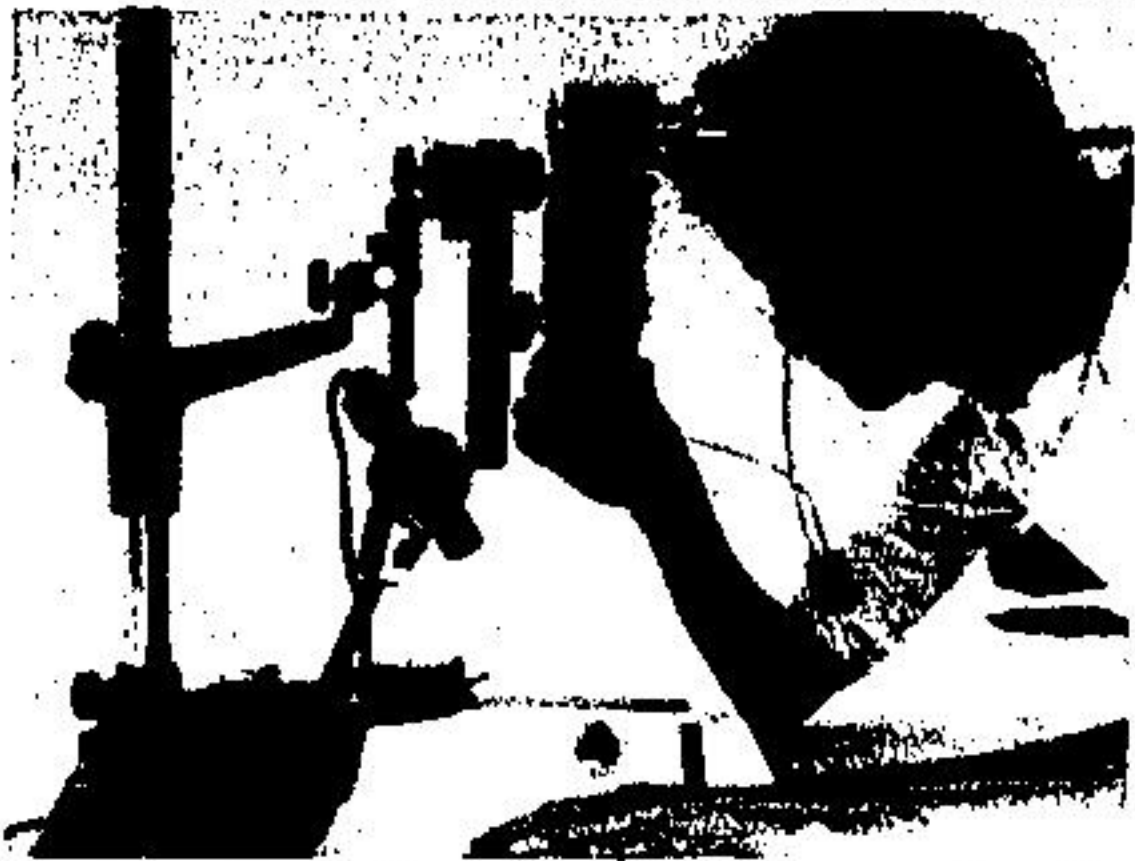


# Sheridan students combine design with technical knowhow

Design, development and creativity have always been essential elements in the progress of technological industries. Recognizing this fact, Sheridan College has placed new emphasis on these factors in its technology programs.

"The basic concept we're working on," said Ralph Beaty, chairman of the Technology Division, "is the exploration of new principles." This plan has produced three new two-year programs in the subject areas of Creative Design, Photographic Science and Engineering Drafting.

"We can't teach students to be creative, but we can teach them to release their own creativity through various development processes. We want to show students how to step outside the restrictive bounds of traditional



Sheridan Technology students step outside the restrictive bounds of traditional technological thinking.

technological thinking; how to use the established methods and procedures to develop new techniques and practices," said Beaty.

Students will study the basic principles and theory of design, combined with an introduction to modern science and design computations, principles of mechanics and properties of materials.

In addition to these studies, technology students will apply their ideas in electives with Creative Design programs such as: Interior Design, Landscape Design, Stained Glass Design, Sound Systems Electronics, Magic Arts and other fields where innovative thinking is welcomed.

Students graduating from these programs will meet a growing demand for people who have the technical knowhow to develop and refine ideas into practical applications; people whose experience and training include an appreciation of the economic and sociological aspects of design. "A design is no good," comments Beaty, "if it is not socially acceptable and economically sound."

Students will be encouraged to venture into unexplored or undeveloped aspects of their specialties and to let their imaginations run freely within the guidelines of the programs.

In the area of Photographic Sciences, for example, students will work with the latest equipment, from TV studios and transmission units to the ordinary office copier, extending the scope and variety of functions that can be performed with these machines. And, through these activities, broaden their own abilities and enhance their employment opportunities.

Also, by emphasizing design in Engineering Drafting through the new architectural elective, students will have more versatility and a broader scope in applying design principles to specific problems.



Model Building—elective in Creative Design.

# Society calls for quality control

The Canadian way of life, increasingly urbane and sophisticated, is increasingly dependent on the quality of manufactured goods.

A defective fuse can paralyze a household; and the smallest flaw in a five-cent length of wire can wipe Hockey Night in Canada right off the airwaves.

That these things don't happen is largely due to the quality control specialists in our industries—the "Quality People".

Sheridan's Quality Control program is designed to supply these essential people to industry; people who know how to design and plan production control systems, people who know how to anticipate problems and prevent them.

This unusual one-year program begins with a range of basic courses including English, mathematics, industrial psychology and quality control principles—to give students the "tools of their trade".

The basic program is supplemented by two electives: Mechanical and Food Processing, that lead stu-

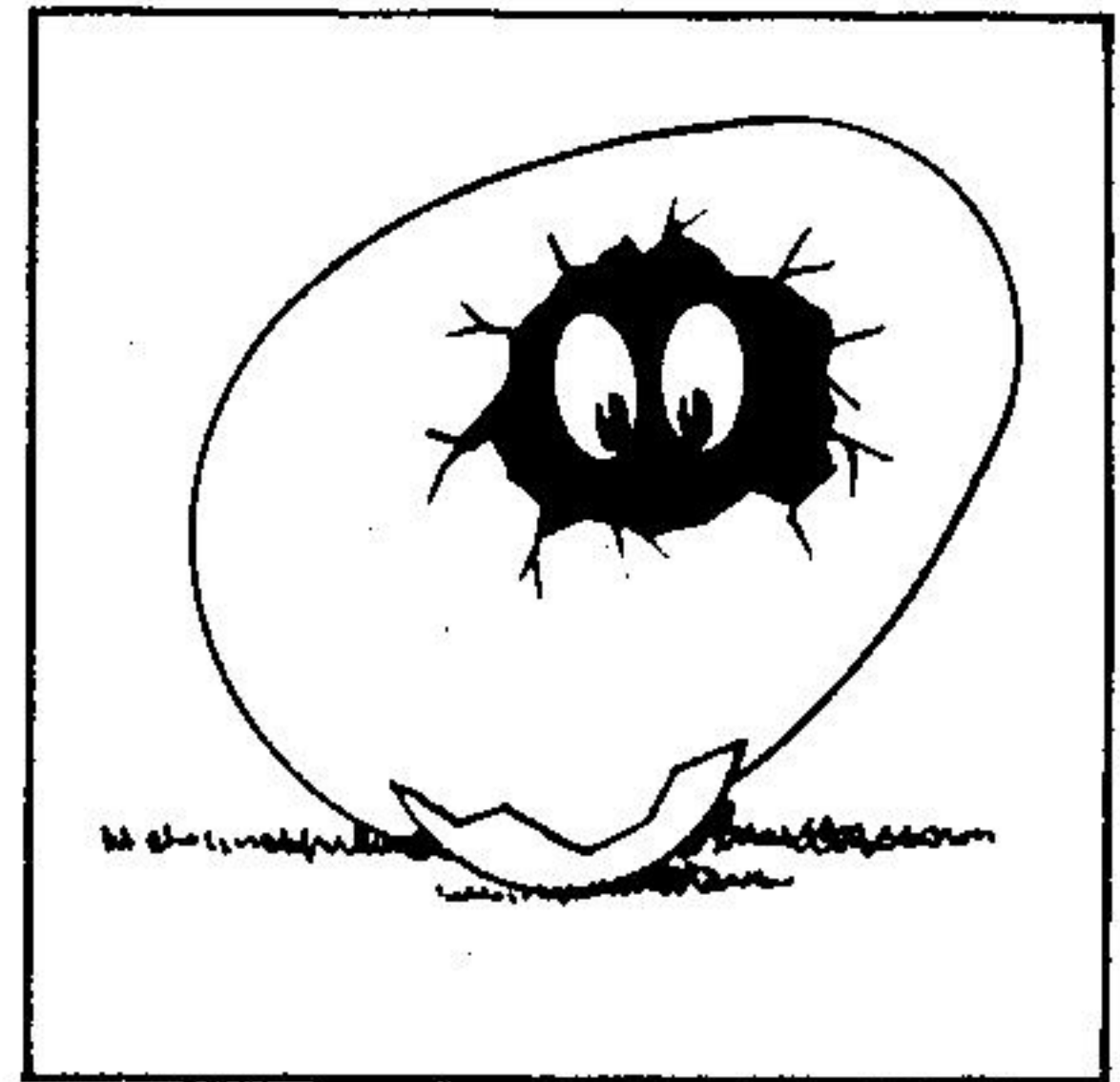
dents into the two major areas of industrial quality control.

In the Mechanical elective, students explore the technologies of testing, measuring and manufacturing as well as the sciences of mechanics, hydraulics and engineering drafting.

Students in the Food Processing elective learn about food chemistry, microbiology, sanitation, handling, packaging and processing technology. They also study the laws and specifications that assure Canadians of consistently reliable food products.

Throughout the entire program, creativity is emphasized and students are encouraged to seek better ways of achieving superlative quality control.

This is a rapidly expanding profession, and offers exciting challenges to its members. If you'd like to take a closer look at Sheridan's Quality Control program, contact the Technology Division at the Brampton Campus.



3  
Sheridan  
Style



Design contestant Howard Coultrup, an Engineering Technology student, works on design assembly.

# Technology students learn through design contest

Sheridan's first year technology students had an opportunity to demonstrate their ingenuity and put their ideas to the test recently in a design contest as part of an orientation course called Technology Forum.

Designed to challenge the student's imagination and to promote interaction within groups, the objective of the contest was to design and build "a self-propelled vehicle to move a styrofoam coffee cup the furthest distance (as the crow flies)".

Only materials from a supplied kit could be used including items such as two sheets of bristol board, one box of paper clips, a dozen rubber bands, a mousetrap, scotch tape, six pencils, one package of pipe cleaners, etc. Approximately 1½ hours were given for designing and building the vehicles after which time, they were judged on the basis of distance travelled from a standing start, using only the items in the kit for propulsion. Entries included sliding and wheeled surface vehicles, sliding vehicles on an inclined plane, jet propelled vehicles and air-borne vehicles.

One ingenious entry attempted to propel the styrofoam cup by means of the jet action from a deflating balloon. The vehicle travelled less than six inches and dropped to the ground.

The winner was a very functional airplane, fabricated from bristol board and propelled by 12 rubberbands. Its range was limited only by the size of the room.

Through exercises such as this, Sheridan's technology students go beyond the traditional approaches to science and engineering. "Not only did the contest provide an excellent learning experience, but students became totally involved as shown by the level of activity in the project and the competition between the groups," said Ralph Beaty, Chairman of Technology.

For further information on any of the program areas, contact Ralph Beaty at the Brampton Campus of Sheridan College, 98 Church St. East, or call 459-7381, 364-7491 or 826-4360.



Copper animals produced by Mechanical Technician students.

## Production Projects

A group of Mechanical Technology students at the Brampton Campus have formed a couple of companies to design, manufacture and sell products of their choice. The whole operation is supervised by instructor Bud Vale.

One group of seven students produced three-dimensional animals out of 16-gauge copper sheeting. The moose, polar bear, black bear, walrus, and buffalo are now being marketed through gift and handicraft shops at about \$15 per animal.

Another company of six students designed and built a stand for competition motor bikes that have no attached kick stands. Made out of square steel tubing, adjustable to all sizes of bikes, it serves for easy repair and maintenance. The market for these stands appears to be excellent according to a student research survey.

These projects allow students a free hand at designing and creating. Faculty members Mr. Vale, Tom Pettingill and Dave Olive, director of the Technology Division, act as Board of Directors — as advisors only.