



Disease Surveillance and Emergency Response
 Protecting the population from disease and responding accurately to outbreaks are keys for public health. The use of GIS can enable public health to recognize an outbreak and provide a measured response to control the disease spread. Learn how GIS is being used in geographic surveillance and response to emergencies.

Presented by:



Xiaohui Zhang, PhD
 Chief Scientist & Director of Asian Development
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With 25 year experience, Dr. Zhang has dedicated himself to the application of information technology and decision making techniques to global public health, health care improvement, and ecosystem protection. He has served as chief scientist and chief technologist in leading development of many real world systems, including disease surveillance, emergency preparedness and response, comprehensive health care management and ecosystem modeling. He is the coauthor of book, *GIS for Surveillance, Theory, Methods and Case Studies*.



May 26 – 28, 2010

STC's Dr. Zhang Participates in HIMSS AsiaPac10 Exposition

Dr. Xiaohui Zhang, STC's Chief Scientist and Director of Asia Development, held two dedicated workshops as an ESRI global business partner at the HIMSS AsiaPac10 Exposition in Beijing.

For the first workshop, "GIS for Disease Surveillance and Emergency Response," Dr. Zhang introduced GIS solutions with real world application for infectious disease surveillance, syndromic surveillance, disease outbreak alert, non-communicable disease surveillance, surveillance with multiple data sources (human, veterinary, avian sentinel, birds, and mosquitoes), advanced GIS with real-time data streams in health care emergency response, and mobile application for post-disaster public health response. He also introduced STC's work in situation awareness during the US 2009 H1N1 outbreak, STC syndromic surveillance systems, and STC's support of China earthquake relief efforts.

The second workshop, "GIS for Population Health," featured Dr. Zhang's introduction of GIS applications in cancer registry and research, citing examples from the US and China; GIS applications in environmental health and occupational health; and comprehensive health care management. STC's work for preventive child health care was among the application examples.

In addition, Dr. Zhang supported two ESRI sessions: GIS in Health Care Reform and Health Geoinformatics at Asia-Pacific HIMSS10.

Workshop attendees numbered approximately 80 people, with registrants from around the globe representing the China Ministry of Health, China National CDC, the US CDC Global AIDS Program, Hong Kong Drug Safety Administration, China's provincial CDCs, multiple international health care industries and IT companies, as well as Asia-Pacific hospitals and universities.