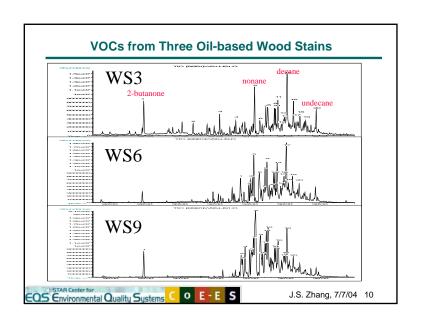
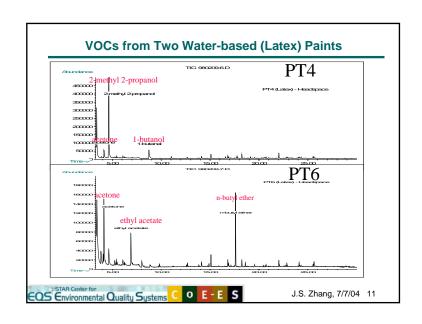
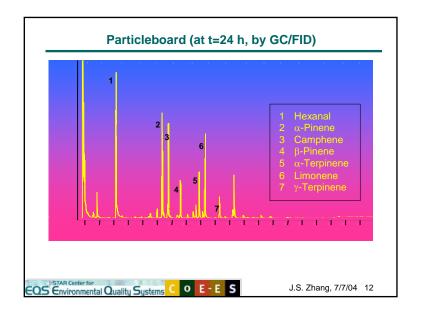




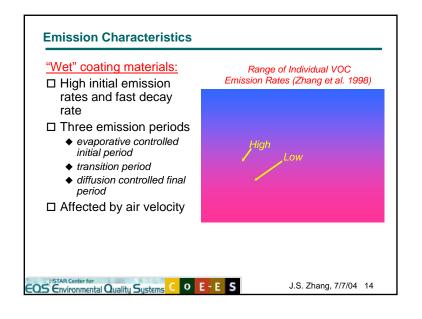
Why Study Material Emissions? □ 300+ VOCs identified (accounts for over 50% indoor contaminants) □ Many VOCs can cause discomfort and adverse health effects □ Indoor VOC concentrations are usually much higher than outdoors

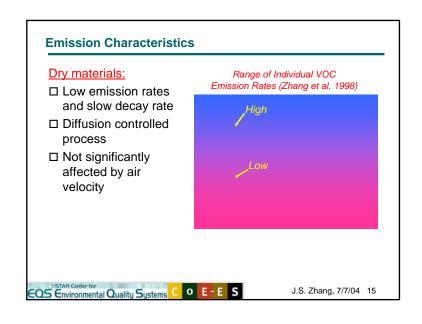


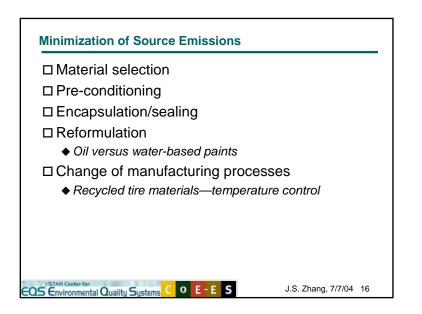




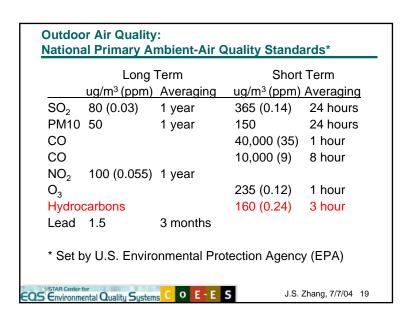




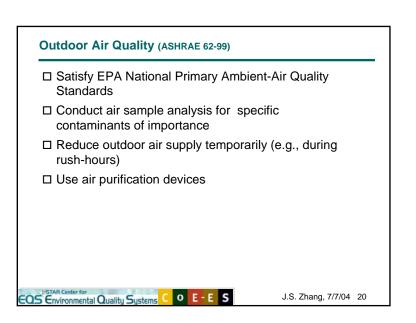




Strategies for IAQ Control Source/emission control Ventilation Air purification Strategies for IAQ Control Source/emission control Strategies for IAQ Control Source/emission control Strategies for IAQ Control



Adequate Ventilation for IAQ □ Outdoor air quality □ Amount of outdoor air □ Room air distribution ◆ Delivery of outdoor air to the occupied spaces "ASHRAE Standard 62-1999: Ventilation for Acceptable Indoor Air Quality" EOS Environmental Quality Systems © 0 E-E S J.S. Zhang, 7/7/04 18



Amount of Outdoor Air (ASHRAE 62-99) ☐ Prescriptive procedure Max. Occupancy CFM (L/s) Application (P/1000 ft² or 100 m²) per person Office space 7 20 (10) 15 (7.5) Classroom 50 Residential living area: 15 (7.5) (& not less than 0.35 air changes per hour) ☐ IAQ procedure (performance based, allows for integration and optimization) J.S. Zhang, 7/7/04 21

