



Materials & Corrosion Engineering Management (MACEM)

HEAD OFFICE ADDRESS:

Zibeline International Publishing Sdn Bhd

C2-2-3, Block 2, CBD Perdana 3,
Persiaran Cyberpoint Timur,
Cyber 12, 63000 Cyberjaya,
Selangor.

Tel: +603-86879842

EDITORIAL STAFF:

Publishing Manager

Tasbia Ab Rajul

Publishing Editor

Nurul Afiqah Ab Manan

Publishing Editor

Rozailaidah Karim

Technical Editor

Muhammad Aqil Zikry Nizam

Technical Editor

Nuraliah Natasha Amirulhisam

Frequency:

Bi-annual (2 issue per year)

ISSN: 2716-7100 (Online)

Price:

Single issue: 50 MYR Price for abroad

Single issue: 25 USD

Web:

www.macej.com.my

E-mail:

info@zibelinepub.com

Materials & Corrosion Engineering Management (MACEM)

Contents

VOLUME 4, ISSUE 2, 2023		
No	Editorial	Pages
1	RECORD KEEPING IN FOOTWEAR PRODUCTION, CHALLENGES AND PROSPECTS: A CASE STUDY OF JAMES Y. SHOEMAKING, NGAZA'S SHOEMAKING, IT WASN'T ME SHOEMAKING COMPANY	01-04
2	ECONOMIC RESILIENCE AND THE METAL INDUSTRY: A QUALITATIVE EXAMINATION OF DHAKA'S METAL BUSINESSES IN RESPONSE TO FLUCTUATING ECONOMIC CONDITIONS	05-11
3	CROSS-INDUSTRY INSIGHTS: A COMPREHENSIVE REVIEW OF EFFECTIVE STAKEHOLDER MANAGEMENT BENEFITS	12-19
4	INHIBITION PROFICIENCY OF Al^{3+} ON MILD STEEL CORROSION IN DIFFERENT pH AQUEOUS MEDIUM	20-28

Materials & Corrosion Engineering Management (MACEM)

Editorial

Corrosion is the deterioration of metals in contact with the specific environment, leading to relevant effects on asset safety and maintenance. Corrosion of metals and their alloys strongly affects many sectors of a nation's economy. The first estimation of the economic impact of materials corrosion and protection was carried out in the 1970s by the British Government, with the conclusion that the amount of expenses for the restoration of the damaged structures was around 3% of the Gross Domestic Product (GDP). Thus, the economic impact of materials corrosion has constantly increased as the GDP has grown during the years. Physicochemical interaction between a metal or alloy and its environment results in changes in the properties of the metal or alloy, which may often lead to impairment of the function of the metal or alloy, the environment, or the technical system of which these form a part. Corrosion is one of the main sources of metallic material loss. It contributes to environmental pollution and poses a threat to human health. Material and corrosion control technologies are essential for safe, stable operation. Therefore, it is not only important to keep the risk due to corrosion at a low level but also to demonstrate that the risk is kept at the low level. For these purposes, appropriate corrosion-management best practices must be implemented. Materials & Corrosion Engineering Management (MACEM) focus on implementation of corrosion-management best practices.

Scientific Board

Editorial Team

Executive Editor in Chief

Dr Sayed Hamed Elnakhily
Research and Development Manager
Sharq Media Nasr City, Cairo Egypt

Editor in Chief

Assoc. Prof. Ir. Dr. Nuriani Abdul Aziz
Department of Mechanical and Manufacturing
Engineering
Faculty of Engineering Universiti Putra Malaysia
43400 Serdang, Selangor, malaysia

Prof. James Ejenike Ogagorojo Ovri
Department of Materials and Metallurgical
Engineering,
The Federal University of Technology
Owerri, Nigeria

Editorial Board

Engr. Prof. Mike a. Acheampong
Pro Vice-Chancellor
Kumasi Technical University,
Kumasi-Ghana

Dr. Mahros Darsin
Department of Mechanical Engineering,
University of Jember, Jember 68121, Indonesia

Dr Md. Mizanur Rahman
Department of Mechanical Engineering,
Faculty of Engineering, Universiti Malaysia Sabah,
Sabah, Malaysia

Dr Devarajan A/L Ramasamy
Faculty of Mechanical Engineering
Universiti Malaysia Pahang