

Preface

Welcome to 2023 5th International Conference on Environment, Resources and Energy Engineering (EREE 2023) conducted at Bangkok, Thailand during June 15-17, 2023. It is truly my pleasure to present the 5th edition of the EREE proceedings for your reference. The scope of this conference is to gather researchers from different areas and disciplines, and to present results and participate in discussions under the common theme of environment, resources and energy engineering.

The conference included altogether about two keynote sessions and two invited sessions with eminent speakers covering a wide range of topics in environment, resources and energy engineering, and three oral sessions in which there are invaluable presentations by international presenters from Thailand, Japan, India, Korea, Indonesia, Costa Rica, Croatia, Bangladesh. 51 submissions are received this year and 16 full papers are selected for inclusion in the conference proceedings. The technical information contained in this conference proceedings is the culmination of the efforts of many people, most notably the authors whose work has been selected for publication and is described in detail in the pages that follow. The scientific program highlights three themes with Geological Structure Survey and Model Analysis, Clean Energy Development and Production, and New Energy System and Environmental Monitoring, to provide breadth, depth, and synergy for research collaboration.

These proceedings also represent the efforts of many EREE technical and conference committee members who volunteer their time and energy, to help make the EREE the important forum for publishing, presenting, and discussing recent understanding in the broad area of environment, resources and energy engineering. To the authors, reviewers, conference members, co-sponsors and technical supporters, we give our thanks and deeply appreciated for helping make the EREE an annual success.

We hope your experience with EREE 2023 is a fruitful and long lasting one. With your support and participation, the conference will continue its success for a long time.

Prof. Orawan Siriratpiriya, Chulalongkorn University, Thailand

On behalf of the EREE Conference Committees

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Bangkok, Thailand