to actual use by swimmers of all age groups. Only when the samples have successfully met the requirements is approval given.

NEW TYPE DEVELOPED

Until recent years, the two-pad, kapok-filled "standard" lifejacket was the only type approved. Recognizing, however, that it was unsuitable for continual wear in small boats, the Department of Transport allowed the introduction of the less bulky "small vessel" lifejacket, which the public is encouraged to wear at all times while boating.

The Lifejacket Committee was formed at this time and dozens of designs, producer both by manufacturers and individuals, have since been tested. The principal aim has been to achieve a type that would incline the wearer backward while floating and keep his head out of the water as much as possible.

However, variations in weight distribution between human beings is such that it is impossible to design a lifejacket that will provide maximum protection for every individual. No single jacket will give equal support to short, tall, thin and stout persons in the water.

SPECIAL PROBLEM OF CHILDREN

Lifejackets for children are a special problem, since the upper part of a small child's body is much heavier than the lower. Variation in size makes fitting difficult, and the Department has urged parents to see that such jackets fit properly and are securely and properly put on each child. The Department has (C.W.B. September 27, 1961)

urged that a child be made familiar, under supervision in the water, with the fact that his lifejacket will support him. This will reduce his natural terror in an emergency. A frightened child's attempts to lift himself out of the water are likely to cause him to roll over, even in a lifejacket, with choking and drowning a possible result. The Department's safety officials have continually pointed out that no lifejacket or other safety equipment can entirely replace close parental supervision where water danger exists.

DANGERS OF MISUSE

The misuse of kapok-filled lifejackets, which are likely to be sat upon, used as boat fenders, dropped in gas or oil-covered bilgewater and otherwise ill-treated, is an ever-recurring problem. Failure to pay attention to the proper method of wearing jacket is a common danger; when a passenger tumbles overboard, it is too late for him to try and make adjustments that might save his life.

Designers are faced with the fact that no jacket can keep the head of an unconscious person completely clear of choppy water. Waves are likely to splash over his head, and even a conscious person, weakened by shock may quickly be choked by even small waves.

Unicellular plastic foam is rapidly gaining popularity as buoyancy material. It is impervious to damage that can impair the buoyancy of kapok fillers. Kapok is still used in many approved jackets, contained in sealed vinyl plastic bags, and is dependable as long as the containers are undamaged and the jackets cared for and used properly.

The Department of Transport is continuing in study and testing of new designs of life/ackets fo small-boat users. Transport Minister Leon Balca said recently Mr. Balcer's statement followed austions as to what the department was doing to improve life acket standards at inference to control to improve under the disection of the Matienal Recently Control is, made the disection of the Matienal Recently Control and the disection of the Matienal Recently Control is, made the disection of the Matienal Recently Control and the disection of the Matienal Recently Control is, made the disection of the Matienal Recently Control for a state disection of the Matienal Recently Control is, made the state of the Matienal Recently Control for a state of the state state of the Control dian Red Cross beating organizations have the manufectures, the motor state results or the Hersen dian Red Cross beating organizations have the state of the control of the state of the Control dian Red Cross beating organizations have the dian Red Cross beating the state and the vehice and dian Red Cross beating the state and the construction and the state trues of floated allowed to determine the heat trues of floated and tender test and manufacture from the manufactures and the state for the begating he the is required, are cumulted to the begating he the manufactures and these standed to the begating he the ison floated of the begating heat and ison floated and these standed for the begating heat and the begating and these standed to the begating heat and the begating and the states and the states and the states and the states of a states and the states a

COMMERCIAL FAILURES

6

* * *