



Eight students in Pampa Independent School District received recognition at the High Plains Regional Science Fair on Saturday. Back row from left are Jason Etheredge, Mark Norton, Katie Green and Michael Gandy. Front row from left are Jared Hoover, Richard Williams, Angela Rodriguez and Michelle Sy.

Eight Pampa students place at High Plains Science Fair

Pampa Independent School District was well represented at the High Plains Regional Science Fair in Amarillo on Saturday.

Eight students received ribbons and recognition for their projects.

In the high school division, Michelle Sy, daughter of Dr. and Mrs. Alberto Sy, was awarded first place in environmental science and also received a special award from the Marines.

Sy's project was consisted of a study on ways to remove oil from feathers and other substances and focused on the clean-up from oil spills.

Mark Norton, the son of Mr. and Mrs. Larry Norton, was the recipient of the Army science award. His project was a working model of a solar energy house.

Carla Sharp, a senior at the high school, also participated in the science fair.

From Pampa Middle School, Katie Green, daughter of Mr. and Mrs. Kent Olson, was awarded first place in environmental science. Green's project consisted of determining the effect of acid rain on plants.

Also from the middle school, Angela Rodriguez, daughter of Mr. and Mrs. Domingo Rodriguez, received first-place honors for her entry in the botany division. Rodriguez illustrated the effect of pitch (low and high sounds) on plants.

Other students placing from the middle school were: Michael Gandy, son of Mr. and Mrs. Mike Gandy, who received second place in Earth and space science; Richard Williams, 8th of Mr. and Mrs. Robert Williams, who received third place in physics; and Jason Etheredge, son of Mr. and Mrs. Don Taylor, who received third place in Earth and space science.

The only elementary school student to place from Pampa was Jared Hoover, a fourth-grader at Horace Mann Elementary School. Hoover captured first place in the elementary physics division. He is the son of Dannie and Angie Hoover.

Hoover's project and poster was about the telegraph. He was also awarded a first-place ribbon for his project at the Horace Mann Elementary Science Fair. First place winners at that science fair were invited to participate in the science fair at Amarillo.

Other students from Horace Mann who participated in Saturday's science fair were Andrea Rodriguez, daughter of Domingo and Peggy Rodriguez, and Tabitha Lane, daughter of Kent and Linda Lane.

The science fair was held in Carter Gymnasium at Amarillo College. Other towns with students participating were Friona, Texhoma, Amarillo, Sunray, Borger and Morse.

Minnesota towns outlawing cigarette machines

By MELISSA JORDAN
Associated Press Writer

MINNEAPOLIS (AP) — The first state to ban indoor smoking except for designated areas is now taking the lead nationally in trying to snuff out cigarette machines — or at least keep them out of youngsters' reach.

Since the St. Paul suburb of White Bear Lake passed the state's first ban on cigarette vending machines in October, at least 20 other Minnesota cities have prohibited or restricted the machines.

The restrictions are part of a grass-roots movement for a smoke-free society, said Jean Forster, assistant professor in the University of Minnesota's School of Public Health.

"It's captured the imagination of local communities," she said. "It's something they can do at their level. There are a lot of places watching what's happening in Minnesota."

A measure pending in Congress, sponsored by Rep. Thomas Luken, D-Ohio, would ban cigarette machines in any location accessible to people under 18.

Testimony at a hearing last year cited a National Automatic Merchandising Association report that only 2.5 percent of teen-age smokers

buy their cigarettes from machines.

But advocates of cigarette machine bans say any percentage is significant.

"It may not stop kids from smoking, but it puts another roadblock in the way," said White Bear Lake Mayor Jerry Briggs.

A few other states and communities outside Minnesota have instituted or are considering cigarette machine bans. But Angela Mickel, director of the Tobacco-Free America Legislative Clearinghouse in Washington, D.C., said the local campaigns in Minnesota are the most widespread she's seen.

"Minnesota is looked at as a leader in health advocacy," she said.

In 1975, the state passed the nation's first Clean Indoor Air Act. The law restricting indoor smoking was a model for laws across the country.

White Bear Lake and Bloomington are among at least eight Minnesota cities banning cigarette machines altogether.

Others have enacted softer restrictions. Redwood Falls bans the machines from "public places." Preston restricts them to places licensed to sell liquor. Excelsior requires that machines be under constant supervision by employees.

The local measures were almost nullified last

month when Minnesota lawmakers considered a proposal that would have overridden local restrictions for the sake of consistent statewide regulation.

The bill that passed instead preserves local governments' power to ban the machines while tightening restrictions statewide.

That measure, which awaits Gov. Rudy Perpich's signature, requires electronic locks on machines that a business's employees can activate and requires that the machines be kept where workers can monitor their use.

Walker Merryman, vice president of the Tobacco Institute, a Washington trade association for cigarette manufacturers, said the tobacco industry has taken no position on the matter. "It's an issue that pertains to the vendors," he said.

But he added that the bans are no surprise. "Minnesota has a certain history of being receptive to any anti-smoking initiative," Merryman said.

The vending machine industry argued unsuccessfully before state lawmakers that minors can be protected without a ban.

"We're looking for uniformity," said Tom Briant, lawyer for the Minnesota Coalition for Responsible Vending Sales. "We think it would be in the public interest to regulate it on a statewide basis."

Court denies woman workers' comp

AUSTIN (AP) — A woman's attempt to recover workers' compensation benefits for an injury she received while playing softball at a company picnic was denied by the Texas Supreme Court.

The court refused to consider an appeal by Cindy Annette Mersch of Irving, who had to undergo three corrective surgeries for fractures and ligament damage she suffered in 1986.

Mersch was injured when someone slid into her at the softball game.

Mersch said she was entitled to workers' comp benefits because she would not have been at the North American Mortgage Co. picnic had she not worked for the company. But a state district judge and appeals court in Fort Worth said the softball game was voluntary and refused to allow Mersch to receive benefits.

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Dr. Lynne Thibodeaux,
Texas Extension Service - "Building Closeness & Trust
With Your Teenager"

8:00-8:40: BREAKOUT SESSION #1

1. Jerry Lane - "Active Parenting"
2. Cynthia Schielbel-Knox - "12 Steps to Preparing Your Child to Resist Drugs & Alcohol"
3. Sally Griffith - "Helping Your Child Say No to Sex"
4. J. Jones, B. Evans, J. Middlebrooks - "Planning for Your Child's Success after High School-College"

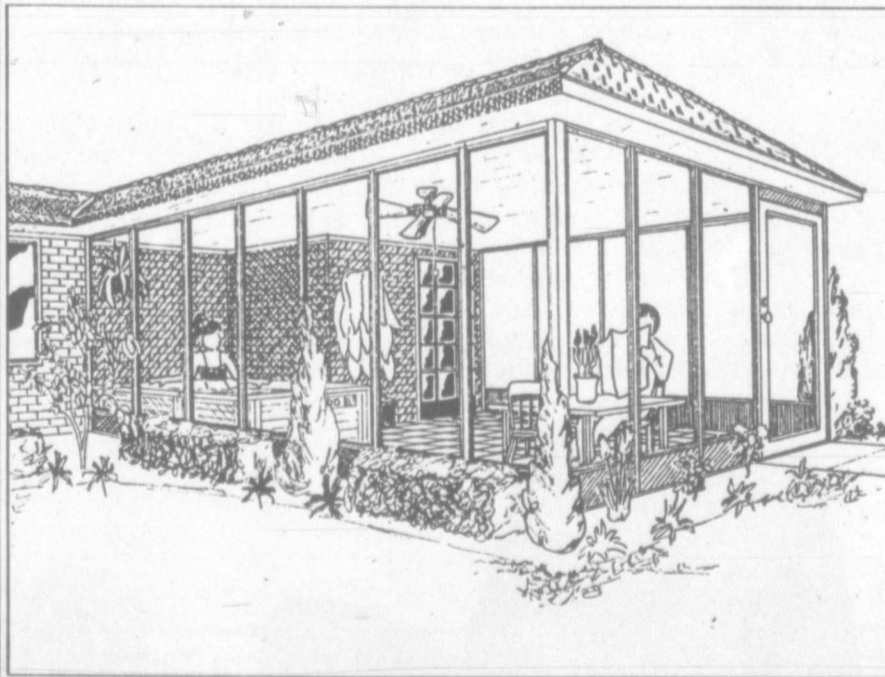
8:50-9:30 BREAKOUT SESSION #2

1. Lynne Thibodeaux - More of "Closeness and Trust With Your Teenager"
2. Sgt. David Wilkenson - "Drugs in Pampa"
3. Donna Brauchi & Mae Williams - "Family Communication"
4. J. Jones, B. Evans, J. Middlebrooks - "Planning for your Child's Success after High School-College Selection and Financial Aid"

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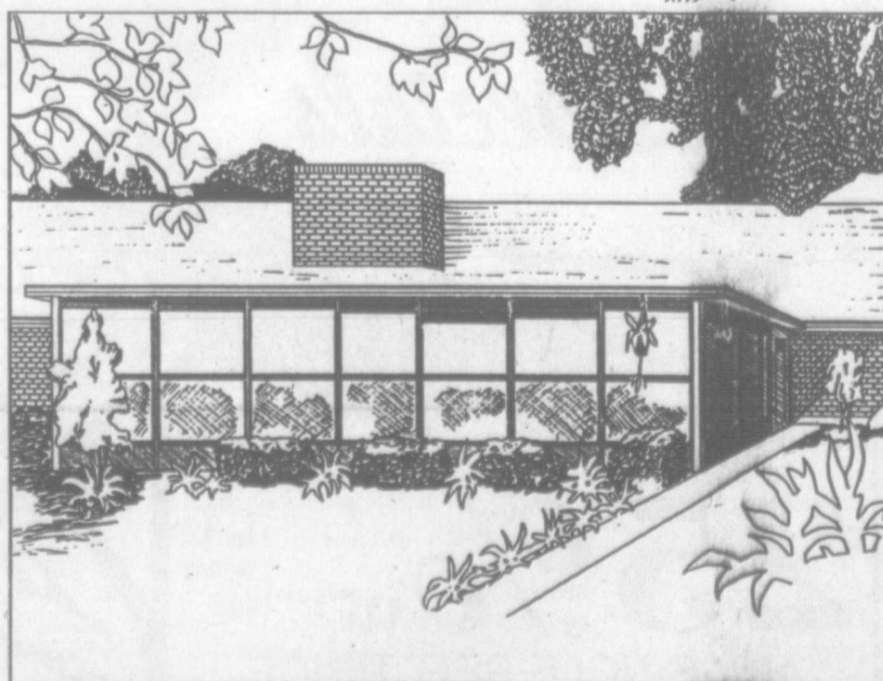
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(AP Laserphoto)

American Michael Polley from Chicago and his 5-year-old daughter Abigail look at an artistic segment of the Berlin Wall now on display in the Berlin Museum in the western part of the city.

Texas lags behind nation in per capita income

By JENNIFER DIXON
Associated Press Writer

WASHINGTON (AP) — Texans' incomes lagged behind the national average throughout most of the past decade, according to a Census Bureau study that found the earnings picture bleakest in isolated stretches along the Rio Grande.

The report also found that Texas has the poorest county in the country — Starr County in the Rio Grande Valley, and the least-populated county in the country — Little Loving County on the Pecos River in West Texas.

Statewide, the Census Bureau said per capita income in Texas grew at a rate of 47.8 percent between 1979 and 1987, while nationally, per capita incomes grew by 63.4 percent.

Texans had a per capita income of \$10,645 in 1987, compared with earnings of \$7,203 in 1979. Nationally, per capita income grew to \$11,923 in 1987 from \$7,295 in 1979.

Texans' earnings put them in 34th place nationally in 1987, a 10-

place drop from 24th in 1979, the Census Bureau said.

The earnings picture was especially bleak for three counties in South Texas, which the Census Bureau said were among the 10 poorest nationwide in 1987.

In Starr County, residents had a meager per capita income of \$3,464. The nation's fourth-poorest county was also along the Rio Grande in South Texas: Maverick County, with per capita earnings in 1987 of \$4,269. The nation's seventh-poorest county was neighboring Zavala County, with a per capita income of \$4,646.

The state's richest county with a population over 100 was Sherman, in the Texas Panhandle, with a per capita income of \$16,260, earning it a 35th-place ranking nationally.

Loving County actually had a higher per capita income, \$23,500, but with an estimated population of just 100 in July 1988, statisticians find the sample is so small that "we don't really have any confidence in it," said George Patterson, an economic statistician for the

Census Bureau.

John Bender, a spokesman for the Texas Comptroller's Office, said the slow growth in per capita income statewide stems from two major economic shocks that hit the state in the 1980s — the first, in 1982-83, affecting the oil industry in Houston and along the Gulf Coast; the second in 1986-87, which affected oil and real estate across the state.

"What happened in Texas in the mid-1980s was the loss of high-wage jobs the areas of oil and gas, oil and gas related manufacturing such as oilfield equipment and supplies, and construction jobs," Bender said.

While the Texas economy began to rebound in 1988 and the state has regained most of its lost jobs, employment gains in recent years have been in lower-paying sectors such as services and government, Bender said.

But economic projections by the Comptroller's Office show the Texas economy should out-perform the national economy in the 1990s, Bender said.

Computer projections, he said, "show the Texas population will grow faster than the national rate, and employment and personal income should exceed the national rates."

"Texas is in for a period of steady, stable growth because the economy today is much more diverse than it was in the early 1980s. It's no longer as dependent on the energy industry as it was, and because of that diversification, Texas will probably not see the kind of boom and bust cycles that it has had in the past," Bender said.

Two especially promising areas include the border with Mexico and the so-called I-35 corridor between San Antonio and Waco, which is expected to have one of the fastest job-growth rates in the 1990s.

Along the border, jobs and personal income are rising faster than in most other parts of the state, due in part to the growth in maquiladoras — or twin plants, improved trade with Mexico, and a dramatic increase in retail trade and Mexican citizens cross the border to do more of their shopping, Bender said.

School Land Board lease sale brings \$12.5 million

AUSTIN (AP) — The oil and gas sale by the Texas School Land Board on Tuesday leased more than 70,000 acres of state lands for more than \$12.5 million, the most acreage of any lease sale since 1985, according to Land Commissioner Garry Mauro.

The spring sale was up from the October lease sale, which netted \$7.6 million, and up from April 1989, which brought in \$11.8 million.

"Significant gas discoveries in Texas bays and a new marketing

plan have combined to spark energy industry interest in state tracts, especially those tracts known primarily for gas exploration," Mauro said Tuesday.

The most active bidder was Mobil Producing, Texas and New Mexico, which bid \$1.84 million on 22 tracts containing 11,195 acres. The highest bid was \$455,609 for a 640-acre tract in the Gulf of Mexico by Chevron USA, Inc.

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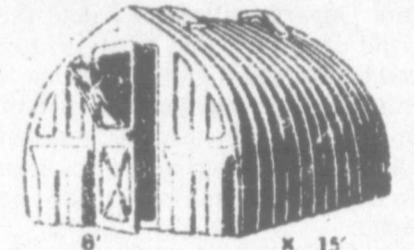
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Police charge student with murder of car salesman

HOUSTON (AP) — A 22-year-old Brown University student was charged with capital murder Tuesday in connection with the Jan. 20 abduction and slaying of a Houston car salesman.

Paresh Kuman Patel remained in the Harris County Jail without bond late Tuesday in connection with the murder of Roy McIntyre, 46, said Police Sgt. Brad Randolph.

McIntyre disappeared from the Mike Calvert Toyota dealership near the Astrodome after he took the keys to a demonstration car for a customer test drive at 6:35 p.m.

Patel was arrested in February in South Hackensack, N.J., after he was found driving the car. Patel, whose parents live in Houston, told police he bought the car from someone in College Station.

But Randolph said witnesses told authorities they had seen Patel driving the car as early as Jan. 21. Other witnesses reported seeing Patel with the car in New York and New Jersey, he said.

McIntyre's body remained missing until March 25 when relatives and more than 300 other volunteers searched a swampy area behind warehouses near the dealership. A nephew recovered the body that had been shot in the head.

Authorities said Tuesday that they found a pistol matching the caliber of bullets found on the body when the demonstration car was recovered. Preliminary ballistic tests showed a match with the gun, police said.

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Transylvania's mixed ethnic heritage creates political hardships

By ALISON SMALE
Associated Press Writer

CLUJ-NAPOCA, Romania (AP) - This Transylvanian city has four names, which trace its ethnic and political history.

To the Hungarians who ruled for centuries, it is Kolozsvár. Germans, who built neat villages all around, called it Klausenburg. To the Romanians who run it now, it is Cluj.

The fourth name, Cluj-Napoca, incorporates the city's supposed Latin name. It is the only one found on signposts and on maps of the western region. But hardly anyone uses it in everyday speech.

Nicolae Ceausescu, the Communist dictator overthrown and executed in December, imposed the hyphenated hybrid in 1966 as part of his attempt to prove Romania had the strongest claim to Transylvania.

Ceausescu's policies of destroying tradition and fanning Romanian nationalism left a complex legacy in a region where, for centuries, three nationalities have farmed, built and battled, made peace and fought again.

After a brief period of shared elation when he was deposed, the approximately 5 million Romanians and 2 million Hungarians in Transylvania remain deeply divided.

For ethnic Hungarians in Transylvania, which borders Hungary, the new freedom means trying to regain such fundamental rights as education in their own language.

Hungarian-language schools existed for 400 years in Kolozsvár. Ceausescu closed the last two in 1984.

In nearby Tirgu Mures, the medical school was predominantly Hungarian for centuries. A strike last month by ethnic Hungarian students, who demanded lectures in their own language, provoked a violent Romanian reaction.

At least six people were reported killed and 300 injured in ethnic rioting that pitted ethnic Romanians in the city against ethnic Hungarians.

Romanians have not forgotten the excesses of Hungarian rule in the 18th and 19th centuries, or the brief return to Transylvania of Hungarian fascists during

World War II.

Traditions of tolerance that accompanied the ancient enmity have all but disappeared in an urban landscape of drab houses and dirty factories. Villages preserved for centuries as badges of national pride have fallen into neglect.

"There is a very thin layer" of Romanian intellectuals "with whom we have common aims to re-enter Europe," said Eva Gimesyi, a philology professor at Cluj University.

She said most ethnic Romanians are "ignorant of Hungarian language and culture, discontent and ... lacking in political culture."

Many Romanians instinctively distrust the ethnic Hungarians, whose case is weakened by nationalist sentiment inside Hungary itself.

In Hungary, people remember the loss of Transylvania and other territories as punishment for being on the losing side in World War I.

The emotional attachment to "Erdely" - Hungarian for Transylvania - and Ceausescu's harassment of ethnic Hungarians prompted Hungary, before the revolu-

tion, to lead international condemnation of a Warsaw Pact ally.

In 1988, Hungary took the unprecedented step of opening its borders to refugees from Romania.

Gimesyi's own heritage - one grandmother ethnic German and the other ethnic Romanian - illustrates the delicate web of integration spun in old Transylvania.

One major change wrought on the region was the emigration of the German minority that, for centuries, acted as a kind of buffer between the Hungarians and Romanians.

In the 1930s, about 600,000 Germans lived in Transylvania. There were 380,000 in 1966, and now the number is just over 200,000.

Emigration of ethnic Germans averaged about 12,000 a year under Ceausescu, who made West German pay hard currency for each one.

The bright, painted houses the Germans leave behind either fall into ruin or are taken by a fast-growing Gypsy population that adds a new element to Transylvania's ethnic mix.

Wind erosion threatens crop lands

By JENNIFER DIXON
Associated Press Writer

WASHINGTON (AP) - Wind erosion damaged more than 1 million acres of crop and rangeland across the Texas Plains this winter and another 3.7 million acres is in a condition to blow away, according to the U.S. Department of Agriculture.

A Texas Department of Agriculture Department official said the wind erosion is due partly to dry conditions, and if global warming is indeed occurring the loss of soil could be a sign the Chihuahuan Desert is creeping north and east from Mexico and deeper into the state.

"It hurts," said Bob King, director of the TDA office of natural resources.

"It creates dust storms, gives allergy problems to people in Dallas, and is eroding off the organic life of the soil as well - that's the real cost to the farmer.

"It means having to put in more fertilizer to produce the same yields and ultimately ... it may be part of a long-term trend," King said.

King said the erosion "means

the overall productivity of those areas could eventually go down measurably. Ultimately, it has to affect the productivity of those farmlands."

Farmers and ranchers, however, are not the only ones affected, King said.

The dust is blown into some of the state's metropolitan areas, irritating some residents' eyes and lungs.

Worse, however, is that the dust attaches to volatile organic compounds, such as unburned fuel, and those compounds, including cancer-causing substances, then tend to get further into the lungs than by themselves, King said.

According to USDA, wind erosion damaged 1.15 million acres of land in Texas between November and February, a slight increase from the 1.05 million acres that were damaged during the same period a year earlier.

Across the Great Plains, USDA said 4.93 million acres were damaged by wind erosion this year, compared with nearly 4.7 million a year ago.

Only in the 1954-55 season was

land damage higher for the Great Plains states for the November-February period, said Manly Wilder, associate chief of the USDA's soil conservation service.

USDA said land reported in a condition to blow is nearly 20.2 million acres, the third-highest on record, with Texas reporting 3.7 million acres.

Low soil moisture and limited snow cover have been the most prominent factors contributing to "this hazardous condition," USDA said.

Joe Moore, conservation agronomist for the Soil Conservation Service in Temple, said he believes overall wind erosion for the season, which continues through May, will ultimately be less in Texas compared to last year.

"We had more rain, we had better cover, so the total damage is going to be a little less than last year," Moore said.

"Last year it was so dry we didn't grow any small grain (like wheat) in West Texas; that left the soil in a real good shape to blow. This year, we have had a little rain to get the small grain up this spring," Moore said.

Man pleads out on drug tax law

GEORGETOWN (AP) - An Austin man agreed to pay two \$5,000 fines, accept 10 years' probation for possession of cocaine and accept a 10-year prison sentence for possession of marijuana in exchange for the state's promise not to prosecute him for tax evasion under a new law.

Larry Dockwiler is scheduled for an April 12 court appearance on the various charges.

Assistant District Attorney John Bradley said that under the plea bargain, the tax evasion charge will be dropped.

Dockwiler, 33, was said to have been the first Texan charged with tax evasion under the state's new drug tax law.

The state comptroller's office said it would continue civil action to recover a \$40,000 drug tax bill it claims Dockwiler owes.

After 180 days in the Texas prison system, Dockwiler may apply for "shock probation," Bradley said.

Dockwiler could have faced an additional two to 10 years in prison and up to a \$5,000 fine if he had been convicted of tax evasion.

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Today's Crossword Puzzle

The World Almanac® Crossword Puzzle

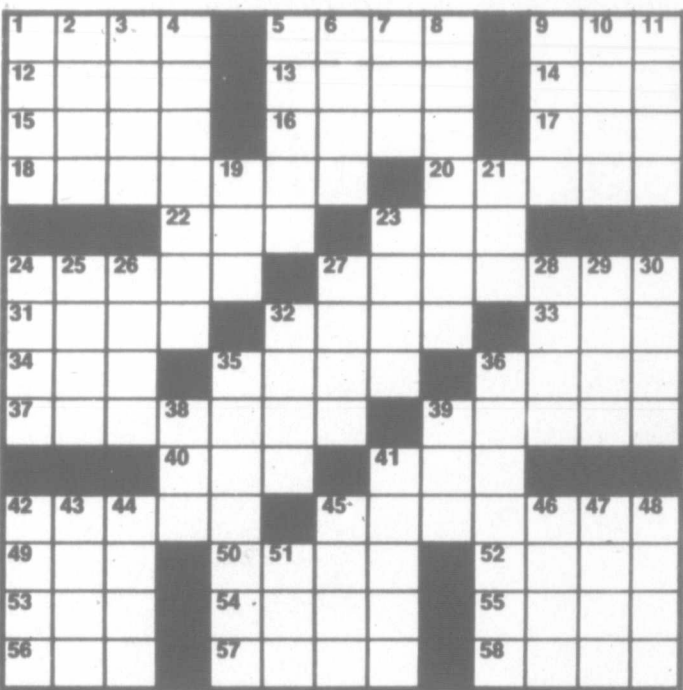
ACROSS

- 1 Smooth-spoken
- 5 Sullen
- 9 Cunning
- 12 Peasant
- 13 Ancient writing
- 14 Beverage
- 15 Of hearing organs
- 16 Protection
- 17 Timber tree
- 18 Calms
- 20 Hits with palm
- 22 Naval abbr.
- 23 — Paulo
- 24 In itself (2 wds.)
- 27 Advise
- 31 Dissipated man
- 32 Merriment
- 33 Actress — Lyon
- 34 Western hemisphere

Answer to Previous Puzzle

ITBE IYSY RAE
SARK SARI ELL
ALIE ACAPULCO
KEG EYE LYON
AGA TILE
TODATE SEXIER
ITOR SILD SOO
ETO ISEE SINS
SONATA TEENSY
SAYS SAG
ITEA ERS LYE
AMENABLE TAOS
GAL ISLE ASKS
ONS TASK USEE

- 3 In the same place (abbr.)
- 4 Since
- 5 Traffic-light color
- 6 Carries with difficulty
- 7 Half of bi
- 8 Note
- 9 Colonnade
- 10 Jump
- 11 Beasts of burden
- 19 Mao — tung
- 21 Timber
- 23 Hard fat
- 24 Experts
- 25 Pertaining to dawn
- 26 Trick
- 27 Skidded
- 28 Jacob's twin
- 29 Petitions
- 30 T of TV
- 32 Author Zane
- 35 Held
- 36 Decorate
- 38 Superlative suffix
- 39 Play on words
- 41 Terrific
- 42 Attention-getting sound
- 43 Fencing sword
- 44 Glut
- 45 Dry
- 46 Virginia willow
- 47 Engrave
- 48 Church court
- 51 — de Janeiro



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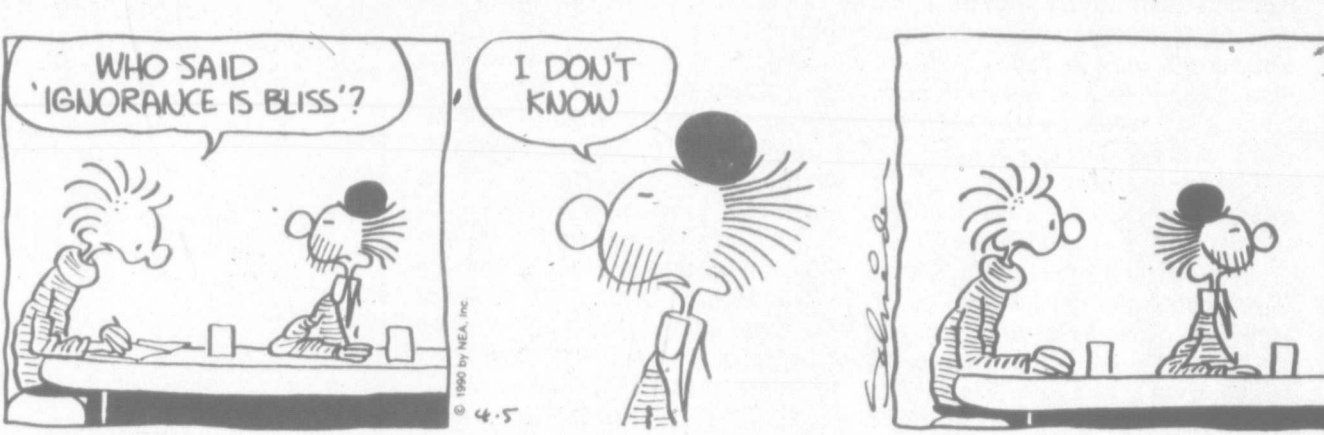
GEECH



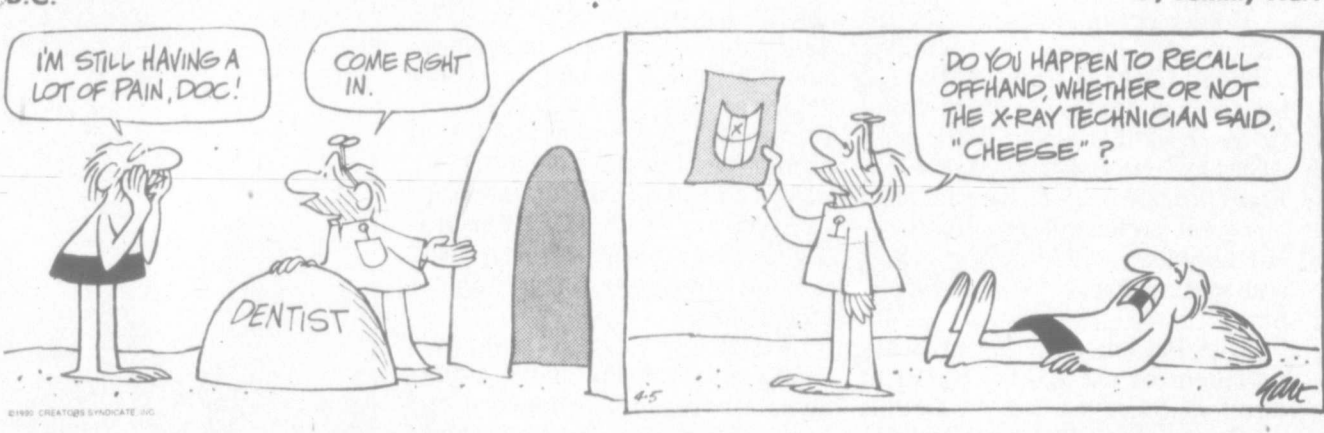
THE WIZARD OF ID



EK & MEK



B.C.



Astro-Graph

by bernice bede osol
ARIES (March 21-April 19) Discard your present procedures if you're being stymied by delays. Try to implement fresh approaches today, because your resourcefulness can help you circumvent the roadblocks. Get a jump on life by understanding the influences which are governing you in the year ahead. Send for your Astro-Graph predictions today by mailing \$1.25 to Astro-Graph, c/o this newspaper, P.O. Box 91428, Cleveland, OH 44101-3428. Be sure to state your zodiac sign.
TAURUS (April 20-May 20) A spur-of-the-moment invitation might be extended to you today that could turn into something rather interesting. Consider it, even if you have a previous engagement.
GEMINI (May 21-June 20) Unexpected changes are possible today that could enable you to finalize a situation which has been extremely hard to tie down. Move swiftly if you spot an opening.
CANCER (June 21-July 22) If at all possible, limit your involvements today to those of a mental nature rather than physical ones. Your mind will be working better than your muscles.
LEO (July 23-Aug. 22) Your financial trends look rather encouraging at this time and there is a chance you might do something noteworthy today that can either make or save you money.
VIRGO (Aug. 23-Sept. 22) A pleasant surprise could be in store for you socially today. Take advantage of it immediately, because this particular type of opportunity does not present itself too frequently.
LIBRA (Sept. 23-Oct. 23) Your best ideas are likely to come to you today when you're off in some quiet place alone free from distracting, outside influences. Try this technique if you need fresh thoughts.
SCORPIO (Oct. 24-Nov. 22) Conditions in general look hopeful for you at this time. Maintain an optimistic outlook, even if it appears you are temporarily stuck in a rut. If a change occurs, it will be sudden.
SAGITTARIUS (Nov. 23-Dec. 21) Career and finances could be your two most fortunate areas today. Use your ingenuity and resourcefulness to advance your interests in both venues.
CAPRICORN (Dec. 22-Jan. 19) You'll have your own special techniques for handling things today that should work out to your advantage. Use them regardless of how unusual they may appear to others.
AQUARIUS (Jan. 20-Feb. 19) There's a chance you may get involved in a commercial arrangement at this time that won't be conducted along conventional lines. It'll be the uniqueness of this endeavor that could make profitable.
PISCES (Feb. 20-March 20) Today some unusual benefits may be derived from a partnership arrangement you'll have with an associate with whom you are not usually aligned.

MARVIN



By Tom Armstrong



By Dave Graue

MARMADUKE



By Brad Anderson

KIT N' CARLYLE

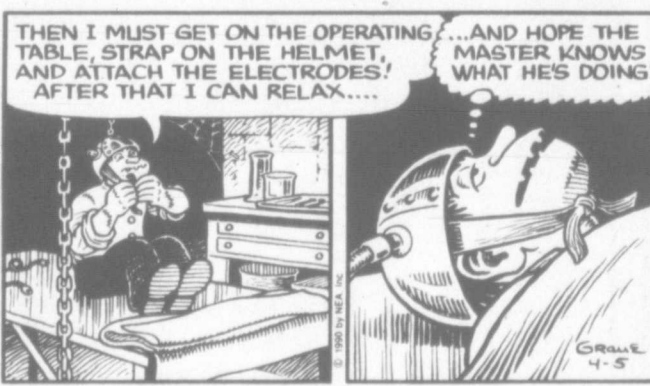


By Larry Wright

ALLEY OOP



By Bruce Beattie



By Bill Keane

WINTHROP

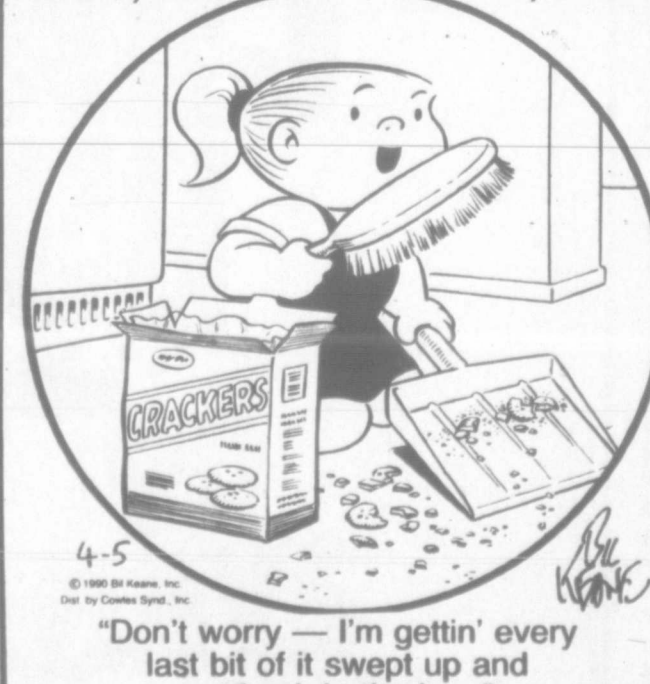


By Dick Cavalli

SNAFU



By Art Sansom



By Charles M. Schultz

CALVIN AND HOBBS



By Bill Watterson

THE BORN LOSER



By Charles M. Schultz

FRANK AND ERNEST



By Bob Thaves

PEANUTS



By Charles M. Schultz

GARFIELD



By Jim Davis

Nuclear physics lab to explore subatomic world

By **BILL BASKERVILL**
Associated Press Writer

NEWPORT NEWS, Va. (AP) — A 4 billion-volt beam of electrons traveling at the speed of light will streak into the recesses of the atom, seeking the infinitesimal components of protons and neutrons.

The Continuous Electron Beam Accelerator Facility, a \$265 million nuclear physics laboratory taking shape on 200 acres in this southeastern Virginia city, is to make its first rendezvous with the enigmatic subnuclear realm in 1994.

The accelerator, funded primarily by the U.S. Department of Energy, is designed to investigate the forces that hold the atom together,

said James S. McCarthy, a University of Virginia physics professor who conceived the project.

Protons and neutrons, which make up the nucleus of the atom, contain particles called quarks. CEBAF's electron beam will collide with the quarks, the interaction producing a deflected electron and one or more nuclear fragments that will provide data about the nucleus.

Understanding the subatomic environment "will tell us a lot about the universe," said McCarthy, who likened the accelerator to a "giant microscope that will allow scientists to look very far into the center of the atom."

Unique in that it combines a high-energy, high-current continu-

ous beam with excellent beam quality, CEBAF is to bring into focus a subatomic world that existing accelerators have only partially revealed.

The beams of other accelerators crowd electrons into brief, intense pulses, producing many interactions simultaneously. In this confusion of interactions, signals from both the deflected electron and the specific nucleus it disturbs cannot be clearly identified. CEBAF's continuous beam, guided with surgical precision, will spread out the interactions in time so each can be observed independently.

"CEBAF is a great leap ahead in terms of the technical character and quality of the electron beam it pro-

vides," said Charles K. Sinclair, a senior physicist at CEBAF.

The probe uses electrons because they seem to have no internal structure and the results of their interaction with nuclear matter is well understood.

The process begins when electrons are injected into a 7/8-mile racetrack-shaped tunnel 24 feet underground and accelerated to higher and higher speeds until the beam is split for use in simultaneous experiments positioned in three cavernous buildings. The domed, circular buildings — called end stations — will contain huge detection devices to observe the interaction of electrons with quarks.

But the heart of CEBAF will be

338 superconducting accelerator cavities immersed in a bath of liquid helium cooled to a temperature near absolute zero, or 456 degrees below zero Fahrenheit.

That makes CEBAF's niobium accelerating cavities superconductive, or free of resistance. This solves the problem of heat buildup and allows the beam to become continuous.

While the Energy Department develops and produces the nation's nuclear weapons, CEBAF is not in the weapons business, said Sinclair and Hermann A. Grunder, a physicist who has guided the project since 1985.

"This is totally open research — no weapons at all," said Grunder.

"If you look at subnuclear interaction there is going to be a technology based on that, but I haven't the foggiest idea what it is," Grunder said.

"God forbid it will make better weapons," said Sinclair.

Larry Hart, an aide to Rep. Herbert Bateman, R-Va., whose district is home to CEBAF, said the federal government is spending \$63 million for construction of the project this year and is seeking \$65 million for fiscal 1991.

Even in these budget-conscious times, a project like CEBAF is necessary, Sinclair said. "It's an article of faith with me that a deeper understanding of the physical world is better."

Joint project studies how injuries heal in outer space

By **RAY FORMANEK JR.**
Associated Press Writer

MORGANTOWN, W.Va. (AP) — U.S. scientists are examining bits of leg muscle removed from high-flying rats as part of a joint NASA-Soviet experiment to determine how injured astronauts would heal in a weightless environment.

"Our hypotheses go everywhere from disaster to normal healing," said William Stauber, a physiologist at West Virginia University Medical Center and one of two scientists conducting the study.

"A disaster would be if the muscle healed but you got cancer or just useless cells growing that wasted away," said Stauber. "My guess is the answer is somewhere in between."

Soviet researchers used forceps to crush the calf muscles of 10 specially bred rats from Czechoslovakia before placing them aboard a Vostok spacecraft for nearly two weeks last September.

"The bruise was similar to something a batter would get if he was hit by a pitched baseball at home plate," Stauber said. "They tried to make it equivalent to a real-world situation."

Within hours of the landing, researchers removed the rats' calf muscles and froze them. Once in the United States, the muscle samples were shipped to Stauber and Barry Festoff, a neurologist at the Veteran's Administration Hospital in Kansas City, Mo.

Festoff and Stauber are analyzing slides containing the red and white tissue to trace the healing and regrowth of the rats' muscle cells and nerve fibers.

"We're taking a look at the muscles themselves to see if they are any different from the rats who suffered the same injury but healed on Earth," Stauber said.

He and Festoff brought Soviet officials up to date on their research recently at a meeting at NASA's Ames Research Center in Mountain View, Calif.

"Long-term space flight may cause deconditioning of the cardiovascular, musculoskeletal, blood and immune systems," A.S. Kaplansky, who oversees the program for the Soviets, said through an interpreter. "It is of crucial importance to clarify mechanisms underlying the changes and to develop effective countermeasures."

The study is expected to be completed this fall. The results will be reviewed by Soviet scientists before the findings are published.

"Our very preliminary data would seem to indicate that repair after the crushing did not take place in the flight animals," said Festoff.

Stauber said researchers also hope to gain a better understanding of how the human body reacts to heavy work in outer space — a critical consideration in light of a planned space station.

"I think there is a fair amount of knowledge of what happens to man if you're out there floating around for a long time, but we really don't know what happens when you start doing hard physical labor in space," Stauber said.

And overuse injuries caused by working in a weightless environment are another concern, he said.

The project is part of a long-standing agreement between the two superpowers to collaborate on space research.

"It goes back to 1973 and the Nixon administration," said Richard Grindeland, bio-specimen program manager for the Cosmos program at Ames.

"We have collaborated on seven space flights since 1975 using everything from guppies to monkeys," Grindeland said.

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