

Military communication towers raised despite protests

By DON WATERS
Associated Press Writer

WASHINGTON, D.C. — A network of spindly, 299-foot towers intended to help military communications survive atomic attack have been erected across the country, dogged by attacks by anti-nuclear activists and some local officials.

The target is the Ground Wave Emergency Network, or GWEN, whose first 56 towers the Air Force hopes to have in place and ready for testing by the end of this year or early 1987.

Opponents have centered on the argument that a tower intended to help keep the military command structure viable after a nuclear strike would make an attractive target for a Soviet ballistic missile and thus imperil nearby residents.

Those battling the \$800 million, multi-year program, also said it gives the illusion that a protracted nuclear war can be fought, indeed won.

The nearly two-year effort to thwart the program has been especially strong in activist academic communities on the East and West coasts which the Air Force, with the guidance of a computer model, chose as hosts for the towers.

In Amherst, Mass., home of the University of Massachusetts and Amherst College,

GWEN does bring nuclear war into people's backyards and so they have a right to know.

—Lois Barber, co-director of The GWEN Project

volunteers created The GWEN Project and are sharing information with opposition groups in about 30 communities nationwide. They are countering on public pressure to force the Air Force to look elsewhere.

In Eugene, Ore., home of the University of Oregon, the No-GWEN Alliance, joined by the Local Control and Community Council and others, is battling in court to prevent erection of a tower four miles north of the city.

U.S. District Judge James Burns on Aug. 14 rejected arguments that the Air Force should be required to submit an environmental impact statement detailing the effects a nuclear attack would have on the area.

However, he stayed construction of the Eugene tower, along with one in Butte County, Calif., until Sept. 2 so the opponents could appeal his ruling.

As officials explain it, GWEN is an element of deterrence, the cornerstone of U.S. nuclear strategy for most of the atomic age.

An updated assessment issued to state

officials in April 1985 "removed all references to nuclear war and the words 'surviving and enduring a nuclear war,'" thus masking the program's purpose, she said.

Barker, an art teacher who also has been active in the freeze movement and other anti-nuclear activities, said opponents also have been upset by a lack of information from the Air Force.

GWEN "removes the option that an enemy might consider attacking us by paralyzing our command and control systems" and destroying our ability to fight back, said Richard C. McElroy, manager for the Air Force's Electronic Systems Division at Hanscom Air Force Base, Mass.

But Lois Barber, co-director of The GWEN Project in Amherst, maintains that the Pentagon changed its rationale as it became clear about and opposition to the program grew.

In a telephone interview, Barber said that in a 1982 nationwide environmental impact study and in congressional testimony since, defense officials have spoken of GWEN network as surviving and enduring after a nuclear strike.

The Air Force had to scrap some of its original sites, including one in Klamath Falls, Ore., that was a nesting ground for bald eagles, a protected species. Sites in Castine and Sherman Mills, Maine, also were deemed unsuitable for environmental reasons and new locations in the area are being chosen with the aid of state officials, McElroy said.

Barker said no towers have been built in Massachusetts, but the Air Force is considering a federally owned land in Barre, 35 miles to the east, as well as in the Amherst area.

GWEN is only one element of a \$40 billion plan developed by the Reagan administration in 1981 to improve nuclear command, control and communications.

Scientists say an airburst of a nuclear warhead creates a phenomenon known as electromagnetic pulse that disrupts radio communication channels in the upper atmosphere.

GWEN is an intended remedy. It is to be a chain of thin, 299-foot towers, each with 100 330-foot-long copper wires radiating like spokes one foot underground to relay messages at low frequency (150 to 175 kilohertz) and thus escape the pulse effects.

A radio receiver-transmitter and an emergency diesel generator, housed in enclosures designed to protect against the pulse, accompany each tower.

state news briefs

Pgh. schools to promote chastity

PITTSBURGH (AP) — Chastity and how to "say no" will be cornerstones of any new sex education curriculum in Pittsburgh's public schools, says school Superintendent Richard C. Wallace.

Wallace said many sex education programs are aimed at females, but a new program "would zero in on the role of males as well."

Wallace, in a news conference Monday, said the board of education should take "an active and aggressive role" in sex education by telling kids how to say no, promoting chastity and helping them develop a positive self-image.

He said recommendations to adopt a new curriculum in sex education, possibly including school health clinics, will be proposed to the board at its Sept. 24 meeting.

Wallace said the board is divided on the issue of clinics and he said he didn't know if clinics, if established, would dispense birth control devices or advice.

Conservative Pa. reps rated

WASHINGTON, D.C. (AP) — Republicans Robert Walker and Don Ritter had the most conservative records among Pennsylvania congressmen on 19 votes last year, the American Conservative Union said yesterday.

Ritter, R-Lancaster, and Walker, R-Lancaster, voted with the conservative legislative interest group 90 percent of the time. They were followed by Republican Bud Shuster of Bradford County with 81 percent and Republican Richard Schulze of Chester County with 71 percent.

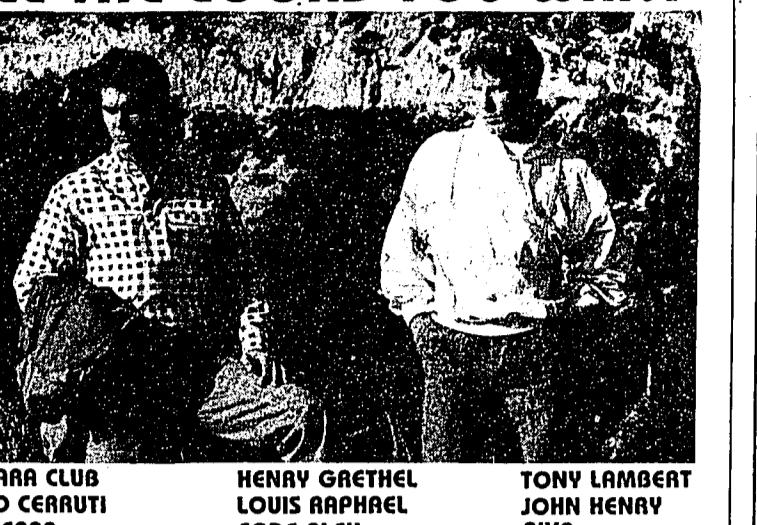
The average in the Democratic-controlled House was 42.

The ACU based its tally on a wide range of issues it deemed particularly important to conservatives. The issues included funding of the MX missile, South African sanctions, the Gramm-Rudman budget-balancing legislation and funding for the "Star Wars" defense initiative.

Rated least conservative with scores of "O" were Reps. William Coyne, D-Pittsburgh, and William Gray, D-Philadelphia.

Among senators, Pennsylvania Republican Arlen Specter got a 36 and his GOP colleague John Heinz a 55. The Senate average was 49, with Republicans averaging 72.

ALL THE LOOKS YOU WANT



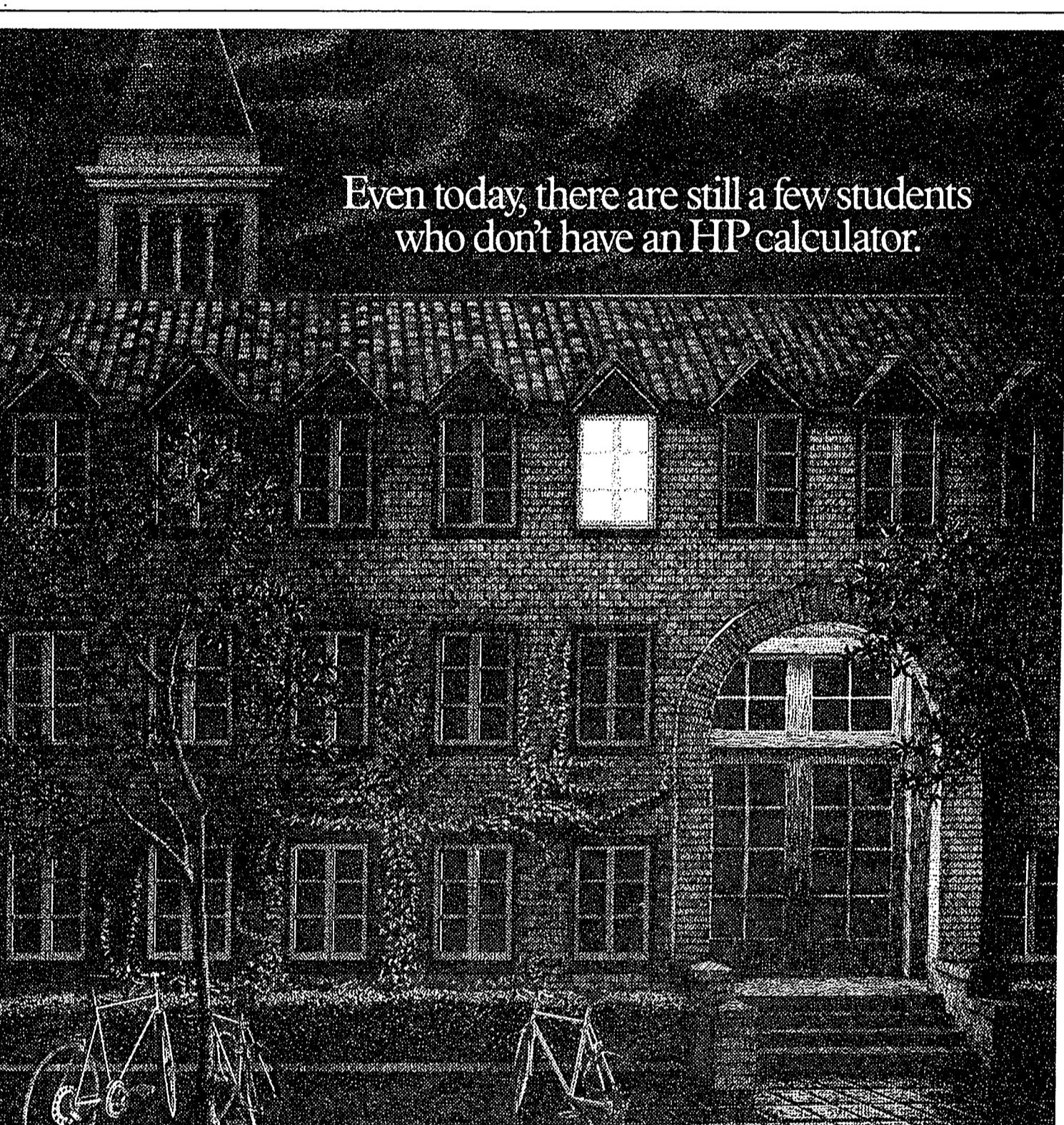
MICHAEL'S CLOTHING CO.
FRASER ST. & CALDER WAY
238-4050

ATTENTION!
PHOTOGRAPHIC CLASSES
GET YOUR CLASS SUPPLIES
AT

THE CAMERA SHOP
311 W. BEAVER AVE.
237-5326

FILM, PAPER, TANKS, REELS
AND OTHER SUPPLIES

Even today, there are still a few students who don't have an HP calculator.



nation news briefs

Prime rate hits 9-year low

NEW YORK (AP) — The nation's major banks cut their prime lending rate to 7.5 percent yesterday, pushing the key interest rate to its lowest level in nine years in response to last week's reduction in the discount rate.

But some analysts question how much the economy will respond to further declines in short-term interest rates, and note that an improved balance of trade remains the key to any economic upturn.

The Federal Reserve Board on Aug. 20 cut the discount rate, the interest it charges on loans to financial institutions, to 5.5 percent from 6.5 percent. It also cut the rate this year. The Fed reduced the key lending rate, which the central bank uses to help signal its intentions for a broad spectrum of credit costs.

In response to the discount rate cut, San Francisco-based Wells Fargo Bank, the nation's 10th-largest, cut its prime rate to 7.5 percent from 8 percent late in the business day Monday.

The rest of the nation's biggest banks followed Wells Fargo's lead yesterday, pushing the prime to its lowest level since October 1977. Although the discount rate cut does not directly affect consumer loans such as mortgages and credit card rates, they reflect general trends in overall rates.

Already this year, interest rates on mortgages and many other types of credit have fallen to their lowest levels in nine years.

Many economists believe the Fed's latest rate cut, which was followed by the banks, was aimed at sparking the domestic economy by further depressing the foreign exchange value of the dollar to increase overseas demand for U.S. products.

School sex feud heats up

WARWICK, R.I. (AP) — Parents of four girls accused last year of beating up boys during recess sued Penthouse for \$7.5 million yesterday, saying it libeled their children by publishing a photo of them under a sexually suggestive headline.

A picture of the children published in the adult magazine's April issue, with the headline "Little Amazons Attack Boys," also cast the girls and their parents in false light, the suit alleges.

A Penthouse spokesman refused to comment on the suit, referring to the girls as "regularly aggressive and insatiable females." Although that description did not refer directly to the photo of the Oakland Beach Elementary School students, attorney Stephen Fortunato argued the girls and their parents were defamed.

"Penthouse makes it appear that these children and their parents somehow subscribe to Penthouse philosophies regarding women, morals and sexual mores generally, which is untrue," Fortunato said.

David Myerson, Penthouse executive vice president and chief executive officer, said the suit was "groundless and meritless."

Burning the midnight oil may be necessary. Burning the 2:00 or 3:00 or 4:00 AM oil is absurd.

Especially when an HP calculator gives you want—in time to get a good night's sleep.

For instance, our HP-15C Professional Scientific Calculator has more built-in advanced math and statistical power than any other calculator. Our HP-41 Advanced Scientific Calculators have even more potential.

That's because there are better than 2500 software packages available for them—more than for any other calculator.

There's even a special plug-in software package (we call it the Advantage Module) that's designed to handle the specific problems an engineering student has to solve in his, or her, course work.

No wonder professionals in engineering and the physical sciences widely regard HP calculators as the best you can get.

So check one out. Then, when your mother calls to ask if you're getting enough sleep, you won't have to lie.

By the way, if you want more information, just give us a call at 800-FOR-HPPC. Ask for Dept. 658C.

HEWLETT PACKARD

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars. We do mobile installations. Experienced Work at Reasonable Rates.
Installation Options Available.

PG12602

HP-15C Professional Scientific Calculator \$34.95
HP-41 Advanced Scientific Calculator \$52.95
PROFESSIONAL INSTALLATION
We install car stereo systems in New and Used Cars