

*Interall Srl & AAC*  
*Are glad to announce the*  
**ADVANCED ANODIZING CLASS (Level 3)**

**Friday 23 June 2017**  
**HOTEL FIERA,**  
**VERONA**  
**STARTING AT 8.00**

The popular Anodizing Workshop  
returns to Italy for  
Aluminium Two Thousand, 10<sup>th</sup> World  
Congress in Verona  
ICEB, 6<sup>th</sup> International ICEB Conference

***Learn essential techniques for producing  
a quality anodized product***

 **INTERALL**  
International Aluminium Publications

 **ALUMINUM  
ANODIZERS  
COUNCIL™**

INTERALL SRL:

Via G. Marinuzzi 38, 41122 Modena, Italy, tel +39 059282390  
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**PROGRAM**

- 8:00 a.m. – 8:02 a.m. Welcome/Opening Remarks
- 8:02 a.m. – 9:00 a.m. Judy Runge, CompCote International, Inc., USA  
**Base Metal Microstructural Considerations for Anodizing Aluminum**
- 9:00 a.m. – 10:00 a.m. Judy Runge, CompCote International, Inc.  
**Anodizing for Design and Function**
- 10:00 a.m. – 10:15 a.m. **Break**
- 10:15 a.m. – 11:15 a.m. Fabio Vincenzi, Italteco Srl, Mario Leoni, Elca Srl, Italy  
**Pulse Anodizing, State-of-the-art and latest innovative technological applications**
- 11:15 a.m. – 12:15 p.m. Marcello Rossi, Italteco Srl, Carlo Calcatè and Riccardo Boi, Qualital, Italy  
**Anodizing Difficult Alloys**
- 12:15 a.m. – 13 p.m. Moderated Q & A/Discussion



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**THE ABSTRACTS**

**Base Metal Microstructural Considerations for Anodizing Aluminum**

**Judy Runge, CompCote International, Inc., USA**

Microstructural development from the four basic principles of Chemistry, Composition, Deformation and Thermal Processing is presented to elucidate the intimate relationship between base metal microstructure and anodic oxide finish appearance and quality. By understanding the impact of these critical factors, the design aspects of alloy selection, manufacturing process and surface finishing can be optimized to yield the desired component appearance and performance.

**Anodizing for Design and Function**

**Judy Runge, CompCote International, Inc., USA**

Anodizing Aluminum will be presented as an engineering process, modelled by the Tafel Equation. The unique structural characteristics of the anodic oxide: columnar spacing, wall thickness and pore diameter will be presented in terms of this model such that anodic oxide nucleation and growth is clearly understood, as well as how the anodizing process governs structural characteristics. This class will enable the anodizer to build anodizing strategies to best fulfill component design requirements and functional demands by way of tuning the oxide structure and therefore its properties by way of process control.



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**Pulse Anodizing**

**Fabio Vincenzi, Italtecno Srl, Mario Leoni, Elca Srl**

A historic review of pulse anodizing techniques and methodology will be presented. Discussions and data logger graphs will cover practical and economic improvements: 1) Reduced anodize time 2) Running difficult alloys 3) Increased wear resistance/hardness 4) Corrosion resistance 5) Adhesive bonding properties during the Pulse – Step – Ramp (PSR) cycle. A video and/or simplified live demonstration will include a Pulsed Power Supply and non hazardous Organic/Citric Electrolyte along with a Real Time Graphic Data Logger.

**Anodizing Difficult Alloys**

**Marcello Rossi, Italtecno Srl, Carlo Calcaterra & Riccardo Boi, Qualital**

A holistic approach to anodizing and hard anodizing the more difficult alloys encountered in a job shop setting. Proper chemistry, racking, pre-treatment, anodizing, rinsing and sealing shall be discussed for 2024, 7075 and 380 Series aluminum. Process parameters for each alloy shall be reviewed along with best practices to follow and common mistakes to avoid.

**REGISTRATION FEES**

Before 30 April 2017: € 350.00

Before 31 May 2017: € 380.00

June 2017: € 410.00

**To register please contact Interall  
at [info@interall.it](mailto:info@interall.it)**



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