

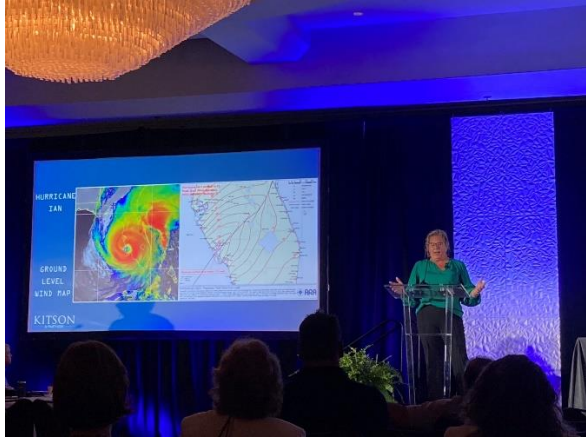
出席國際研討會心得感想 (Chun-Sheng Huang 黃淳聖)

It is an invaluable experience in attending the Air & Waste Management Association's 116th Annual Conference and Exhibition in Orlando, USA. During the conference, I attended multiple presentations in search of interesting topics related to my research field of air pollution.

One particular study immediately caught my eye. It focused on using a receptor model to identify potential sources of PAHs (Polycyclic Aromatic Hydrocarbons) air pollution in Memphis, Tennessee. The researchers calculated the risk associated with each pollution source based on the risk units provided by the US EPA. Additionally, they evaluated the impact of these pollutants on infants, who are more vulnerable to environmental toxins. What intrigued me further was the inclusion of soil data in the receptor modeling, where the researchers applied the Positive Matrix Factorization model to gain insights into the similarity of pollution sources between the different media of air and soil. I actively engaged in discussions, asking questions, and sharing my comments and ideas with the presenters. Moreover, I found another fascinating study that deployed multiple low-cost sensors around an industrial park. These sensors data, along with meteorological data and industrial process time-activity information, were integrated and helped identify hotspots of air pollution sources. The study field of low-cost sensors can greatly contribute to air pollution identification, providing detailed temporal and spatial distributions of air pollutants, perfectly aligns with my interest in innovative technology.

Additionally, I also attended several panel and platform sessions that covered a wide range of topics. One such session focused on the application of innovative technologies like drones, satellite imaging, and building design in environmental protection. This emphasized the importance of acquiring new technological knowledge to effectively mitigate environmental hazards and disasters. Another session highlighted on the impact of natural disasters on pollution, using Hurricane Ian as an example to discuss its influence on Florida, USA in 2022. The sampling technique of bioaerosols, with a specific focus on COVID-19 this time, was also presented. Furthermore, the associations between environmental factors such as wastewater and hospitalization rates were explored, offering insights and suggestions into preparing for potential future worldwide public health events.

Throughout these days in Orlando, I realized the critical importance of improving my English language skills, particularly in listening and speaking. The speeches delivered by native speakers were awesome, but their rapid pace sometimes made it challenging for me to fully comprehend. While Taiwanese students are well-trained in conducting studies, experiments, and manuscript writing, effective communication and exchanging opinions with international academic experts are crucial for obtaining the latest information and knowledge. Attending this international conference in the USA was an exceptional and unforgettable experience, and I hope to have the opportunity to attend another conference in the future to broaden my perspectives and knowledge even further.



The platform presentation



The panel presentation



Taking pictures with international students



My oral presentation