

## SAE CSC2005 SNOWMOBILE DESCRIPTION FORM

Please fill out the following form and return it to the registration desk. *Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete).* Please answer all questions accurately, as the responses you supply will be used to summarize your entry in the SAE CSC2005 Summary Technical Paper.

**Team Name** University of Alberta **Team Number:** 15

### Engine

**Engine Cycle (2-stroke, 4-stroke, rotary, or electric)** 2-stroke

**Engine Displacement (cc or electric motor size)** 600 cc

**Engine Manufacturer** Polaris

**Engine Modifications** redesigned cylinders and heads

**Compression Ratio** 11.5:1

**Turbocharged? Supercharged?** supercharger

**Engine Management System** Motec

**Fuel Delivery (Carburetors, EFI, DI):** cylinder fuel injection

**Fuel Pump Pressure** 60 psi

### Emission Control

**Air/Fuel Ratio Chosen (lean, stoich?)** \_\_\_\_\_

**Catalyst? Type?** two way catalyst

**Secondary Air Injection?** no

**Exhaust Gas Recirculation?** no

**Other** supercharger acts in part as air injection

### Noise Control

**Describe Strategy** automotive muffler, engine sound damping material, fewer hood vents

### Performance Maintenance

**Describe Strategy** very broad torque curve from supercharger, cylinder port configuration, custom tuned single pipe

### Other Unique Features of Your Snowmobile

**Describe Strategy** carbon fiber hood, light-weight seat, more power from ECU and exhaust system