

## INTRODUCTION

Malaysia has been blessed with a significant amount of non-radioactive rare earth (NR-REE) deposits. The Minerals and Geoscience Department (JMG) reported that there are 16.1 million tonnes of non-radioactive rare earth elements (NR-REE) in Malaysia with a market value of RM809.6 billion. Several areas has been identified with strategic potential for NR-REE such as Johor, Kedah, Kelantan, Melaka, Negeri Sembilan, Pahang, Perak, Sarawak, Selangor and Terengganu.

Rare Earth Elements (REEs) are now become strategic importance for high-tech and green-tech industries. A number of other countries such as China, USA, Canada, Vietnam and India are also thinking along similar lines. With the new global interest in, and demand for Rare Earth minerals, it also now presents Malaysia with the opportunity to be among the global players in developing the REE and at the same time revitalize its's REE mining and processing activities. The development of REE industry can provide the impetus for the development of downstream RE-based industries which ultimately can function with the availability of local REE resources.

Therefore, Gold, Rare Earth and Materials Technopreneurship Center (GREAT) UMK is organizing a Seminar Mineral Resources & Technology (SMART) with the theme 'Understanding the potential and Challenges of Establishment Rare Earth Based Industries in Malaysia' to discover the knowledge of NR-REE, including the potential area, related techniques also environment issues. This seminar open up the opportunities to establish cooperation between government agencies and industry in intensifying activities related to rare earth metals and materials in the east coast area and related areas. The outcome from SMART will be very helpful in establishing and developing a Rare Earth industry in Malaysia from the upstream, midstream until downstream sectors.

SMART is scheduled to take place on 28th August 2023. which is held in conjunction with the International Conference on Bioengineering and Technology (IConBET 2023) with participation from various universities and agencies, organized by the Faculty of Bioengineering and Technology (FBKT).

## MAIN ORGANIZER



## STRATEGIC COLLABORATORS



## ADVISORY MEMBERS

- Prof Ts Dr Arham Abdullah (Deputy Vice Chancellor of Research and Innovation, Universiti Malaysia Kelantan UMK)
- Prof Dr Aweng A/L Eh Rak (Director of UMK, Campus Jeli)
- Assoc Prof Dr Muhammad Azwadi Sulaiman (Dean Faculty of Bioengineering & Technology, UMK)
- Assoc Prof Ts ChM Dr Abdul Hafidz bin Yusoff (Director, Research Management Division, UMK)
- Dr Noor Fazliani binti Shoparwe (Director Gold, Rare Earth and Materials Technopreneurship Centre GREAT, UMK)
- Tn Hj Abdul Rashid Mohd Yusoff (Chief Executive Officer CEO of Perbadanan Menteri Besar Kelantan PMBK Group) Tn
- Wan Mohd Husni bin Wan Osman (Chief Operating Officer COO of PMBK group)
- Assoc Prof Dr Mohd Yusri Bin Mohamad Yunus (Director, Centre for Sustainability Ecosystem and Earth Resources, Universiti Malaysia Pahang UMP)
- Assoc Prof Dr Hasrizal Shaari (Director, Centre of Research and Field Service - CRAFS, Universiti Malaysia Terengganu UMT)
- Prof Ir Dr Mariatti Binti Jaafar (Dean School of Materials & Mineral Resources Engineering, Universiti Sains Malaysia USM)
- Prof Dr Che Rahim Mohamed (Professor, Faculty of Science & Technology, Universiti Kebangsaan Malaysia UKM)
- P. Geol Tn Hj Ahmad Nizam Hasan (Chairman & Principal of Geosolution Resources Group of Companies)
- Dr Mohd Roshdi bin Hassan (General Manager, Kelantan Utilites Mubaarakan Holdings, Sdn. Bhd)



# SEMINAR ON MINERAL RESOURCES & TECHNOLOGY

### THEME

UNDERSTANDING THE POTENTIAL AND CHALLENGES OF ESTABLISHMENT RARE EARTHS BASED INDUSTRIES IN MALAYSIA



28<sup>th</sup> August 2023

Monday / 9 am - 5 pm.



Hotel Grand Riverview,  
Kota Bharu, Kelantan

ENTREPRENEURSHIP IS OUR THRUST

## OUR SPEAKERS

### Speaker 1



**P. GEOL MOHAMED ASRI OMAR**  
Geological Officer  
Jabatan Mineral dan  
Geosains (JMG) Kelantan

**Potential mining of Non-Radioactive Rare Earth and other minerals in Kelantan, Malaysia**

### Speaker 2



**P. GEOL HJ. AHMAD NIZAM HASAN**  
Principle and Chairman Geosolution Resources  
Group of Companies  
Fellow Institut Geologi Malaysia  
Fellow Geological Society of London

**Mining Geology and Exploration Challenges of REE Resources**

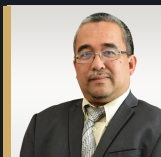
### Speaker 3



**IR. DR. SELAMAT ALIMAN**  
Director of SBA Consultant  
Leading Consultant in developing SOP for NR-REE  
in Malaysia  
Leading Consultant for 1st NR-REE Mining in  
Malaysia located in Kenering, Perak

**In Situ Leaching Method in Non-Radioactive REE mining: Technical, Environmental and Economical Aspect**

### Speaker 4



**DATO' IR. TS. DR. BADRULHISHAM ABDUL AZIZ**

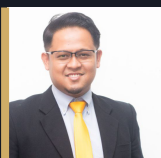
Visiting Senior Fellow, GREAT UMK  
Fellow of Akademi Sains Malaysia (ASM)  
Principal Consultant Fellow, Pusat Alam Universiti  
Malaysia Pahang (UMP)  
Founder of Global Rare Earth Resources Sdn. Bhd.

**The Establishment of Rare Earth Industries Road Map for Malaysia**



**Open Dialogue Session:  
Direction of Rare Earth Industries  
in Malaysia**

Panel: All the invited speakers



**Moderator:**

**ASSOC PROF. TS CHM DR. ABDUL HAFIDZ YUSOFF**

Director of Research Management Division, UMK  
Associate Fellow of GREAT, UMK

## SEMINAR TENTATIVE

08.30 - 09.30 am	Registration and Breakfast
09.30 - 10.00 am	<b>Welcoming speech</b> Prof. Dato' Dr. Razli Bin Che Razak Vice Chancellor of Universiti Malaysia Kelantan
10.00 - 10.30 am	Exhibition Tour
10.30 - 11.30 am	<b>Speaker 1: Potential Mining of Non-Radioactive Rare Earth and other minerals In Kelantan, Malaysia.</b> P. Geol Mohamed Asri Omar Geological Officer Jabatan Mineral dan Geosains (JMG) Kelantan
11.30 - 12.30 pm	<b>Speaker 2: Mining Geology and Exploration Challenge of Non-Radioactive REE Resources</b> P. Geol Haji Ahmad Nizam Hasan Chairman & Principal Geosolution Resources Group of Companies Fellow Industry Geological Malaysia Fellow Geological Society of London
12.30 - 02.00 pm	Lunch
02.00 - 03.00 pm	<b>Speaker 3: In Situ Leaching Method in Non Radioactive REE Mining: Technical, Environmental and Economical Aspect</b> Ir. Dr. Haji Selamat Aliman Director at SBA Consultant Leading Consultant in developing SOP for NR-REE in Malaysia Leading Consultant for 1st NR-REE Mining in Kenering, Perak
03.00 - 04.00 pm	<b>Speaker 4: The Establishment of Rare Earth Industries Road Map for Malaysia</b> Dato Ir. Badrulhisham Abdul Aziz Visiting Senior Fellow GREAT, UMK Fellow at Academic Science Malaysia (ASM) Founder of Global Rare Earth Resources Sdn Bhd Principal Consultant Fellow Pusat Kelestarian Ekosistem dan Sumber Alam (Pusat Alam), Universiti Malaysia Pahang
04.00 - 04.15 pm	Tea Break
04.15 - 05.15 pm	<b>Open Dialogue Session: Direction of Rare Earth Industries in Malaysia</b>  <b>Moderator:</b> Assoc Prof. Ts Chm Dr. Abdul Hafidz Yusoff Director of Research Management Division, UMK Associate Fellow of GREAT, UMK  <b>Panel:</b> • Dato Ir. Dr. Badrulhisham Abdul Aziz, • Ir. Dr. Haji Selamat Aliman • P. Geol. Haji Ahmad Nizam Hasan • P. Geol. Mohamed Asri Omar
05.15 - 05.30 pm	Closing and photo session

## PARTICIPANT DETAILS

Organisation/Institution :

Address :

Phone No. :

Fax :

Email :

Contact person :

Name of participants :

(Group/Individual) :

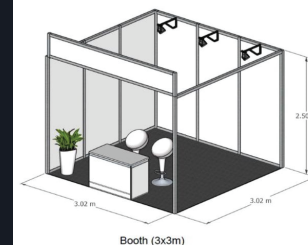
### Registration Fee

**RM350/person** | **RM999/group**  
Individual Registration | Group Registration (3 person)



To register as participant at:  
[www.iconbet2023.com/smart](http://www.iconbet2023.com/smart)

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SMART SEMINAR will be held in conjunction with ICONBET 2023 with participants from various agencies and institutions



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Price:  
**RM 2,000/ 2 days**