

ALUMINIUM TWO THOUSAND



United Aluminium World at

ALUMINIUM TWO THOUSAND

11th World Congress

In collaboration with

*Department of Industrial Engineering, Sector of Technologies and Processing Systems
University of Bologna*

BHR Hotel, Treviso

Treviso/Venice

9 - 13 April 2019

Meet the Specialists for successful business

CALL FOR PAPERS

As a potential **speaker**, you are invited to submit a **title** (with list of the authors) for a proposed presentation **before 28 February 2018**.

An **abstract** (maximum **1 page**, following the template available on websites) should be submitted to aluminium2000@interall.it **before 30 April 2018**.

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

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- **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 – Automatic Racking
- 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 TECHNOLOGIES** applied to aluminium
- 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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