Cryogenic design innovation: From NASA's fundamental physics program to advanced cryosurgery

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Petroleum Engineering Building Room 121 at 2:00 p.m.
Introduction by Dr. Fazle Hussain

Abstract: I will discuss advanced new techniques in cryogenic design that have been developed within my research group over the last three decades, which have resulted in discoveries of new phenomena in superfluidity. The resulting new physics has led to predictions and observations of similar new collective phenomena in other systems. Our novel cryogenic design has also led to the development of a genuinely new thermodynamic approach to cryosurgery, which is now emerging at scale in the medical marketplace. There are many opportunities to advance this work further, and collaborators are actively being sought.

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