Applying a Little Mussel Power

By **Dan Danyluk**

One of the first major undertakings of the new Unit 0 organization was the piping replacement for the Pickering-B sodium hypochlorite system. This project, originally estimated to take about eight weeks, was completed on March 22, two weeks ahead of schedule and just in time for the start of the zebra mussel chlorination season. All of the original PVC plastic piping has now been replaced with Kynar lined steel pipe.

The sodium hypochlorite system is used to inject 12% Javex bleach solution into our low and high pressure service water systems during the months of April to October. The bleach kills zebra mussels which attach themselves to surfaces of pipes and heat exchangers; if left alone, the build up of mussels can result in flow blockages and excessive corrosion. In addition, the injection of sodium hypochlorite reduces bio-fouling in heat exchangers which enhances reliability and performance, especially during the summer.

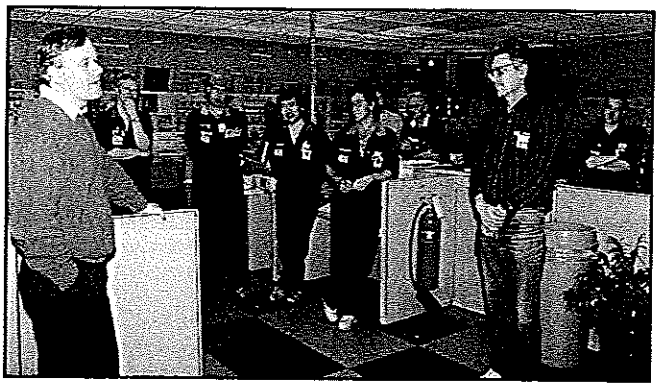
Zebra mussel infestation at Pickering has slowly been increasing over the last few years; however, as yet, we do not suffer from severe attack as do some of our fossil-fired plants. We believe this to be in part due to the sodium hypochlorite systems which were installed several years ago. Our systems have operated well, but there have been numerous problems with PVC piping becoming brittle, cracking and resulting in leaks. In an effort to improve the system's reliability, it was decided to replace the PVC with new Kynar lined piping. This piping has superior mechanical and chemical properties and should last 20 years. With the replacement program complete, we are looking forward to many leak free years of system operation.

Some of the U0 Team Members to make this project a success (l-r) Kathy Charette, Mike Schmidt, Dan Danyluk, Dennis Plese, Bob Stillaway and John MacKay.

The team of Unit 0 staff involved are to be commended for their efforts and dedication to make this job a real success, in particular: **Joe Sandilands**, **Mike Driscoll**, **Bob Stillaway**, **Derrick Ingram**, **John MacKay**, **Dennis Plese**, **Phil Robinson**, **Mario Carvalho**, **Jim Blight**, **Kathy Charette**, and **Richard Felton** and **Doug Daye** of Sarnia Piping Specialties Ltd., **Mike Schmidt** of Planning, and **Ray Dion** and his scaffold building crew.

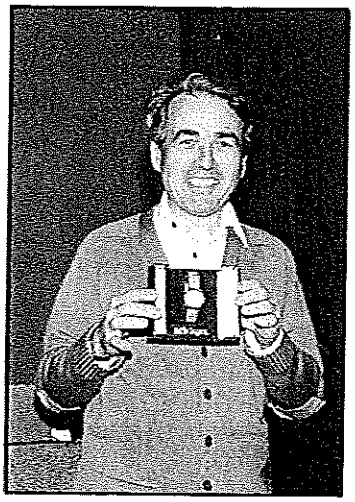
Congratulations on a job well done.

3 Year Safety Award



Terry Watt, SMS Mechanical, accepted the 3 Year Safety award on behalf of 'B' Crew from **Pierre Charlebois**, Director.

25 Years Service



Steve Jonjev, Technical Supervisor - Fuel Handling was surprised with a presentation of a gold watch for his service with Ontario Hydro. Congratulations Steve!