



COMPUTER RECORDS -- Information from the field labs is transmitted over telephone lines to this computer which types out the message on the typewriter at the left. Officer in charge of the Water Quality Division, Vincent Dohaney explains the system to Clare Gaudet of Hollywood Drive, Moncton, part of a teen tour by the YMCA.

computers

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Anything out of the ordinary in the water is immediately available to the scientist in the lab by reading the typed report which can be called for at any time manually, or on a 30 minute, 60 minute or two hour frequency, if operated automatically. If all parameters are normal and the trailer laboratory is operating under regular patterns, the typewriter prints a series of "O" across the page under each monitor designation. But once a "1" appears under any monitor, it signifies that this particular parameter is not in operation or has undergone a drastic change and is recording the difficulty.

It is then up to humans to decide what further course of action is taken. Presently the seven stations along the St. John River are monitoring six areas of water quality which include conductivity, acidity-alkalinity balance (PH), temperature, dissolved oxygen, chloride, and turbidity.

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Any change in the six areas results in an automatic sampling which is examined in detail in the regional laboratory here. This process may arise interesting legal implications in the future if the electronic surveillance

device is used in securing evidence for pollution charges and trials against industrial polluters.

Can a computer prove continuous legal possession of the evidence (polluted water) until the trial date?

Every report made by the computer is dated and timed to the second by the electronic brain.

Until now the legal implications suggested would be ludicrous, but the development of the electronic surveillance device in operation continuously has changed the concept of unobserved pollution of water resources.

Fisheries officials were careful to play down the pollution angle of the system, stressing that the information being compiled was for judging water quality as a resource for an area.

"Resource management is the primary aim of this study and I hesitate to include a discussion of pollution when talking about this monitoring system," said the officer-in-charge of the water authority division, federal department of fisheries, Vincent Dohaney.

The monitoring system does have its drawbacks since it does not operate in winter. Officials say that a contract has been assigned for winterizing three locations which include Presquille, Meduxnekeag Rivers and East Florenceville.

The possibilities for the system are endless as the present automated monitors can handle up to 20 field lab locations and four more parameters could be added to the tray for analysis.

Due to the compact nature of the computer, the office space presently used by the department could easily handle enough systems for the entire Atlantic area.

The electronic brain used in the head computer requires an area in dimension to two car batteries placed side by side. Small printed and solid state circuits, minuscule in size, serve as the main components of the electronic monitoring brain.

"This whole system would not fit in this large room had it been necessary to use tubes instead of the transistorized circuits," said Doug Cullen, a water resource officer with the federal department of fisheries.

He explains that the parameters controlled by the computer when measuring a condition such as the PH level in water is sensitive to any substance which changes the natural balance.

Sewage introduced into the river would result in the loss of oxygen, if the loss was great enough then the parameter would send the message to the computer which records the sudden loss in oxygen.

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Electronic surveillance of the nation's waterways raises some interesting points but none better than the psychological effect say the scientists.

"If an intentional polluter knows that our small device is present in the water near his location monitoring continuously, he will think twice about where he dumps his disposal waste, even though our interests may be primarily in regards to water quality," said Mr. Cullen.

"Our greatest threat is in always being there."

Fresh blood for SRC ?

Fresh blood with years of experience in the realm of political experience with the operation of the Student's Representative Council are offering SRC elections to be held on February 10.

Several of the early candidates who have filed with the SRC office by Wednesday of this week, have spent considerable time involved with campus organizations related with the SRC.

Highlighting the candidates who are re-offering their services to the student government are Stephen S. MacFarlane, retiring SRC President and retiring Finance

Chairman Daniel D. Fenety. Both Fenety and MacFarlane were part of this year's executive and clearly familiar with the problems the SRC must cope with in the next year.

Fenety will offer for Comptroller while MacFarlane is running for Arts representative. At this point Robert Elgee is opposing Fenety's position for Comptroller.

Arts representative positions of which there are five open will be contested by retiring editor of the Brunswickan, David Jonah, and first year student Joseph Paul-Etienne Theriault. First to offer for Science

representative is Susan Morrison a second year student.

Peter Ashton who is finishing a half term with the University Senate and is offering as Business Representative.

His experience on the Senate should offer the incoming president several opportunities for legislation arising from the Senate.

Two candidates have offered for the position of Validictorian Don Olmstead, retiring SRC Vice-President and Dave Jonah are the only two candidates to offer for this Senior Class position, as of yet.

Closing date for the sub-

mission of nominations is January 27.

There are some unofficial candidates for the positions available, such as Robert Poore, Yearbook Editor, campus social co-ordinator and Chairman of the Winter Carnival Committee.

He is removed to be offering for President as is Ron Gaudet of the Young Socialists. Gaudet has been an active member of the campus group and was an defeated Vice-President Candidate in the fall SRC election.

Another rumored SRC representative for the Arts faculty is Peter (Wink) Forbes, who would represent the Law faculty.