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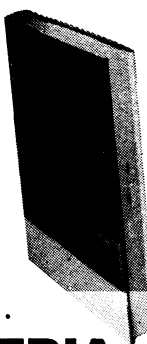
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### MEDICINE

## School Children Suffer Neglected Foot Ailments

➤ MOST CHILDREN who will return to school this fall will have seriously neglected but correctable foot ailments.

A nationwide survey, conducted by the American Foot Health Foundation, revealed that 78% of school-age children have foot ailments. These figures are based upon a pilot study of 100,000 children.

A program for regular foot examinations in the schools has been proposed by the foundation, Dr. Sidney Hirschberg, president, reported at the 46th annual meeting of the American Podiatry Association in Washington.

In view of the need for examinations of school children, the foundation outlined a nationwide program for conducting children's free foot health examinations in October, 1958, by licensed foot doctors in support of the activities of President Eisenhower's Council on Youth Fitness. Cooperation of local boards of education and podiatry societies will be called upon to execute such a program.

Science News Letter, September 6, 1958

### BIOLOGY

## Adelie Baby Is Well Protected Against Cold

See Front Cover

➤ THE WATCHFUL Adelie penguin mother shown on the cover of this week's SCIENCE NEWS LETTER has chosen a rocky nest for her young one. This newly hatched chick proudly poses among the estimated 10,000 birds at the Penguin Rookery located on Mt. Bird, Ross Island, McMurdo Sound, Antarctica.

The Adelie penguins were first seen by the French explorer, Admiral d'Urville, who named them after his wife. The Adelie is about two and a half feet high and, compared with the dignified Emperor penguin, these birds are more fun-loving.

These cold weather birds lay only one egg each year and may travel as far as 400 miles over snow and ice and through the water to reach their nesting grounds. The female uses small stones and the bones of penguins that have died on the rookery in past years to build her nest.

Science News Letter, September 6, 1958

### ASTRONAUTICS

## Weightlessness in Space Increases Re-Entry Effect

➤ WHEN A PILOT of a rocket vehicle re-enters the earth's atmosphere after having been weightless in space flight, he will have less tolerance to acceleration and less rapid recovery from space effects than in ordinary flight conditions of constant gravity, Dr. Harald J. von Beckh of the Aero Medical Field Laboratory of Holloman Air Force Base, N. Mex., told the Congress of the International Astronautical Federation in Amsterdam.

Using a F-49C jet fighter, human reactions to accelerations followed or preceded by weightlessness were tested by flying two patterns that combined a period of 40 seconds at 4 to 6.5 G's with a maximum of 45 seconds at subgravity, or weightless, conditions.

The human guinea pigs, pilots and non-pilots, reported grey-out, black-out and loss of consciousness at lesser thresholds than those who flew as controls.

Dr. von Beckh warned that in planning manned space flight the thrust and re-entry plans should take the lower acceleration tolerances into account and the pilot should have adequate G-protection to prevent danger from high accelerations.

Science News Letter, September 6, 1958

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