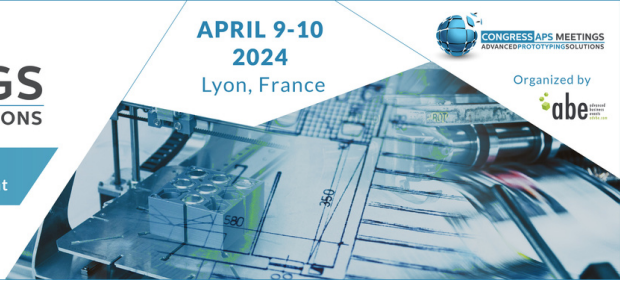

APS CONGRESS PROGRAM

TUESDAY 9 & WEDNESDAY 10, APRIL 2024

TUESDAY 9 APRIL 2024

9:15 - 9:30 : Congress Introduction

Philippe BAUER, MODERATOR

9:30 - 10:00 : Developing uses together

Christophe ESCHENBRENNER, FRANCE ADDITIVE

FRANCE ADDITIVE
FILIÈRE IMPRESSION 3D

Let's work together to develop the uses that will enable us to increase our volume in the service of a sustainable industry" - launch of a co-constructed communication plan to boost our Sector.

10:00 - 10:30 : How Protolabs supports its customers in the energy transition

Charles CHENES, PROTOLABS

The role of each technology in the product development phases.
Optimizing battery design to improve performance and reduce costs.
Rapid production of functional prototypes to test and validate battery concepts.
What is the transition to series production?

10:30 - 11:00 : How to successfully industrialize in 3D printing

Patrick FERRARIS, 3DZ

11:30 - 12:00 : Making AM Meaningful: 30 years of successful experience

Fried VANCRAEN, MATERIALISE

At MATERIALISE, we have the strong belief that Additive Manufacturing can deliver a big impact to make the world a better and healthier place for all people. From the start in 1990 we have worked on this mission and we keep doing so. Economic value is generated with the novel products, therapies and business approaches that can be enabled by additive manufacturing when properly applied to meaningful applications. During this presentation we discuss several applications and the underlying drivers that make the choice for AM, the best choice. We will discover how the choice is also very ecosystem dependent and which obstacles to tackle.

12:00 - 12:30: Meltio M600 : a new DED equipment to support the supply chain

Yannick LOISANCE, MULTISTATION

MELTIO is a manufacturer of metal additive manufacturing machines using the wire laser process. Their machines come either as mobile heads that can be integrated into a robot or machining center, or as 3-axis machines. Meltio has just announced its new M 600 machine, which complements the M 450. The M 600 is revolutionizing the supply chain for companies using machining centers, as it can produce preformed drafts in different materials in very short lead-times and can thus sometimes replace the foundry.

2:00 - 2:30 pm: A unique approach to post-processing of metal AM parts

Francesco MAJA, GF MACHINING

Post-processing is a critical step of the metal AM workflow, heavily influencing the final cost of the part. GF Machining Solutions has developed and presents a unique approach to the post-processing (machining) of metal AM parts.

2:30 - 3:00 pm: Analysis of material data at Nikon SLM

Clément BRUNERIE, NIKON

Using the Selective Laser Melting (SLM) Technology, the Material Parameters are crucial for successful parts production of quality components, built with productivity. Stress test the machines and get statistical valid data about material performances become then pivotal to assure the reliability, the repeatability and more generally the industrial performance of the SLM process.

3:00 - 3:30 pm: Post-processing in AM

Julien BOUSSEL, ROSLER / AM SOLUTIONS

Problems associated with the various post-processing operations on AM parts and technical solutions.

3:30 - 4:00 pm: Health, safety, and environment in post print steps of polymer parts

Alain MARION, POST-PROCESS INTERNATIONAL

Employees security, legal risks or environmental consequences of some post-print steps in additive manufacturing are frequently neglected. Let's see what the risks and the solutions are.

4:30 - 5:00 pm: Applications automotive et innovative design en fabrication additive grand format granules thermoplastiques

Julius HERVE, MULTISTATION

The Italian company CARACOL offers complete robotized solutions for large-format additive manufacturing based on extruded thermoplastic granules. These systems enable the manufacture of large parts, such as those used in composite tooling for the automotive or aeronautics industries, or non-structural elements for the naval or design industries. In Milan, CARACOL has a dozen fully equipped cells for benchmark and pre-series production.

5:00 - 5:30 pm : AM heat exchanger with compact and complex shape for Green Aircraft

Alexandre BOULZAGUET, PRINTSKY

Printsky (Joint venture between SOGECLAIR and AddUp) in partnership with CEA and Onera have developed, manufactured and tested a heat exchanger for Green Aircraft challenges using additive manufacturing advantage with function integration and complex shape creation.

WEDNESDAY APRIL 10 2024

9:00 - 9:30 : Additive manufacturing applied to energy efficiency: the use case of H2020 DESOLINATION Project

Jean-Michel HUGO, TEMISTH

DESOLINATION is a collaborative project which aims to decarbonise the desalination process in arid regions by demonstrating in a real environment the efficient coupling of a concentrating solar power plant to a direct osmosis desalination system.

9:30 - 10:00 - Industrialising and producing your 3D printing tools

Olivier LUCAS, CYLAOS

3D printing is an excellent way to produce all types of tools, with very rapid returns on investment and impressive time savings and flexibility. We will present documented and quantified industrial application cases to you to prove the benefits of these solutions.

10:00 - 10:30 - Tritone AM's MoldJet Technology

Cyril LIOTARD, ERM

Tritone MoldJet is a powder-free additive manufacturing technology that enables the production of complex, high-density metal and ceramic parts with industrial productivity in a wide variety of materials.

10:30 - 11:00 : RAVolutionizing™ Optics Prototypes and Low Volume production: A Breakthrough Transparent Resin for Advanced Vacuum Casting

Leon PIETERSE, **ARRK**

ARRK, Acomon and Mitsui Chemicals unveil a transparent resin with unrivalled optical properties, including exceptional UV resistance. Available exclusively from ARRK, this polyurethane resin is tailor-made for vacuum casting. Shaped in silicone moulds from 3D-printed or CNC-machined master models, RAVolution™ LH sets a new standard for optical clarity.

11:30 - 12:00: How to manufacture metallic parts up to 5 meters, right the first time?

Clément KNITTEL, **AMFREE**

A data centric approach allows to unrisk the manufacturing of industrial XXL high value-added parts. Beforehand by simulation and control in process thanks to AI. Result: optimized lead times and a DED process exploited at its full potential.

12:00 - 12:30 pm: The unexpected results of adopting large-format 3D printers

Tony ARNAUD, **BIGREP**

Often acquired for a single purpose, 3D printers frequently show their true value in unexpected, diverse applications beyond their initial intent.