

PSYCHOLOGY

# Psychology Group Issues Manifesto Against War

## No Scientific Proof Exists for View That War Is Inevitable or Due to Man's "Aggressive Instincts"

**W**AR IS NOT inevitable and not part of "human nature."

This is the Armistice Day pronouncement of a dozen psychologists from eleven universities who form the council of directors of the Society for the Psychological Study of Social Issues.

Ninety per cent. of several hundred American psychologists, polled by the society, join in denying that any proof exists for the view that man's "aggressive instincts" lead to war.

Society does not tolerate the settling of individual disputes by fighting.

As soon as war is declared, young men are told to kill other men, whereas we spend years teaching the sanctity of human life.

These are points made in the psychological manifesto.

The psychologists also charge that those who fight are prevented from knowing the real reasons for the war and are artificially motivated by propaganda often composed of utter lies.

"There is no psychological reason for wars to continue if we learn how to discount the propaganda of war-makers, and how to insist upon the peaceable adjustment of international conflicts," says the statement.

The statement is subscribed to by the entire council of the society, which consists of the following psychologists: Drs. Gordon Allport, Harvard University; J. F. Brown, University of Kansas; Hadley Cantril, Princeton University; Leonard Doob, Yale University; H. B. English, Ohio State University; Franklin Fearing, University of California (Los Angeles); George W. Hartmann, Columbia University; I. Krechevsky, Swarthmore College; Gardner Murphy, Columbia University; T. C. Schneirla, New York University; Ross Stagner, University of Akron; E. C. Tolman, University of California (Berkeley). The complete text follows:

### The Text

"The celebration of this Armistice Day, 1937, should not be allowed to pass without a serious consideration by all Americans of the dangers of another

war. Of course everybody is opposed to war! But undeclared 'wars' are now raging in Europe and in Asia, and no one can deny that we are in a situation which threatens war.

"Faced with this grave set of circum-

stances, many people will say, 'War is inevitable; it is part of human nature to have wars.'

"We, as psychologists, protest most emphatically against the common belief that wars are necessary results of 'human nature.' This opinion is without scientific foundation. There is no evidence to justify it. In a recent poll of several hundred American psychologists, all of whom have studied the instinct question thoroughly, over 90 per cent. denied that any proof existed for the view that man's instincts lead to war.

"Not only is the inevitability of war unsound psychology; it is also a handicap to peace efforts. (Turn to Page 318)

INVENTION

# Original Bell Phonograph Unsealed After 56 Years

**A** VOICE sounded across fifty-six years when the first successful phonograph ever built, silent for more than half a century, was played at the Smithsonian Institution in Washington.

Deposited in a sealed box in the vaults of the Institution in 1881, the phonograph was brought out into the

light of day and a record deposited with it was reproduced through a modern loudspeaker.

Descendants of Alexander Graham Bell, co-inventor, looked on as the grandfather of all sound recording devices now in commercial use was lifted out of the box in which it had



### FIRST PHONOGRAPH

*Silent for half a century, the first phonograph is opened in the presence of the daughters of the inventor Alexander Graham Bell, his great-grandson, and Dr. C. G. Abbot, secretary of the Smithsonian Institution.*

rested through all the fifty-six years.

Though difficult to understand at first, the voice on that aged wax cylinder, "There are more things in heaven and earth, Horatio, than are dreamed of," resounded clearly through the Regents Room of historic Smithsonian.

Bell and the two co-inventors, Chester Bell and Charles Sumner Tainter, had placed the "graphophone," as they called it, and other apparatus in three sealed boxes with the Institution in anticipation of a court battle over priority in the invention of the phonograph. They left instructions that it was not to be opened unless instructions were given by two of the three inventors.

Both Bells are dead now, but 84-year-old Tainter, an invalid at San Diego, Calif., ordered the Institution to open the boxes. The ceremony was once postponed because permission had not been obtained from all of Bell's descendants.

Sealed in a metal-covered wooden case half the size of an orange crate, the "graphophone" was packed in with a rubber speaking tube for making records and the electrotype matrix for an early phonograph record. But the rubber tube had long since hardened and the copper plate long since turned green with age.

Two other boxes, containing a model of the "photophone," the first device ever to transmit the human voice without wires and based on the same principle as the talking picture today, were opened at the same time.

The photophone made use of one of the earliest "electric eyes" to convert a beam of light, controlled by the speaker's voice, back into sound again. The speaking tube with it, too, was stiff with years.

Mrs. David Fairchild and Mrs. Gilbert Grosvenor, both daughters of inventor Bell, who is noted for the invention of the telephone, were with Dr. C. G. Abbot, secretary of the Smithsonian Institution, and T. H. Beard, research director of the Dictaphone Company, when Mr. Beard set to work on the case containing the "graphophone" with a screw driver. A few minutes of work and the machine was in full view.

A phonograph recording machine was patented by Thomas A. Edison four years before, but it was not commercially successful. It used tin foil wrapped around a cylinder instead of the wax cylinder devised by the Bells and Tainter. The tinfoil cylinder has passed completely out of use, while the wax cylinder is still used for office dictation machines, discs made of wax and other materials for phonographs.

*Science News Letter, November 13, 1937*

#### SOCIOLOGY

# Women Produce Large Share Of Family Income in America

## One Out of Ten Families Are Headed by Women; A Third of Women Wage Earners Keep Homes as Well

**T**HE hand that rocks the cradle not only rules the world but brings home the bacon.

Women in America today, whether they pound a typewriter or cook the family dinner, produce a large share of the family living, Miss Mary Elizabeth Pidgeon, chief of the research division of the Women's Bureau, U. S. Department of Labor, has found.

Women are at the head of one out of every 10 families in the United States, she found. Probably more than one-tenth of the nearly 11,000,000 employed women are the entire support of families of 2 or more persons. More than a third of these are home-makers as well.

The housewife herself, working at least a 50-hour week every week of the year, makes an enormous contribution to the family income, but one that is difficult to put into dollars and cents. The cost of her labor in preparing the family meals according to one estimate is \$1,167 a year. This is based on 15 cents worth of labor per meal—a very cheap estimate, Miss Pidgeon points out. If preparing the family meals represents about one-third of the housewife's services, then the money value of her work would run to over \$3,500 a year.

Women, by going into industry and taking jobs outside the home, have not forced men out of jobs, it appears from Miss Pidgeon's findings. Women found employment outside the home primarily because of the shift from household to factory manufacture or from hand skills of women to machine processes. It is not a question of women's taking jobs from men but of the adaptation of the sexes to the work of the world.

### No Replacement

"Ordinarily the jobs performed by the two sexes differ and hence replacement as such does not occur," she states.

Where employment of women does increase though that of men may decline, it is due, Miss Pidgeon finds, to changes in process and the lower wage customarily paid women.

Miss Pidgeon's study was made at the

request of the following 10 large national organizations of women: American Association of University Women, American Home Economics Association, Interprofessional Association, National Board of Young Women's Christian Association, National Consumers' League, National Council of Catholic Women, National Council of Jewish Women, National Federation of Business and Professional Women's Clubs, National League of Women Voters, National Women's Trade Union League.

*Science News Letter, November 13, 1937*

#### MUSEUM SCIENCE

## Visitors Can Turn Lever And Find Length of Lives

**H**OW long are you probably going to live? How does a cut finger heal? What happens when it gets infected? Where is that sacro-iliac joint that got out of whack and doubled you up with backache the other day? What is the



### TOUCH

*The design on this hand model shows where the touch corpuscles, nerve-endings sensitive to the touch, are located. It is on display at the new "Story of Man" Exhibition.*