

Twigs Grow After Gradual Freezing to -423 Degrees

Washington - (Science Service) - Russian scientists have succeeded in freezing birch and black currant twigs to minus 423 degrees Fahrenheit and making them grow afterwards.

Dr. I. I. Tumanov, a botanist and member of the Soviet Academy of Sciences, reported in the current Doklady - Botanical Sciences Section, that twigs of the two common plants had been frost-hardened at temperatures only 36.7 degrees above absolute zero.

After this hardening process the twigs were immersed in liquid nitrogen, then in liquid hydrogen for two hours and then again in liquid nitrogen. The temperature of liquid hydrogen is 423 degrees below zero Fahrenheit. At absolute zero, minus 459.7 degrees Fahrenheit, all life is believed to cease.

Grew New Roots
When the twigs were later observed, they appeared normal and grew buds and new roots. Other twigs of similar stock, which had not been gradually hardened, died at minus 40 degrees. The black currant stock can generally survive natural temperatures down to about minus 22 degrees, Dr. Tumanov reported.

Washington scientists said that the application of this hardening method to cold of southern fruit trees, such as peach and the various citrus, so the crops will not be threatened, cannot be predicted without further information available from experimentation.

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FINDINGS CLEAR PICTURE - Caltech Astronomer Guido Munch's new findings give a clearer picture today of how clouds of gas move outward from the hub toward the arms of the vast pinwheels of stars called spiral galaxies. The Milky Way, in which our solar system resides, is such a pinwheel - measuring some 80,000 light years across. A light year is nearly six trillion miles. The swift movement of gas clouds outward from the galaxy's nucleus, is indicated by black arrows. Indications are that the gas moves out along the galaxy's lines of magnetic force and converges along these lines back into the nucleus again, as indicated by the white arrows. The photo was taken with the Schmidt 48 inch telescope camera at Mt. Palomar, near Pasadena, Calif. (UPI Telephoto)

New Method Found For Coating Copper

Cleveland (Science Service) - A chemical method of coating copper with plastic - of particular value for sealing transoceanic cables - has been described here.

The bonding method forms chemical grippers on polyethylene plastic that cling to copper, eliminating the need for adhesives, Dr. Arthur T. Spencer of the Bell Telephone Laboratories, Murray Hill, N.J., told the American Chemical Society meeting.

The method, which also may be used in flexible printed circuits and microwave devices, makes use of the oxidation of the polyethylene in contact with an oxide film on the metal in a short-time, high-temperature molding operation. There is no intermediate adhesive layer.

High and reproducible bond strengths are achieved by the process between a wide range of polyethylenes and copper alloys bearing at least 85 per cent copper. Bonds formed by this method failed through tearing in the polyethylene rather than a lack of adhesion at strength values at least several times those obtained by methods now in commercial use.

Coauthor of the paper was Richard G. Baker.

Policeman Forgets It's His Day Off
Valdosta, Ga. - "Who has car four?" the dispatcher inquired over the police radio here after finding the cruiser missing from the department garage.

"I have it," came the answer. The radio man reminded the officer-driver it was his day off.

The officer brought the cruiser in and went home.

4-H Club News

Hayburners Horse Club
The Westside Hayburner's 4-H Horse club held its regular monthly meeting at the home of Jan Main April 9.

The roll call topic was "safety notes."

Linda Gibson reported on the club ride to Gold Hill during spring vacation.

Plans for a snow party were discussed and agreed upon for April 16 at 6:30 p.m. to Mt. Shasta, Calif. Transportation will be provided by Mrs. F. I. Cheney.

Also discussed were plans for a 4-H pre-fair to be put on by the Westside Hayburners. Time and date will be discussed later.

Special reports will be given next meeting by Bonnie Cheney and Linda Gibson.

No place has yet been set for the next meeting.

Since there was no further business the meeting was adjourned and refreshments served.

Bonnie Cheney, Reporter.

Bobbing Bobbins
The Bobbing Bobbins 4-H club will have a potluck dinner for their families April 23. Three other clubs also are invited.

The club made plans recently for a mothers and grandmothers tea, to be held at the home of Kristy Chamberlain May 14 at 1 p.m. Members will have a style review for both events.

Colleen Franek gave a demonstration on good grooming and Cheryl Hammil gave one on how to apply a hook and eye. President Carol Foote was in charge of the meeting and Kristy Chamberlain acted as hostess.

Mary Daniels and Carol Foote served refreshments. Cheryl Hammil performed a yell she is to do for school and Colleen Franek played the accordion.

Colleen Franek, Acting Reporter.

Crater Teen-a-Paige
The Crater Teen-a-Paige 4-H Sewing club will have a mothers tea May 10 at the Sidener home, Hanley rd., Central Point. Plans for the tea were made at a recent meeting at the home of Nancy and Elaine McKay, 360 North Fifth st., Central Point.

Members, who will model dresses they have made this year, will rehearse after school May 3 at the Sidener home.

Each member at the meeting brought an article of clothing she had made this year and the items were judged by the membership and Miss Norma E. Hague, county 4-H agent.

The club will meet April 16 at 1:15 p.m. at the Pinkham home from where they will go to the McCue home for a visit.

Mrs. McKay served refreshments.

Sue Higinbotham, Reporter.

Westside Blockers
Sharon and Ken Boetcher gave special reports at a meeting of Westside Blockers 4-H Sheep club recently at the home of Carolyn Barnes, Beall

lane. Sharon spoke on the Romney Marsh and Ken on the Lincoln.

Three new members are Kathy Schroeder, Chris and Kathy Bartels.

The club discussed Easter baskets and decided what type of food to bring. Vicki Caldwell and Jan Main are to give a demonstration on the sheep and their diseases at the next meeting. Sharon and Ken Boetcher will be hosts for the May meeting.

Jan Main, Reporter.

Needles and Pins 4-H club held a business meeting and worked on projects recently at the home of Darla Pulley, president.

Mrs. Pulley served cookies and milk.

Carmen Farlow, Reporter.

Saddle Tramps
The Mt. Wagner Saddle Tramps 4-H club of Talent met at Gerald Reneau's home. Members went for a ride following a short business meeting.

Darlene Wilkins, Reporter.

Handy Annies
A movie about 4-H summer school was shown at a meeting of the Handy Annies 4-H club recently. For roll call each girl asked a question about record books.

Eileen Pullman and Mary Ann Carnegie answered the questions for their demonstration.

The club thanked the committee who prepared the 4-H window. Mary Kay Hockstater gave a report on the window display.

The May meeting will be a parents night with parents of all members invited.

Eileen Pullman served refreshments after the meeting was adjourned by the president, Sarah Robinson.

Mary Ann Carnegie, Reporter.

Antelope Club
Members of the Jacksonville 4-H club were guests of the Antelope Clothing and Cooking club at a recent meeting at the home of Lola Ackerman.

Cooking club members answered roll call by giving helpful hints on table etiquette, and clothing members told of materials they are using on their projects.

Plans for the annual mothers day tea were made. The event will be May 1 at the home of Jenifer Nevin.

Gloria Meyer, Liz Flint and Alice Woodfolk are on the invitation committee. Jenifer Nevin and Elaine Meyer are on the decorating committee.

The club voted to help the county Empire Builders 4-H group by saving stamps for their project to aid needy persons overseas.

A money-raising project also has been started to help the International Farm Youth Exchange.

Judy Hill gave a demonstration on care of the hair. She discussed how cleanliness, exercise and diet affect the hair. Correct hair styles for different facial shapes were shown.

The club will meet at the home of Jo Anna Malloroy April 30 when Lola Ackerman will give a demonstration on brownies.

Whiz Knits
The Phoenix Whiz Knits 4-H club received the club charter at recent meeting. The charter has two gold seals for the two years the club has been active.

Marilyn Kantor served refreshments and Judy Hemingway will bring them at the April 20 meeting.

The next meeting will be at the Groves residence.

Linda Cox, Reporter.

Needlecraft Girls
Mrs. Huffman taught the Eagle Point Needle Craft 4-H girls club at their meeting Friday, April 8.

Members discussed the party which will be given for their mothers. Mrs. Huffman checked the scarfs made by the girls.

The next meeting will be Friday.

Mary Kathryn Sinders, Reporter.

Church Appoints Drama Director

Coventry, England - (UPI) - Coventry cathedral, a Church of England archbishopric, has appointed a full-time drama director.

Raymond Cox, who will occupy the post, plans to stage his first production at Christmas. His work will cover all aspects of church drama, from poetry readings to major productions.

Cox, a graduate of the Royal Academy of Dramatic Art, also will present short plays in the cathedral's great porch for lunch-time audiences and will commission plays for special festivals.

Solar Cells Don't Need Batteries

New York - (Science Service) - A new kind of solar cell that serves as its own storage battery was reported here to engineers attending a Society of Automotive Engineers aeronautics meeting.

If it fulfills its apparent promise, the cell will make obsolete solar cells now powering American satellites.

These older cells require heavy storage batteries to store the electricity converted by the cells from sunlight.

The new cells convert solar energy directly to chemical energy. The solar cells themselves store the chemical energy for later conversion to electrical energy.

Bert H. Clappitt and Dale E. German of the Wichita, Kan., division of the Boeing Airplane company built the experimental cells.

Baby Sitting Job Lasted 36 Hours

Red Oak, Ia. - George Culver's evening stint as a baby-sitter turned into a 36-hour job.

George, a high school student, was called by Mr. and Mrs. Merle Davis to care for their two small children on a Saturday night. During the evening, one of the year's big snowstorms struck and the home was isolated for 36 hours.

Commented George later: "I've had it for diaper changes."

Buffalo, N.Y. (UPI) - Richard Wolf, 23, of Orchard Park, saw a car he liked in an automobile showroom and took it out for a test drive that ended with his arrest 10 days later.

Wolf was convicted of first-degree grand larceny despite his claim that he just wanted to make sure the car was safe to drive before buying it.

Savings Bond Sales Show Increase Here

Sales of U.S. savings bonds in Jackson county in March rose from \$70,191 in 1959 to \$110,806 last month, according to the monthly sales report from Morris Leonard Sr., county chairman.

County residents purchased \$324,286 worth of bonds during the first quarter of 1960, compared to \$288,678 for the same period last year, Leonard reported.

E and H bond sales for the whole state for March amounted to \$3,074,295, 9 per cent ahead of last year.

Mt. Angel - (UPI) - About 350 gallons of gasoline sprayed from a 12,000 gallon storage tank in the downtown area here Tuesday night when the tank's lid blew off during a refilling operation.

TO THE VICTOR...
Houston, Tex. (UPI) - County Clerk R. E. Turrentine Jr. explained why he warned his employees that, if re-elected, he would fire any of them who did campaign work for his opponent. Turrentine pointed out that he is financially and criminally liable for the actions of his employees and "therefore, I feel compelled to know whose side they are on."

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