Technical Soaring



20

The Scientific, Technical and Operational Journal of the Organisation Scientifique et Technique Internationale du Vol á Voile (International Scientific and Technical Organisation for Gliding)

Editor's comments

EDITOR

Prof. Emeritus Dr. Edward (Ward) Hindman

OSTIV PRESIDENT

Prof. Emeritus Ir. Loek M. M. Boermans The Netherlands

OSTIV VICE PRESIDENT

Dipl. Ing. Christoph Kensche Germany

MEMBERS OF THE OSTIV BOARD

Dipl. Ing. John Ashford – Australia Dipl. Ing. Helmut Fendt – Germany Prof. Dr. Edward Hindman – USA Prof. Dr. Mark Maughmer – USA Dipl. Ing. Ian Oldaker - Canada Dr. Ing. Lukáš Popelka – Czech Republic Dr. Hermann Trimmel – Austria

CHAIR, SCIENTIFIC SECTION and ASSOCIATE EDITOR

Prof. Dr. Zafer Aslan - Turkey

CHAIR, TECHNICAL SECTION and ASSOCIATE EDITOR

Prof. Dr. Mark Maughmer

CHAIR, METEOROLOGICAL PANEL

Dr. Hermann Trimmel

CHAIR, SAILPLANE DEVELOPMENT PANEL and ASSOCIATE EDITOR

Dipl. Ing. Helmut Fendt

CHAIR, TRAINING AND SAFETY PANEL and ASSOCIATE EDITOR

Dipl. Ing. Ian Oldaker

Copy editing/Layout Ward Hindman City of New York NY USA

Printing – The Hub Print and Copy Center Ft. Lee NJ USA

> Distribution - Pitney Bowes Itasca IL USA

© 2011 Organisation Scientifique et Technique Internationale du Vol á Voile All rights reserved ISSN #0744-8996

Editor's comments
Call for Papers XXXI OSTIV Congress, Uvalde Texas USA, 8 - 15 August 201290
Call for Papers OSTIV-track at SSA Convention, Reno Nevada USA, 2 - 4 February 2012
The OSTIV Küttner Flight Report: Klaus Ohlmann's 1,677 and 2,138 km free straight distance flights
Klaus Ohlmann96
Experimental Study of Lightness Factors and Loading Abilities of Sandwich Structures
Miroslaw Rodzewicz
Boundary Layer Transition, Separation and Flow Control on Airfoils, Wings and Bodies in Numerical, Wind-Tunnel and In-Flight Studies Lukas Popelka, Milan Matejka, David Simurda and Natalie Souckova
Glider's Climb in Turbulent Air
Wolfram Gorisch
A Parametric Study of Flapped Airfoil Lift Enhancement by Vortex Generators
Natalie Souckova, Lukas Popelka, Milan Matejka and David Simurda125
Volume 35, Number 4
The objective of <i>Technical Soaring (TS)</i> is to document recent advances in the science, technology and operations of motorless aviation.

TS is published quarterly by the Organisation Scientifique et Technique Internationale du Vol á Voile (International Scientific and Technical Organisation for Gliding, OSTIV); Kluyverweg 1, NL-2629 HS Delft, The Netherlands, tel: + 31 15 278 6387, fax: + 31 15 278 3533, e-mail: l.m.m.boermans@tudelft.nl, web-site: www.ostiv.org.

Subscription is restricted to OSTIV members but material can be submitted by anyone. Rates per calendar year are Euro 25 for students < 25 years, 45 for Individual/Local Club Membership; Euro 80 for Scientific/Technical Organisation/Library Membership and Euro 250 for Active Members (National Aero Club Members of FAI). Issues are sent by air overseas then surface bulk delivery.

Submitted research papers will be peer-reviewed. Guidelines for preparation and submission of manuscripts can be found on the OSTIV website in the 'editor' section.

TS is in print (grey-shade) and online (full-color) at journals.sfu.ca/ts/. The print copy will continue indefinitely. Back-issues, from Vol. 32, No. 1/2 to the current issue, are online; earlier issues will be put online as possible. OSTIV members have complete access to TS online; non-members access titles and abstracts. For members to obtain access, send your e-mail address to the webmaster Jannes.Neumann@t-online.de. Back-issues can be purchased from either the OSTIV Secretariat or, in the USA, by e-mail from bernald@juggernaut.com. A quick-start guide to access TS online is on the OSTIV website.

An index of TS (Vol. 1 through Vol. 34) is at soaringweb.org/Soaring_Index/Technical_Soaring, Issues are indexed by author, subject and issue. Additional information on TS and information on OSTIV Publications can be found on the OSTIV website in the OSTIV Index. The Index can be searched by right-clicking on the first page, clicking on 'Search', typing in the keyword and clicking on the 'Search' button.

The name Technical Soaring and its cover layout are fully rights-protected and belong to the Soaring Society of America; they are used by permission.