

- 974 Prevention of Gas Explosions in Chemical Manufacturing Plants. Elwyn Jones. J. Soc. Chem. Ind. 68, 117-118 (April, 1949).

The normal method of eliminating the danger of explosion with mixtures of an inflammable gas and air or oxygen is to render the mixture incapable of flame propagation by using a large excess of one component, or by the addition of an inert diluent. Consideration of the limits of inflammability of mixed gases suggest another and more powerful method, namely, the introduction of an additional inflammable ingredient of a type which has a low upper limit of flame propagation. The limit concentration being measured by volume, suitable additives will normally be characterized by a high molecular weight. A wide choice of such materials is available so that a suitable additive can probably be found to satisfy any specific requirements. -- Author's Summary

- 975 Personal Factors in Industrial Accidents. A Study of Accident Proneness in an Industrial Group. W.A. Wong, and G.E. Hobbs. Ind. Med. 18, 291-294 (July, 1949).

The accident prone worker can be identified by a simple analysis of the frequency of occurrence of superficial injuries. Those who have the most frequent minor accidents have a disproportionate number of major accidents. The personal history of the high accident group differs from the low by being marked by evidence of aggression and intolerance for family, social, or work discipline. This evidence suggests that the basic cause is to be found in the life-long pattern of emotional reaction that is uninfluenced by reason or education. If it is determined that a worker is accident prone to a marked degree, there is little to offer except transfer to a less dangerous occupation. -- Authors' Summary and Conclusions

New Equipment

- 976 Supplemental List of Respiratory Protective Devices Approved by the Bureau of Mines. Additions to List Published in Inf. Circ. No. 7444. L.B. Berger. U.S. Bur. Mines Inf. Circ. No. 7513. 3pp. (April, 1949).

One to two in each of six types of masks or respirators have been approved since the publication of Inf. Circ. No. 7444, in March, 1948, (INF Abstract No. 552 May, 1948). Their approvals are listed here.

- 977 New Devices for Disability Evaluation: I Hand, Wrist, Radicular, Elbow and Shoulder Ergographs. F.A. Bellebrandt, Helen V. Skowlund and L.E.A. Kelso. Arch. Phys. Med. 29, p.21 (Jan. 1948).

A series of self-contained, ink-writing ergographs were developed for the appraisal of the functional capacity of the major articulations