



The Laboratory Safety Institute

Laboratory Ventilation for the Research Professional

INTRODUCTION OF INSTRUCTOR & PARTICIPANTS	HOOD USE ISSUES <ul style="list-style-type: none"> • Crowded Hoods • Fume Hood Performance and Condition Criteria
LABORATORY VENTILATION OVERVIEW <ul style="list-style-type: none"> • What Does a Laboratory Ventilation System Do? • System Concepts 	ADDITIONAL ENGINEERING CONTROLS <ul style="list-style-type: none"> • Biological Safety Cabinets • Glove Boxes • Gas Cabinets and related systems
LAB VENTILATION ISSUES <ul style="list-style-type: none"> • Lab Ventilation - the Traditional Approach • Basic Dilution Ventilation • Air Changes and Recirculation 	SYSTEM CAPACITY ISSUES
VARIABLE AIR VOLUME SYSTEMS <ul style="list-style-type: none"> • VAV System Requirements • VAV Plusses, Minuses and other Issues 	EXHAUST VELOCITY AND STACK TYPE
FUME HOOD ISSUES <ul style="list-style-type: none"> • Hood Types • Special Purpose and Perchloric Hoods • Hood Performance Issues • How Many Hoods do you need? • Chemical Fume Hood Costs 	SO YOU'RE BUILDING NEW LAB FACILITIES...THE PROCESS EVALUATION & CRITIQUE