

Milk, Honey Is Lousy Diet

What is it like to live in the land of milk and honey? "Dangerous," says Mykola H. Haydak, University of Minnesota professor who specializes in bees and beekeeping.

Haydak, inspired by the Biblical reference lived three months on a diet of milk and honey. By the end of the second month, he noted the onset of scurvy because of a vitamin C deficiency. Haydak, who says Minnesota leads the nation in production of honey, has this formula for an adequate food supply: a cow, a beehive and an orange tree or tomato patch.

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TV's 'Mr. Wizard' Teaches Science To Adults



GETTING READY to film an animated demonstration to describe the operation of a laser, television's Don "Mr. Wizard" Herbert prepares to step into his forthcoming adult-level science television series, "Experiment". The programmer in the foreground controls the animation on the display board.

Television's Don Herbert, who for 14 years made "Mr. Wizard" famous by explaining science to children, will go before the television cameras again this week with an adult-level science program called "Experiment."

Aimed directly at the general public as well as scientists and engineers, the series, will be shown on prime-time television. Programs dealing with subjects in electronics, astronomy, biology and meteorology are planned.

The first program of the series, to be broadcast next Thursday at 8 p.m. on WUNC-TV, Channel 4, concerns a study by Dr. Perry Gilbert of Cornell University on the attack patterns of sharks. The program will explore when and why sharks attack by experimenting with their sensory mechanisms.

One program later in the series is to be about the laser, a highly sophisticated device that produces a "coherent" or ultra-pure beam of light that can carry a radio signal, surgically repair a damaged retina or photograph an extremely fast-moving object.

To produce the laser's action of achieving a coherent

light beam, an appropriate atom absorbs energy from an electromagnetic wave. An electron in the atom absorbs the energy by moving from its initial energy level to a higher energy level.

When an energy level of the proper frequency triggers this excited atom, the absorption process is reversed. The electron is stimulated to drop back to the ground state, emitting its stored energy in the form of a photon.

If there are many excited atoms present, and few at the ground state, amplification takes place. When stimulated by a wave, each excited atom adds a photon to the wave. Hence, the name LASER, an acronym for Light Amplification by Stimulated Emission of Radiation.

The laser demonstration board has 27 strips of 12 lamps apiece, and 27 of the 38 contacts on the Acton programmer select the strip of lights that is to be illuminated at any given time. Stepping relays placed between the programmer and the lamps light the 12 lamps in any strip in sequence.

Two contacts on the programmer also serve to trigger any of three levers activated by solenoids to control the motion of the cork "electrons" in the televised animation. And three other contacts control the motion of the "photons" as they move from left to right, right to left or diagonally. A 24-volt solenoid drives the rotating programmer in predetermined steps.

In the televised animation, an Acton programmer, which is a rotating drum memory switch controls the symbolic interaction of electrons and photons by programming 324 lamps representing photons, on a demonstration board designed by Don Herbert. It also controls three cork balls, each of which represents an electron. As the aluminum drum of the Acton programmer rotates on its axis, actuators set in place about the perimeter of the drum trigger 32 switch contacts.

"Experiment" was developed and is being produced by Prism Productions, Inc., specialists in interpreting science and technology for television, industry and education. Starting Thursday the series will be televised over the National Education Television network consisting of 104 local stations across the United States, including the UNC station. The series is being underwritten by grants from the National Science Foundation and the Alfred P. Sloan Foundation.

Each program in the series deals with the work of an individual scientist and his search for new knowledge. Facts and visual material supplementing them are presented simply, clearly and visually.

The drama of each experiment and its result unfolds step by step, involving the viewer directly. The viewer becomes more and more intellectually involved as these steps become increasingly sophisticated. By the end of the program, the viewer has a clearer understanding of the subject and how it may affect him and his environment.

"Laser - The Light of the Future" will present the story of Dr. Arthur Schawlow of

Stanford University and his contribution to the development of the laser.

Other subjects in the series include the science and engineering behind Mariner IV and its successful quest for pictures of the planet Mars, computerized weather prediction, discovery of the invisible planet Barnard's Star B, attack patterns of sharks, white blood cells, social behavior of chimpanzees and the Kilauea volcano.

A distinguished advisory council headed by Dr. Warren Weaver, special consultant to and member of the board of the Sloan Foundation and including Dr. Loren C. Eiseley of the University of Pennsylvania; Dr. Mark Kac of Rockefeller University; Dr. Robert S. Morison, Cornell University; and Dr. Frank Press of M.I.T. guides the selection of research projects in the series.

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Cops And Colleges Punish Drug Users

WASHINGTON — (CPS) — Who is responsible for dealing with drugs on the campus, city police or university authorities?

At two different college campuses current incidents underline the problem of students being subject to both civil and university discipline for the same action.

At the University of Maryland, a student who was arrested on October 7 for illegal possession of marijuana and barbiturates was immediately suspended from his dormitory and then "indefinitely suspended from the University" before a court hearing could take place.

Robert F. Sauer, 18, was suspended on the basis of several University regulations prohibiting activities outside "accepted standards of conduct." A university official said that the suspension was independent of any legal action which the courts might take, since the school had conducted its own investigation of the case.

The University of Colorado has said it will consider disciplinary action against students who have been arrested by the Boulder city police after they receive a court decision.

Four people have already been arrested by Boulder city police in connection with an investigation into the use of marijuana.

As more and more college students become involved with drugs that are generally defined as illegal, administra-

tions are being forced to define their own position on the issue. The positions that are voiced, however, usually fall back on offences such as "behaviour unbecoming a UNC student."

This fall, for the first time the Carleton College student handbook contained a clause about student use of "narcotics, stimulants, or hallucinogens." The handbook says only that the college believes drugs to be "a threat to the health and welfare of the individual concerned as well as to the community as a whole."

Grinnell College in Iowa last spring issued a statement to students and parents clarifying the college's position on drugs, and pointing out the harmful effects of experimentation with drugs.

The statement concluded that "Grinnell College intends to regard any student found to be contributing to the problem by using drugs illegally or by contributing to others' use of drugs as having engaged in unacceptable conduct and subject to dismissal (depending on the circumstances of the student's involvement, however, the College may, at its option, deal with the matter through counseling and other resources)."

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