at

ALUMINIUM TWO THOUSAND

10th International Congress

ICEB

6th International Conference on Extrusion and Benchmark

Along with

METEF INTERNATIONAL EXHIBITION

PalaExpo Congress, VERONAFIERE – Verona, Italy

20 - 24 June 2017

Meet the Specialists – 3 events in 1

CALL FOR PAPERS

As a potential speaker you are invited to submit a title (with list of the authors) for a proposed presentation before 31 May 2016

An **abstract** (maximum 1 page, following the template available on website) should be submitted to aluminium2000@interall.it before 30 June 2016

You or your company will get great visibility: we expect 500 participants at the congress and 10,000 visitors at Metef Exhibition

ALUMINIUM TWO THOUSAND CONFERENCE TOPICS

MARKETS & STRATEGIES: The traditional markets: Europe, USA, Canada, Middle East, The Gulf, Far East - BRIC Countries (Brazil, Russia, India, China) and their present and future role - New emerging countries: Mexico, Central and South America

ALLOYS BILLETS & RELATED EQUIPMENT: Foundry - Aluminium casthouse technology - Billet quality - Billet casting - Homogenization - Use of primary aluminium and scrap - High speed alloys

ROLLING TECHNOLOGY: Innovative equipment - New application of aluminium coil and sheet in the industry

ARCHITECTURE & SPECIAL USES: Building systems - Curtain walls - Design & Construction - CAD/CAM - Exterior & Interior Finishing - Renewal and Maintenance - Windows & Doors - New applications

TRANSPORT & AUTOMOTIVE INDUSTRY: Product and process innovations - Aeronautics - Nautical - Automotive - Rail sectors - Patents - Computer technologies - Mechanical processing - Alloys - Design and innovation

EXTRUSION:

- **PROCESS SUSTAINABILITY:** Eco-equipment - Eco-plants - Sustainable Production - Energy Savings
- **PROCESS MANAGEMENT:** Economical-driven Decisions - Process Control - Process Savings - The "Small Lots" Problem Architectural and Non-Architectural Systems
- **PROCESS MONITORING:** Sensors Effectiveness - New Devices - Data Management Systems - Data Warehouse
- **PLANT & PROCESS:** Furnaces - Presses - Handling equipment - Ovens and Heating Systems - Saws and shears - Downstream equipment - Automation - Hard and Big Profiles - Packaging - Lubricants - Cooling Devices - Nitrogen Cooling
- **PROCESS SIMULATION:** Models - Validation - Optimization - Material Flow - Friction - Stress State Prediction
- **PRODUCT QUALITY:** Defects - Distortions - Seam/Charge Welds - Maximum Production Rates - Microstructure - Metallurgy for High-Speed Extrusion - Metallurgy for Paint Adhesion
- **ALLOYS:** Hard/New Light Alloys - Magnesium Alloys - Lithium Alloys - Composite Alloys
- **DIES:** Die design and manufacturing - Die correction - Die cleaning and polishing - High Production Rates - Oriented Design - Die Life - Coatings - Correction Strategies - Die Cooling systems
- **NEW PROCESSES:** Conform - Thixoextrusion - Rollforming Extrusion - Hot Profile Bending - Chip Extrusion - Composite Extrusion

ANODIZING: Racking & Jigging - Pretreatment - Mechanical & Chemical Etching - High-Speed Anodizing - Anodizing and colouring of special alloys from casting and die casting - Hard Anodizing - Rectifiers - New Dipping & Electrocolouring Colours - Patterned Effects - Advances in Sealing - Nickel free cold sealing - Vertical Plants

COATING: Powder & Wet Processes - Pretreatments - Chrome-free products - High-Performance Polyesters - Powder Coil Coating - Small Lots Handling - Vertical & Horizontal Plants - Compact Plants - Filiform and Point Defects - Adhesion Problems - New Powder Application Methods - Wood effects - Paints - Coating materials - Raw materials for paints - Paint production systems for powder coating

NANO TECHNOLOGY

AUTOMATION: The "Intelligent Plant" - Automatic Extrusion - Anodizing with Automatic Racking - Fully Automatic Coating Plants - Automation in Profile Packing - Automatic Warehouse - Internet for aluminium technologies

MEASURING, TESTING & QUALITY TECHNIQUES: Certification - Computerized Technologies - Measurement and control techniques - Measurement Instruments - Quality Management & Control - Testing - Materials analysis

ADVANCED APPLICATIONS & RESEARCH: Materials handling - Automation systems - New patents - New applications - Aluminium and Sportive equipment

ENVIRONMENTAL PROTECTION & RECYCLING: Accident Prevention - Anti-pollution machinery - Innovative plants - Environmental Technology - Recovery and Materials recycling - Safety Equipment - Technology and processes - Effluent and Fumes Treatment - Water saving - Zero discharge - Ecological systems and equipment - Sludge reduction - Sulphate reduction in the effluents

CASTING & DIE CASTING: Casting processes - Solidification - Simulation - Rapid casting - Innovative processes - New materials and alloys - Defects - Microstructure and Properties - Heat treatments - Mould design

- **PROCESS MANAGEMENT:** The Challenge For Competitiveness: Innovative Technologies Introduction on the Shop Floor - Management Strategies - Process Development - Quality Assessment
- **PROCESS QUALITY:** Charge Materials - Pre-Furnace Treatment - Melting - Fluxing - Grain Refinement - Filling and Feeding Systems - Grain Refinement - Cast Microstructures and Defects
- **PROCESS MONITORING:** From Raw Material to the Final Casting: Sensors - Analysis Devices - Data Management - The role of ERPs within the Process Monitoring
- **PROCESS INNOVATION:** Novel Technologies or Technology Enhancement: Innovation in Casting Practice
- **PROCESS SIMULATION:** Prediction Models - Validation - Optimization - Codesign/Cross Linking Between Process - Structural Simulation
- **NEW ALLOYS:** The Role of New Alloying Elements on Product Performances and their Compatibility with Casting Process

ORGANIZED BY:



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