

ERE RESEARCH CONFERENCE 2015
on
Earth Resources Management

PROCEEDINGS



Department of Earth Resources Engineering
University of Moratuwa
Sri Lanka
E mail: head@uom.lk





ERE 2015

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**9th Annual ERE Research Conference
on
“Earth Resources Management”**

30th July 2015

**Department of Earth Resources Engineering,
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on

“Earth Resources Management”

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WELCOME

It is with great pleasure I continue to fulfill the responsibility of coordinating the activities leading to the 9th the Annual Conference under the theme “National Conference on Earth Resources Management” as the coordinator. The conference is no doubt the greatest annual academic event of the Department of Earth Resources Engineering of the University of Moratuwa. I consider it an honor to play a pivot role in organizing activities leading to this great event, networking with a large number of organizations and individuals.

The event brings together many academics, students, industry leaders, alumni and well-wishers and is graced by the Vice Chancellor, Dr. Bernard Prame, the key-note speaker, a scientist and the chief executive officer of the regulatory authority, the Geological Survey and Mines Bureau. We are privileged to listen to the key-note address delivered by Dr. Prame.

The forum provides an ideal opportunity for the students to mix along with the senior industry professionals and industrialists and learn firsthand the new trends of development in the industry and in academia elsewhere and, sharpen ones skills to suit the changing circumstances. In an informal setting the academic will also have a chance to feel the pulse of the industry and exchange views which will help guide future research.

I hope that the theme is an inspiration to the young professionals to chart their future role as there is still a lot to be done to tap the vast potential of industrial minerals in the country and accordingly plan their future and make themselves ready to undertake the future management of country’s mineral resources raising the stature of the industry to greater heights.

I sincerely thank all the academic colleagues for the valuable advice offered, reviewers, non-academic staff members and the student body effectively fulfilling the individual tasks undertaken to make the event a success. This event would not have been possible without the financial assistance of the university and our sponsors.

Eng. P. V. A. Hemalal
Senior lecturer – Conference Coordinator
ERE 2015
30th July, 2015

MESSAGE FROM THE HEAD OF THE DEPARTMENT

It is with great pleasure that I send this message to the proceedings of ERE 2014 - 9th Annual Research Conference on "Earth Resources Management".

The Annual Conference is a land-mark event of the department where the present undergraduates, Alumni and related professionals get-together and actively take part in presenting their new findings for constructive discussion, leading the way for earth resources and mining engineering applications of those findings for betterment of the trade, industry and standards of public life. It is so precious a moment for us because aside from the fact that this function underlines our department's successful forty years in its realm of imparting education, research, this dais is also going to witness the showcasing of the performance of our undergraduates before you. It provides a great chance to the undergraduates to mix and interact with all the stake holders, industry leaders, academics of diverse disciplines and exchange views, share knowledge to achieve synergies in progress.

Your presence is an inspiration to the young researchers who are opening up their talents before you to achieve greater heights. I hope that the theme is timely and would inspire you to innovate new products, develop new technologies and processes in the broad field of earth resources engineering.

I wish to offer my gratitude to all those who helped me in organizing and steering this event to a successful completion. This gathering would not have been possible without the highly-valued and cordial assistance of our sponsors.

Dr. A.M.K.B.Abeysinghe
Head-Department of Earth Resources Engineering
ERE 2015

30th July, 2015

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