

## *COLUMBIAN CHEMICAL – Marietta, Georgia*

### INDUSTRIAL LABORATORIES

**SCOPE** Mechanical design for 40,000 square foot, 2-story office building with a 36,000 square foot lab building.



GENERAL FUME EXHAUST

**Owner**

Columbian Chemical Co.

**Mechanical Contractor**

Batchelor & Kimball

**Prime Consultant**

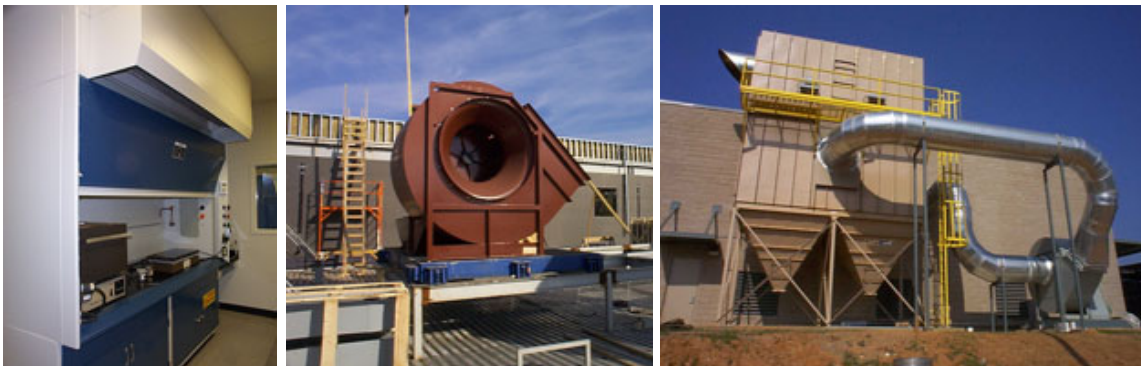
Johnson, Spellman &  
Associates, Inc.

**Construction Cost**

\$15,000,000 (total)  
\$5,000,000 (mechanical)

### **SPECIAL CIRCUMSTANCES**

- 40,000 CFM air-conditioning system serving the laboratory building.
- 71,000 CFM stainless steel general fume exhaust system serving fume hoods and equipment. This system includes final filtration stage and dual exhaust fans.
- 70,000 CFM conditioned and humidity controlled make-up air system serving the laboratory building.
- 44,000 CFM, high velocity particulate exhaust system including dust collection.
- Custom, dual tunnel, 114,000 CFM air-handling unit serving the air conditioning and make-up systems.
- Three air-cooled chillers with total capacity of 680 tons of cooling.
- Tempered water system for process cooling.
- Four dedicated humidity control air-handling units serving specific laboratories.
- Complete DDC integrated control system.



**Johnson, Spellman & Associates, Inc.**

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