Volcanic eruptions affect the weather

By Bill Gifford

Two eruptions of the volcano El Chichon in southern Mexico caused one observer to refer to this New England climate a winter, according to Professor Reginald E. Newell of the Department of Meteorology and Physical Oceanography.

The eruptions occurred on March 28 and April 5, said Newell. "A considerable amount of material, mostly dust and ash, was thrown into the stratosphere. Over time, this will work into subtropics. The main effect this will have is to alter the solar radiation in the upper atmosphere."

Newell explained the earth's major source of warmth in the winter is heat which accumulates in the oceans during the summer. "If you don't store up much in the summer, it isn't there in the winter. You're essentially taking the climate in an absorb incident radiation in the upper atmosphere."

TARA will be ranked first in the nation in electrical engineering.

Mayor tries to rename river

By Tony Zamparini

Cambridge mayor Alfred E. Vellucci asked the city council last week to change the name of the Charles River.

The council discussed the mayor's proposal to rename the Charles the Kwa Na Ha Nee River at its August 2 meeting, but took no action on the plan.

City councilors did not oppose the name change, but some questioned the city's authority to rename the river, since it borders several other cities and towns.

Kwa Na Ha Nee means "site of the waters, great motherland, place of birth of all native first people and first nations; the turtle island," said Fox Tree, a native American supporter of the change, speaking before the council.

Fox Tree represented Native First People, a group planning a weekend festival in late September, celebrating Americas Indian culture. The festival should be held on the Charles banks, Vellucci said.

Vellucci will Fox Tree will try to arrange a meeting to discuss the name change with Boston Mayor Kevin H. White, the Cambridge mayor said this week.

"Now that I can say [Kwa Na Ha Nee]," Vellucci told the council, "I think it sounds nicer than Charles River."

"I don't want to change the name," Vellucci explained this week. "I think the Indians want to change it."

Fox Tree named Vellucci an honorary Indian chief to recognize the mayor's support for the name change.

The mayor used his new Indian name, Chief Little Velvet, several times during the council meeting. He chose the name from a translation of his Italian surname.

Several of the councilors raised doubts about the feasibility of Native First People's September festival.

The city would welcome the event, said councilor David Sullivan '74, but "a lot of logistical problems could arise. It is going to cost a lot of money to host a tribal festival."

The council asked the city manager to study the group's plans and report its cost to the city.

Vellucci led a successful campaign earlier this year to change the name of Boylston Street in Harvard Square to John F. Kennedy Street. The change took effect May 29.

EECS head irked by Tech article

By Barry S. Sarman

An article revealed details of a self-evaluation report drafted by the Department of Electrical Engineering and Computer Science (EECS) that has department officials upset.

The story, published in the July 30 issue of The Tech, said EECS gave the report to the newspaper. "We did not," said Pal Cvejie '67, head Joel Moses '67.

Moses claimed the story may have given readers the impression EECS gave the report to the newspaper. "If we did not," he said.

The Tech's account on the EECS computer system was closed within four days of the article's appearance. "This strikes me as a purely punitive action," said Richard Salz '63, project director for The Tech's new electronic newsroom system.

Moses said he suspected The Tech obtained the report through the EECS computer account, but denied any connection between the EECS report and the closing of the account.

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"I thought the account would be reopened," Moses said. He said he played no part in the decision to close the account.

"What really annoys me," Salz said, "is that they never approached us with their suspicion."

"The account would have been closed at the end of the summer."

The Charles River will be renamed the Kwa Na Ha Nee River, if Cambridge Mayor Alfred E. Vellucci has his way.

Congress acts to cut draft evaders' fin. aid

By Tony Zamparini

Both houses of the US Congress have passed measures barring college students who fail to register for the draft from receiving federal student aid. The House and Senate passed different versions of the aid reauthorization bills, including the minor differences between the student aid restriction amendments.

Both proposals would affect students who fail to register for the Department of Education financial aid programs: Guaranteed Student Loans, Pell Grants, and Federal Stafford Loans. (Placemark turn in page 4)

The total cost of the center is expected to reach $25 million. Private industry in the US, Japan and Europe is projected to provide a large part of the amount. The National Endowment for the Arts donated $250,000. Construction will resume late this month or early September, Barrett said.

Physical Plant is also renovating the Nabisco Building on Main Street to house a Plasma Fusion Center project. The multi-million dollar project TARA will be moved there from its present location adjacent to the Bitter National Magnet Laboratory.

Renovations to the basement, first floor, and third floor of the Sloan Building (E-32) will be completed by next March, according to Barrett. The work will provide additional space for offices and computer facilities.
Plastic Jesus on the Capitol steps

Washington, DC, is America's mecca for tourists, particularly in spring and summertime. Swarms of Legionnaires, Scouts, and students prepare to converge on the Monument, as the District is jammed by tourists to see our historic sights. The United States Senate voted 69 to 31 in favor of a Constitutional amendment requiring a balanced federal budget. If this astonishing act of political courage is matched by two thirds of the House of Representatives, then state legislators across the land will have the opportunity to enshrine in our Constitution the absolute cure for all of our economic woes: a mandate for a balanced federal budget.

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I wish I could help, Cinderella... but some clowns have given all my powers back to the state...

Unhappy? So amend!

Earlier this month, with the full support of President Reagan, the United States Senate voted 69 to 31 in favor of a Constitutional amendment requiring a balanced federal budget. If this astonishing act of political courage is matched by two thirds of the House of Representatives, then state legislators across the land will have the opportunity to enshrine in our Constitution the absolute cure for all of our economic woes: a mandate for a balanced federal budget.

What is singularly striking about this wonderful amendment is its simplicity. Just imagine—if this amendment were part of our Constitutional machinery, we would not have the projected deficits of $500 billion dollars over the next three years. We would make the difficult political choices necessary to reduce deficits. We would have a balanced budget!

Now that the Senate has put our government on the way toward solving our budgetary dilemma, we should set our sights on finding constitutional remedies for the other difficult problems we now face.

Take unemployment, for example. Last month, the unemployment rate reached 9.8 percent, its highest level since 1981. Some politicians have tried to deal with this important problem by designing policies to stimulate investment, increase productivity, and improve our ability to compete in international markets. Other leaders, including President Reagan, have tried to cut unemployment benefits and to blame the media for exaggerating the significance of this issue. But these approaches overlook the obvious solution: we must adopt a Constitutional amendment requiring that every American be given a job. It would work the same way as does the balanced budget amendment, and its advantages should be evident to every politician up for re-election. But there is no need to stop with a full-employment amendment. This country has a number of difficult problems that need quick, sensible solutions. For years, Americans have been terrorized by an ever-increasing wave of crime. We need to fix this problem. We need to fix it now. We need a Constitutional amendment prohibiting crime. By adopting such an amendment, we could avoid all the tough questions about prisons, the insanity defense, the death penalty, and gun control. Of course, it may be necessary to exempt certain groups, such as Congressmen, from this amendment to gain the support needed for passage. Similarly, to counter the growing Soviet military threat, we could adopt a Constitutional amendment mandating US military superiority. There would be no more need to worry about Soviet expansion. We would ensure peace through strength! Clearly, the possibilities are seemingly endless. It is a shame we did not figure this out sooner. To build a better America, we must design, propose, and ratify Constitutional amendments, and we should start by ratifying an amendment that requires a balanced federal budget.
in the heart of kansas

Vinyl Confessions, by Kansas on CBS Records. Playing time: 40 minutes.

After nearly ten years, Kansas has changed: John Elefante has joined the group and Steve Walsh has left. Their newest album, Vinyl Confessions, is unpredictable and depends on yelling to make a point. The best cut stars a Top 40 feel and then rapidly deteriorates. "Play the Game Tonight," the only track to hit the charts so far, sounds familiar and branches off to become an enjoyable melodi ("Chasing Shadows") possibly the best track of the album, is reminiscent of "Dust in the Wind" and could make a hit. "Chasing Shadows," as a 45, if it becomes available.

Unlike the Kansas portion of the adver- ting promo, the cut chosen for the Heart section, "City's Burning," is one of the poorest on Heart's newest album. There is no possible melody here that the listener can pick up and hum, and constant hummen.-

The song, which is the best track of the album, is reminiscent of "Dust in the Wind" and could make a hit. "Dust in the Wind," as a 45, if it becomes available.

As for the rest of the album, one song opens with a movie-quotemachine, another opens with Elton John-like sound effects — both soon branch off to become an enjoyable melodi ("Chasing Shadows") possibly the best track of the album, is reminiscent of "Dust in the Wind" and could make a hit. "Chasing Shadows," as a 45, if it becomes available.

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Mississippi

Jackson, Kenny Loggins, Dionne Warwick, and Steve Miller. The super-star conglomeration shows in the final cut, "Carry on Wayward Son," which brings us to, but not beyond, Kansas' limitations as a singer.

The repetitious disco of the past, ("Love to Love You") has been replaced by interesting lyrics, changing rhythm, and a new style. Disco is not dead; it has merely evolved into a new life form.

Interestingly enough, the first cut from the album to be released as a single is a "Love Is in Control," the most early-disco-like track on the record. After last year, the cut had hit number 27 in five weeks. Now, uptop, hopefully, will be "My Mystery of Love." The quality of the pressing is very high; lyrics are included. At the very least, you can check your speaker's frequency response — have a good time!

Stuart Gidlow
**World**

New ceasefire called in Middle East — Israel resumed the fighting in Lebanon yesterday by bombing targets in Beirut. A new ceasefire, the eleventh in the two-month-old siege, was called in the evening. President Reagan called Israeli Prime Minister Begin to express his outrage and declared that "this ceasefire must last." These developments come just as it seemed the peace mission of special US envoy Philip Habib would succeed. Talks were halted, but are expected to resume today.

**Nation**

Henry Fonda dies at age of 77 — Henry Fonda, father of Jane and Peter Fonda, died yesterday in Los Angeles after a long fight with heart disease. His wife, Shirley, said Fonda was peaceful and conscious up to the very end. Jimmy Stewart proclaimed, "I have lost my best friend."

**Local**

Cambridge challenges Somerville to ballgame — The mayors of Cambridge and Somerville will meet in a "softball-at-softball" match today at Donnelly Field in Cambridge. The mayors will be reinforced by city police and employees in the match, which is being billed as "The Softball Game of the Year." Mayor Velucci of Cambridge has promised Mayor Brune of Somerville that he can have Cambridge if he wins. Brune, confident of victory, has already printed up press releases announcing "Mayor Brune to annex Cambridge."

**Weather**

Today will be cool with the high about 66. There will be mixed clouds and sunshine with a slight chance of rain. Tonight the low will be from 54 to 58 with partial clouds. Tomorrow will be mostly sunny with the high in the 70s.

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**Professor says volcanic dust changes climate**

(Continued from page 1)

"This was a very high cloud of dust. It will take about a year for it to degenerate into sulfates," Newell said. Dust and ash from the volcano have covered the earth from the equator to about 30° North latitude at an altitude of about 16 kilometers. In this band scientists have noticed the greatest decrease in radiation, although the effect slowly decreases to the north and south.

Boston is north of the band of debris. The greatest visual effects of the dust and ash are a red sky just before sunrise and just after sunset. "These effects were well noted in England," Newell said. "The debris can stay up for many years and if it does I would certainly expect some kind of temperature change." Newell noted that, if it is impossible to say right now how the dust will affect the climate, "the effect will be felt by the energy exchange between the earth and the sun." Newell compared the eruption of El Chichon to the Mount St. Helens eruption in 1980 to that of Mount Agung on Bali in 1963. Mount Agung exploded with a force of about two megatons, and Mount St. Helens with about half a megaton; the force with which El Chichon erupted has not yet been determined.

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**Non-registrants’ loans, student aid threatened**

(Continued from page 1)

Educational Opportunity Grants, the College Work-Study Program, National Direct Student Loans, and State Student Incentive Grants. Opponents argued that the measures are discriminatory, because students who do not need financial aid would not be affected, that men already face criminal penalties if they fail to register, and that the legislation does not account for men with moral or religious objections to military service.

Both houses approved the amendments by large majorities.