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NEWS SUMMARY

METRO/REGION

Two more outages: Power is restored to Boston's Chinatown and Combat Zone areas, but parts of Milton are blacked out for four hours when a car hits a pole, and parts of Needham had no electricity for about an hour because of a circuit failure. Page 17.

They favor small schools: Dozens of local school officials committed to the idea of keeping their schools small meet at Cabot High School in Cabot, Vt., with state and regional officials to talk about preserving the small rural school. Page 17.

Maine woman slain: An 80-year-old Maine woman was beaten to death in her home in Old Orchard Beach and her paraplegic husband, who was roughed up, is hospitalized in stable condition. Page 17.

26,000 out of a ride: A bus strike by drivers and mechanics is expected to force 26,000 daily riders in Worcester and area communities to find other transportation today. Page 17.

Frat party violence: One man was shot and stabbed and another stabbed at a crowded Northeastern University fraternity party in Boston. Page 18.

NATION

Hinckley suicide attempt: John W. Hinckley Jr., awaiting trial on charges of attempting to assassinate President Ronald Reagan, reportedly tries to hang himself. Page 5.

Controversy surrounds appointment: The nomination of the national director of Democrats for Reagan in the 1980 campaign for a Democratic seat on the Federal Trade Commission is threatened by charges that he acted improperly while he was a Senate staff member, sources say. Page 7.

Reagan slips in poll: President Ronald Reagan's rating for performance on the job slides in the latest Harris Survey. Page 8.

Shuttle in good shape: The space shuttle Columbia came through its second flight so well that it may need no other maintenance for its next flight except refueling and the replacement of a fuel cell, NASA officials said. Page 16.

Married couples decline: Married couples for the first time make up fewer than three American households in five, according to Census Bureau statistics. Page 16.

WORLD

At least 44 killed: At least 44 people are reported crushed under a collapsing wall or trampled to death by a panicked crowd at a rally in Mexico. Page 3.

Israelis stand firm: Israel reaffirms its opposition to Saudi Arabia's eight-point Mideast peace plan. Page 3.

Calm sought in Ulster: The top British official in Northern Ireland calls for calm after a weekend of violence, but militant Protestant Rev. Ian Paisley rejects the appeal. Page 3.

Chess game ends in draw: World chess champion Anatoly Karpov of the Soviet Union and challenger Viktor Korchnoi agree to a draw in their 16th game, leaving Karpov still one victory away from retaining his title. Page 16.

OPINION PAGES

Editorials, Page 14.
Bottle bill showdown
Juvenile lawfulness?
The new political game
Glossary: 'bailout'

Columns, Page 14.
M. R. Montgomery: The boom-and-bust cycle
David B. Wilson: A nickel for every bottle

Op Ed, Page 15.
Charles W. Naas: US, Pakistan picture is brightening
Jack Doyle: Food, farms and the urban connection
David Farrell: A rising star in state GOP
Ian Menzies: 'Think regionally' advice for New England
Mark Shields: Stately images

THE LOTTERY

Saturday number: 0488

Saturday payoffs (based on $1 bet)

Exact order		Any order	
All 4 digits	$6240	All 4 digits	$520
First or last 3	$874	First 3 digits	$146
Any 2 digits	$75	Last 3 digits	$292
Any 1 digit	$1		

Previous Mass. drawings

Friday	9527	Tuesday	0532
Thursday	3704	Monday	9590
Wednesday	5476		

Saturday numbers around New England

Vermont	606	Maine	546
Connecticut	612	Rhode Island	3093
New Hampshire	4392		

Centerpiece

The world of 'Skyro' and 'Skoo'

It's in Duxbury, home of a dreamer named Cudmore

By Daniel Golden
Special to The Globe

DUXBURY – His house stands alone about halfway out on Duxbury Beach, a five-mile peninsula of sand dunes, wild rosebushes and tide-toppled telephone poles. Its atmosphere recalls some forgotten South Sea island where English settlers evolved a hybrid culture all their own.

Outside the house are small signs of the unorthodox. Hanging from a tree is a teardrop-shaped feeder that always turns downwind so that snow never blankets its opening. Nearby, propped against a shed, is a sailboat that skims the ocean on hydrofoil wings.

Indoors, the house is jammed with the unusual. On one wall, abortive kites hover above a training bicycle with a rear wheel that resembles a watermelon. On the floor wobbles a huge plastic egg in which a child can rock safely.

The beach dwelling embodies the playful mind of its owner, Patrick John Cudmore, one of America's dwindling band of 2000 full-time independent inventors. In an age when most inventors are employed by government or industry, the 40-year-old Cudmore chases his dreams alone.

He not only designs inventions, but he also often builds and tests them in the ocean and winds buffeting Duxbury Beach. More visionary than businessman, he nevertheless must sell manufacturers on his ideas. Without laboratory or think tank, he may spend years perfecting one invention – scraping by with an optimist's casual eye on success.

Since he abandoned a more orthodox career ten years ago as a designer for Cambridge consulting firms, Cudmore has invented unique toys and machines – often resembling abstract sculpture – that use the forces of sunlight, air and water. He believes they are the precursors of flying cars, windmills with mid-air rotary wings and other science-fictional innovations that someday will ease traffic jams and help to fill energy needs.

Cudmore has obtained eight patents, but only two inventions, both flops, have been marketed. Bad breaks have stymied him, friends say, along with his reluctance to alter his creations or surrender rights to them. His five foremost inventions:

● The "Skyro," a plastic rotary wing which the inventor says represents a new method of powered flight. (Rockwell International plans a prototype of Cudmore's flying jeep, which would provide the first test of his rotary wing's applications.) The toy, which Milton Bradley, Inc., marketed, can, with practice, be thrown 200 feet. It was meant to compete with the frisbee – but it never did.

● The "Bug-eye," which magnifies an insect six times, and illuminates it with a special type of glass. This insect-viewer is intended as a child's microscope, and Milton Bradley also produced it. It has had limited sales.

● The "Skoo," a roller-skate with the maneuverability of an ice skate. Manufacturing arrangements misfired, but Cudmore still has hopes for them.

● A simplified rear-view mirror, which Cudmore says eliminates blind spots. He invented it for an automobile company, and he says American cars may use it by 1985.

● A hydrofoil sailboat that lifts out of the water even in low winds. This is probably his best chance for a major success. A book recognizing promising projects published his plan this year for the hydrofoil, which he predicts will sail as fast as a motorboat.

Patrick John Cudmore smiles out from a paraphernalia-filled room at top left. Some of his inventions, clockwise from top right: a teardrop-shaped bird feeder that always turns downwind so that snow never blankets its opening; a flying car; a hydrofoil sailboat that lifts out of the water even in low winds; and a training cycle that Cudmore calls a "trike." GLOBE PHOTOS BY JOE RUNO

"Today's 'cathedrals,'" says Cudmore, "are now being built for the outer space program. It's our job to bring that technology down to earth and make it helpful to everybody.

"I think there will be more change in the next 30 years than in the whole history of mankind."

Friends say that Cudmore's intuitive sense for natural forces and lack of preconceptions reflect an extraordinarily fertile mind. They call him a Renaissance man, with a curiosity as wide-ranging as Leonardo's. "That part of his mind that should strike down crazy ideas is sluggish enough that they find a niche," one says fondly.

But, perhaps because Cudmore is largely self-taught in mathematics, aerodynamics and other fields related to his work, friends say that his reach may exceed his grasp.

For example, Synestructics, Inc., of California commissioned Cudmore, at a time when the inventor was desperately poor, to build a kite that would change shape with the wind. But neither that kite nor an alternate offered by Cudmore flew as well as the company wished.

"He's probably a brilliant guy," says company president Peter Pearce. "But, like many inventors, he was so intoxicated by his idea that he never verified the principle behind it, which turned out not to be well-founded. He understands his inventions less than he would have yo believe."

Cudmore comes from Pierre, South Dakota, of pioneer stock. During the late 19th century gold rush to the Black Hills, his maternal grandfather, Hermione Marvin, started the first restaurant in Ft. Pierre, which is west of the Missouri River. An island in the river was named after him.

Cudmore's father was a shoe salesman and entrepreneur who invented the field boot – now worn by engineers and construction workers – and died when Cudmore was free. His strong-minded mother, who died in 1978, ran a motel and a ranch. A Sioux Indian woman who had survived the Wounded Knee massacre lived with the family as his nanny, and taught Cudmore the rudiments of the Sioux language. He says that he absorbed from her the Indian belief that nature is sacred, a belief that has influenced his energy-conserving inventions.

Cudmore briefly attended a seminary, which he explains as a search for a role model to replace his father. He was a cadet at Air Force Academy for a year, which he found stifling, and graduated from Catholic University in Washington, D.C. After receiving a master's degree in architecture at Harvard, he was a designer for Cambridge Seven, Earl Flansberg, and ART associates.

Raised by one parent himself, Cudmore retained custody of his two sons after a divorce from his first wife in 1969. He then decided to quit ART and MIT, where he was a doctoral candidate, and become an inventor, which enabled him to supervise his children more easily. He remarried in 1976. His wife, Lorraine, is a biologist and writer.

In 1971, Cudmore left ART to set up shop in a north Cambridge church building, which was later demolished as a fire hazard. He and his employees whittled models of the "Cudmore rotary wing" from soap bottles, and the "Skyro" was born. He moved to Duxbury in 1974, and to the beach house in 1978.

Cudmore obtained a bank loan and sold his share of the family ranch in South Dakota to finance the shop, which moved in 1972 to the loft of a paper plant. He also borrowed from friends. "There were very bleak times, when the amount of money he had mattered down to the last penny," says a friend.

Disappointments have continued to be the story of Cudmore's life, but, as he says, the future is the only test of an inventor.

MONDAY'S PEOPLE

Billie Jean King, the controversial tennis champion (below), ties with **Katharine Graham,** chairman of the board and chief executive officer of the Washington Post Co. (below right), for top ranking in the list of the 25 most influential women in the United States. The World Almanac, which released the names yesterday, has compiled this list every year since 1977 from ballots sent to participating newspapers, and from the beginning, Graham has been on it. For the last three years, she has been first place. King appeared before – in 1977. "It's so refreshing to see so many new faces, said **Jane Platt,** publisher of the Almanac. Among the new names on the list are **Nancy Reagan, Lillian Hellman, Katharine Hepburn, Jeane Kirkpatrick** and **Dolly Parton.** And what about **Sandra D. O'Connor,** the first woman to sit on the US Supreme Court? She didn't get a vote on the list. O'Connor didn't go to work until October, and Platt said that most of the ballots were in by then. Ballots are mailed in early May and must are returned in August, when the tally starts.

□

A French poster showing a young **Ronald Reagan** lounging back-to-back with **Eleanor Parker** in the 1947 Hollywood movie "The Voice of the Turtle" – called "Aventure a Deux" in France – brought $400 at a Paris auction Friday. It was one of 175 posters from American and French films featuring such stars as **Marilyn Monroe, Yves Montand, Gary Cooper, Clark Gable, Elvis Presley, Greer Garson** and **Marlene Dietrich** as well as movies directed by **Stanley Kubrick, Charlie Chaplin, Alfred Hitchcock, Billy Wilder** and **Walt Disney.** A poster from director **Jean Renoir's** 1937 'La Grande Illusion' brought $1000.

□

Multimillionaire **Armand Hammer** says he gets more pleasure from lending his valuable collections for viewing "than keeping them cooped up in my home." So after some wining and dining by Gov. and Mrs. **John Y. Brown** during the Kentucky Derby last May, the 83-year-old industrialist consented to loan his art treasures to the University of Kentucky. "Your governor and his wife, **Phyllis,** are most persuasive," Hammer told about 200 people Saturday during a preview of "Five Centuries of Masterpieces" at the university's art museum. He loaned the university a collection of more than 100 major works of art dating from the Renaissance to this century, which will be shown from next Tuesday through Jan. 10. The Hammer collection includes paintings by **Rembrandt, Rubens, Van Gogh, Renoir,** and **Cezanne.** American artists featured include **Gilbert Stuart, John Singer Sargent, Mary Cassatt** and **Andrew Wyeth.**

□

If was only two months ago that "Roots" author **Alex Haley** dedicated a bronze plaque in Annapolis to mark the spot where his ancestor **Kunta Kinte** allegedly arrived from Africa and was sold into slavery. But the plaque disappeared less than two days later – replaced with the calling card of the Ku Klux Klan. Since then, a citizens group has raised $3600 – $3000 more than the first plaque cost – and hopes the author, will return for another dedication Saturday. The new plaque will be imbedded in a 1400-pound slab of granite and covered with a sheet of plexiglass. The original is still missing.

Actor James Cagney was guest of honor Saturday night at New York Press Club's Charity Byline Ball for Muscular Dystrophy Assn. and Damon Runyan-Walter Winchell Cancer Fund. AP PHOTO

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