

WEBINAR

“Corrosion performance of additively manufactured metals”

An EFC event (n° 512)

On May 21st, 2024

Two-session format: 9:00 – 11:00 and 14:45 – 17:00 / GMT+1 (Brussels time)

Programme

9:00-9:10 Welcome / EFC activities / Presentation & objectives of the webinar

Pascal Collet – EFC – Presenter

9:10 Morning session - Moderator Iris de Graeve – VUB

9:10-9:35 Corrosion behavior and oxide film characteristics of laser powder bed fusion copper alloys
Prof. Bowei Zhang - University of Science & Technology Beijing, China

9:35-10:00 Effect of alloy composition and surface treatment on the corrosion and fatigue-corrosion resistance of additively manufactured aluminum alloys

Mrs Clara Linder – RISE, Sweden

10:10-10:35 Additive manufactured nickel alloys and corrosion qualification. Technologies and materials-related challenges

Prof. Sergio Lorenzi - University of Bergamo, Italy

10:35-11:00 Stress corrosion cracking testing of materials (Al & Ti alloys) issued of additive manufacturing (LPBF & WAAM)

Dr. Nicolas Nutal & Mr. Frédéric Novello - CRM group, Belgium

14:45 Afternoon session: Moderator Reynier Revilla Castillo – VUB

14:45-15:10 Aluminium laser powder bed AM solution giving exceptional corrosion performance.

Dr. Ravi Shahani – Constellium, France

15:10-15:35 Corrosion Properties of Additive Manufactured Metallic Materials

Prof. Matjaz Godec – IMT, Slovenia

15:45-16:10 Corrosion behaviour of stainless steels fabricated by various additive manufacturing processes

Mr. Adrien Barroux – CETIM, France

16:10-16:35 Corrosion behaviour of additively manufactured stainless steels in nuclear environments.

Dr. Fanny Balbaud – CEA, France

16:35-16:55 Additional time for Q&A & exchanges

16:55-17:00 Conclusions by Iris de Graeve and Pascal Collet

QR codes for registration to every session (NB: independent registration)

