F.C. O'NEILL, SCRIVEN & ASSOC. LTD.
Consulting Engineers

Sir Charles Tupper Medical Building Dalhousie University Halifax, Nova Scotia

Total Area ..... 370,000 ft^2
Mechanical & Electrical
Upgrading Cost $8,000,000.00
Project Completion 1994
Client ..... Dalhousie University
Prime Consultant ..... Chebucto Engineering Ltd.
Mechanical & Electrical Consultants
..... F.C. O'Neill, Scriven & Associates Ltd.

F.C. O'Neill, Scriven and Associates were the original mechanical and electrical design consultants for this 15 story high-rise structure built in 1965 to house offices and laboratories for the Dalhousie University Medical School.

Changing standards and technical advances coupled with extensive deterioration of the existing air handling systems and air quality problems associated with the recirculation of laboratory air necessitated a complete replacement and modernization of the HVAC systems from the 5th to the 15th floor.

Our reputation for high quality design, our experience in laboratory systems design and our ability to work co-operatively with clients and competitors alike resulted in a successful joint venture proposal with Dalhousie's principal consultants Chebucto Engineering for this $8,000,000.00 project.

Our challenge was to install new systems, capable of higher air volumes associated with today's laboratories, in the cramped existing fan rooms and at the same time ensure that system components are easily accessible for maintenance. On top of this, energy costs associated with higher outside air volumes demanded the inclusion of a heat recovery system.

Substantial upgrading of the central fume exhaust system, control of formaldehyde fumes from and within the Gross Anatomy Lab, installation of a Emergency power system, new energy efficient lighting and conversion of the outdated pneumatic control system to a state of the art digital electronic system rounded out this retrofit.

Successfully dealing with the formidable difficulties of this project proved to be a challenge: a challenge eagerly accepted and carried out by F.C. O'Neill, Scriven and Associates Limited.