Technical Soaring



27

The Technical and Scientific Journal of The Soaring Society of America and Oganization Scientifique et Technique du Vol a Voille

MANAGING EDITOR

Rob Sjostedt

OSTIV EDITOR

Ladislav Smrcek, Jr.

SSA TECHNICAL PANEL

CHAIRMAN,

SSA TECHNICAL BOARD

Stephen Northcraft

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.

L.M.M. Boermans

CHAIRMAN,

TECHNICAL SECTION

Dipl. Ing. Winfried M. Feifel

CHAIRMAN,

SCIENTIFIC SECTION

METEOROLOGICAL PANEL

Dr. H Trimmel

CHAIRMAN,

SAILPLANE DEVELOPMENT PANEL

Prof. Dr. Ing. Piero Morelli

CHAIRMAN.

TRAINING AND SAFETY PANEL

Bill Scull

©1998 The Soaring Society of America All Rights Reserved ISSN# 0744-8996

om ocun

A Comparative Evaluation of Glider Parachute	
Rescue System Design Aspects	
by Michael G.Woollard	3
Further Fatigue Testing of a Glass Fiber	
Reinforced Plastic Glider Wing	
by C.A.Patching and L.A.Wood	1
Use of Satellite Navigation for Sailplane	
Performance Measurements	
by Andreas Lipp	17
Instability Indices for Atmospheric Convection	
by Z. Aslan and A. Tokgözlü	24

OSTIV SECTION

SSA SECTION

Light Sailplanes

The Optimization of Wing Planforms for

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*, 1544 Blue Heron Way, Oregon, W153575. Papers submitted for consideration by OSTIV should be sent to:

Mr. Ladislav Smrcek, Jr., Dept. of Aerospace Engineering, University of Glasgow, University Avenue, Glasgow-G12 8QQ Great Britain.