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About this Symposium

Meeting [2011 TMS Annual Meeting & Exhibition](#)

Symposium **Aluminum Alloys: Fabrication, Characterization and Applications**

Sponsorship The Minerals, Metals and Materials Society
TMS Light Metals Division
TMS: Aluminum Processing Committee

Organizer(s) [Subodh K. Das](#), Phinix LLC
[Zhengdong Long](#), Kaiser Aluminum
[Tongguang Zhai](#), University of Kentucky

Scope This symposium will cover all aspects of the physical and mechanical metallurgy of aluminum alloys. It will address fundamental and applied research as well as product development, testing and implementation of aluminum foil, sheet, plate, extrusions, forgings, and composites for end applications including transportation (automotive, aerospace and marine), packaging and other key product segments. The symposium will consist of invited as well as contributed papers.

Topics will include (but not limited) the following and related areas:

- Products Fabrication and Applications
- Alloy Development
- Process Innovation
- Microstructure Evolution
- Mechanical Behavior
- Failure Analysis
- Modeling and Simulation

Abstracts Due 08/02/2010

Proceedings Plan Planned: A print-only volume

PRESENTATIONS APPROVED FOR THIS SYMPOSIUM INCLUDE

[A Positron Annihilation Study of Hot Band of a Continuous Cast AA 2037 Al Alloy after Annealing](#)
[A Study on Solute Redistribution during Solution Treatment and Aging Behavior in a Bi-Layer AA6xxx-AA3xxx Alloy System](#)
[Aluminium-Titanium Alloys for Thermal Spraying](#)
[Analysis of Charge Weld Evolution for a Multi-Hole Extrusion Die](#)
[Application of Neutron Diffraction in Analysis of Residual Stress Profile in the Cylinder Web Region of As-Cast V6 Aluminum Engine Block with Cast-In Iron Liners](#)
[Comparison of Different FEM Codes Approach for Extrusion Process Analysis](#)
[Comprehensive Thermo-Mechanical Validation of Extrusion Simulation Cycle for Al 1100 Using HyperXtrude](#)
[Continuous Cast Superplastic Grade Aluminum Sheet](#)
[Design and Optimization of Innovative High Performance Aluminum Sandwich Structures](#)
[Development of Microstructures and Mechanical Properties Aluminum Alloy after Equal Channel Angular Pressing](#)
[Development of Novel Grain Refiner for Al-Si Alloys](#)
[Effect of Conical and Cylindrical Tool with Grooves Pin Profiles on Tensile Strength in Friction Stir Welding Process](#)
[Effect of Die Entry Angle on Extrusion Responses of Aluminum 6063 Alloy](#)
[Effect of Extrusion Microstructure on the Corrosion Behavior of AA6005A Aluminum Alloy](#)
[Effect of Ultrasonic Impact Treatment on a 5456 Aluminum Alloy Characterized through Micro-Specimen Testing and X-Ray Tomography](#)
[Effects of Al-8B Grain Refiner on the Structure, Hardness and Tensile Properties of a New Developed Super High-Strength Aluminum Alloy](#)
[Effects of Process Parameters on Rolled Precursor of Aluminum Foam Sandwich Panel](#)
[Effects of Spark Plasma Sintering \(SPS\) on Cryomilled Nanostructured Al 5083 Alloy](#)
[Estimating Response to Hot Rolling of Al-Mn-Mg Alloys from Hot Torsion Testing](#)
[Failure Loads and Deformation in 6061-T6 Aluminum Alloy Spot Welds](#)
[Formation of Intermetallic Compound Layer between A356 Al Alloy and Cast Iron in Isothermal Condition.](#)
[Forming Limit Diagrams for AA5182 after Preform Annealing](#)

[High Temperature Dry Sliding Wear Behaviour of Aluminium-Silicon/Graphite Composite Processed by Stir Casting](#)
[Hot Deformation Behaviour of 7075 Al Alloy](#)
[Hot Tensile Behaviour and Constitutive Analysis of Al-5.5Zn-1.2Mg/Zr Alloys](#)
[Interactive Processes during Non-Isothermal Annealing of an AA6xxx Alloy](#)
[Investigation of High Strain Rate Flow of Aluminum Alloys](#)
[Magnesium Diffusivity Measurement in AA5083 Alloys](#)
[Measurement of Resistivity/Conductivity of Aluminium Oxide-Film by Electrochemical Impedance Spectroscopy \(EIS\)](#)
[Mechanical Properties and Casting Characteristics of the Secondary Aluminum Alloy AlSi9Cu3\(Fe\) \(A226\)](#)
[Mechanical Properties of Bulk Nanostructured 7075 Al Alloy Prepared by Severe Plastic Deformation](#)
[Micromechanical Simulations for Fatigue Damage Incubation at Debonded Particles Using Cohesive Zone Model](#)
[Microstructural and Electrochemical Characterization of Anodic Oxide Films Formed on Spray-Deposited Al-Si Alloys](#)
[Microstructural Characterization and Heat Treatments of Different Al-Zn-Mg/Zr Alloys](#)
[Microstructure Evolution Of Cryomilled Nanostructured Light Weight Al 5083 During SPS](#)
[Microstructure Evolution of the Modified AA 5083 Alloy: From the As-Cast State to the Final Product](#)
[Modeling Performance of Protection Materials Aluminum 7020-T651 and Steel](#)
[Modeling the Strain Path Change Effect in 5754-O Aluminum Alloy Sheet](#)
[Numerical Prediction of Grain Shape Evolution during Extrusion of AA6082 Alloy](#)
[Preparation and Characterization of Short Carbon Fiber Reinforced Aluminium Matrix Composites](#)
[Preparation of Al - Li Alloys for Lithium-Air Secondary Battery by Solid Diffusion Method](#)
[Preparation of Aluminum Foam Using a Novel Gas-Generating Agent](#)
[Production of Continuous Cast 3105 Coil-Stock for Thin Gauge Roller Shutters](#)
[Scandium/Zirconium Modified Aluminum Alloys for Improved Mechanical Properties](#)
[Simulation of the Deformation of a Flexible Combo Bag in a DC Aluminium Casting](#)
[Solidification Analysis of Al-Si Alloys Modified with Addition of Cu Using In-Situ Neutron Diffraction](#)
[Solidification Characteristics of Aluminium Alloys under Electron Beam Fabrication Conditions](#)
[Study of Aluminum Sensitization at Moderately Elevated Temperatures](#)
[Study of the Artificial Aging Kinetics of Different AA6013-T4 Heat Treatment Conditions](#)
[Surface Energy, Electronic Structure, and Complexity of Al-Based Intermetallics](#)
[Surface Modification of Aluminum Alloys by Electrolytic Plasma Processing](#)
[Textures and Particle Structures of a Continuous Cast AA3004 Aluminum Alloy after Cold Rolling and Annealing](#)
[Transmission Electron Microscopic Investigations of Grain Boundary Beta Phase Precipitation in Al-5083](#)

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