

## Sleeping Squirrels, Cooled Egyptians Support Scientists

By DELOS SMITH  
UPI Science Editor

New York — (UPI)—Take ground squirrels hibernating in Iowa and line them up with two men in Egypt with balloons filled with icy water in their stomachs.

That will help you get the idea of the newest improvement on the scientific theory that we (and all other mammals) have "biological clocks" ticking away inside us.

A clock is rhythmic, and so are mammals. Our hearts "beat," our brains give off "waves," electrical current pulsates through our skins. Something must keep all our rhythms even and on beat, and that something must be built-in "biological clocks." That's the theory.



DELUSING to tell House members whether he had ever been a Communist, Charles S. Dubin, director of the "Twenty-One," returns to New York NBC office to learn he has been fired from his job. (UPI Photo)

### Research Project Studies Prisons

Urbana-Champaign, Ill. — (UPI)—How to increase the effectiveness of the federal prison system is the purpose of a research project awarded to the University of Illinois.

The Ford Foundation granted \$242,000 to the university's department of sociology and anthropology. The grant for the four-year project was announced by Prof. J. E. Hulett, head of the department. The work will be directed by Dr. Daniel Glaser, an associate professor.

Glaser will be looking for reasons why some inmates return to lives of crime while others are reformed, and for ways to help inmates avoid returning to crime once they are freed or paroled.

More than one year was spent planning the research. Glaser has wide experience in the field of criminology and parole prediction, and the project is based on his interest in applying behavior science theory to practical problems.

### Many Light Sources For '58 Automobiles

Cleveland, Ohio — (UPI)—The better-lighted 1958 American luxury automobiles use as many as 53 separate light sources—more than the average home uses for general illumination.

William H. Robinson, marketing manager for General Electric's miniature lamp department here, said the average car today has 24 lights, two more than the average American home.

The average 1958 auto has five instrument panel lights, two interior lights, four headlamps, four combination direction signals to park-tail lights, one license plate light, two backup lights, and lights for the glove compartment, radio panel, trunk, parking brake, automatic transmission indicator and heater switch.

### Big Tree Moving

Not Modern Science Sent, O. — (UPI)—Big tree moving is not really a modern science at all, according to historians at the Davey Tree Expert Co.

Work accomplished in 1936 was amazing for the times—transport of some 700 mammoth trees.

The trees were up to 80 years old and from 30 to 50 feet tall. They were moved on carriages four miles across two rivers to a new home on an island.

The hibernating ground squirrels improved it. Dr. G. Edgar Felk Jr., and his associates at Iowa State University, proved that they hibernate rhythmically and the rhythms are quite independent of temperature. Everyone has supposed that cold weather keeps ground squirrels hibernating. Actually their "biological clocks" do it.

You line that up with the two iced Egyptians in this way. Unlike ground squirrels, people maintain the same internal temperature summer and winter. But surgical science has discovered that if you lower normal body temperature considerably, all vital bodily processes are greatly slowed down and you can perform delicate operations on relatively "bloodless" hearts or brains you couldn't perform otherwise.

The patients in these remarkably successful operations have always been chilled from the outside in, usually by being immersed in ice before the surgery. But Dr. H. H. Khalil of the University of Alexandria, Egypt, has long advocated chilling these patients from the inside out. Others have hesitated over this idea because there were reasons to doubt that the human "biological clocks" were independent of temperature.

#### None the Worse for Wear

Balloons were inserted into the stomach and by attached tubes, water was pumped in, through, and then out of the balloons. The temperature of the water was precisely controlled and when it was kept icy, the body temperatures dropped, and went up again when the water was warmed. The animals were none the worse for their experiences.

This method now has been tried on two Egyptians. Both had brain tumors which doomed them to death and which were not subject to surgery by ordinary procedures. Their body temperatures were lowered from the inside-out, and kept way down for a long time. One operation lasted five hours. The other was almost as long.

Both were successful — the tumors were removed.

### Museum To Show Models of Ships

Racine, Wis. — (UPI)— Eugene Kloster plans to open a museum to show models he is making of fighting ships and other military equipment.

Kloster, 32, said he will start with about 25 ships, mostly modern war vessels. Each model will be built to a scale of 1/16 inch to the foot.

The draftsman is making the exhibits as close to scale and design as possible because he wants the models to be of engineering as well as historic significance.



**INTEGRATION CONFERENCE**—President Eisenhower poses in the White House with four Negro leaders following their conference on school integration and other matters affecting Negroes in the U.S. A prime topic of discussion was the recent court order renewing segregation in the high school at Little Rock, Ark. Left to right: Lester B. Granger, Exec. Secy, National Urban League; Dr. Martin Luther King, President of Southern Leadership Conference; E. Fredric Morrow, administrative officer of the White House; President Eisenhower; Asa Philip Randolph, vice president, AFL-CIO; Atty. Gen. William Rogers; Rocco Siciliano, special assistant to the President, and Roy Wilkins, executive secretary of the NAACP.

## Most Economists Believe Nation Has Hit Bottom of Recession

New York — (UPI)—Most top economists feel the nation has hit the bottom of the recession but they look for a slow recovery to full production and employment, a United Press International survey shows.

Of the 12 top economists polled, seven said the recession has bottomed out, four said the decline will go still deeper and one said he was not sure.

Almost all the economists agreed that prospects were dim for a sharp recovery such as followed the recessions of 1949 and 1954.

Generally, they felt the near-term outlook is cloudy, the medium-term outlook is fair and the long-term outlook is rosy.

#### No Runaway Seen

They agreed that inflation will continue to be a problem in years ahead, but none felt the nation was on the verge of a runaway price spiral. All opposed federal controls over wages and prices as an anti-inflation measure.

The economists opposed by a 10 to 2 vote a general across the board tax cut at this time, but most said there is a pressing need to reform the tax structure.

Almost half the economists expressed the opinion that the government moved too slowly last fall when the recession began or came up with too little, too late to spur recovery.

The economists listed as the chief causes of the recession over-expansion of industry and the subsequent cutback in spending for new plants and

equipment; reduced government defense spending; inventory liquidation; lower consumer spending for durable goods such as autos and excessive tightening of credit in the latter stages of the boom.

#### No Preventive

However they generally agreed that in a free enterprise economy fluctuations are bound to occur and that there was little, if anything, that could have been done to avoid a downturn.

The economists polled by UPI, were: A. W. Zelomok, of the University of Virginia; John E. Kane, Arkansas University; Douglas H. Belmore, research director at Tucker, Anthony & R. L. Day; Roy L. Reinson, vice president of Bankers Trust Co.; George Cline Smith, vice president and economist of F. W. Dodge Corp.; Abraham L.

#### CONCERT MANAGER DIES

East Setauket, N.Y.—(UPI) James A. Davidson, 56, former manager of many noted concert and operatic singers, died Tuesday. His clients included Lauritz Melchior, Helen Traubel, Jeannette MacDonald, Lily Pons, Rise Stevens and the late Grace Moore.

#### COWS ELECTROCUTED

Pownall, Vt. — (UPI) — Twelve Holstein cows started to drink from a water trough and were struck dead. A high tension wire had fallen over a lightning rod which had a ground wire connected to the pipe supplying the drinking water.

Gitlow, of New York University; Ira T. Ellis, economist for E. I. Du Pont de Nemours & Co.; Gordon W. McKinley, chief economist of the Prudential Insurance Co. of America; Don M. Soule, of the University of Illinois; Neil H. Hachoby of the University of California; Yal Brozen, of the University of Chicago; and Neil Carothers, of Lehigh University.

### Mrs. Thompson Talks At Meeting

"It's not so much that we can't see but that we have to learn to get along without sight," Mrs. Vera Thompson, Portland, remarked in a talk to Medford Kiwanis club members yesterday.

Mrs. Thompson, representative from the social and education department of the Oregon state commission for the blind, is in Medford through July 3 to conduct classes for visually handicapped people. She spoke at the Kiwanis luncheon at Rogue Valley Country club and told of the program for the blind in the state.

Also speaking at the meeting was Gerald Allen Vice, Medford, who was named First Citizen of Beaver Boys State last week at Corvallis. Vice, who was sponsored by the Kiwanis club at the session, will attend Boys Nation in Washington, D.C., this summer. In behalf of the Kiwanis club, President Bill Singler presented Vice with \$25 and a piece of luggage for the trip.

## Use of Hypnosis in 'Open Heart' Surgery Told at AMA Meeting

San Francisco — (UPI) — For the first time, hypnosis has been used in the most awesome of medical feats — the "open heart" operation.

The medical milestone was bared Wednesday at the annual meeting of the American Medical Association by a doctor who said he has successfully used hypnosis during heart operations on two teenagers.

One patient, a 14-year-old girl, was deaf and the doctor said he had to deliver hypnotic instructions to her

through a hearing aid. Dr. Milton J. Marmar, from the University of California at Los Angeles, said the technique "opens a new frontier in heart surgery."

The girl "awoke" on command while her heart was temporarily by-passed and the heart-lung machine held her life in its pulsing spiral of plastic tubing and throbbing motors.

**Eliminates Unconsciousness** Hypnosis was used in these cases, the doctor said, "to avoid the depressant effects of anesthetic drugs and to attempt to eliminate unconsciousness while the patient was on the heart-lung machine."

The blood is shunted around the heart and lungs through a mechanical oxygenator during open heart surgery. This allows clearer vision of the heart and a dry field in which to work.

Because the normal blood circulation is stopped, there is the possibility of brain damage.

Marmar had theorized that one way of checking such a possibility would be to awak-

en an individual while he was on the machine. This could be done, he said, if the patient were hypnotized.

First, he tried an operation with hypnosis on a 13-year-old boy. All went well and he decided it was time to try to "awaken" a patient who had been hypnotized.

The deaf girl was the patient. Before she was wheeled into the operating room she was hypnotized and given a tiny bit of anesthesia.

In the middle of the operation a hearing aid was placed in her ear so she could hear commands.

"She was asked to open her eyes, which she did immediately. She was asked to move her head to indicate that she could hear me."

"This response to command was elicited several times to satisfy the curiosity and amazement of the observers in the operating room."

After the defect was repaired and the heart closed, she was given the command to go to sleep again," Marmar said.

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