

Seminar: Impact of Regional Transboundary PM 2.5 Pollution on Hong-Kong - Application of Source-tagging Method

By Miss. Sibyl CHUN

Concerning our own health, we become more and more aware of the air quality of our environment. On the evening of 26 October 2017, a meaningful technical seminar of “Impact of Regional Transboundary PM 2.5 Pollution on Hong Kong” was jointly organized by the Young Members Committee (YMC) and Environmental Division (ENV). With more than 80 audiences, we were glad to have Ir Dr. Alex Gbaguidi, environmental engineer and scientist of Allied Environmental Consultants Ltd. to share his recent findings on the impact of regional PM2.5 transport of Hong Kong through an on-line source tagging modeling approach.

Ir Dr. Alex Gbaguidi first shared with us the background and objectives of his research with the formation process of PM 2.5, health effect and visual impact of pollutant in Hong Kong. Ir Dr. Alex then introduced the definition, types and sources of PM 2.5. He also illustrated the emission process of PM 2.5 supplemented with diagrams and animation. After that, he explained the design of the WRF and NAQPMS Modeling System and implementation of the source tagging modeling method. For example, he introduced the model domain setting, boundary and initial conditions such as temperature, atmospheric moisture and wind. In addition, the modeling system validation, spatial impact of neighboring sources on PM2.5 concentration is demonstrated. The seminar successfully concluded with inspiring research results and environmental implication of the studies including concentration of pollutants, pathways of pollutants, sources of pollutant and its affected area.

The event ended with overwhelmed response from the audiences during the Q&A session. All participants were deeply inspired by the informative and scientific knowledge sharing brought by Ir Dr. Alex Gbaguidi. We all get to know more about the impact of regional transboundary PM 2.5 pollution and some possible solutions based on the findings. On behalf of YMC and ENV, we would like to express our sincere gratitude to Ir Dr. Alex Gbaguidi for his valuable sharing.



Caption: Speaker (third from left) taking photo with representatives from YMC and ENV