

**SYLVAIN LAPOINTE, sr. tech.**

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Project manager  
Agritechnove Inc.  
Consulting Engineers

### EDUCATION

Technology of the architecture  
CÉGEP Lévis-Lauzon  
Lévis, Québec, Canada

1992

### PROFESSIONAL EXPERIENCE

1991-present                      Responsible for the drafting team. He works at design of the mechanical systems and the specialized greenhouse systems and equipments as well as the coordination of these systems with the architectural restrictions. He also works as a project manager at the execution of the projects contracted by the firm.

### SOME REPRESENTATIVE PROJECTS

*Acadia University, Wolfville, Nova Scotia.*

- Environmental Science Research Center Botanical Gardens & Campus Meeting Place. New construction including: laboratories, classrooms, library, study rooms and, in particular, a large, beautiful, classical style but state-of-the-art custom designed glass greenhouse. The greenhouse is separated in two parts: science side and public side. Public side has 3 zones for exhibit including a conservatory. Science side has 9 independent zones with radiant water heating, natural ventilation, forced ventilation, supplemental lighting, horizontal and vertical shade curtain, , high pressure fog, custom benching. There are 6 phytoclone compartments equipped with HVAC system (AHU's below greenhouse) and lighting canopies. Every science zone has multiple unassigned sensor jacks allowing the direct plugging into the computer of any conceivable sensor. These sensors can then be assigned to turn on or off several computer controlled power outlets or simply can be monitored for data accumulation. Project ended in 2003.

*Wichita Falls, Texas*

- River Bend Nature Works. Structural and mechanical design for a 7350 sq. ft. glass covered terrarium, 60 ft high with a free span of 70 ft. Natural ventilation, forced air heating and cooling, high pressure fog and shading system. Interpretive ramp inside. On going project.

*Government of Canada  
Agriculture & Agri-Food Canada*

- CIDA-Agriculture Canada, Seed Potato Laboratory, Setif, Algeria. 1,500 square meter 2 zone propagation and research greenhouse complex with mechanical room and an independent small laboratory. Greenhouse is a "Venlo" type structure with glass glazing, radiant heating and forced ventilation with high pressure fog, with supplementary lighting, shade curtains and custom benching. 5 cooperation missions with The Canadian Embassy to assist Algerian finding the appropriate man labor on site and supply them technical assistance to build the greenhouse complex. Project ended in 2000.

- Fredericton, New Brunswick Research Centre. Renovation and modernization of an existing old greenhouse and construction of 3 new independent greenhouses, total of 3750 sq. ft. with a new head house.

Greenhouses are equipped with radiant heating, natural and forced ventilation, supplemental lighting, shade system, high pressure fog and custom benching. Project ended in 1998.

- Saskatoon research Station, Saskatoon, Saskatchewan. 38 000 sq. ft. 27 zones under 5 independent "A" frame type greenhouses with double polycarbonate on wall and tempered glass on roof. Equipped with radiant heating, natural and forced ventilation, supplemental lighting on canopy, shade system, pad cooling, custom benching and automated irrigation with fertilization station. Project ended in 1998.

*Commission Scolaire Vallée de la Matapédia*

- Centre de Formatin et d'Extension en Foresterie, Causapscal, Québec. 2 teaching and research zones under a standard venlo type structure glass covered. Equipped with radiant heating, natural and forced ventilation, supplemental lighting, shade system, high pressure fog, custom benching and automated Aqua-boom irrigation. Project ended in 1994.

*Corporation d'Hébergement du Québec*

- Centre d'accueil Cap Saint-Ignace, Québec. A new 36 rooms old people's home mechanical and electrical work. Weekly inspections, commissioning. Project ended in 1994
- Foyer Saint-Fabien-de-Panet, Québec. Renovation of an old people's home mechanical and electrical work. Weekly inspections, commissioning. Project ended in 1993.

OTHER REALIZATIONS

Design and manufacturing of custom built research tools:

- Mesocosm bench: bench scale tide simulator.
- Rhyzotron boxes: plant root research equipment.
- Water bed: aquatic plant research equipment.
- Hydroponic benches: mini hydroponic benches destined to research.