ASM INTERNATIONAL
ARCHAEOMETALLURGY TECHNICAL COMMITTEE

NEWSLETTER

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Minting Process -The House of Vetti, Pompeii (ADAP. Roger Ling, Cambridge University Press, 1991)

Research in Progress Meeting

Abstract submission and registration for the Research in Progress Meeting of the Historical Metallurgy Society is now open.

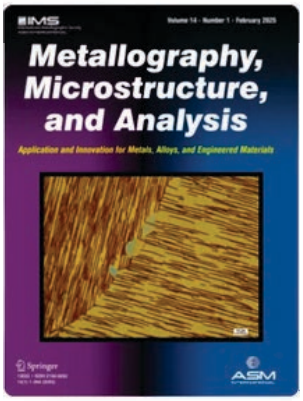
📅 **Date:** 28 NOV 2025

Please find all information here.

Webinar: Corrosion Morphology in Archaeological Copper Alloys: A Microanalytical Approach

Dr. Omid Oudbashi — Senior Lecturer at the University of Gothenburg, renowned for his work in archaeological science and the conservation of archaeological and historical artifacts — shared fascinating insights during his recent webinar!

Watch the recording here.



Second Special Issue: Archaeometallurgy

The second special issue of the journal Metallography, Microstructure, and Analysis (MMA) on Archaeometallurgy marks an exciting milestone — a collection of seventeen diverse and inclusive papers that reflect the richness of our field. This publication coincides with the fourth anniversary of the ASM International Archaeometallurgy Technical Committee, making the moment even more meaningful.

We extend heartfelt thanks to all the authors who entrusted us with their research and to the reviewers whose thoughtful insights ensured scientific excellence. Our gratitude also goes to Mr. Scott Henry (ASM liaison), Dr. Ryan Deacon (MMA Editor-in-Chief), Mr. Marc Cibella (Content and Business Developer, ASM), and Ms. Jenna Katz (Production Coordinator, MMA) for their unwavering support and collaboration in making this special issue possible.

Turn to page 4 to explore the full table of contents of the Second Special Issue.

Imperial Seal on a Brazilian Coin - 1787

Liciane Plouvier

IMAT 2026: Save the date!

September 28 - October 1, 2026

Quebec City, Canada

IMAT ELEVATING PERFORMANCE TOGETHER

https://www.asminternational.org/communities/archaeometallurgy-committee/

matinfo@asminternational.org

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PROFESSIONAL SPOTLIGHT

FROM DISCOVERY TO EXPERTISE: TWO DECADES IN ARCHAEOMETALLURGY

by Patricia Carrizo

In April 2005, I attended a celebration for Aboriginal Day at the Americanist Museum in my city, Luján de Cuyo, Mendoza Province, Argentina. The all-day event, with music around bonfires, introduced me to members of an amateur archaeology group. Their invitation marked the beginning of a journey I could never have predicted. During one meeting, I first encountered the term *archaeometallurgy* in a museum book, setting in motion an entirely new chapter of my life.

Motivation

Motivated by my discovery at the museum, I applied to the Metallurgy Laboratory at my university. The director welcomed my interest, but I needed to learn failure cause analysis and physical metallurgy, both in theory and practice. My background as a chemical engineer did not include in-depth metallography, so this required additional study.

Thanks to my involvement with the museum group, I received an opportunity in 2007 to go to Rome for six months, where I worked as a

Initially unsure and hesitant to leave the lab I had worked so hard to join, I kept sending emails to connect with someone in my field. Eventually, Engineer Mauro Cavallini from Sapienza University agreed to meet me. For several months, we met weekly to discuss topics and study in the library. After returning to Argentina, I resumed my training and started analyzing pieces from the original museum collection.

Although my path was far from easy—often having to insist and persist despite my superiors saying, "*This isn't engineering; go work with the archaeologists*"—life took unexpected turns. One day, I was called upon by my city government, through the civil works office, to serve as an external advisor and inspector for the project "*Value Enhancement and Restoration of the Old Iron Bridge over the Mendoza River*." And boy, did my superiors begin to change their minds and become convinced that this line of research is also engineering!

Everything wove together like pearls on a necklace…

I prospered on my archaeometallurgical path, and in August 2018, I received a proposal from Springer Publishing to write a book on the subject. It was called Reverse Engineering of Ancient Metals and was published in January 2022.

The year 2018 also marked my becoming a member of ASM International—another great dream fulfilled, as in the Metallurgy Laboratory we studied microstructures using the ASM Handbooks (those beautiful, thick green books!).

As a member of ASM International during the 2020 pandemic, I observed that archaeometallurgy was underrepresented. I proposed creating an interest group in this vital field. To my surprise, several ASM members showed interest in participating. In 2021, ASM approved forming the Archaeometallurgy Committee, and I was appointed chair for the 2021–2023 term. During these years, I have valued the respect, collaboration, and recognition from my peers and ASM International's leadership.

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I firmly believe that everything I have experienced has been worth the effort and persistence I bring to each of my projects. They have yielded positive results, and I have made friends and valuable colleagues along the way. I now hold a PhD in Engineering, and I never imagined that someone from Canada would call me for an interview about archaeometallurgy. Life is full of surprises! Every day, I thank God for His blessings.

Continuing the Journey

I continue my research in archaeometallurgy at the Institute of Materials and Applied Technology (IMTECAP) of the National Technological University, Mendoza Regional Faculty, Mendoza, Argentina. Since 2023, I have also been working as a contracted consultant for the Mendoza Metrotram, also known as the Green Line, which is part of the Mendoza Transport Society (STM).

Patricia Carrizo

The Secrets of Time That Metals Reveal

Materials.Business Podcast

Credits: Infinity Growth Corporation

Listen to the interview between Monica Hernandez and Patricia Carrizo, published on May 19, 2025. They discuss the study of ancient metals, notable discoveries, Patricia's book on reverse engineering ancient alloys, and the importance of inspiring future generations of female engineers.

Listen to the interview: CLICK HERE

Materials.Business Podcast

Coming Soon

Archaeometallurgical and Heritage Study and Preservation of the Old Iron Bridge over the Mendoza River

Discover how Patricia Silvana Carrizo combines history and materials science to preserve the 1898 Iron Bridge of Luján de Cuyo, Mendoza, Argentina. This study reveals the bridge's forged iron structure, metallurgical composition, and conservation strategies ensuring its continued legacy as both a functional and historical landmark.

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