# Philippine Journal of Science

## Volume 145 No. 2

PJS is a semi-annual scientific publication under ISI coverage published by the Department of Science and Technology (DOST) and managed by Science and Technology Information Institute (STII)

## **Editorial Board**

#### **Editor-in-Chief**

Dr. Caesar A. Saloma Professor, National Institute of Physics, College of Science University of the Philippines Diliman, Quezon City, Philippines

## Dr. Dolores A. Ramirez

Professor Emeritus Institute of Plant Breeding, College of Agriculture University of the Philippines Los Baños, College Laguna, Philippines

## Dr. Fabian M. Dayrit

Dean, School of Science and Engineering Ateneo de Manila University Loyola Heights, Quezon City, Philippines

## Dr. Queena Lee-Chua

Professor
Department of Mathematics
Ateneo de Manila University
Loyola Heights, Quezon City, Philippines

## Dr. Florencia G. Claveria

Department of Biology De La Salle University-Manila 2401 Taft Avenue, Manila, Philippines

### Dr. Consolacion Y. Ragasa

Department of Chemistry
De La Salle University-Manila
2401 Taft Avenue, Manila, Philippines

## Dr. William G. Padolina

President National Academy of Science and Technology DOST Complex, Bicutan, Taguig City

## Dr. Rosalia CM. Simmen

Department of Physiology and Biophysics University of Arkansas for Medical Sciences and Arkansas Children's Nutrition Center Arkansas Children's Hospital Research Institute 1120 Marshall Street Little Rock, Arkansas 72202, USA

#### Dr. Ronaldo P. Ferraris

Department of Pharmacology and Physiology New Jersey Medical School 185 S. Orange Avenue Newark, NJ 07103-2714, USA

## Dr. Josefino C. Comiso

Laboratory for Hydrospheric Processes, Code 971 National Aeronautics and Space Administration Goddard Space Flight Center Greenbelt, MD 20771, USA