

## AMA Meeting

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descends. This device, with the use of individual oxygen supplies, would provide an adequate margin of safety.

Short-term bursts of radiation associated with sun flares, another potential source of exposure, could be avoided by using the flare warning network of ground-based radar stations, solar observatories and neutron monitors being established in support of the national space program.

Future radiation weather satellites may provide as comprehensive a preflight radiation forecast as is anticipated for inflight weather. Such advance radiation forecasting would limit crew exposures to less than 25 per cent of that accepted for radiation workers and virtually eliminate all risk to passengers.

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## Weight Lifting Advised

► IT TAKES regular major muscle flexing for aspiring athletes to get strength to train for setting new world records of the future.

Prof. Laurence E. Morehouse, director of the University of California's human performance laboratory, Los Angeles, told the American Medical Association conference in Los Angeles that weight lifting is good for almost any kind of sport training.

"The key to improvement in power is tension," he said. He recommends one intense muscle contraction a day or even only twice a week to improve strength. Light muscle contractions repeated a thousand times a day will not improve strength in the normal person.

Other information given the physicians concerned with sports:

Coaches and trainers should be taught resuscitation and heart massage techniques so they can handle emergencies among athletes—Dr. Robert O. Bauer, Los Angeles.

A good pair of lungs, a level head and stamina are basic requirements for persons who engage in the sport of scuba diving—Dr. L. M. Morrisset, El Cajon, Calif.

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## Suicide Rate Changes

► SUICIDE is more common among the well-paid population today. Thirty years ago it was more prevalent among Americans in the low-salaried working class.

The suicide rate in San Francisco is two and a half times that of the country as a whole, and the rates are also high in Oakland, Calif., and Los Angeles, as well as in Seattle, and Portland, Ore. In general, however, rural and urban areas now have the same suicide rate. Thirty years ago cities recorded a rate nearly 60 percent higher than rural sections.

Dr. Louis I. Dublin of Winter Park, Fla., a medical statistician who spoke at the clinical meeting of the American Medical Association in Los Angeles, estimated that perhaps as many as two million persons in this country have attempted to take their lives at least once.

A great many of the unsuccessful will try again, he said, adding that on the basis of a recent study, ten per cent will eventually succeed. Men and older persons are more successful in taking their lives than women and young people.

"The unsuccessful often make sure they will be discovered and saved before it is too late," Dr. Dublin said. "They are crying for help and sympathy."

He urged more intensive investigation of attempted suicides, and more suicide prevention centers such as exist in Los Angeles and are being planned in Indianapolis and Tulsa, Okla.

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## RADIOLOGY

### Radiation Measured Over Entire Human Body

► THE FIRST whole-body radiation counter capable of recording separately the amount of radiation in 18 different sections of the body is now in operation at the National Institutes of Health (NIH) in Bethesda, Md.

The new instrument, installed in the NIH Clinical Center, will make possible more sensitive, more accurate and more detailed studies involving low levels of radiation.

The device, together with a second counter designed to sort out and identify the particular isotope or isotopes present in the body, is used in two specially-constructed rooms of six-and-a-quarter-inch-thick armor plate salvaged from old battleships. This is necessary to keep background radiation at a minimum, since modern steel may contain some radioactivity.

Among the types of research seen for the new counter are investigations of blood and metabolic disorders.

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## ZOOLOGY

### Bees Dance Fast If Memory Lingers

► A BEE'S memory determines the tempo of its tail-wagging dance which indicates the distance to a honey source.

German scientists have mathematically shown that the bee's dance is faster and more furious for short distance runs to honey. It slows down if the distance is longer and the bee tends to "forget."

It was found that for longer distances the bee forgets a certain fraction of the path in relation to the round trip path. If a maximum path to honey for a bee is chosen the tempo of the dance for a fraction of the distance is the same as in shorter distances. As fractions of the distance are forgotten, the dance tempo slows down correspondingly.

This research is reported by Prof. Karl von Frisch of the Zoology Institute of the University of Munich and Prof. O. Kratky of the Institute for Physical Chemistry at Graz University, Austria, *Die Naturwissenschaften*, 49:409, 1962.

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## GENERAL SCIENCE

### Science Youth Activities Panel for AAAS Meeting

► SCIENCE YOUTH activities, including science clubs, fairs and talent searches, will be explored at the annual meeting of the American Association for the Advancement of Science when it convenes in Philadelphia, Pa., Dec. 26 to 30.

A special panel discussion to be held in the Reception Room of the Bellevue-Stratford Hotel on Saturday, Dec. 29, at 2:00 p.m., has been arranged by Leslie V. Watkins, executive secretary, Science Clubs of America.

Panel members will be Dr. Thomas E. Bowman, Jr., surgeon, Camp Hill, Pa.; Clifford A. Shaw, director, community affairs of the Providence Journal, Providence, R. I.; and Dr. Jacob L. Rhodes, head, physics department of Lebanon Valley College, Annville, Pa. Dr. Watson Davis, director, Science Service, will preside at the meeting.

Science teachers and club sponsors, science supervisors, guidance counselors, science fair committee members, and Science Talent Search cooperators are invited to attend the session at the AAAS meeting and to participate in the discussion.

Other meetings for science educators will include a session on Experimentation and Measurement to be held Friday, Dec. 28, at 9:00 a.m. in the Bellevue-Stratford Hotel sponsored by the National Science Teachers Association in cooperation with the Pennsylvania Science Teachers.

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## MEDICINE

### Canada Medical Services Unified For Armed Forces

► A THREE-YEAR operation to unite Canada's military medical services was pronounced a complete success in Washington, D.C., by Rear Adm. T. B. McLean, Surgeon General, Canadian Forces. Similar administrative suturing to tie together the medical parts of U.S. military forces is under serious consideration.

The unification of Canadian Army, Navy and Air Force medical sections has resulted in a thriving whole in which function now takes precedence over service demarcation, Adm. McLean told the Association of Military Surgeons of the United States.

Each of the three Deputy Surgeon Generals of the Canadian Forces Medical Service is identified by the function he administers rather than by the military branch to which he may be assigned. The functions are general medicine, surgery and preventive medicine. Functional operation without regard to branch of service has made possible more efficient use and dispersal of medical personnel and equipment with the result that Canadian armed forces and their families are getting far better medical care at less cost to the nation. Needless duplication of medical installations so that each service can equal the medical facilities of the other now is part of "an antiquated past," Adm. McLean said.

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