

Publication Board Members



JESUS ANTONIO G. DERIJE, DVM, PhD
SUC President IV
Chairperson

ALAN P. DARGANTES, PhD
Vice Chairperson

EINSTINE M. OPISO, PhD
Editor-in-Chief

JUPITER V. CASAS, PhD
Managing Editor

ALMA B. MOHAGAN, PhD
Associate Editor

MAYFLOR D. PRANTILLA-ARAMBALA, MELL
Language Editor

Editorial Board Members



RICHARD D. ALORRO, PhD
Engineering Sciences
Curtin University, Australia

WINSON M. GUTIERREZ, PhD
Animal Science, Agriculture
Central Mindanao University

VICTOR B. AMOROSO, PhD
Biological Sciences
Central Mindanao University

JOY M. JAMAGO, PhD
Crop Science & Genetics
Central Mindanao University

LOWELL G. ARIBAL, PhD
Forest Biological Sciences
Central Mindanao University

EVA N. MENDOZA, PhD
Social & Behavioral Sciences
Central Mindanao University

CONSTANCION A. ASIS JR., PhD
Soil Science & Plant Nutrition
Department of Primary Industry & Resources
Northern Territory, Australia

MELROSE P. CONDINO, PhD
Veterinary Sciences
Central Mindanao University

ANGELA GRACE I. TOLEDO-BRUNO, PhD, EnP
Environmental Sciences
Central Mindanao University

CARLITO B. TABELIN, PhD
Minerals & Energy Resources Engineering
University of New South Wales, Australia

ALNAR L. DETALLA, D.Sc.
Mathematical Sciences
Central Mindanao University

DENNIS RELOJO-HOWELL, MSc, MBPSS
Psychological Sciences
Psychreg, United Kingdom

RAQUEL A. ESPIRITU, PhD
Comparative Literature
Central Philippine University

JEWEL ANGELOQUE D. PANADERO
Publication Staff

ENRICO L. NACUA
Layout Designer



Philippines Copyright © 2019 by Central Mindanao University, Musuan, Bukidnon, Philippines

All rights reserved. No part of this publication may be reproduced, stored in a retrieval or transmitted in a way or any means, mechanical, photocopying, recording or otherwise, without prior written permission of the copyright holder.

ISSN: 0116-7847 | ISSN Online: 2704-3703

Printed in the Philippines by: Central Mindanao University Press
Central Mindanao University
University Town, Maramag, Bukidnon
8710 Philippines