

**INTERNATIONAL CONFERENCE ON
THE CONTRIBUTION OF ENGINEERING,
SCIENCES AND HUMANITIES FOR THE
DEVELOPMENT OF THE
SOCIETY**

ESH-18

ORGANIZED BY:



Genba Sopanrao Moze College of Engineering
NAAC Accredited with B+ Grade
Balewadi, Pune

In Association with



www.conferenceworld.in

13TH-14TH OCTOBER 2018

ISBN: 978-93-87793-50-7

**INTERNATIONAL CONFERENCE ON
THE CONTRIBUTION OF ENGINEERING,
SCIENCES AND HUMANITIES FOR THE
DEVELOPMENT OF THE SOCIETY**

ESH-18

Editors

DR. FAROOK BASHIR SAYYAD

DR. A. K. SHARMA

Publish By:

A.R. Research Publication

Preface

Conference World and AR Research Publication is fast growing group of academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. Conference world has organized a various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and Industry New Delhi, YMCA New Delhi, India International Centre New Delhi Sri Venkateswara college of Engineering and Technology, Andhra Pradesh, Dhananjay Mahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the *International Conference on The Contribution of Engineering, Sciences and Humanities for the Development of the Society (ESH-18)*. As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and over 30 suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America and Asia. In the event, the conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, 17 represented by the delegates. This Proceeding provides the permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all workers in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

About the Conference

The purpose of *International Conference on The Contribution of Engineering, Sciences and Humanities for the Development of the Society (ESH-18)* is to bring together leading researchers, engineers and scientists in the domain of interest from India. We warmly welcome previous and prospected authors, submit your new research papers to ESH-18 and share the valuable experiences with the scientist and scholars. All full paper submissions will also be peer reviewed and evaluated based on novelty, technical and/or research content, relevance with the theme and contributions. Selected Papers will be published in conference proceedings with ISBN numbers. Participant who wishes to publish their papers in UGC approved, international Journal will be published with nominal additional fee.

Chief Patron

Hon. Shri. Rambhau Moze,
President Genba Sopanrao Moze Trust,
Former MLA, Maharashtra state

Patron

Dr. W.Z. Gandhare (Director)
Dr. A.B. Auti (Principal)

Conference Convener

Dr. Farook Bashir Sayyad (Vice-Principal)

Keynote Speaker

Mrs. Manasi V. Ghamande
Assistant Professor,
Department of Engineering Sciences and Humanities
Vishwakarma Institute of Technology, Pune

Dr(Mrs) Shabnam Farook Sayyad
Assistant Professor, Computer Engineering
AISSMS College of Engineering, Pune

National & International Advisory Board

Dr. P. Nagabhusan, IIT Allahabad, India
Dr. G. Ramesh, Chairman, IETE, India
Dr. Madria Sanjay Kumar, Missouri University of Sc. and Tech.,
USA
Dr. Sreedevi Ravana, University of Malaya, Malaysia
Dr. Pascal Lorenz, University of Haute Alsace, France
Dr. Lawrence Jenkins, IISc, India
Dr. Ratna, IISc, India
Dr. Harigovindan V.P, NIT Puducherry
Dr. G.S. Javed, Sr. MTS - High Speed Circuits, Terminus Circuits, Bangalore”
Dr. Ravi Shanker , Sambhram Institute of Technology, Bangalore
Prof M Mahadeva, RNSIT Bangalore
Prof. Murulidhar.K.S, KSIT, Bangalore

Conference Highlights:

1. All the accepted and presented/Non Presented papers of the duly registered authors will be published in the special conference issues of the international journals approved by UGC having ISSN & Impact factor.
2. Every author will get two certificates, one for paper publication in Journal other for paper presentation in conference.
3. Registration kit for each papers those will attend the conference at venue.
4. All the papers of the conference will be published in the conference proceeding with ISBN.
5. All the accepted and presented/Non Presented papers will be indexed in Google scholar & IDIIF.
6. Research Paper in absentia is also acceptable.

Proceeding of the conference has been published with **ISBN: 978-93-87793-50-7**

International Conference on The Contribution of Engineering, Sciences and Humanities for the Development of the Society ESH-18 was organized by **Genba Sopanrao Moze College of Engineering NAAC Accredited with B+ Grade Balewadi, Pune** with the collaboration of AR Research Publication and Conference World **on 13th-14th October 2018** Total 99 papers were received for the conference and 30 papers were shortlisted by the committee.

All the accepted and presented papers of the duly registered authors will be published in the UGC Approved International Journals

Published by

AR Research Publication,

3/186 Santpura Govindpuri Modinagar- 201201 . Dist: Ghaziabad

International Conference on The Contribution of Engineering, Sciences and Humanities for the Development of the Society ESH-18 (Vol-1) Copyright © 2018, by AR Research Publication (India)

No part of this publication may be reproduced or distributed in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise or stored in a database or retrieval system without the prior written permission of the publishers. The program listing (if any) may be entered, stored and executed in a computer system, but they may not be reproduced for publication.

This edition can be exported from India only by the publishers, AR Research Publication (India) ISBN: 978-93-87793-50-7

Managing Director: Gauri Sharma

Senior Researcher—Product Development: Ms. Pratima Singh

Head—Production (Higher Education and Professional): Satinder Kulkarni

Information contained in this work has been obtained by AR Research Publication (India), from sources believed to be reliable. However, neither AR Research Publication (India) nor its authors guarantee the accuracy or completeness of any information published herein, and neither AR Research Publication (India) nor its authors shall be responsible for any errors, omissions, or damages arising out of use of this information. This work is published with the understanding that AR Research Publication (India) and its authors are supplying information but are not attempting to render engineering or other professional services. If such services are required, the assistance of an appropriate professional should be sought.

Cover Design: Gagan Kumar