

electronically controlled, to create complex and varied patterns.

A state-wide project called "Operation Smile" has been launched to teach Washington State residents how to welcome tourists and "sell" points of interest to them.

The concrete poured into the coliseum building would be enough to build a sidewalk from Seattle to the state capitol at Olympia, 60 miles away.

The younger set will have access at Century 21 to "thousands of various kinds of hamburgers"—including an open faced hamburger "with a scoop of ice cream and sundae sauce on top."

• Science News Letter, 80:226 September 30, 1961

#### GENERAL SCIENCE

### Great Increases Made In Canadian Research

➤ EVIDENCE of the great increase in university research in Canada is shown by the record support of \$10,477,031 given for this purpose in 1960-61 by the National Research Council and the Medical Research Council.

The Council's report said the grants were dictated by the steadily increasing student enrollment and the resulting expansion of staff and research facilities. Awards amounted to \$1,110,000 more than in 1959-60 and \$7,000,000 more than in 1956-57.

Science and engineering research received the most support, \$7,169,402, while medical research received \$2,307,467. Awards were made to both student and university staff researchers. The balance of the total was used for publications, conferences, administration of program and other indirect support.

• Science News Letter, 80:227 September 30, 1961

#### PUBLIC HEALTH

### Flu Vaccination Urged For Possible Outbreaks

➤ DESPITE a lack of current flu cases, an epidemic may be just around the corner. Predictions are now that Asian flu (type A) and influenza B, caused by a different virus, will hit the United States in the fall and winter of 1961-62.

No specific drug is known to cure influenza, but combined A and B vaccines are 60% to 80% effective in combating the disease.

Health officers and private physicians are being furnished by Surgeon General Luther T. Terry, U.S. Public Health Service, with current recommendations of the Surgeon General's Advisory Committee on Influenza.

Immediate vaccination for persons over 65 years of age, for pregnant women and for those with cardiovascular, pulmonary and other chronic diseases, including diabetes, are advised.

Those who have not had any previous shots should have a second injection in two months. Some good can be obtained within a week from the first shot.

Prediction of A and B outbreaks is based on previous cycles. Both types of flu

were prevalent in England last year. In 1951, when a similar epidemic struck that country, it reached the U.S. the following year.

In the period 1957-60, 86,000 deaths in excess of the normally expected number occurred in this country. More than two-thirds of these deaths occurred in persons 65 or older.

Influenza may be merely a terminal event in an already debilitated patient, but influenza and its accompanying pneumonia may kill a person in active, productive life, although within an older age group, or with definite but compensated chronic disease.

The adult dosage recommended is one cubic centimeter of polyvalent vaccine injected under the skin. Persons previously immunized should be reinoculated with a single booster shot of one cc. each year.

• Science News Letter, 80:227 September 30, 1961

#### BUSINESS ADMINISTRATION

### Advance Training Helps Handicapped Tradesmen

➤ A HANDICAPPED person stands a better chance of operating a small business successfully if he gets thorough training before the business is established and expert supervision afterward.

This was confirmed in a study of 150 handicapped persons running businesses in northern Alabama. The three-year study was undertaken by the Alabama School of Trades, Gadsden, using \$47,607 in grants from the U.S. Office of Vocational Rehabilitation.

Those checked included 110 persons in a control group, each set up in business by the State Vocational Rehabilitation Service. Only about ten percent of the group received any preparatory training.

The 40 persons in the second group were screened and trained by School of Trades specialists, and were supervised by project personnel after the businesses opened.

Both the control group and the smaller demonstration group operated skilled trades service enterprises, retail sales outlets and agricultural projects.

Forty-three percent of the untrained control group failed in business, while only 22% of the trained demonstration group failed.

No comparable figures for failure rates among new American businesses in general are available, but a Department of Commerce study shows that 54% of new firms usually survive the first 18 months, 26% survive five and one-half years, and 19% survive ten and one-half years.

The study showed that the most important factors leading to the business success of a physically or mentally handicapped person are managerial ability, emotional stability, aggressiveness, maturity, community reputation and reliability. Age, formal education and business location are less important than personality traits.

Of the 88,000 disabled persons rehabilitated last year under state-Federal programs, about 8,000 were helped by state vocational agencies to become small businessmen.

• Science News Letter, 80:227 September 30, 1961



### PRE-TRIG by McShane

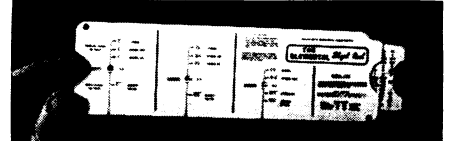
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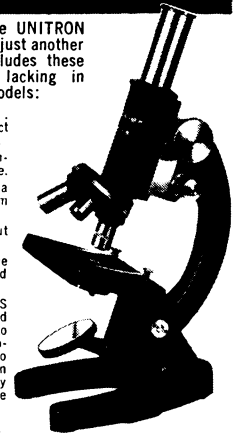
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