

Cheaper solar heat developed

CAMBRIDGE, Mass. (AP) — The cost of solar heating can be cut in half by a new self-contained solar panel which can store hot water long after the sun goes down.

The new panel eliminates the need for expensive storage tanks and plumbing used in conventional solar heating systems, says Dr. R. Shawn Buckley, the Massachusetts Institute of Technology professor who developed it.

An existing solar system, including the storage, pipes and plumbing, costs \$8,000 to \$10,000. A system of equivalent size, using Buckley's panels, would cost about \$5,000.

In a conventional system, a solar panel, usually installed on the roof, collects the sun's rays and warms water running through pipes attached to it. The heated water is pumped to a

storage tank, often in the basement, where air is heated and blown through the house.

The principle at work in the new panel, called a thermic diode, is the natural flow of hot and cold water. The key to the heat storage is an oil valve acting as a one-way door, Buckley explains.

The panel, 10 inches thick and 4 feet by 8 feet, is divided into three main sections: the collector facing the sun, a layer of insulation and a storage layer facing into the house. The panel can be installed either on the roof or in a wall.

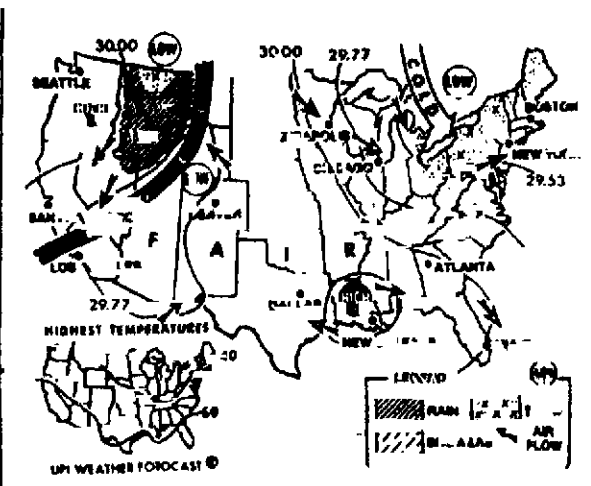
"They can be installed cheaply, too. It is like installing the collectors alone of a conventional system. But with a conventional system, the job's only half done."

Here's how the panel works: "When the sun heats the water, there is a natural convective

flow that takes the heated water to the thick, inside layer, where it is stored," Buckley says. "But the problem was, how do you keep it from flowing in reverse — to the outside layer — when it gets cold? This is where the valve comes in, employing the properties of oil, hot water and cold water to make it work."

During the day, the water, heated on the collecting side, is channeled through the oil valve to the storage layer. At night, the warm water would normally flow in the other direction—to the outside, but the oil valve acts as a stopper.

Each panel holds 55 gallons of water. Buckley says the panels, designed and built for MIT by Ron Petrich and Associates of Seal Beach, Calif., should be ready by February. They will be used by Pacific Gas and Electric in a new building in San Ramon, Calif., he said.



Weather

Snow and rain are forecast for the northern Rockies today, and snow is expected in the lower Great Lakes, Ohio Valley and the northern Atlantic Coast area.

Chance of flurries

Temperatures		Extended outlook	
AUGUSTA	36 23	Maine and New Hampshire	Chance of flurries north and fair south Wednesday. Chance of snow Thursday. Clearing Friday. Daytime highs from near 30 north to near 40 south. Overnight lows in the teens to lower 20s.
Anchorage	38 34	Almanac	
Boston	39 30	Sun rises	6:44
Chicago	35 30	Sun sets	4:06
Honolulu	85 71	Day's length	9:33
Las Vegas	77 45	Day's decrease	6:06
Los Angeles	75 54	Eastern Standard Time	
Miami	81 68		
New Orleans	66 54		
New York	45 35		
Portland	38 25		
San Francisco	61 55		
Washington	52 31		

Famed Jesuit dies

LONDON (AP) — The Rev. Martin Cyril D'Arcy, a leading Jesuit philosopher who traveled in British literary and intellectual circles and converted a number of famous people to Roman Catholicism, has died. He was 88.

Father D'Arcy had been weak for two years before his death Saturday night, a Jesuit spokesman said.

Considered a brilliant conversationalist, D'Arcy was counted among his friends the leading minds of his time: physicist Albert Einstein, philosopher Bertrand Russell, and poet T.S. Eliot.

Dame Edith Sitwell, the poet, and Evelyn Waugh, the satirist, were among his converts. Waugh used him as the basis for the character of Father Rothschild in his novel "Vile Bodies."

Hugh Auchincloss

WASHINGTON (AP) — Hugh D. Auchincloss, the stepfather of Jacqueline Kennedy Onassis, has died. He was 79.

Auchincloss, authorities said, died in his home Saturday. He had been retired from his investment brokerage business for the past year.

Nuclear cloud leaving U.S.

By The Associated Press — The leading edge of an immense mass of airborne radioactive debris from a Chinese nuclear explosion moved over the Atlantic Ocean Sunday, leaving traces of increased radioactivity, according to federal monitors.

A spokesman for the Environmental Protection Agency said the traces of residual radiation recorded so far were insignificant, and he added: "We expect some increase in ground level radiation in coming weeks, but we don't expect it to be of serious consequence."

Offshore oil bids sought

WASHINGTON (AP) — The Interior Department announced Sunday its invitation of proposals for a new sale of oil and gas leases, possibly in mid-1978, off the middle Atlantic coast.

The department, after weathering public debate and attempted lawsuits, auctioned off the first federal leases off the Atlantic coast last Aug. 17, accepting more than \$1 billion for the right to drill for oil and gas on 529,466 acres off New Jersey and Delaware.

The new invitation, a "call for nominations and comments," is the first legal step toward an

eventual decision whether to hold the proposed 1978 lease sale. The announcement said no decision would be made until public comment has been collected and reviewed and an environmental impact study is made. The process may take some 19 months.

The department asked petroleum companies to indicate which offshore areas they should not be leased because of environmental risks or conflicts with other uses.

The Interior Department weighs these comments and decides which areas, if any, to offer for leasing.

2 get, keep 3 deer

SCARBOROUGH (AP) — Allen G. Powers and his 18-year-old son, Peter, returned home from a hunting trip with three deer — all taken legally.

Peter, who had never been deer hunting before, shot a seven-point buck Saturday, and his father bagged a doe.

The third deer was hit by Powers' car as he was driving along a highway in Starks at the start of their hunting trip Thursday.

Maine game laws allow hunters to kill only one deer apiece during the season, but motorists are permitted to keep the carcasses of deer which are destroyed in highway accidents.

The nation's weather

By The Associated Press — Gusty northwesterly winds swept across portions of the northern United States Sunday, bringing cold temperatures and snow.

Snow showers and flurries were scattered from the Dakotas and eastern Nebraska across the Great Lakes into the northern and central Appalachians.

Some snow piled up near the Great Lakes and travelers advisories were in effect in Michigan near Lake Superior and Lake Michigan.

Afternoon temperatures generally remained in the 20s across the northern states. Gale warnings were issued through Monday for Lake Michigan and Lake Superior.

Obituaries and Memorials

Miss Ann Rideout

MANCHESTER — Miss Ann Rideout, 20, of the Pond road, was accidentally killed in an automobile accident Saturday morning on Rte. 201, Hallowell.

She was born Nov. 23, 1955, in Augusta, the daughter of Raymond M. and Marguerite Waterman Rideout Jr.

She was a student at the University of Maine at Orno, and was a 1973 graduate of Winthrop High School.

She is survived by her parents, of Manchester; one brother, James; Assonet, Mass.; one sister, Mrs. Karen O'Leary, North Conway, N.H.; and several aunts, uncles, and cousins.

Private funeral services will be held today at 15 Flagg St., Augusta.

Pellegrini Jr. of Colchester, Vt.

son James R. of West Gardiner; a daughter, Miss Staci J. Pellegrini of West Gardiner, a brother, Paul J. of Litchfield, a half sister, Miss Victoria Pellegrini of Colchester, Vt., maternal grandmother, Mrs. Olive Dunn of West Gardiner; paternal grandmother, Mrs. Hattie Pellegrini of Hallowell; a nephew and several uncles, aunts and cousins.

Funeral services will be at 1 p.m. today at 53 Brunswick Ave., Gardiner.

Elmer C. Stetson

AUGUSTA — Elmer C. Stetson, 72, died Saturday in a local hospital after a long illness. He resided at 23 Taylor St. here.

He was born in Monmouth, Oct. 7, 1904, son of George and Edna Stevens Stetson. He attended Monmouth Schools and was a graduate of Monmouth Academy in 1930. He married Judith Jalbert in Littleton, N.H. He was employed by the Maine Central Railroad until his retirement in 1969.

He was a member of the Brotherhood of Railroad Trainmen.

Survivors include his wife; two sons, Peter of Whitefield and George of Anaheim, Calif.; seven grandchildren; one niece, Pamela Bibby of Monmouth.

Funeral services will be at 1 p.m. today at Main St., Monmouth, with interment in St. Peter Cemetery in Lewiston.

Edmond Gamache

RICHMOND — Edmond Gamache, 86, 4 Lincoln St., died Sunday at Augusta General Hospital.

He was born in Lisbon Sept. 1, 1890, the son of Jean Baptiste and Lucille Pregeau Gamache. He was a veteran of World War I, after which he worked with the Army of Occupation for six months. He was an employee of the Maine Central Railroad and after his retirement

Waldoboro, 7 to 9 tonight and Tuesday night.

Trask, Manchester; three sisters, Mrs. Florence Moore and Mrs. Louise Morgan, both of Hallowell, and Mrs. Isabelle Hall, Augusta; two grandchildren; and several aunts, uncles, nieces, nephews and cousins.

Funeral services will be held at 1:30 p.m. Tuesday at 15 Flagg St.

Mrs. Elizabeth N. Johnson

WALDOBORO — Mrs. Elizabeth Nash Johnson, 51, died Saturday at her Main street home after a long illness.

She was the wife of Roy J. Johnson. She was born in Brockton, Mass., Aug. 17, 1925, the daughter of Chester A. and Josephine Nash Peterson. She graduated from the Oliver-Ames High School, Northeaston, Mass. She was employed with the offices of William O. Douglas Co. of Brockton, Mass. and later with the First Machinists National Bank of Taunton, Mass. She was a member of the Covenant Congregational Church, Northeaston, Mass. She attended the First Baptist Church of Waldoboro. She had resided in Waldoboro for 17 years.

Survivors include her husband, Roy J. of Waldoboro; her mother and father, one son, Carlton E. Johnson of Waldoboro; two daughters, Kirsten E. and Anna Marie, both of Waldoboro; one brother, George C. Peterson of Miami, Fla.; two sisters, Mrs. Norman (Joan) Benson of Danvers, Mass., and Mrs. Willard (Alice) Peterson of Taunton; several aunts, uncles and cousins.

Funeral services will be held at 1 p.m. Tuesday at Main street, Waldoboro, with the Rev. Willard A. Peterson, pastor of the United Church of Christ, Taunton, officiating.

Burial will be at the Central Cemetery, Waldoboro.

Leroy T. Hopkins

MOUNT VERNON — Leroy T. Hopkins, 82, died unexpectedly Sunday at his home.

He was born in Mount Vernon Feb. 24, 1894, the son of Fred L. and Hattie Hall Hopkins. He was a lifelong resident of Mount Vernon.

Survivors include his wife, Rowena Wadleigh Hopkins, Mount Vernon; one son, Ralph L., Scarborough; two daughters, Mrs. Marie Whitaker, South Windsor, Conn.; and Mrs. Avis Meade, Woolwich; one brother, Lawrence Hopkins, Bingham; one sister, Mrs. Hazel Cole of Mount Vernon, six grandchildren; several nieces and nephews.

HOPKINS, Leroy T. — died Sunday. Funeral services will be held at 1 p.m. Wednesday at the Roberts Funeral Home, 28 Bowdoin St., Winthrop. Friends may call from 7 to 9 p.m. Tuesday at the funeral home. Donations may be made to the Heart Fund, 10 Winter St., Augusta.

Stanley George Trask

AUGUSTA — Stanley George Trask, 48, of the Old Belgrade road, died Sunday in the Veterans Administration Center, Togus.

He was born Sept. 13, 1928, in Manchester, the son of Arthur R. and Arvilla Griffin Trask.

He was a veteran of the Korean Conflict, and was a carpenter by trade.

He is survived by his wife, Mrs. Joanne Veilleux Trask, Augusta, his stepmother, Mrs. Mary Arnold Trask, Manchester, two sons, Roland and Paul Trask, and one daughter, Miss Ann Trask, all of Augusta, one brother, Robert A.

Mrs. Ida E. Benner

WALDOBORO — Mrs. Ida E. Benner, 68, died Saturday at the Pen-Bay Medical Center, Rockport.

She was born in Auburn March 16, 1908, the eldest daughter of Addie Castner and Lewellyn E. Jackson. She was the widow of the late Otis B. Benner Sr. She had been a member of the First Baptist Church here since June 7, 1936.

For many years, Mrs. Benner wrote her column "Among the Books" for the Lincoln County News. She was well-known for her interest in genealogy and compiled a complete history of the Benner family and helped many people with their research in genealogy.

Survivors include three sons, Otis Jr. and Robert of Waldoboro, Ronald of Union, two daughters, Mrs. Lawrence (Sylvia) Buck of Camden, and Mrs. Carroll (Eleanor) Martin of Searsport, two sisters, Mrs. Maurice (Eva) Pearl of Scotsburn, Nova Scotia, and Mrs. Clifford (Violet) Pearl of St. Andrews, Nova Scotia, one brother, True Jackson of Waldoboro, 18 grandchildren, four great-grandchildren, many nieces and nephews.

Funeral services will be held at 11 a.m. Wednesday at the Rev. Vernon Jordan officiating.

Burial will be at the Benner family cemetery in Glendon.

BENNER Mrs. Ida E. — died

Saturday. Relatives and friends are invited to call at the Hall Funeral Home, 77 Main St.

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A THOUGHT FOR THE WEEK
FROM CHARLES K. HEWINS JR.

Think back! Think of the vast, unimaginable changes on our American continent since the first Thanksgiving of the Pilgrims. Think back about things as they were then. Think back about the pitifully few possessions of the Pilgrims. Think back about their meager huts, their mounds of graves. Think back about their hardships, their toil — and their faith. Think back. Imagine yourself in their environment and ask yourself whether you could or would give "thanks" in those circumstances.

As we think back, we can not help from being mindful of our blessings on Thanksgiving Day. We should realize that real gratitude comes from the heart and mind. We should realize gratitude can and certainly will make us better people. We should realize the sin of ingratitude likens us to the character and role of the 9 out of 10 lepers who failed to say "thanks" for their cure. On Thanksgiving Day we should

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(should read "SKINLESS")
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