

Soaring Magazine Index for 1990/1990 organized by subject

The contents have all been re-entered by hand, so there are going to be typos and confusion between author and subject, etc...

Please send along any corrections and suggestions for improvement.

1000 Kilometer Flights

Robert Penn, *Sixteen Contestants Fly 1000 Kilometers in Possible World Record Contest Task*, November, page 15

Aerobatics

Wade Nelson, *An Aerobatic Ride at Estrella*, January, page 3

Trish Durbin, *Cat Among the Pigeons*, February, page 20

Bob Kupps, *The Third World Glider Aerobatic Championships (Hockenheim)*, March, page 15

Trish Durbin, *Author's Response (to "Cat Among the Pigeons" Complaints)*, July, page 2

Thomas J. Fuller, *Questions Safety Practice (Aerobatics in I-26s)*, September, page 2

Jerzy Makula, *Questions (Celair GA-1) Ad Claim*, September, page 3

Corwin Sharp, *Litigation or Stress (Limiting Schweizer Loops)*, December, page 2

Aerodynamics

Chris Hadfield, Chuck Louie, Ken Green, Rick Husband, and Nate Jones, *Is Ground Effect Worth It?*, February, page 33

Tom Serkowski, *Contests (Date Publication) and (Pitch-Up of) Flapped Ships*, April, page 3

Helmut Reda, *Thanks for the (Hadfield et al Ground Effect Study) Effort*, May, page 6

Victor M. Saudek, *Facts of Life, Lift and Drag, Part I*, June, page 41

Victor M. Saudek, *Facts of Life, Lift and Drag, Part II*, July, page 36

Author (Vic Saudek) Offers Further Explanation, August, page 12

Victor M. Saudek, *Stability and Control, Chapter 3*, August, page 40

David Fraser, *Partial title (Centers)*, November, page 11

Tom Elmore, *Accent on Clubs Revisited (& 2-22 Aileron Gap Seals)*, November, page 17

Flight Tests

Richard H. Johnson, *A Flight Test Evaluation of the Grob 103C Twin III*, March, page 49

Richard H. Johnson, *Flight Testing of Sailplane Stall Warning Systems*, July, page 25

Flutter

Bert Puchtler, *Concerned About Flutter*, March, page 6

Dick Seaman, *Flutter Questions Answered*, May, page 3

Mark Morton, *More About Flutter*, July, page 4

Gene Sandburg, *Reference on Flutter (August 1977 Soaring)*, August, page 4

Winglets

Kevin Bennett, *Likes Masak Winglets (on a Ventus B)*, November, page 3

Aerospace Education

J.C. Kellett, *Things to Come*, March, page 32

Doug Jacobs, *Perspective (on Making Things Happen)*, May, page 48

Patricia D. Austin, *Heart-Pounding Silence at 3,000'*, August, page 20

Mark Kennedy, *Perspective (on Making People Feel At Home)*, September, page 49

Affiliates, Chapters, and Clubs

Sharon R. Smith, *Tehachapi Turns The 11th Annual Women's Soaring Seminar*, February, page 14

Mitch Deutsch, *The Phoenix Rises From the Ashes (Atlanta Soaring Club)*, February, page 44

Mark Nichols, *Just Another Day in Paradise (Sequatchie Valley, TN)*, July, page 11

Update on 1990 Women's Soaring Seminar (at Bermuda High), August, page 9

Bud Hopp, *Resco (Region 12 Soaring Council) - a Success Story*, September, page 32

George Powell, *Great Time at (Las Vegas Club's) Fun Event*, October, page 6

Atlanta Soaring Club Promotes Soaring, October, page 13
Tom Elmore, *Accent on Clubs Revisited (& 2-22 Aileron Gap Seals)*, November, page 17
New Soaring Club (Atlantic Soaring) Forms in Maryland, November, page 18
Wade H. Nelson, *Soaring Club of Houston Update*, December, page 35

1-26 Association

Bob Hurni, *1989 Silver Anniversary 1-26 Championships, (Tucson, AZ)*, January, page 24
Renard R. Rozzoni, *New Mexico Gold (Distance in a 1-26)*, March, page 22
Need a Challenge? (New Executive Board Announced for 1990), April, page 12
Don Wemple, *From the "We Get Letters Department" of the 1-26 Association*, May, page 6
James L. Lee, *From the "We Get Letters Department" of the 1-26 Association*, May, page 6
1-26 Cross Country Sweepstakes, June, page 17
Gary Knapp, *Recognized (1-26) #248*, August, page 2
Thomas J. Fuller, *Questions Safety Practice (Aerobatics in 1-26s)*, September, page 2
Corwin Sharp, *Litigation or Stress (Limiting Schweizer Loops)*, December, page 2
Larry Pardue, *1-26 Defender*, December, page 3
Marvin Willis, *Eagle's Nest (Odessa, TX) and the 1-26 Championships*, December, page 18

Civil Air Patrol

David R. Hughes, *Youth in Soaring Through the Civil Air Patrol*, March, page 27
Soaring Pilot (and SSA Member) Named as (California Wing) Commander (Ernest C. Pearson), June, page 14
Don Reid, *CAP Cadets Soar at Elmendorf AFB (Alaska)*, September, page 9

National Soaring Museum

Changes at NSM (Executive Director Needed), May, page 12
William E. (Bill) Gallagher, *1990 NSM Hall of Fame and Exhibit Opening*, August, page 34
NSM has a New Director (Dr. Charles R. Smith), December, page 16

Vintage Aircraft

Doug Fronius, *1990 VSA Western Regatta (Hemet, CA)*, October, page 19

Art

Lilia Iglesias, *Watercolor Painting "Otto Lilienthal's Attempt" (Berlin 1893)*, March, cover
History in Wood Carvings (by Wilhelm Molik), April, page 15
A Review of Ed Kilbourne's "Cloudbase" (Music Cassette), June, page 11

Association

Wallace A. Scott, *A Response to the "Hue-In and Cry-In"*, July, page 8

Awards

New Trophy Announced (for Washington State), February, page 10
Nancy Batson Crews Inducted (into Alabama Aviation Hall of Fame), March, page 12
Lew Neyland, *New X/C Trophy (for Landing in Colorado) Announced*, May, page 2
Youth Competition Medallion, May, page 11
1989 Hilton Cup Winners Announced, July, page 10
Lilienthal Memorial Competition 1991, October, page 15

1000 Kilometer Flights

Ed Byars, *The New Castle 1000 km Club*, December, page 26

Badges

Arleen Coleson, *FAI Awards & Badges*, February, page 51
Arleen Coleson, *Soaring Awards*, August, page 50

Flights

Renard R. Rozzoni, *New Mexico Gold (Distance in a 1-26)*, March, page 22

Richard Ohlheiser, *An Old Buzzard Goes for the Gold (Distance in a Pilatus B-4)*, April, page 42

Kareem Fahmi, *First Breath of Spring (for Bronze Duration)*, June, page 25
Good Weather (in Houston, TX) for Bronze Day, September, page 9

Requirements

Arleen Coleson, *FAI Awards & Badges; State Record Rule Changes*, January, page 51

Important! Change in Sporting License Procedures, March, page 12

Arleen Coleson, *Have You Notched Your Barograph?*, March, page 46

Arleen Coleson, *The 1% Rule (Example)*, April, page 50

Arleen Coleson, *FAI Sporting Licenses - Who Needs Them?*, May, page 50

Arleen Coleson, *Suggestions & Reminders (1%, Film, Barograph, Deadlines)*, June, page 50

Michael J. Hoke, *New Rules for New Electronic Barographs*, July, page 43

Arleen Coleson, *Electronic Barographs*, July, page 50

Arleen Coleson, *It's a Small(er) World After All*, October, page 49

Arleen Coleson, *Fall Practice (Barographs & Photography)*, November, page 50

Arleen Coleson, *Details, Details! (Declaration & Marking Camera Lens)*, December, page 48

Claybourn

Claybourn (1989) Award Winner (is Charles Shaw), April, page 12

Kolstad Scholarship

Arleen Coleson, *Kolstad Scholarship Grant*, September, page 50

Kolstad Scholarship and Awards

Kolstad Scholarship Winner (for 1989 Michael Ondeck) Named, March, page 13

Mid and Ken Kolstad, *Kolstad Scholarship Update*, November, page 8

Steve Foreman, *(Kolstad Winner Responds)*, November, page 8

World Distance

Bernald S. Smith, *SSA Instructor Poll (Results and WDA Views)*, December, page 13

Birds

Donald M. Joffray, *A Red-Tailed Hawk and a Soaring Thing*, April, page 45

Bob Cook, *Hawk, HAWK*, July, page 19

Bill Ray, *The Unlikeliest Place Ever!*, September, page 6

Cockpit

Jean-Renaud Faliu, *More About Panel Displays and Looking Out*, March, page 2

Stephen DuPont, *Solution to Spoilers Out (Separate Brake Lever)*, March, page 10

Bob Webster, *The Infallible Gear Warning System or the Coffe Cup Cure for Crunched Composites*, August, page 23

George Thelen, *Belts*, November, page 44

Meal on the Go - a Vast Improvement in Portable Food, November, page 47

Collegiate Soaring

Kaya Zuzak, *Magical Day (the First and Last at UCSD)*, January, page 3

Calling All CFI's (for Collegiate Soaring Help), April, page 11

John Campbell, *(1989) Intercollegiate Champions (Penn State Soaring Club Team & Individuals)*, May, page 11

Jack Laister, *The First Intercollegiate Glider Championships (Purdue University in 1936)*, December, page 23

Commentary

Mark Palmer, *Critical of (Schweizer's Recent) Action*, March, page 9

Laszlo "Les" Horvath, *The Case of the Phantom Mountain*, April, page 2

Mark D. Licker, *Choice of Words Criticized with Editor's Note*, May, page 2

W. Stuart Schweizer, *Schweizer Responds (to Palmer letter)*, June, page 5

Oshkosh Bound (bumper sticker available), June, page 12
Trish Durbin, *Author's Response (to "Cat Among the Pigeons" Complaints)*, July, page 2
Joseph A. Azar, *This One Cares (about Funding Sources)*, September, page 2
Bob Park, *Proper Reporting (on Apartheid) Questioned*, December, page 7

Communications

Ted Sharp, *Ameriglide with Ham Radios*, June, page 12
W.G. Hill, *Murphy, Mother Nature and Me (Wave over Boulder, CO)*, August, page 25

Competitions

1989 U.S. National Champions, March, page 18
George Thelen, *Competition Safety*, April, page 48
Wallace A. Scott, *A Response to the "Hue-In and Cry-In"*, July, page 8

1-26

Bob Hurni, *1989 Silver Anniversary 1-26 Championships, (Tucson, AZ)*, January, page 24

Classes

Tim Gossfeld, *Leave Sports Class Alone*, April, page 3

National

Susan D. Erlenwein, *Sunflower Soaring Championships (1989 Open & Auxiliary Powered Nationals, Hutchinson, KS)*, January, page 14
Alan K. Reeter, *The 1989 15-Meter Nationals (Uvalde, TX)*, January, page 33
Doris Grove, *Open Class Alive and Well*, April, page 5
Tom Knauff, *Writer Upset (on Open Class letter)*, April, page 5
Cyndi Stephenson, *1991 and 1992 National Contest Sites - Call for Proposals*, June, page 10
Fredo Killing, *How Cheap Can We Be And Still Remain Professionals? (With Unpaid Staffs)*, August, page 4
Elizabeth Grove, *1990 United States Open Class Soaring Championships (Mifflin Co, PA)*, November, page 34
Pete Williams, *Littlefield-1990, The 3rd US National Auxiliary-Powered Soaring Championships*, November, page 39

Non Sanctioned

The \$40 POST (in Northern Illinois), March, page 13
George Powell, *Great Time at (Las Vegas Club's) Fun Event*, October, page 6

Post Tasks

The \$40 POST (in Northern Illinois), March, page 13

Regional

(1989) Region 6 North Contest (Ionia, MI), January, page 6
Region 11 Soaring Championships July 1-5 1989 (Minden, NV), January, pages 9-Jan
From Drought to Dreariness: The Region 6 (1989) South (Waynesville, OH), April, page 13
(1990) Region V North Soaring Contest (Chester, SC), September, page 11
Region Six South Championships, June 25-30, 1990 Caesar Creek Soaring Club, Waynesville, Ohio, October, page 11
(1990) 17th Annual South Region Five Soaring Championships (Cordele, GA), October, page 13
Region 11 North Contest, August 12-17, 1990, Siskiyou County Airport, Montague, California, November, page 15
Marty Bael, *(1990) Region III Contest (Danville, NY)*, December, page 11
Ed Byars, *The New Castle 1000 km Club*, December, page 26

Rules

Jim Payne, *(1990) Rules Committee Report*, May, page 10
Wally Raisanen, *Wants Input for Rule Changes*, September, page 3
Steve Fahrner, *Comments on Proposed Rule Changes*, November, page 10

Seniors

Roy Hennig, *Thanks Ekatarina!*, June, page 20

World

Hey Rocky, Watch me Pull a Rabbit out of my Hat!, July, page 12

US Team

Pete Williams, *US Team to Enter 1990 1st World Motorgliding Championships*, January, page 6

Team Selection Process Clarified, August, page 11

Sweepstakes Winner (1989) Displays Sailplane, October, page 11

US Team Identified, October, page 15

Computers and the Internet

Wallace Wilhoite, *Simulated Soaring (with Microsoft Flight Simulator)*, January, page 2

Charles V. Lindsay, *Personal Computer Soaring Weather Briefing*, June, page 30

A New Final Glide Computer, July, page 18

Azuresoft Introduces the Complete Briefer DUAT Decoder Software for PC's, October, page 45

Charles V. Lindsay, *(Telephone) Numbers for DUAT*, November, page 4

Barrett Leibe, *(Computer and Final Glide) Program Available*, November, page 11

Conferences, Conventions, and Meetings

David B. Newill, *Starting the 90's Right, SSA 90 at Indy!*, May, page 39

(Albuquerque) '91 Convention Update, October, page 11

Credits/Appreciation

Ed Carpenter, *Schweizer Aircraft Issue Praised*, March, page 2

Brian D. Myers, *Thanks for the (Military Glider) Response*, March, page 9

Lois Goucher, *Appreciation Expressed*, May, page 3

Alan B. Greer, *Going to the Top (Writing Your Congressman)*, August, page 3

Jim and Jackie Payne, *Thanks for (Motorhome Repair) Help*, October, page 2

Crewing

Dennis Haworth, *The Soaring Bug*, April, page 24

John C. Lincoln, II, *The Surgeon*, August, page 30

Gary and Nancy Kemp, *Garfield Flats*, October, page 23

Jim Border, *Running Wings the Hard Way*, November, page 6

B.L. Stanfield, *Alternative Source of Energy*, December, page 15

Errata

W. Stuart Schweizer, *Schweizer Responds (to Palmer letter)*, June, page 5

Author (Vic Saudek) Offers Further Explanation, August, page 12

Jerzy Makula, *Questions (Celair GA-1) Ad Claim*, September, page 3

Exhibits/Displays/Fairs

Vic Saudek, *(Southern California Soaring Association at Hawthorne, CA) Air Fair Report*, May, page 14

Family

Stewart Aleshire, *Great Grandad is Proud (of Kurtis Rodriquez and John Newman)!*, March, page 11

William D. Hack, *A Tribute to Flying Father's on Father's Day*, June, page 44

Federal Aviation Administration (FAA)

Attention, Are You Ready.. for FAA Required Drug Testing?, January, page 13

Judy Lincoln, *Drug Testing in Soaring*, February, page 30

FAA Makes Drug Testing Announcement, May, page 15

Regulatory Updates (AD's and Driving Convictions), November, page 20

Judy Lincoln, *Regulatory Updates (Transponder Over ARS As and St Louis TCA Change)*, December, page 10

Growth

Kaya Zuzak, *Magical Day (the First and Last at UCSD)*, January, page 3

Judy Lincoln, *Perspective: (\$10 Dues Increase Justification)*, January, page 50

- Rolly Clark, *Reflections on a Summer's Soaring (Wing Loading, Auxiliary Powered Sailplanes, and Growth)*, February, page 3
Eric Jaderborg, *Thought on (Growth) Proposal (by McEwen)*, April, page 4
Jim Marske, *SHA Seeks New Members*, August, page 6
Paul A. Schweizer, *Is the US Sailplane Fleet Shrinking?*, September, page 14
Alan Greer, *Start Them Young on a Soaring Path*, December, page 2
Mark D. Bottino, *Agrees with Authors (Marske and Schweizer)*, December, page 7
The Soaring Bug Bites Again, December, page 11

Hangars and Accessories

- Mitch Deutsch, *The Phoenix Rises From the Ashes (Atlanta Soaring Club)*, February, page 44
Peter C. King, *Hello Dolly*, June, page 27
Yale Mosk, *Hello Dolly! a Better Mousetrap!*, October, page 9
Dave and Jill Fletcher, *A New Club Hangar for WSSA-The Hard Way*, October, page 34

History

- Wm. Frank Kelsey, *Mystery Plane (Super Albatross) Revisited*, February, page 2
Robert G. Chester, *More on the Bowlus-Mitchell Flying Wing (and the Mitchell Wing B-10)*, February, page 4
Wally Amundson, *History Expanded (on Robert Fischer & his 1-23H Soaring Across the Entire US)*, March, page 8
Rob Lang, *Once More.. with Feeling (Flying the Standard Austria)*, March, page 42
History in Wood Carvings (by Wilhelm Molik), April, page 15
Fernando J. Rueda, *Memories II (of the Zoeglin 33 in 1941 Argentina)*, April, page 37
Hans H. Baeggli, *Recognizes Sailplane (HB-369 as a SPYR 5, not SPRA 5)*, May, page 4
Richard H. Benbough, *Paper Wing Albatross Reborn*, June, page 9
Hans Popperl, *The Story of OE-0409 Mg19A "Steinadler"*, July, page 15
Can You Identify, August, page 15
Murray Olson, *Help, Anyone? (Schweizer TG-3A Available)*, October, page 2
Winston R. Dole, *Similarities Noted (Variometers: Three Generations Ago and Now)*, November, page 12
Paul A. Schweizer, *The Floyd J. Sweet Story*, November, page 26
Jack Laister, *The First Intercollegiate Glider Championships (Purdue University in 1936)*, December, page 23

International

- Stalking the Mountain Wave (by Ursulia Weise)*, February, page 9

Homebuilts

- Jim Maupin, *(Sjostedt Sierra Six) Homebuilt Does Well (in Competition)*, April, page 2
Greg Zack, *Daedalus (Human Powered Aircraft) Update*, April, page 11
Jim Marske, *Homebuilders (1990 Eastern) Workshop Announced (for Bryan, OH)*, June, page 12
Jim Marske, *SHA Seeks New Members*, August, page 6
Jackie Womack, *Sailplane Prices*, November, page 3
Dave Hudnut, *The 1990 Eastern Workshop at Bryan, Ohio*, November, page 29

Humor

- New Glider Unveiled, Red Wing Soaring Offers New Aircraft (the F-105 (G))*, April, page 14
Stewart Aleshire, *A New Badge Needed*, October, page 3
B.L. Stanfield, *Alternative Source of Energy*, December, page 15

Instruction

- Mike Felske, *Looking for Help (in Developing a Standardized Training Curriculum)!*, February, page 3
Eric Greenwell, *Perspective: (Training Needs)*, February, page 32
Peter E. Conti, *Sunny Side Up (Concern for No Spoiler Approaches)*, March, page 9
Calling All CFI's (for Collegiate Soaring Help), April, page 11

- Alan K. Reeter, *Answer to Standardization (Question by Felske)*, May, page 4
Phil Petmecky, *The First Solo Cross Country, Lesson One - Safe Altitude Circles*, May, page 23
Stephen DuPont, *Idea for Adjusting Polars*, June, page 9
Phil Petmecky, *The First Solo Cross Country Flight, Lesson Two - Constructing a Flight Profile*, June, page 36
Phil Petmecky, *The First Solo Cross Country Flight, Lesson Three - Turnpoint Photos*, July, page 40
Phil Petmecky, *The First Solo Cross Country Flight, Lesson Four - Flight Bands and/or Speed-To-Fly*, August, page 42
Phil Petmecky, *The First Solo Cross Country Flight, Lesson Five - Selecting a Cross-Country Task*, September, page 18
Phil Petmecky, *The First Solo Cross Country Flight, Lesson Six - Polar Adjustments and Speed to Fly in Sink*, October, page 17
Edmund Stevens, *Wants Help for New Pilots (to Avoid Accidents)*, December, page 3
Bernald S. Smith, *SSA Instructor Poll (Results and WDA Views)*, December, page 13

Ground Schools

- Tampa Bay Soaring in Action (at FAA Accident Prevention Seminar)*, April, page 11
Georgia SSA'ers on the Move (SSA Governor Jim Culp's Soaring Seminar), June, page 11

Instrumentation

- Ralph Koerner, *Total Energy Reconsidered*, February, page 25
ILEC SB-9 Electric Back Up Variometer, February, page 29
Jean-Renaud Faliu, *More About Panel Displays and Looking Out*, March, page 2
C.J. Chapman, *How Accurate is Your Variometer System?*, April, page 16
New Barograph Developed (Micro Processor Controlled), April, page 34
Rick Sheppe, *Total Energy Revisited*, May, page 2
E.H. Replogle, *Replogle Barograph Finds New Home*, May, page 10
A New Final Glide Computer, July, page 18
Richard H. Johnson, *Flight Testing of Sailplane Stall Warning Systems*, July, page 25
Accurate, Lightweight Anemometer, August, page 45
A New 2-1/4" Winter Altimeter, September, page 40
Barrett Leibe, *(Computer and Final Glide) Program Available*, November, page 11
Winston R. Dole, *Similarities Noted (Variometers: Three Generations Ago and Now)*, November, page 12
Winter Instruments Without Certification, November, page 15

Insurance

- Bernald S. Smith, *Perspective: (SSA Hull and Liability Insurance)*, June, page 40
SSA Insurance Program Update (Ohio General Out, Global Insurance In), December, page 12

International

- WGC 1993*, February, page 11
1990 European Club Class Gliding Championships Opened to Non-Europeans, February, page 11
Site of the 1989 National Soaring Championships in Argentina, May, page 13
Ken Rubotsky, *Ameriglide (Minden 1990)*, October, page 26
Alan B. Greer, *Word from Motorglider World Championships (Issoudun, France)*, November, page 4
The World is Coming to Minden (in 1991) and we need your help, November, page 15
(1991) World Soaring Championships Update (New Location), December, page 7

Argentina

- Tom Hardy, *Soaring in Argentina Recommended*, June, page 2

Russia

Hannes Linke, *Offer to Fly in Russia*, May, page 12

Sites

Harry Crandall, *Hospitality Down Under (Australia)*, February, page 2
J.S. (Rusty) Ruskiewicz, *Questions Answered (about Egypt)*, February, page 7
Don Davis, *Soaring in Russia - One Man's Opinion*, February, page 7
Kurt Groenewald, *An Experience of a Lifetime (in Kimberley, South Africa)*,
February, page 38
Jim Hartwell, *Soaring in the USSR*, October, page 6
Armin Wishard, *Soaring in East Germany*, October, page 37

International Gliding Commission (IGC)

Bernald S. Smith, *The Sawing Society of America*, May, page 16

Launching

Aerotow

Les Sebald, *Dive Brakes at Issue*, January, page 2
Paul S. Burgette, *(Tow) Pilot to (Glider) Pilot*, February, page 5
Stephen DuPont, *Solution to Spoilers Out (Separate Brake Lever)*, March, page 10
Jack Greene, *In All of Soaring, There is Nothing So Hazardous as the First 30
Seconds of Every Flight*, March, page 34
Bill Nesse, *Safety Links Discussed*, May, page 4
Dick Robinson, *Needs (Cessna) Tow Hook Help*, June, page 3
Derek Johnson, *Don't Kill the Tow Pilot*, June, page 33
George Thelen, *Pilotless Aircraft (Aerotowed!)*, July, page 45
Curtis Cole, *L-I-F-F-T, a Checklist for Between Tows*, August, page 3
J.F. Crawford, *Another View on Airbrakes (Than DuPont's)*, August, page 4
Dick Vine, *Aerotow vs. Winch Launch; Another View*, September, page 2
Bill Teague, *Questions Longer Towrope*, September, page 4
Wally Raisanen, *Questions Sportsmanship*, October, page 10
Derek Johnson, *Longer Ropes-A Response*, November, page 2

Release Mechanisms

George Thelen, Eric Greenwell, and Mike Adams, *Tow Hooks Revisited*, March,
page 40
Lou Hoffman, *Can Someone Help (on Libelle Towhooks)?*, April, page 2
Mike Adams, *Glider Release Mechanisms*, April, page 30
Bill Nesse, *Safety Links Discussed*, May, page 4
James H. (Howard) Burgess, *Proposal for New Tow Hook Release*, June, page 3
Dick Robinson, *Needs (Cessna) Tow Hook Help*, June, page 3
Update on Tost Tow Release, September, page 10

Winch

Dick Vine, *Aerotow vs. Winch Launch; Another View*, September, page 2

Literature

Steve Hines, *Book Review: Aerial Photography by Harvey Lloyd*, October, page 14

Book Reviews

Stalking the Mountain Wave (by Ursulia Weise), February, page 9
Emil Kissel, *More on "Stalking the (Mountain) Wave"*, April, page 2
*Update on Publication (New Editions of "New Soaring Pilot," "FAR's For Glider
Pilots," and "Transition to Gliders")*, July, page 10

Fiction

Willie Edwards, *Attention to Detail*, January, page 3
William B. Dehon, *An Incident in the Hills of West Virginia*, June, page 19
Katherine T. Hill, *The Birthday Gift*, June, page 23

Poems and Poetry

Michael Paul Slater, *Her First Flight (Poem)*, April, page 12
Del Blomquist, *Thermals Forever (poem to Walt E. Mooney)*, May, page 11
George Powell, *Poets Remembered (Jack Greene & Walt Mooney)*, August, page 2

Judy McDonald, *A Yuletide Soaring Poem*, December, page 16

Maintenance and Improvements

George Thelen, *The Theory and Practice of (FRP) Chip Repair*, September, page 35
George Thelen, *(L-13) Gliders-In the Long Term*, by Tom Cooper and Irving Prue, October, page 46
Winter Instruments Without Certification, November, page 15

Meteorology

Charles V. Lindsay, *Personal Computer Soaring Weather Briefing*, June, page 30
Charles V. Lindsay, *Using the Upper Winds*, September, page 24
Charles V. Lindsay, *Using Weather Observations and Terminal Forecasts*, October, page 41
Azuresoft Introduces the Complete Briefer DUAT Decoder Software for PC's, October, page 45
Charles V. Lindsay, *(Telephone) Numbers for DUAT*, November, page 4

Lightning

Joel N. Myers, *Accu-Weather Introduces New (Lightning) Graphics and Data*, February, page 9

Sea Breeze Front or Shear Lines

Wallace A. Scott, *The Sea Breeze Front at Uvalde, Uvalde Weather at the 1989 15-Meter Championships*, July, page 21

Modifications

Kevin Bennett, *Likes Masak Winglets (on a Ventus B)*, November, page 3
Robert C. Gibbons, *Performance Modification for Older Wooden Sailplanes*, December, page 37

Motorgliders

Rolly Clark, *Reflections on a Summer's Soaring (Wing Loading, Auxiliary Powered Sailplanes, and Growth)*, February, page 3
Paul Liebenberg, *More Thoughts on Motorgliding and Motorgliding Safety*, February, page 6
US Designed Self-Launcher (S R Aircraft ARIA) Introduced at (Indy '90) Convention, May, page 10
Pete Williams, *Are Self-Launching Sailplanes the Wave of the Future?*, August, page 37
The New Grob 103C Twin III SL, September, page 9
Changes at Limbach, September, page 12
Derek Piggott, *A New Version of the Dimona Motorglider, The Rotax Powered Super Dimona*, September, page 41
Alan B. Greer, *Word from Motorglider World Championships (Issoudun, France)*, November, page 4

Blanik L-13

Moravia Inc. Introduces New Motorglider (L-13 SE "Vivat", September, page 9

Grob 109B

Keith Boyer, *A Slow Cross Country Flight (with a Grob 109B)*, December, page 41

Schempp-Hirth

Nimbus 4

Peter F. Selinger, *Nimbus 4, New 'Albatros' from Kircheim*, August, page 16

National Aeronautic Association (NAA)

NAA Recognizes Two (SSA) Members (Bill S. Ivans and Floyd Sweet), May, page 12
Mal Gross, *NAA Corner*, June, page 15
FAI - Its Role in Sport Aviation NAA Corner, August, page 14
Mal Gross, *Sport Aviation -- The Key to the Future of U.S. Aviation*, October, page 16

Obituaries

Ed Harmening, *In Memoriam: Chuck Harris*, January, page 6
Mildred P. Kohls, *In Memoriam: Charles Kohls*, January, page 6

Jerry Finch and Bud Brown, *In Memoriam: Michael Wayne Jenkins*, February, page 9
Ralph Biesemeyer, *In Memoriam: Philip A. Mortensen*, February, page 11
Del Blomquist, *Thermals Forever (poem to Walt E. Mooney)*, May, page 11
James Fleugel, *In Memoriam: John Stetson Fleugel*, May, page 13
Roderick F. Read, Jr., *In Memoriam: Roderick F. Read, Sr.*, May, page 14
Bob Fitch, *In Memoriam: Jack Greene*, May, page 15
Dale Thompson, *In Memoriam: Dale F. Dye*, June, page 12
Jim Jenista, *In Memoriam: Dick McKnight*, July, page 10
Jan Scott, *In Memoriam: Wolfgang Hutter*, July, page 11
George Powell, *Poets Remembered (Jack Greene & Walt Mooney)*, August, page 2
Cleveland Soaring Society, *In Memoriam: Ted Pawski*, August, page 9
Harry Miltner, *Goodbye Vi! (Vi Blalock)*, September, page 3
Harold A. Katinszky, *In Memoriam: Patrick McAtee*, October, page 11
Stan Montagne, *In Memoriam: Fred Frauens*, October, page 12
Reggie Spinhayer, *In Memoriam: Henry Stouffs*, November, page 15
In Memoriam: Fred MacFawn, December, page 10

OSTIV

Manfred E. Reinhardt, *Call for (OSTIV XXII Congress) Papers*, June, page 15
Reminder for (XXII OSTIV Congress) Technical Papers, November, page 15

Parachutes

Allen Silver, *Parachute Update (Security and National Canopies)*, November, page 9

Patterns and Landings

Peter E. Conti, *Sunny Side Up (Concern for No Spoiler Approaches)*, March, page 9
Charles Mueller, *Maintain Airspeed*, December, page 2

People

Charles Shaw

Claybourn (1989) Award Winner (is Charles Shaw), April, page 12

Charlie Spratt

Ed Byars, *Asks For Consideration for Charlie Spratt*, May, page 3
Karl H. Striedieck, *Support for SRA/Spratt*, October, page 4

Photography

Bill Hinote, *Camera Comment (on Ricoh Quality)*, January, page 4
New Data Back Camera Announced (Minolta Freedom 50), December, page 45

Physiology

Jan Scott, *Behavior Explained (Erratic Pilot Had Tumor)*, February, page 2
George Thelen, *Visiting Complacency*, February, page 49
Peter E. Conti, *Sunny Side Up (Concern for No Spoiler Approaches)*, March, page 9
Steven McCormick, *Doctor, Doctor! (I've got Meniere's Disease)*, June, page 5
George Thelen, *Crosswind Takeoff (in a Hurry)*, by Dan Shallbetter, June, page 47
W.R. Plage, *A 78 Year Old Responds*, November, page 2
George Thelen, *Is All's Well That Ends Well?*, December, page 46

Medical Condition

George Thelen, *Age and Flying*, August, page 48
Bill Dehon, *More to it Than Age*, November, page 9
R.N. Buck, *More Than Age*, November, page 10
John Doyel, *The Test (Driving to the Airport)*, November, page 13

Promotions

J.C. Kellett, *Things to Come*, March, page 32
Doug Jacobs, *Perspective (on Making Things Happen)*, May, page 48
Patricia D. Austin, *Heart-Pounding Silence at 3,000'*, August, page 20
Mark Kennedy, *Perspective (on Making People Feel At Home)*, September, page 49

Publications

Jim Maupin, *Complaint on Wrapper*, March, page 11
Tom Nowicki, *Concerned with Polybag*, October, page 6

Larry Sanderson, *Perspective: And The Volume Goes Up.. on Regulatory Issues and Soaring Safety*, October, page 40

Judy Lincoln, *Perspective: (Publications Changes)*, November, page 49

A Soaring Coincidence, December, page 13

Reprints and Back Issues

Lew Neyland, *Call For Some (Soaring Article) Repeats*, June, page 3

Richard Blanchard, *Likes (Neyland's Call) Idea*, September, page 4

Restorations

Jack Fletcher, *(Military CG-4A Restoration) Glider Project Announced*, March, page 10

Rob Lang, *Once More.. with Feeling (Flying the Standard Austria)*, March, page 42

Retrieves

Emergency Strobe, June, page 35

Gary and Nancy Kemp, *Garfield Flats*, October, page 23

Safety

George Thelen, *Competition Safety*, April, page 48

George Thelen, *Pilotless Aircraft (Aerotowed!)*, July, page 45

George Thelen, *Just Say No? (to Unsafe Practices)*, by Roy Poole, September, page 46

Jim Border, *Running Wings the Hard Way*, November, page 6

Accidents/Incidents

Val Brain, *The 400 Blows: Analysis of 400 (British) Accidents Reported in "Sailplane and Gliding"*, May, page 35

George Thelen, *Crosswind Takeoff (in a Hurry)*, by Dan Shallbetter, June, page 47

Checklists

Curtis Cole, *L-I-F-F-T, a Checklist for Between Tows*, August, page 3

Cockpit

Jim Hard, *Check Those (Discrepancy) Logs*, October, page 2

Collision Avoidance

Jean-Renaud Faliu, *More About Panel Displays and Looking Out*, March, page 2

W.G. Hill, *Should Soaring Become a Contact Sport?*, April, page 28

Billy Hill, *Collision Avoidance*, May, page 32

Stephen DuPont, *Mid-Airs, Mid-Airs, Mid-Airs*, July, page 2

John Byrd, *Safety Stressed in Thermaling*, October, page 4

Preflight

Bill Ray, *The Unlikeliest Place Ever!*, September, page 6

Stalls/Spins

John Sandell, *Safety-(in a Small Thermal) Vortex*, March, page 3

Sailplanes

Can You Identify, February, page 10

Can You Identify?, March, page 14

Can You Identify, May, page 11

Can You Identify, June, page 17

Can You Identify, August, page 15

Can You Identify?, September, page 12

Can You Identify?, November, page 19

Can You Identify, December, page 12

Blanik L-13

Curt Laumann, *Blanik Owner Needs Assistance (with Sticking Flaps)*, November, page 2

Blanik L-23

Mark Petru, *The L-23 "Super Blanik" (Czech) Glider*, May, page 26

Celstar GA-1

Trish Durbin, *Cat Among the Pigeons*, February, page 20

Cherokee

Bob Clark, *More Youth in Soaring (Meggan and Valerie Clark)*, July, page 3

Glaser-Dirks

DG-600

Maiden Flight of the DG-600 M, March, page 12

Grob 103C Twin III

Richard H. Johnson, *A Flight Test Evaluation of the Grob 103C Twin III*, March, page 49

Richard H. Johnson, *Correction on Airfoil Design*, May, page 9
The New Grob 103C Twin III SL, September, page 9

Mg19A

Hans Popperl, *The Story of OE-0409 Mg19A "Steinadler"*, July, page 15

Rolladen-Schneider

LS-6c-17.5

Frank Roden, *SSA in Action: Rolladen-Schneider Introduces LS-6c-17.5*, August, page 8

Schleicher

AS-W 24

Andy McQuigg, *The ASW-24 Pilot Report*, January, page 43

Schweizer

SGS 1-23

Wally Amundson, *History Expanded (on Robert Fischer & his 1-23H Soaring Across the Entire US)*, March, page 8

SGS 1-26

Bob Hurni, *1989 Silver Anniversary 1-26 Championships, (Tucson, AZ)*, January, page 24

Renard R. Rozzoni, *New Mexico Gold (Distance in a 1-26)*, March, page 22
Need a Challenge? (New Executive Board Announced for 1990), April, page 12

Don Wemple, *From the "We Get Letters Department" of the 1-26 Association*, May, page 6

James L. Lee, *From the "We Get Letters Department" of the 1-26 Association*, May, page 6

1-26 Cross Country Sweepstakes, June, page 17

Gary Knapp, *Recognized (1-26) #248*, August, page 2

Thomas J. Fuller, *Questions Safety Practice (Aerobatics in 1-26s)*, September, page 2

Corwin Sharp, *Litigation or Stress (Limiting Schweizer Loops)*, December, page 2

Larry Pardue, *1-26 Defender*, December, page 3

Marvin Willis, *Eagle's Nest (Odessa, TX) and the 1-26 Championships*, December, page 18

SGS 2-33

Tom Elmore, *Accent on Clubs Revisited (& 2-22 Aileron Gap Seals)*, November, page 17

TG-3a

Murray Olson, *Help, Anyone? (Schweizer TG-3A Available)*, October, page 2

Standard Austria

Rob Lang, *Once More.. with Feeling (Flying the Standard Austria)*, March, page 42

Super Albatross

Wm. Frank Kelsey, *Mystery Plane (Super Albatross) Revisited*, February, page 2

World Class Sailplane

Chet Johnson, *Likes the 1-34*, December, page 3

The World Class Enters Judging Phase, December, page 13

Zerglin 33

Fernando J. Rueda, *Memories II (of the Zoeglin 33 in 1941 Argentina)*, April, page 37

Self Launching Sailplane Pilot's Association (SLSPA)

Pete Williams, *SLSPA Incorporation*, January, page 6

Sites

Tom Nowicki, *Update Seminoles Celebrate First Anniversary in New Nest*, October, page 12

Ed Gaddy, *Opening a Glider Operation*, October, page 22

Hemet

Alan Edgett, *Hemet (California)*, April, page 22

Soaring Society of America

New SSA State Governor Named, January, page 6

Results of Election for SSA Directors, January, page 12

Director Announces Appointments, May, page 13

Region 9 Election Results, June, page 12

SSA Board Minutes Available, June, page 12

SSA Winter Board Meeting (1990 at Indianapolis, IN), June, page 14

Your 1990 Board of Directors, June, page 18

New Election Procedures for Directors, July, page 10

Stewart Tittle, *Oregon SSA Governor Introduced*, August, page 8

Fall 1990 SSA Board Meeting, November, page 18

Elections for Regional Director, November, page 21

Annual Report

Judy Lincoln, *For Fiscal Year Ended October 31, 1989*, May, page 19

Board

New Board Member, February, page 11

Membership

SSA Life Memberships Temporarily Discontinued, May, page 16

President's Report

Larry Sanderson, *Perspective: And The Volume Goes Up.. on Regulatory Issues and Soaring Safety*, October, page 40

Solicitations

Jonathan Beard, *Can You Help Me (Brit to Find a Flying Job)?*, February, page 2

Ameriglide, *Help! Help! 25 Gliders Needed*, February, page 10

Jim Schueckler, *Another (Flying) Group to Join (Vietnam Helicopter Pilots Association)*, March, page 5

J. Duncan Cooper, *Attention Schreder Owners!*, March, page 8

Lou Hoffman, *Can Someone Help (on Libelle Towhooks)?*, April, page 2

Calling All CFI's (for Collegiate Soaring Help), April, page 11

Changes at NSM (Executive Director Needed), May, page 12

Dick Robinson, *Needs (Cessna) Tow Hook Help*, June, page 3

C.T. Burke, *Call for Trailer Article*, November, page 9

Spoilers

Wally Raisanen, *Questions Sportsmanship*, October, page 10

Technical Soaring

Reminder for (XXII OSTIV Congress) Technical Papers, November, page 15

Techniques

Cross Country

Michael A. Russell, *Truckee Trainee*, April, page 35

Vern Chapin, *Bad Day at Black Rock (near Charnita, PA)*, April, page 39

Phil Petmecky, *The First Solo Cross Country, Lesson One - Safe Altitude Circles*, May, page 23

Phil Petmecky, *The First Solo Cross Country Flight, Lesson Two - Constructing a Flight Profile*, June, page 36

Phil Petmecky, *The First Solo Cross Country Flight, Lesson Three - Turnpoint Photos*, July, page 40

Phil Petmecky, *The First Solo Cross Country Flight, Lesson Four - Flight Bands and/or Speed-To-Fly*, August, page 42

Phil Petmecky, *The First Solo Cross Country Flight, Lesson Five - Selecting a Cross-Country Task*, September, page 18

Phil Petmecky, *The First Solo Cross Country Flight, Lesson Six - Polar Adjustments and Speed to Fly in Sink*, October, page 17

Keith Boyer, *A Slow Cross Country Flight (with a Grob 109B)*, December, page 41

Outlandings

Malcolm Adams, *Bi-Annual Surprise (Outlanding)*, February, page 3

Vern Chapin, *Bad Day at Black Rock (near Charnita, PA)*, April, page 39

Stalls/Spins

Richard H. Johnson, *Flight Testing of Sailplane Stall Warning Systems*, July, page 25

Thermaling

John Byrd, *Safety Stressed in Thermaling*, October, page 4

Wave Flying

Stalking the Mountain Wave (by Ursulia Weise), February, page 9

Tony Burton, *Long Wave (Along Rock Mountains in Alberta, Canada) Explained*, June, page 3

W.G. Hill, *Murphy, Mother Nature and Me (Wave over Boulder, CO)*, August, page 25

John Ott, *High Flights (Soaring Club, Colorado Springs, CO) Live Up to Its Name*, September, page 28

Trailers

Tom Elmore, *On Trailer Hitches*, January, page 3

C.T. Burke, *Call for Trailer Article*, November, page 9

Ultralights

Robert G. Chester, *More on the Bowlus-Mitchell Flying Wing (and the Mitchell Wing B-10)*, February, page 4

Video Tapes

Pure Flight - Transition to Soaring (30 minutes) with Cliff Robertson, February, page 13

Soaring the High Sierra (38 minutes), March, page 25

The Mountain Wave, August, page 9

Vintage Aircraft

Third Annual Western VSA Regatta Planned (for Hemet, CA), April, page 11

Raul Blacksten, *Changes at VSA (Blacksten is Archivist)*, August, page 3

Weight and Balance

George Thelen, *Center of Gravity, Part 1*, January, page 48

Wil Schuemann, *Questions "Safety Corner" Conclusions*, March, page 4

George Thelen, *Center of Gravity, Part 2*, May, page 45

Wing Loading

Rolly Clark, *Reflections on a Summer's Soaring (Wing Loading, Auxiliary Powered Sailplanes, and Growth)*, February, page 3

Doug Jacobs, *Wingloading Revisited*, March, page 10

Ed Byars, *Wing Loading Revisited: Yet Again*, June, page 4

Tom Beltz, *Support for SSA's Stand on Wing Loading*, July, page 5

Judy Lincoln, *Perspective: (Wing Loading Issue Evolution)*, August, page 46

World Class Sailplane

Opening of "World Class" Glider Design Competition Announced, February, page 11

Ray Speicher, *Wait and See Not Me (to Design the World Class)*, March, page 4

Oran W. Nicks, *The World Class Sailplane, Technical Consideration from Concept to Design Competition*, May, page 29

R.T. Steils, *Excited About One Design*, August, page 6
World Class Update (82 Applications Submitted), August, page 10
Dick Vine, *Separate One-Design from Olympics*, October, page 8

WSPA

Sharon R. Smith, *Tehachapi Turns The 11th Annual Women's Soaring Seminar*, February, page 14
Update on 1990 Women's Soaring Seminar (at Bermuda High), August, page 9

Youth

Stewart Aleshire, *Great Grandad is Proud (of Kurtis Rodriguez and John Newman)!*, March, page 11
Soaring Pilot Scholarship (1989 Winner is Adam Goucher), March, page 12
Ann O. Jackson, *Catching the Wind*, March, page 20
(Seven) German Youth Gliding Camps Announced, April, page 11
Youth Competition Medallion, May, page 11
Edmund C. Ginn, Jr., *Eagles (Boy Scouts) First Flight*, August, page 28
Randy King, *Another Youngster Reports*, October, page 6
1991 European Youth Championships Announced, October, page 11
D.E. Horton, *Another Youngster Solos*, November, page 8
Russian Teenager Solos While Guest of SSA Members (Betty and Roger Ruch), November, page 18

No subject

Tim Cislo, *John Ross Soars Above Kaena Point, Oahu in Honolulu Soaring Club's Schweizer 2-32 (note Horizon Curvature)*, January, cover
Rick Oberst and Jurgen Gries, *A Bright Red Schweizer 1-35 in a Vertical Climb in the Southwest*, February, cover
John Good, *Errol Shirtliff (HP-14) and Karl Striedieck (LS-4) near Nelson, New Zealand from Good in a DG-300*, April, cover
Mark Petru, *L-23 Super Blanik in Flight above Clouds*, May, cover
Oliver Dyer-Bennet, *Two DG-600's in Close Formation*, June, cover
Dave Hughes, *Antelope Soaring Club's 1-26E 'Over the Top' above Mohave Desert in California*, July, cover
Pete Williams, *Jerry Wenger Checks Coolant Level of Rotax Engine in his Nimbus 3DM*, August, cover
Tim Cislo, *Bill Devitt Soars over Central Oahu in a Schweizer 2-32*, September, cover
Ed Byars, *More "Hue-In and Cry-In" Please!*, September, page 4
Richard Thornton, *Pawnee Towplane at Work Towing a Schweizer at Fantasy Haven*, October, cover
Bill Patterson, *A Sailplane crosses over a road as it lands at Crowley Field, Alberta, Canada during Alberta Soaring Council's Summer Encampment*, November, cover
Mark Grubb, *Winter Wonderland, a snow covered Grob 103 on the ramp at Skylark North, Tehachapi, CA*, December, cover
Eugene Balazs, *Mission Accomplished*, December, page 6