Alan C. Chan

Vice President,
Manager of AirNow and International Programs

Sonoma Technology

Mr. Chan joined Sonoma Technology in 2002. His main responsibility is to manage the operations of the Data Management Center for the U.S. Environmental Protection Agency's (EPA) AirNow program, which is a premier real-time air quality system that environmental agencies across the United States rely on to improve public health, stimulate public policy, and achieve data transparency. He also leads the AirNow International (AirNow-I) program expansion initiative and Sonoma Technology's other international business development efforts worldwide. Mr. Chan's understanding of the technical and cultural aspects of collaborating with foreign organizations has been instrumental to the successful and stable expansion and engagement of the AirNow-I community and EPA's international partners.

In addition to leading the company's AirNow and International programs, Mr. Chan also oversees daily operations of the AirNow Data Management Center at Sonoma Technology, which provides on-demand technical support to stakeholders from more than 150 state, provincial, and local air quality agencies across the United States, Canada, and Mexico, as well as over 15,000 application developers, data users, and media partners. Mr. Chan led the effort to redesign the data management system for the U.S. Department of State (DOS) Mission China's air quality monitoring program at the Beijing Embassy and four consulates. The DOS data management and air monitoring program has since been expanded to almost 50 cities worldwide.

Mr. Chan also led several data science and real-time data applications, including AirNow-Tech, new AirNow.gov, and the updated AirNow mobile app. Since 2005, Mr. Chan has led the training, knowledge-transfer and exchange, and coordination efforts with the Shanghai Environmental Protection Bureau on air quality forecasting, reporting, monitoring, and notification to establish a foundation for EPA's AirNow-I program. Since the launch of the Shanghai pilot in 2010, he has helped successfully expand the AirNow-I program in Zhejiang Province, China, Mexico, Nepal, and Ghana. He continues to work with EPA and foreign environmental agencies to facilitate the growth of the AirNow-I community worldwide. He managed a project to provide technical support for establishing air sensor networks in India and led the AirNow-I sensor deployment and data management project for Ghana. For this project, a network of ten low-cost sensors were collocated to assess performance and then installed across the city of Accra. The data stream went to the local AirNow-I data platform. He has also been participating in scoping missions with EPA that are essential to building trust and working relationships, assessing infrastructure, and planning for future AirNow-I activities.

Education

- MS, Meteorology, Cornell University
- BA, Geography, *summa cum laude*, Boston University

For a list of publications, see sonomatech.com/ResPub/ACCpub.pdf.

Mr. Chan was involved in the development of an air quality management plan for Jiangsu Province, China, as part of the U.S. Trade Development Association "Feasibility Study for the China Air Quality Management Program." Based on his broad experience working with the international air quality community, Mr. Chan was invited to join Clean Air Asia's Cities Clean Air Partnership experts group on air quality governance and assessment, as well as the United Nations Environmental Programme's Asia Pacific Clean Air Partnership Joint Forum.

Since 2014, Mr. Chan has been involved in an environmental education program using low-cost air sensors called Kids Making Sense®. This program teaches students about air quality and how to measure air pollution using hand-held sensors and mobile phones, empowering them to drive positive change in their communities. In addition to pilot workshops in California and New York, Kids Making Sense workshops have been successfully conducted in Taiwan and Thailand. Recently, Mr. Chan worked with the EPA sensor team to develop a prototype design of a sensor data platform for community groups and tribes.

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