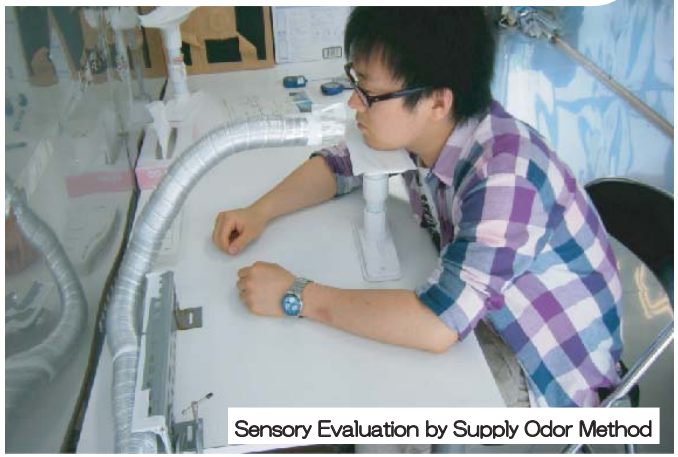
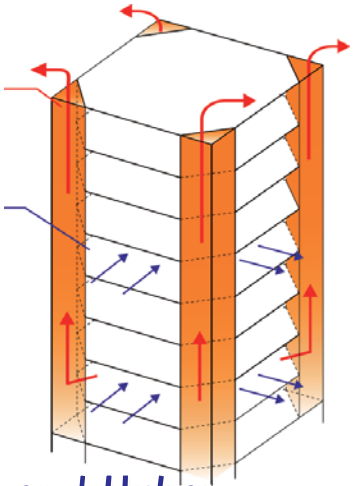
Odor Environment for Health and Comfort
Adaptation process of human olfactory



Sensory Evaluation by Supply Odor Method

Natural Ventilation of Multistory Office Building
Coupled Wind-forced Ventilation and Stack Ventilation

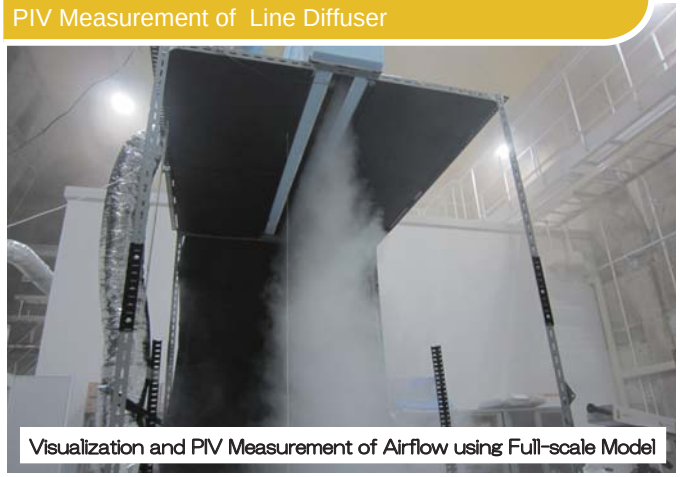
Office Building with Corner-Void for Stack Ventilation



Working Space Design for Safety and Comfort
Thermal Environment and IAQ in Kitchen

Thermal Environment Measurement in Commercial Kitchen

CFD modelling of Diffused Airflow
PIV Measurement of Line Diffuser



Visualization and PIV Measurement of Airflow using Full-scale Model

Architectural and Urban Environmental Engineering Area

Course of Architectural Engineering, Division of Global Architecture, Graduate School of Engineering, Osaka University

http://www.arch.eng.osaka-u.ac.jp/~labo4/

We are dealing with building environment like heat, air, sound, and light from the viewpoint of utilization of natural energy, energy saving, and designing occupied spaces of comfort and health.
Our research field is spreading from Human to Building and they are categorized as follows

1) Environmental Psychology and Physiology
2) Built Environment Engineering
3) Building Services

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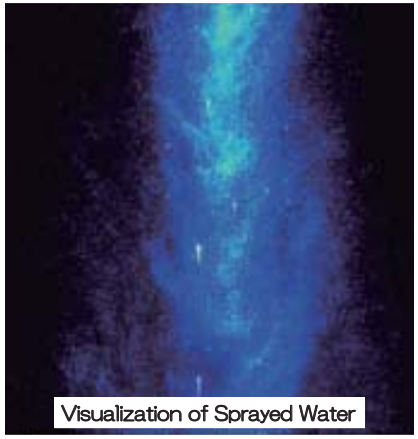
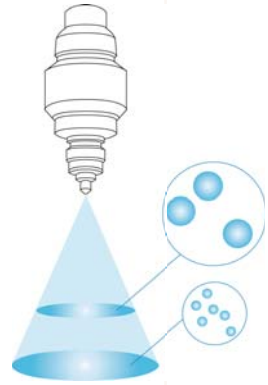
Deodorant Effect by Spraying Hypochlorous Solution
Particle Behavior Analysis using PIV Measurement

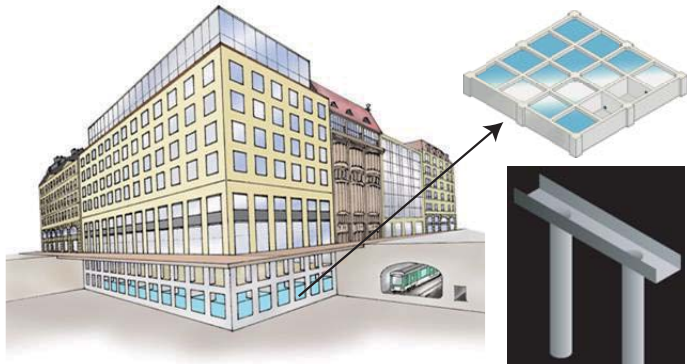


Visualization of Sprayed Water



Spray Nozzle

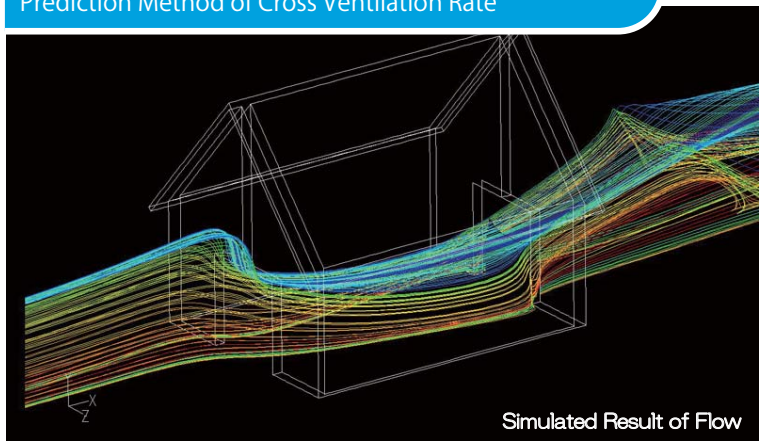
Energy Efficiency of Building Services
Performance Evaluation of Thermal Energy Storage Tank



Building with Thermal Energy Storage (TES) Tank

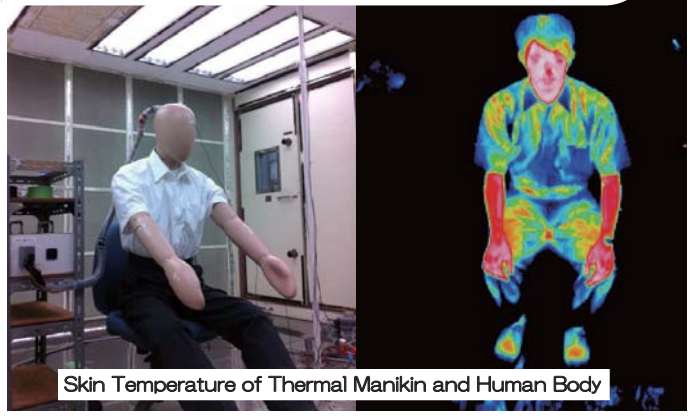
Diffuser

Basic Research for Cross Ventilation
Prediction Method of Cross Ventilation Rate



Simulated Result of Flow

Ceiling Fan for Thermal Comfort
Air Movement and Temperature Control



Skin Temperature of Thermal Manikin and Human Body