

From the Editor

Publication Date

This issue is the third of Volume 49 of *TS*, corresponding to July-September 2025. For the record, the issue was published in September 2026.

About this issue

In this issue, the article by Sudhi, Badrya, and Radespiel investigates the design optimization of a dual-mode airfoil which exploits the performance enhancement of boundary layer suction combined with reliable performance of natural laminar flow design. Their design retains performance comparable to the established DU89 airfoil when operating without suction, while achieving an average drag reduction of 27% when boundary-layer suction is active. This offers an intriguing direction for future high-performance sailplanes with airfoils designed to ex-

plot electrically powered flow control when power is available without becoming overly compromised when it is not.

The original paper was presented at the XXXVI OSTIV Congress in August 2024 in Uvalde, Texas, and received the OSTIV Mertens Award for an outstanding technical contribution.

Very Respectfully,

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