

deep space (the sphere) and the Earth's iono-connected by massive nets."

have theorized about processes involved in space since the early time, however, they had data to rely on. Looking at a television screen and trying to see the picture is what Rostoker.

Scientists may have and measure from within the

gative team made up of Canadians plays an in the Viking Project, and operating the records pictures of rom space.

he global, all-seeing lains Rostoker. "We people who are electric fields pre-happening with them they take a measurement those pictures, measurements are meaningful.

This project an undertaking is the auroras.

the Viking satellite the best they could ever picture every 12 seconds. Rostoker. "We get every 20 seconds, and even been able to do

that before."

Viking is also one of the first satellites that enable the operators to command it from Earth. "Most missions that have been sent up in the past have been pre-programmed and you couldn't get at it after that," says Rostoker.

"Let me paint a picture for you. You're on a mountain top in Sweden; there's a room full of scientists all with their own tasks. Everybody is bringing in their data and exchanging it immediately."

This is the tracking station of the satellite where information is immediately exchanged among the international scientific community present. This international distribution of information also makes the Viking Project notable.

While the satellite was developed to answer specific questions about the auroral process, there have been incidental discoveries along the way.

One of those discoveries has meant a conceptual change in the study of auroras.

Scientists deal with sets of equations. They try to apply those equations to constant, unvarying conditions, what they like to call the "steady state." By ignoring occasional variations, they may have more consistent results. The discoveries of the Viking teams eliminate this possibility for those who study auroras.

"The auroras are very dynamic — there is no steady state," says

Rostoker. "The whole auroral region is just filled with waves; they are not just an incidental effect which can be ignored."

"But the most important discovery in my perception deals with the concept of the brilliant auroral displays called substorms," adds Rostoker. In a substorm, of the auroral arcs suddenly get very bright and then become explosively active. Observers see a flash of light blast into their field of vision, and then seem to whip off toward the west at about a kilometer per second. Hence, the name Westward Travelling Surge.

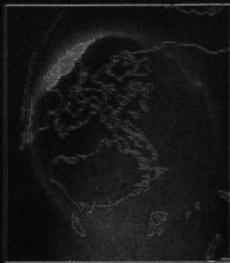
"It turns out they don't travel at all. What you see is not one thing moving, it is a whole series of surges."

Surges may jump back and forth in either an eastern or western direction.

The Canadian imager will be used in a Russian project, Interbol, which will send four satellites into space in 1990 in order to answer the more specific questions that come out of the final analysis of the Viking data.

Despite Viking's discoveries, there are still questions yet to be answered.

"Every once in a while someone makes a discovery which will effectively rewrite the texts," says Rostoker. "Some of those discoveries have already been made using the Viking data, but we expect a lot more will be rewritten when the tale is told."



The full loop of the Northern Lights.

Mathew McClure

Reporter for the Edmonton Journal will give a workshop for all Gateway staff

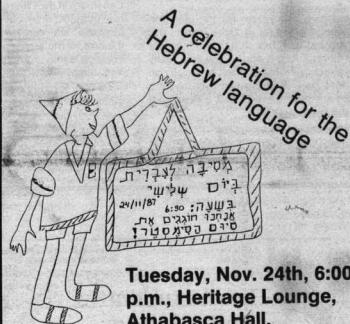
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CODE OF STUDENT BEHAVIOR: CHANGES

The following changes to the Code were recommended for General Faculties Council approval by the GFC Executive Committee on November 16.

1. THAT Section 30.3.5 (Definition of Sexual Harassment) be changed as follows:

Present Wording	Amended Wording
No student shall sexually harass another member of the University Community.	No student shall sexually harass another person.

2. THAT the following statement be reintroduced to the Code immediately preceding Section 30.3, which lists offenses:

Any of the following activities or conduct or attempts thereof or participation therein insofar as they relate to student affairs shall constitute an offense and be punishable.

3. THAT the required number of calendar days in which a hearing must be convened under the "dangerous circumstances provisions" be changed from 14 days to 25 days.