## CAUSING EARTHQUAKES?

By John Stillwell

Here's another thing to add to the list of ways we're harming the only planet we have to live on.

Underground nuclear tests may be causing an increase in the number of earthquakes and volcanoes.

Dr. Gary Whiteford, a geography professor in UNB's Faculty of Education, has assembled data on the relationship between underground nuclear explosions and earthquakes over the past thirty-five years. He finds a "frighteningly high coincidence" but admits that so far, there is no causal theory explaining the

Dr. Whiteford, who spent a sabbatical year at NASA-Ames working in remote sensing, advocates close public awareness of all underground nuclear

with nuclear war", com- measuring up to 5 on the dustrial and economic pur-mented Dr. Whiteford during Richter. poses.

a recent interview. "I'm not hopeful that we can save ourselves from ourselves."

Since 1945, there have been an estimated 1754 nuclear tests, primarily by the U.S., U.S.S.R. and France. In 1987, 46 nuclear tests were conducted.

In many of these cases, earthquakes followed within days or even hours of these tests. Although it is to be expected that some earthquakes would follow nuclear tests, given that they both occur, other experiments indicate that triggering earthquakes is easier than we think.

Experiments conducted in the U.S. found that small earthquakes can be turned on and off by certain types of oil production.

Denver dumped toxic wastes their tests. The U.S.S.R. also down a 2 1/2 mile deep well. claims at some nuclear explo-"We've gone underground This produced earthquakes sions are for agricultural, in-

The U.S. Geological Service and Chevron USA conducted further investigation and found that they could actually turn earthquakes on and off simply by pumping water into the ground and then stopping.

Dr. Whiteford is concerned not only with the immediate effects of nuclear tests, but with the cumulative effects as well: "We may be headed for an era of an killer megaearthquake," he commented. The recent earthquakes in China and the Himalayas closely followed nuclear tests.

Of the three major testers, only the U.S. announces their tests, primarily because the explosions at the Nevada test sites produce tremors in Las Vegas. The Soviet Union usually admits after the fact, while The U.S. Army Arsenal in France rarely acknowledges

this article shows some earth- about the relationship. quakes that followed nuclear nuclear tests.

The table that accompanies have a reason to be concerned

Individuals and groups in tests. It should not be inferred the U.S., as well as in other from this table that all test pro- parts of the world, are becomduce earthquakes, since the ing increasingly concerned data could be arranged to over not only the relationships show that quakes produce between the test and earthquakes, but over the possibility However, it is possible that that tests also contribute to an this table shows that we may increase in volcanic activity.



Don Legge, Account Manager, IBM

## NUCLEAR TESTS

Friday, Nov. 25

Happy Hour All Night Long



Band Extravaganza

Saturday Nov. 26

"Hip Deep" AKA. Redeye, Scott Myers, Joe Fahey

Starting at 3 pm

Upcoming Thursday Nov. 24

"Wackatune"

## AWARDS FOR EXCELLENCE IN TEACHING

Chris Penney, winner of IBM PS12

THE AWARD is dedicated to the late Dr. Allan P. Stuart and is to honour persons who are representative of outstanding teaching achievement at the University of New Brunswick.

**ELIGIBILITY**: A candidate must teach at one 3 credit-hour undergraduate course during each term of the academic year at the University. It is not expected that the nominees should excel in all criteria listed on the nomination form, but they should be qualified in most categories. Individuals are not eligible if they have been previous recipients of the Award.

**NOMINATION**: Candidates for the Award are proposed and recommended to the Senate Committee on Quality of Teaching by students and faculity of the University.

The basic information required is contianed on the Nomination Forms, which are available from the University Secretary, Fredericton; the Dean of Faculty, Saint John; the Student Council, Saint John or Fredericton; and Faculty offices. No one may nominate or support more than one candidate.

Send nominations to the University Secretary, Room 110, Old Arts building, UNB Fredericton, or to the Dean of Faculty, UNB Saint John.

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