

# Fabrication and Properties of Intrinsically Low Nonlinearity Optical Fibers

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## **Abstract:**

This talk explores the fabrications processes and “many knobs” that must be turned to achieve low nonlinearity performance in modern optical fibers.

Active optical fibers that exhibit intrinsically low nonlinearities such as SBS suppression or increased TMI thresholds is the end research goal for many groups. Materially, these phenomena are well understood, as is the method to achieve the target thresholds.

## **Biography:**

Dr. Hawkins is a Research Assistant Professor (since 2020) at Clemson University and the Optical Fiber Fabrication Lab Director (since 2012). He received his Ph.D. 2020 in Materials Science and Engineering from Clemson University.