Technical Soaring



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

EDITORS

Rob Sjostedt Dr. Ing. Ladislav Smrcek

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

Mark Maughmer

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

Dr. Ing. M. Rehmet

CHAIRMAN.

TRAINING AND SAFETY PANEL

S. Havbrandt

©2000 The Soaring Society of America All Rights Reserved ISSN# 0744-8996

Weather Conditions in Southern Africa for Long Distance High Speed Soaring Flights	and	
Helmuth H. Fischer	04	€ŢŅ
Experimental Investigation of the Load Spectrum and Fatigue Tests of the PW-5 World Class Glider		
Miroslaw Rodzewicz Ph. D. & Adam Przekop M. Sc	15	o(1 v
Status and Future of the World Class Pierro Morelli	21	od iv
What Stature Pilots are Allowed to Fly Sailplanes? Gerhard Waibel	30	σţν
JAR-22 Study Group W. G. Scull	31	o clu

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 2100, 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. Members of OSTIV will receive Technical Soaring as part of their membership. 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 and scientific review before being accepted for publication. Manuscripts should be sent complete with illustrations and cover letter to: Rob Sjostedt, 1800 Meadow Ranch Road, McKinney, Texas, USA 75070. Papers submitted for consideration by OSTIV should be sent to:

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