

PETROLEUM TECHNOLOGY DEVELOPMENT JOURNAL

An International Journal

January 2021 Volume 11 Number 1

SUBSCRIPTION

For details of subscription please contact the Administrative Secretary at the Journal address.

ADVERTISING

For details of advertisement, please contact the Administrative Secretary at the Journal address.

BOOK REVIEW

Books for review should be sent to:

Dr. Kevin Idehen
Petroleum Training Institute,
Effurun, Delta State, Nigeria
Email: deputyeditor@ptdjournal.com

THE JOURNAL ADDRESS

Petroleum Technology Development Journal
PTDF House, Plot 1058 Memorial Drive
Central Area Cadastral Zone AOO
Abuja, FCT
Nigeria.
Tel. 234 (0)9-870-0042
Editor: editor@ptdjournal.com
Website: www.ptdjournal.com

EDITOR'S ADDRESS

College of Law
Crescent University
Km 5 Ayetoro Road, Lafenwa
Abeokuta
Ogun State, Nigeria.
Tel. 234 (0) 8034035322

PUBLISHER

Petroleum Technology Development Fund
Abuja, Nigeria

First published in 2001 as Petroleum Training Journal. Journal name was changed to Petroleum Technology Development Journal in 2010

All rights reserved. This journal is copyrighted and so no part of it may be reproduced, stored in a retrieval system, or transmitted in any form or by any means whatsoever, or photocopied without the prior written permission of the copyright owner.

©2021 Petroleum Technology Development Fund
ISSN 1595-9104

EXECUTIVE SECRETARY PETROLEUM TECHNOLOGY DEVELOPMENT FUND:

Dr. Bello Aliyu Gusau

JOURNAL MANAGEMENT

Editor:

Momodu Kassim-Momodu, PhD, Chartered FCIPD, FCArb

Deputy Editor: Kevin Idehen, PhD

Administrative Secretary: Neeka Jacobs, PhD

EDITORIAL BOARD

Prof. Momodu Kassim-Momodu - Chairman

Dr. Kevin I. Idehen

Dr. S. C. Onwudiwe

Prof. Abiola J. Kehinde

Prof. Cornelius Sunny Nwajide

Prof. I. A. Muhammed-Dabo

Prof. A. A. Audu

Prof. Maimuna Waziri

Engr. Jide Adebulehin

Engr. Yinka Agboola

Mr. Mannir Abubakar

TECHNICAL ADVISERS

Prof. C. S. Nwajide, Geoscan Technical Services Ltd., Awka, Anambra State, Nigeria; **Prof. A. A. Audu**, Bayero University, Kano, Kano State, Nigeria; **Prof. Abiola Kehinde**, Department of Chemical Engineering, University of Lagos, Lagos, Nigeria. **Prof. Olalekan Olafuyi**, Department of Petroleum Engineering, University of Benin. Benin City, Nigeria; **Prof. Maimuna Waziri**, Vice Chancellor, Federal University, Gashua, Nigeria, **Prof. I. A. Muhammed-Dabo**, Department of Chemical Engineering, Ahmadu Bello University, Zaria, Nigeria. **Prof. Damfebo Derri**, Niger Delta University, Yenagoa, Nigeria. **Prof. Abiola J. Kehinde**