

DISCUSSION

*A. F. Conn*¹—The authors are to be congratulated on developing and performing a most difficult series of experiments in order to photographically capture considerable detail of the impact and splash from a jet of water on elastomers. However, I feel that if the objective of using such splash data to understand either the impingement or cavitation erosion behavior of such materials is to be met, one must utilize their dynamic properties and not the static values cited during the oral presentation of this paper. Our tests at HYDRONAUTICS with such elastomers have shown that their dynamic response differs greatly from the static properties. Due to the extremely high rates of loading associated with either droplet impingement or cavitation, one should not expect static mechanical property test results to shed light on these dynamic phenomena.

F. G. Hammitt (authors' closure)—The authors would like to thank Dr. Conn for his kind remarks concerning our high-speed photography used in this study. We agree with him that the dynamic properties of the materials should certainly be used, rather than the static properties, to correlate damage resistance, provided these are available. However, as far as we know they are not at present available for the materials here tested.

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