

EFC WP21 WEBINAR

GREEN BOOK PRESENTATION

Conservators and conservation scientists often train as generalists due to the wide range of heritage objects, especially metals. Yet, preserving and restoring metals requires a fine knowledge of their decay processes in complex environments. This demands for strong collaboration between conservators and specialists like corrosion scientists. *How can these connections be fostered, and why is there currently a gap between the professions?*

Join us to explore the interdisciplinary connections essential for advancing the preservation of metallic heritage artefacts!

This webinar will present the volume **“Bridging the gap: corrosion science for heritage contexts”** regarding the constraints of managing the preservation of heritage metal collections through ethics and case studies chapters.

SPEAKERS

DR. MAGALI BRUNET

Research scientist in materials science

Center for Elaboration of Materials and Structural Studies (CEMES), France

DR. JANNEN CONTRERAS VARGAS

Lecturer and Metals Conservation Specialist

Escuela Nacional de Conservacion, Restauracion y Museografía (ENCRyM), Instituto Nacional de Antropología e Historia (INAH), Mexico

WOODHEAD PUBLISHING IN MATERIALS



European Federation of
Corrosion Publications
Number 73

BRIDGING THE GAP
CORROSION SCIENCE FOR HERITAGE CONTEXTS

10 December 2025
At 2 pm (UTC +01:00)



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SPEAKERS BIO

DR. MAGALI BRUNET

Research scientist in materials science

Center for Elaboration of Materials and Structural Studies (CEMES), France

Magali Brunet, is a research scientist in materials science at CEMES (Center for Elaboration of Materials and Structural Studies) in Toulouse, a unit of CNRS, the French National Centre for Scientific Research. Member of CNRS since 2005, she reoriented her research after a break allowing her to obtain a Master in Conservation and Restoration of Cultural Heritage in 2015. In 2015, she joined the Cultural Heritage Materials group at CEMES where she is since studying materials from aeronautical heritage, principally aluminium alloys and their protection (primers and paints). She is specialized on several physicochemical techniques such as electron-based microscopies (SEM/TEM) and related spectroscopies as well as X-ray techniques (XRD, XANES). Her approach is highly interdisciplinary, coupling materials analysis, properties measurements, archival studies and based on collaborations with metallurgists, chemists and historians. Her interests lie in the manufacturing history behind these materials and the understanding their long-term ageing. She participated in the European project PROCRAFT (JPI-CH 2020-2023), related to the Protection and Conservation of Heritage Aircraft and coordinated several local interdisciplinary projects around this specific heritage with a wide range of partners from various backgrounds (academics, associations, territorial institutions, museum).

DR. JANNEN CONTRERAS VARGAS

Lecturer and Metals Conservation Specialist

*Escuela Nacional de Conservacion, Restauracion y Museografía (ENCRyM),
Instituto Nacional de Antropología e Historia (INAH), Mexico*

Completed her professional training in conservation at the National School of Conservation, Restoration and Museography (ENCRyM) in Mexico. She later earned an MSc in Forensic Conservation from the University of Lincoln (UK) and a PhD in Ancient World Studies from the Universidad Autónoma de Madrid (Spain). She has taught at ENCRyM since 2001, lecturing on metal conservation, conservation methodology, and applied chemistry, while combining academic work with professional practice with a focus on methodological and technical innovation. Her experience includes the conservation of sculptures as that of Manuel Tolsá's equestrian sculpture El Caballito in Mexico City and La Minerva in Guadalajara, also advancing research on the conservation of historic bells. Until recently, she contributed to institutional strengthening and professional recognition through her work at the Conservators Union of the National Institute of Anthropology and History (INAH). She has now returned to her research on metals, with particular interest in the history of materials and techniques, decision-making frameworks, and sustainable treatment methodologies.