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“Recent Developments in Indoor Air Quality Control”

4:00 pm
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107 Engineering Unit B
University Park, PA

This presentation will cover some of the indoor air quality control research currently being studied at the Institute of Industrial Science at the University of Tokyo. The first part of the presentation will deal with the utilization of adsorptive building materials for decreasing VOC concentration in rooms. Then, a new research project on measurement of SVOC emission rate from electrical appliances will be presented and discussed. The potential of desiccant air conditioning systems with CO₂ heat pump for zero condensation both in air-conditioning equipment and in rooms will be discussed during the last part of the lecture.

Shinsuke Kato is Professor and Director of the Center for Development of Instrumentation Technology in the Institute of Industrial Science, University of Tokyo, Japan. His principal technical interest areas are indoor airflow and temperature distributions, indoor smoke and fire control, thermal comfort, indoor air quality, air-conditioning, and ventilation. His experimental and computational fluid dynamics research in these areas is internationally recognized, and his publications have been recognized with 13 best paper awards. He is a member of numerous scientific organizations in Japan and elsewhere, including the Architectural Institute of Japan, The Society of Heating, Air-Conditioning, and Sanitary Engineering of Japan, The American Society of Heating, Refrigerating, and Air-Conditioning Engineers, American Physical Society, and American Society of Mechanical Engineers.