

Technical Soaring



The Technical and Scientific Journal of The Soaring Society of America and
Organization Scientifique et Technique Internationale du Vol a Voile

MANAGING EDITOR

Rob Sjostedt

OSTIV EDITOR

Cedric O. Vernon

SSA TECHNICAL PANEL

CHAIRMAN, SSA TECHNICAL BOARD

H. M. Schurmeier

DESIGN AND CONFIGURATION

Mark Maughmer

AERODYNAMICS

Dan Somers

METEOROLOGY

Harry Senn

STRUCTURES AND MATERIALS

Ed Crawley

INSTRUMENTATION AND EQUIPMENT

John Hansman

FLIGHT TESTING

Einer Enevoldson

TOWPLANES AND LAUNCH SYSTEMS

E.J. Indrebo

OSTIV REPRESENTATIVE

Bernald S. Smith

AIRWORTHINESS TECHNICAL STANDARDS

Al Blackburn

OSTIV

PRESIDENT,

Dr. Manfred E. Reinhardt

CHAIRMAN, TECHNICAL SECTION

Dipl. Ing. Winfried M. Feifel

CHAIRMAN, SCIENTIFIC SECTION

METEOROLOGICAL PANEL

Prof. C.E. Wallington

CHAIRMAN, SAILPLANE DEVELOPMENT PANEL

Prof. Dr. Ing. Piero Morelli

CHAIRMAN, TRAINING AND SAFETY PANEL

Bill Scull

©1993 The Soaring Society of America
All Rights Reserved

OSTIV SECTION

| | |
|--|-----------|
| OSTIV Announcement | 2 |
| Wally Wallington-A Life for Meteorology in Airports by Manfred Reinhardt | 4 |
| Verification of the SM701 Airfoil Aerodynamic Characteristics Utilizing Theoretical Techniques by Kenneth D. Korkan, Robert C. Griffiths, and Stefan A. Ullenberg | 8 |
| The Low Sink Glider by Frans van der Kreek | 16 |

SSA SECTION

| | |
|---|-----------|
| Wind Tunnel Tests of the SM701 Airfoil and the UAG 88-143/20 Airfoil by D. Althaus and W. Wurz | 21 |
|---|-----------|

The objective of *Technical Soaring* is to document recent advances in the science and technology of motorless aviation.

Technical Soaring is published quarterly by the Soaring Society of America, Inc., P.O. Box E, Hobbs, NM 88241 (505) 392-1177. Subscription price for SSA members is \$24.00 (four issues per year) in the U.S., Canada and Mexico; for other foreign countries—\$27.00 per year. Subscription for non-members of the SSA is \$30.00 per year.

First class or airmail can be arranged for an extra fee. Subscribers should send change of address notices to the above Hobbs box number, being sure to mention *Technical Soaring*.

Submitted papers will be subjected to a technical review before being accepted for publication. Manuscripts should be sent complete with illustrations and cover letter to: Rob Sjostedt, 2500 E. Walker Lane, Salt Lake City, UT 84117.

Papers submitted for consideration by OSTIV should be sent to: Cedric O. Vernon, 15 The Piccards, Chestnut Ave., Guildford/Surrey GU2 5DW.