

KARNIVAL KIMIA MALAYSIA (K2M) 2018 NORTHERN BRANCH REPORT

KARNIVAL KIMIA MALAYSIA (K2M) is an annual program outlined as one of the activities of the Institut Kimia Malaysia (IKM) Northern Branch. This program is organized by IKM Northern Branch with other strategic partners such as institutions (USM, UiTM Penang Branch, AIMST University), Government bodies (Jabatan Pelajaran Negeri, Jabatan Kimia Malaysia Penang and Kedah branches), agencies (National Stem Movement, Agensi Anti Dadah Kebangsaan, ACS Malaysia Chapter) and industries. K2M is a community program reaching out to the schools in the northern part of Malaysia. Started in 2011, the 7th K2M program was successfully held on the 13th September 2018 at Dewan Peperiksaan Utama A and B, Universiti Sains Malaysia with the theme *Chemistry for Environmental Sustainability*. This program was jointly organized by Institut Kimia Malaysia (IKM), Universiti Sains Malaysia (via Pusat Pengajian Sains Kimia) and Jabatan Kimia Malaysia (Pulau Pinang and Kedah branches).

As the host, K2M program coordinator, Prof Madya Dr. Melati Khairuddean together with the Chairman of IKM Northern Branch, Prof Madya Dr. Mas Rosemal Hakim Mas Haris and Directors of Jabatan Kimia Malaysia, Penang and Kedah branches, Datin Maimonah Sulaiman and Puan Marhayani Md Saad have welcomed all the guests. The program was officiated by the Dean of the School of Chemical Sciences, Prof Dr. Afidah Abdul Rahim representing the Vice-Chancellor, Prof Datuk Dr. Asma Ismail. The IKM President, Datuk Dr. Soon Ting Kueh was present as the invited guest. Many other guests attended the program including the representatives from Jabatan Pelajaran Negeri Pulau Pinang, representatives from Agensi Anti Dadah Kebangsaan, many others from the industries, the exco members of the IKM Northern Branch, teachers and students.



Invited guests during the officiating ceremony of the K2M 2018 northern region



Welcoming speech by Chairman of IKM Northern Branch, Prof Madya Dr Mas Rosemal Hakim Mas Haris



Speech by IKM President, Datuk Dr Soon Ting Kueh



Officiating speech by Dean of the School of Chemical Sciences, USM, Prof Dr Afidah Abdul Rahim



Officiating ceremony by the Dean of School of Chemical Sciences, Prof Dr Afidah Abdul Rahim



This program is the 7th K2M being held, again in USM after the first K2M in USM was launched in conjunction with the 2011 International Chemistry Year celebration. This program provides opportunities for students from secondary schools in the northern region, providing a platform for students to actively participate in innovation activities. The K2M program aims to nurture students' interest in generating science-related knowledge in order to attract them to pursue science and technology. The K2M program is capable of incorporating different societies from schools, universities, government departments and industries to nurture knowledge and give science exposure in line with the country's aspirations.

20 groups of students from secondary schools have taken part in the *Innovation & Invention Competition* while 10 exhibition booths from different government bodies and industries have also participated. Upon registration, all the participants were given the Certificate of Attendance. The schools include SMK Saujana Indah, Nibong Tebal; SMKA Al-Irshad, Kepala Batas; SMK Permai Indah, Bukit Mertajam; SM Sains Tun Syed Sheh Shahabudin, Bukit Mertajam; SMK Tinggi Bukit Mertajam; SMJK Jit Sin, Bukit Mertajam; SMJK Chung Ling, Ayer Itam,; SMKA (P) Al-Mashoor, Georgetown; SMK Mak Mandin, Butterworth; SMT Tunku Abdul Rahman Putra, Ayer Itam; SM Sains Kepala Batas; Penang Free School, Georgetown; SMK Guar Perahu Indah, Bukit Mertajam; SMK Bertam Perdana, Kepala Batas; SMK Tanjong Bunga, Georgetown and SMK Seberang Jaya. In the *Innovation & Invention Competition*, the projects presented by all the schools were judged by the invited judges from the universities, government bodies and industries. Some of the judging sessions are illustrated as follows:





The exhibition booths displayed various chemistry-related products, as portrayed below:



Microscale Chemistry – USM



Jabatan Kimia Malaysia (Kedah branch)



Jabatan Kimia Malaysia (Penang branch)



Chemistry Life Hacks – UiTM (Penang branch)



Chemistry for Daily Living – Industry



Chemistry of Wonders – ACS



Chemistry of Drugs – AADK



Chemistry of Poison – Poison Centre, USM

The IKM President visited the exhibition booths accompanied by the Chairman of IKM Northern Branch and other invited guests.



There were four invited speakers presented their talks during the concurrent session with the judging of the *Innovation & Invention Competition*. Dr. Hazariah binti Abu Hassan, a medical doctor from a private clinic talked on the 'Chemistry of Health – Medicinal Value or Otherwise of Drugs'. The second speaker, Noorhazlina Abu Bakar from Jabatan Kimia Malaysia Pulau Pinang talked about 'Environment and Your Life Style: What you should know?'. The third speaker, En Abd Rahim bin Ismail from Jabatan Kimia Kedah talked on 'The pesticides residues-Effect on Environment'. The final speaker from the School of Chemical Sciences, USM, Assoc. Prof. Dr. Melati binti Khairuddean talked about 'Natural Products – Commercial and/or Consumer Preference'.

All the schools displayed interesting projects with good ideas of science and showed amazing presentations. However, only participants with all the criteria are qualified as winners. Hopefully, for other participants, with the jury's comments and suggestions, the presentations will be improved in the future. The final results showed that SMK Sungai Ara was ranked the first, followed by Bukit Mertajam High School while the third place was given to SMK Penang Free. Medals and Certificate of Appreciation were given to each person and to the school. The Chairman of IKM Northern Branch later presented a token of appreciation to the program coordinator, Assoc. Prof. Dr Melati Khairuddean.



1st place: SMK Sungai Ara (Project title: Bio-plastic composites)



2nd place: Bukit Mertajam High School (Project title: Napier grass as natural energy resources)



3rd place: SMK Penang Free (Project title: Egg shell plaster)



Token of appreciation to the program coordinator, Assoc Prof Dr Melati Khairuddean

Finally, the Chairman of IKM Northern Branch, Assoc. Prof Dr Mas Rosemal Hakim Mas Haris was called upon to deliver his closing remark and close the 7th K2M program.



Audience during the closing ceremony



Closing speech by Chairman of IKM Northern Branch, Assos Prof Dr Mas Rosemal



After the closing ceremony

The organizing committees of the School of Chemical Sciences, USM has worked very hard to ensure the K2M program goes smoothly. Heartiest appreciation goes to Institut Kimia Malaysia for continuous support. To all the departments and centers in USM and to the Dean of the School of Chemical Sciences, USM, thank you for the full support which has greatly facilitated this program in making it a success. Appreciation also goes to Jabatan Pelajaran Negeri Pulau Pinang which has supported the K2M program from the beginning, has helped with circulating the information about the program to all the schools around Penang. Starting from the registration until the closing ceremony, K2M program has been well organized and lasted successfully. Some of the memorable snapshots throughout the event.

Committee members of the K2M program from School of Chemical Sciences, USM



