Soaring Magazine Index for 1974/1974 organized by issue

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.

Department, Columns, or Sections of the magazine are indicated within parentheses '()'. Subject, and sub-subject, are indicated within square brackets '[]'.

1974

January

Arlen Moore, SS-1 (Cover) [Sailplanes\SS-1; Cover]

- Alain Guay, New French two-place sailplane (Letter) [Design], page 3
- Stephen Du Pont, Ruddervator check (Letter) [Safety], page 3
- More on "2-1-0" scoring (Letter) [Sailplanes\Schweizer\SGS 1-26], page 4
- What to expect at Waikerie (Letter) [Competitions\World; International\Australia], page 4
- Bernald S. Smith, Cost: a new class definition? (Letter) [Cost], page 5
- Geof Steele, Cost: a new class definition? Smith, Bernald (Letter) [Cost], page 5
- Geof Steele, A new one from Darmstadt (Letter) [Sailplanes\DG-100; Design], page 6
- Are ELT's required for gliders? (SSA in Action) [Instrumentation\Avionics], page 8
- Donation frcm Harris Hill Soaring Corporation (SSA in Action) [Archives and Museums], page 9
- First hang gliding champ (SSA in Action) [Competitions; Hang Gliders; Ultralights; People\Chris Wells], page 10
- Adams, M.J. Rosemary, Almendinger (SSA in Action) [Obituaries], page 11
- Dez Kelemen, *Retrieve story* [*Crewing*], page 11
- E. Scurr, Green air, by David Harper (SSA in Action) [Literature], page 11
- W.S. Ivans, Jr., CIVV report, Paris, France [FAI; International\France], page 13
- Arlen Moore and Patrick McGrath, Jr., Building the SS-1 Soaring the Steens [Construction\Sailplanes; Design; Sailplanes\SS-1; Sites\Oregon; Techniques\Mountain Soaring; Homebuilts], page 14
- Stan Hall, The Baby's first soaring flight [Sailplanes\Baby Albatross; Techniques\Wave Soaring], page 19
- George D. Worthington, Dunderhead's thunderhead [Techniques\Wave Soaring; Meteorology; Safety], page 21

Fred Robinson, Beating airsickness [Physiology\Motion Sickness], page 26

- David B. Sheldon, 'Tis folly to be wise [Cross-Country Soaring; Techniques\Wave Soaring], page 28
- Malcolm J. Abzug, *Thermaling turn rate and turn diameter* [Aerodynamics; *Techniques\Wave Soaring*], page 30
- Bernie Carris, (Safety Corner), page 32

Records Schweizer Soaring School (Safety Corner) [Safety], page 32

- The energy crisis and soaring (Herold's Hearsay) [Ecology], page 34
- S. Hall, (Homebuilder's Hall) [Homebuilding], page 36
- Accidents and Push-Pull Control Systems Changes (Homebuilder's Hall) [Design; Homebuilding; Safety; Construction\Sailplanes], page 36

February

BS-1 (Cover) [Sailplanes\BS-1; Cover]

- Pie-in-the-sky? (Letter) [Aerodynamics; Sailplanes; Homebuilding], page 2
- A new name needed: "cloudsloping" (Letter) [Techniques\Cloud Flying; Techniques\Thermal Soaring], page 3
- Answer to young soaring bugs' prayers (Letter) [Affiliates, Chapters, and Clubs; Youth], page 5
- New SSA directors (SSA in Action) [Soaring Society of America; People\A.J. Smith; People\Gustav Scheurer; People\Guenther Christiansen; People\Tom Page;

People\Brian Utley; People\Fred Robinson; People\William B. Cleary], page 7

- Swiss "Eife" homebuilder kit (SSA in Action) [Sailplanes\Elfe; Construction\Sailplanes; Homebuilding], page 10
- Thomas Beltz, Owl's wing slow-speed flight: Random Gusts [Birds], page 11
- Geof Steele, The PIK-20, Chandler, T, page 14
- Ted Chandler, The PIK-20 [Design; Sailplanes\PIK-20], page 14
- R. McMaster, The Saga of Triple One Easy Mike [Techniques\Mountain Soaring; Sailplanes\Cirrus], page 18
- Bill Graves, Designing the Graves variometer system [Instrumentation\Variometers], page 20
- Tom Knauff, Just smile and charge it to experience, sob [Sailplanes\Schweizer\SGS 1-26; Techniques\Ridge Soaring], page 24
- B. Orison, Crupier It's an ill wind [Cross-Country Soaring; Economics], page 26
- John Sinclair, Sinclair flies his new duster (Homebuilder's Hall) [Sailplanes\Duster; Homebuilding], page 32
- S. Hall, (Homebuilder's Hall) [*Homebuilding*], page 32
- Porter flies his new Cherokee II (Homebuilder's Hall) [People\Fred Porter; Sailplanes\Cherokee II], page 33
- *Treetop landings are for the Birds* (Safety Corner) [*Safety**Techniques**Wave Soaring; Crewing*], page 35
- Dive brakes (Safety Corner) [Safety], page 36
- Thomas Beltz, The soaring flight of vultures (Herold's Hearsay) [Birds], page 37
- Aircraft cost per pound (Herold's Hearsay) [Costs], page 37

March

- Soaring the Alps (Cover) [Cover]
- Women's records (Letter) [Women], page 2
- Ron Williams, "Dyno I", a Kasper Wing derivative (Letter) [Sailplanes], page 3
- Poet's solo (Letter) [Literature], page 4
- Geof Steele, How about two "standard" classes? (Letter), page 5
- George Moffat, World open class soaring champion; 14th world gliding championships (SSA in Action) [Competitions\World], page 7
- World 14th world gliding championships (SSA in Action) [Competitions\World], page 7
- *Turning the clock back; Part 2 flight* (SSA in Action) [*People**Helmut Reichmann; American History*], page 8
- H. Michael and S. Riggs, MIT seminar, ultralight flying (SSA in Action), page 9
- Irven Culver, MIT seminar, ultralight flying (SSA in Action), page 9
- Volmer Jensen, MIT seminar; ultralight flying (SSA in Action) [Ultralights], page 9
- Receives New York State grant (SSA in Action) [Archives and Museums], page 9
- Ann Welch, Pilot's weather (SSA in Action) [Literature], page 11
- James Nash-Webber, "Motorless Flight Research", M.J. Abzug, ed. (SSA in Action) [Literature], page 12
- Floyd Sweet, Michael Stroukoff (SSA in Action) [Obituaries], page 13
- D. Althaus, Wind-tunnel measurements on bodies and wing-body combina- tions [Aerodynamics\Wind Tunnel], page 17
- Ray Elsmore, 58 miles per gallon [Techniques\Wave Soaring; Motorgliding], page 21
- Jan Scott, Restoring antique sailplanes [Sailplanes\Vintage], page 24
- Bob Walters, Building the Duster [Homebuilding; Construction\Sailplanes; Design; Sailplanes\Duster], page 26
- Jim Marske, *The Monarch* [*Construction**Sailplanes; Sailplanes**Monarch*], page 28 Soaring is getting safer (Herold's Hearsay) [*Safety*], page 30
- D.J. Montes, Winch accident (Safety Corner) [Safety], page 32
- Rudy Mozer, (Safety Corner), page 32
- Jack Greene, Fiberglass-and-balsa construction for the homebuilder, Part I (Homebuilder's Hall) [Construction\Sailplanes], page 34

April

- George Moffat (Cover) [Cover]
- Stephen Du Pont, Aerobatics as safety training (Letter) [Safety], page 2
- Kasper Bede, Flying wings (Letter) [Sailplanes], page 3
- Contest rules and the energy crisis (Letter) [Conservation], page 3
- Anti-histamines: a word to the wise (Letter) [Physiology\Motion Sickness; Safety], page 4
- Standard Class rules (Letter) [Standard Class], page 6
- The Graves variometer (Letter) [Instrumentation], page 6
- Thomas M. Farr, Jr., *Compatible trailer wiring* (Letter) [*Trailers*], page 7
- Exceptional Service Award, (SSA in Action) [People\George Uveges; Awards\SSA\Exceptional Service Award; People\Ed Butts], page 9
- 3rd national soaring convention (SSA in Action) [Conferences, Convensions, and Meetings], page 9
- SSA Exceptional Achievement Award (SSA in Action) [Awards\Soaring Society of America\Exceptional Achievement; People\William C. Holbrook; People\George Moffat], page 9
- SSA awards banquet (SSA in Action) [People\Wallace A. Scott, II; Awards\Barringer Memorial Trophy], page 9
- SSA directors' meeting (SSA in Action) [Soaring Society of America\Directors], page 9
- Warren Eaton Memorial Trophy (SSA in Action) [Awards\Soaring Society of America\Eaton; People\Tom Page], page 9
- Earl L. Elliott, *Dave Petty* [*Obituaries*], page 12
- Victor M. Saudek, Karl O. Lange [Obituaries], page 12
- Geof Steele, New technology: PIK-20 and LS-2; 14th world gliding championships, Waikerie, Australia, Colton, S. and Page, T [Sailplanes\PID-20; Sailplanes\LS-2; Competitions\World], page 14
- Sylvia Colton and Tom Page, 14th World Gliding Championships, Waikerie, Australia [Sailplanes\LS-2; Competitions\World; Techniques\Team Flying], page 14
- Class comparisons for Waikerie (Herold's Hearsay) [Competitions\World], page 35
- Lawrence Gehrlein, (Safety Corner) [Safety], page 36
- Winch operation (Safety Corner) [Techniques\Wave Soaring; Safety], page 36
- Fiberglass-and-balsa construction. Part II: Home- builder's Hall [Construction\Sailplanes], page 38

May

- Torrey Pines, California (Cover) [Cover]
- *Multiple towing* (Letter) [*Techniques*\Wave Soaring], page 2
- *Reporting tow pilot accidents* (Letter) [*Techniques*\Wave Soaring; Insurance; Safety], page 2
- Gren Seibels, Open regionals educational mortification (Letter) [Sailplanes\Schweizer\SGS 1-26], page 4
- Wally Scott, Open regionals educational mortification Scott (Letter) [Sailplanes\Schweizer\SGS 1-26], page 4
- Peter K. Bice, Figuring great circle distances (Letter) [Cross-Country Soaring], page 5
- Peter Bowers, Northwest soaring symposium (SSA in Action), page 7
- No author or title, [Soaring Symposia], page 7
- Membership categories established, Third Annual Historical Symposium announced (SSA in Action) [Archives and Museums], page 7
- Nimbus II ATC'd (SSA in Action) [Nimbus II], page 7
- Waheed Mirza, Soaring in Pakistan (SSA in Action) [Affiliates, Chapters, and Clubs; International/Pakistan], page 9
- J.C. Lincoln, Free as a bird, by Philip Wills (SSA in Action) [Literature], page 10
- Lloyd M. Licher, *Executive director's report* (SSA in Action) [Soaring Society of America], page 14
- Marion S. Griffith, Jr., President's report (SSA in Action) [Soaring Society of America],

page 14

- The second Big Sky glider expedition, Chocteau, Montana, drawings by Jack Olson [Expeditions; Sites\Montana; Meteorology], page 18
- W. Wright, excerpt from "Experiments and Observations in Soaring Flight", Commentary by Ralph Barnaby [Literature], page 21
- Wilbur Wright, *Experiments and observations in soaring flight, commentary by Ralph Barnaby* [*History**Soaring*], page 21
- J. Luttrell, A hangar story [Costs; Hangars], page 38
- Solar power battery charger (Herold's Hearsay) [Instrumentation], page 41
- Tow pilot statistics revised (Herold's Hearsay) [Techniques\Wave Soaring], page 42
- Tinbus II (Homebuilder's Hall) [Homebuilts; Sailplanes\Tinbus II], page 43
- John Luttrell, Busted canopy? (Homebuilder's Hall), page 46
- Busted canopy? (Homebuilder's Hall) [Construction\Sailplanes], page 46

June

- *Ibex* (Cover) [*Sailplanes**Ibex; Cover*]
- Power stepdown warning (Letter) [Instrumentation], page 2
- Contest reporting June 1974 (Letter) [Competitions], page 3
- Multiple tow cautions (Letter) [Techniques\Wave Soaring; Safety], page 4
- Thomas Beltz, Jonathan Livingston Schweizer (Letter), page 5
- 1973 Lilienthal medalist: Ann Welch (SSA in Action) [People\Ann Welch; Awards\Lilienthal Medal], page 6

W.S. Ivans, CIVV report, Paris, France (SSA in Action) [CIVV; FAI], page 7

Ray Shamblen, Census Sailplane census: (SSA in Action) [Sailplanes], page 9

Karl W. Kretschmer, Arthur Zimmerman (SSA in Action) [Obituaries], page 11

- Ted Hamm and G. Bahnson, *Federal aviation regulations for glider pilots* (SSA in Action) [*Literature*], page 11
- A.J. Smith, Design competition report (SSA in Action) [Competitions\Design; Design\Competitions], page 12
- Peter M. Bowers, Design considerations of a simple sailplane [Aerodynamics; Construction\Sailplanes; Design; Costs\Sailplanes\Bantam II], page 14
- Alcide Santilli, Those winds in flight a new wrinkle? [Techniques\Wave Soaring; Meteorology], page 21
- Edward P. Williams, Sugarin' off, A Visit to a Soaring Site Springfield Hartness Airport [Sites\Springfield, Vermont; Meteorology], page 26
- Jack Lambie, A heavy trip in a light ship [Aerodynamics; Sailplanes; Literature], page 28
- Use of Douglas fir substitute for spruce (Homebuilder's Hall) [Costs; Construction; Homebuilding], page 31

Charles V. Lindsay, (Using The Weather) [Meteorology], page 36

John Aldrich, Weather on public TV (Using the Weather) [Meteorology], page 36

July

Thermalling (Cover) [*Cover*]

Towing: Airplane Dual tows (Letter) [Techniques\Wave Soaring], page 6

- SSA Safety chairman. Dr. Will Hayes (SSA in Action) [Soaring Society of America; Safety], page 9
- Schweizer 1-35 ATC'd production begins (SSA in Action) [Sailplanes\Schweizer\SGS 1-35], page 9
- What to study? (SSA in Action) [Test Guide Foe Glider Pilots], page 9
- FAA hang gliding advisory (SSA in Action) [Federal Aviation Agency; Hang Gliders], page 10
- Gren Seibels, Region five contest: Chester, South Carolina (SSA in action) [Competitions\Regional], page 11
- Feminine state records (SSA in Action) [Records; Women], page 11
- Ridge soaring the Alleghenies Bald Eagle Ridge, Knauff, Thomas (SSA in Action) [Literature], page 13

Connie Viancour, 1974 Smimoff Sailplane Derby [People\William C. Holbrook; Competitions\Smirnoff; Sailplanes\Libelle], page 16

Rick Apgar, Flying the Pioneer II [People\Paul Bikle; Homebuilts; Sailplanes\Pioneer II; Test Flying], page 22

- Dr. James L. Nash-Webber, Technology '74 MIT Symposium preview [Soaring Symposia], page 26
- Briegleb "BG" series (Homebuilder's Hall) [Homebuilding], page 28
- *California sailplanes "Duster"* (Homebuilder's Hall) [*Sailplanes\Duster; Homebuilding*], page 29
- Homebuilt sailplanes (Homebuilder's Hall) [Sailplanes\Duster; Sailplanes\Tern], page 29
- Homebuilt sailplanes (Homebuilder's Hall) [Sailplanes\D-8], page 29
- Miller "Tern" (Homebuilder's Hall) [Sailplanes\Term; Homebuilding], page 29
- Pacific Aircraft D-8 (Homebuilder's Hall) [Homebuilding], page 29
- *EPB-1 "Flying Plank"* (Homebuilder's Hall) [*Sailplanes\EPB-1; Sailplanes\Pioneer II; Sailplanes\SG-1*], page 30
- Marske "Pioneer II" (Homebuilder's Hall) [Homebuilding], page 30
- Scanlan SG-1: Homebuilder's Ball [Homebuilding], page 30

Commercial operation data (Herold's Hearsay) [Commercial Operations], page 32

- Ordering an "N" number (Herold's Hearsay) [Registration], page 32
- John Aldrich, Contest meteorologist; Gene Larcom (Using the Weather) [People\Gene Larcom; Meteorology], page 35

P. Schweizer, Lessons to be learned (Safety Corner) [Safety], page 42

August

Ed Hall, *Bird* (Cover) [*Cover*]

Schweizer aircraft 1974 sailplane directory [Sailplanes], page 6

One-design class 1974 sailplane directory [Sailplanes], page 39

- 1974 sailplane directory [Sailplanes], page 56
- 1974 sailplane directory [Sailplanes], page 90
- 1974 sailplane directory [Sailplanes], page 94
- 1974 sailplane directory [Sailplanes], page 99

September

Osprey (Cover) [*Covers**Osprey*]

- Geof Steele, Moffat on the modern standard class Moffat, G (Letter), page 2
- George Moffat, *Moffat on the modern standard class* (Letter) [Costs], page 2
- Hang gliding at Torrey Pines (Letter) [Sites\Torrey Pines; Hang Gliders; Safety], page 3 New ultralight design (Letter) [Design; Ultralights\Petrel], page 3
- Aviation Exploring Unit, as Rewarding as Your First Solo (Letter) [Affiliates, Chapters, and Clubs; Youth], page 4
- Training Costs and Youth (Letter) [Costs; Youth], page 4
- A good "met" man (Letter) [Meteorology], page 5
- Marion S. Griffith, Jr., President's report (SSA in Action) [Soaring Society of America], page 8
- Gus Briegleb, 3 into 12 one, Savage, Mark A. BRIEGLEB, KEN Claims 100 km speed triangle record (SSA in Action), page 10
- David Scott, SSA's man in Washington (SSA in Action) [Legislation; Soaring Society of America; People\David Scott], page 10
- World 100 km speed triangle record claimed by Ken Briegleb: SSA to action [Records], page 10
- Claims women's 100 km triangle speed record (SSA in Action) [People\Lee Tweed], page 11
- Women's 100 km triangle speed record claimed by Lee Tweed: SSA to action [Records], page 11

Jake Van Dyke, Region seven contest, Salem, Illinois (SSA in Action) [People\Brian Utley; People\Sterling Starr; Competitions\Regional], page 12

MIT symposium program corrections (SSA in Action) [Soaring Symposia], page 12

- Bruce Carmichael, A return to the great ridge [Archives and Museums], page 14
- Lloyd M. Licher, *Executive director's report* (SSA in Action) [Soaring Society of America], page 15
- Wes Boyd, 41st US national soaring championships, Adrian, Michigan [People\Ben Greene; Competitions\National], page 18
- 1974 table of scores 41st US national soaring championships, Adrian, Michigan [Competitions\National], page 26
- Dick Monagahan, Building the Osprey [Construction\Sailplanes; Design; Homebuilding\Osprey], page 30
- Evils of flutter and how to deal with them, Part I (Homebuilders Hall) [Aerodynamics], page 33
- Charles V. Lindsay, (Using The Weather) [Meteorology], page 36
- John Aldrich, (Using the Weather) [Meteorology], page 36
- Need for local sounding at your soaring site: Using the Weather [Meteorology], page 36 Announcing the Bede Wing (Herold's Hearsay) [Design], page 39
- *Batteries are potentially dangerous* (Herold's Hearsay) [*Instrumentation; Safety*], page 39 Benjamin S. Kelsey, (Safety Corner), page 40
- Hilltop Approaches in Strong Winds (Safety Corner) [Meteorology; Techniques\Wave Soaring; Safety], page 40

October

Malcolm Bagshaw, 1-26 (Cover) [Cover; Sailplanes\Schweizer\SGS 1-26]

- Wally Scott, *Wing loadings: better than a pine box* (Letter) [*Ballast; Legislation; Safety*], page 2
- Super floater (Letter) [Hang Gliders], page 2
- Low-velocity newsletter: "Helios" (Letter) [Ultralights], page 5
- 1975 SSA calendar: art winners (SSA in Action) [Soaring Society of America; People\Millard Wells; People\Jack Olson], page 7
- Bernald S. Smith, SSA group insurance (SSA in Action) [Insurance], page 9
- J.R. Hutchinson, Region 4 no-contest meet: (SSA in Action) [Competitions\Regional], page 9
- 1975 soaring convention slated (SSA in Action) [Conferences, Convensions, and Meetings], page 9
- 1st soaring aerobatic contest: Saulgau, Germany, (SSA in Action) [International\Germany; Aerobatics], page 12
- James S. Herman, 1974 Region one contest, Sugarbush Vermont (SSA in action) [Competitions\Regional; People\Sam Francis], page 14
- Vern Oldershaw, Wins "outstanding design" trophy (SSA in Action), page 14
- "Outstanding design" trophy (SSA in Action) [Design; Homebuilts], page 14
- "Technical Soaring" bibliography (SSA in Action) [Bibliography], page 14
- Burt Elliot, 1974 Region Four Contest, Frederick, Maryland (SSA in Action) [Competitions/Regional; People/Thomas Beltz], page 17
- Richard A. Wolters and R. Jain, *Once upon a thermal* (SSA in Action) [*Literature*], page 18
- William E. Doherty, Book reviews After solo soaring adventures in a 1-26 (SSA in Action) [Sailplanes\Schweizer\SGS 1-26; Literature], page 18
- Red Wright, 5th US standard class soaring championships, New Mexico [People\Richard H. Johnson; Sailplanes\Nugget; Competitions\National; Meteorology; Sites\New Mexico], page 21
- David Scott, Report on FAA action; Potomac Pipeline (SSA in Action) [Federal Aviation Agency], pages 11,39
- 5th US national standard class soaring championships, Hobbs, NM, page 28
- 9th North American 1-26 championships, California, Pearblossom [Meteorology; Competitions\1-26; Sailplanes\Schweizer\SGS 1-26; People\Harry Baldwin;

Meteorology; Competitions\1-26], page 30

M.R. Nevin, (Safety Corner) [Safety], page 39

- Evils of flutter and how to deal with them, Part II (Homebuilder's Hall) [Aerodynamics], page 40
- Charles V. Lindsay, (Using The Weather) [Meteorology], page 44
- John Aldrich, (Using the Weather) [Meteorology], page 44

Forecasting the altitude of thermals (Using the Weather) [Meteorology], page 44

November

- 2-33 (Cover) [Cover; Sailplanes\Schweizer\SGS 2-33]
- Dore J. Montes, *Mountain soaring in Hope, British Columbia, Canada* (Letter) [*Sites\British Columbia*], page 3
- Sharing Torrey Pines (Letter) [Hang Gliders; Sites], page 3

Like flying a lawn chair: "Monarch" (Letter) [Hang Gliders], page 4

In defense of the RF-4D motorglider (Letter) [Motorgliders], page 5

Wisconsin soaring youth boosters (Letter) [Youth], page 7

- Betsy Shannon, Claims Standard Class 100 km record (SSA in Action), page 9
- 1975 National soaring convention announced (SSA in Action) [Conferences, Convensions, and Meetings], page 9
- Standard Class 100 km record claimed by Manfred Sczesny: SSA to action [People\Manfred Sczesny; Records], page 9
- S. Fried, George W. Angell (SSA in Action) [Obituaries], page 11
- Lloyd Hunter, Region three contest, Dansville, NY (SSA in Action) [People\Joe Conn; Competitions\Regional], page 14
- Sam Crane, Region five south contest, Cordele, Georgia (SSA in Action) [Competitions\Regional], page 14
- N.Y. Dansville, *Region six contest* (SSA in Action) [*Competitions*\Regional], page 16

Hutchinson, Kansas: Region ten contest (SSA in Action) [Competitions\Regional; People\Marion S. Griffith, Jr.; Sites\Kansas], page 17

Carl Herold, "Winning on the wind", by George Moffat [Literature; Book Review], page 18 George Moffat, Winning on the wind [Competitions], page 19

- Daniel Walton, A brief wind tunnel test of the Kasper Airfoil [Aerodynamics\Kasper Airfoil; Aerodynamics\Wind Tunnel], page 26
- Woodson K. Woods, The wave of Mauna Kea [Sites\Mauna Kea, Hawaii; Meteorology; Sailplanes\Schweizer\SGS 2-32], page 28
- Henry Preiss, Winch cable [Launching\Winch; Techniques\Wave Soaring], page 32

The Alleghenies expressway [Techniques\Ridge Soaring; People\Karl Striedieck], page 33

- Mark A. Savage, A midair over Ohio [Sailplanes\Schweizer\SGS 1-26; Ohio; Safety], page 34
- Handy hints for homebuilding (Homebuilder's Hall) [Homebuilding], page 36
- B. Wister, Technical help for designers (Homebuilder's Hall) [Homebuilding], page 40

Bob Wister, Technical help for designers (Homebuilder's Hall) [Design], page 40

Charles V. Lindsay, (Using The Weather) [Meteorology], page 40

John Aldrich, *Forecasting thermal strength* (Using the Weather) [*Meteorology*], page 40 1973 glider accidents (Safety Corner) [*Safety*], page 42

December

James Carpenter, Cartoon (Cover) [Cover]

Illegal ballasting (Letter) [Ballast], page 2

Foot-launching the "Hippie" (Letter) [Launching\Landing Gear], page 3

Ultralights and lead shot (Letter) [Ballast; Ultralights], page 3

Model flying safety lessons (Letter) [Safety], page 4

More on downwind turns (Letter) [Aerodynamics], page 6

Teen program a dismal failure (Letter) [Youth], page 8

Dual scoring harassment (Letter) [Competitions], page 9

Ray Young, First Vintage Sailplane Regatta, Elmira, N.Y. (SSA in Action) [Vintage],

page 10

James Carpenter, Cover artist, competition reporter (SSA in Action), page 11

- Richard C. du Pont memorial flight (SSA in Action) [People\Richard C. Du Pont], page 12
- Schweizer Aircraft Corp. youth assist (SSA in Action) [International\Canada; Youth], page 12
- Region nine contest, Estrella Gliderport, Arizona (SSA in Action) [Competitions\Regional; Sites\Estrella Gliderport, Arizona; People\Thomas Brandes], page 13
- Region twelve contest (SSA in Action) [Competitions\Regional; People\Thomas Brandes; People\Russell Owens], page 14

Bill Ivans, Region eleven contest (SSA in Action) [Competitions\Regional], page 15

- James L. Le Sueur (SSA in Action) [Obituaries], page 15
- CIVV Report, Paris, France (SSA in Action) [FAI], page 16
- Instrument panels at Waikerie [People\Thomas Brandes; Instrumentation; Sites\Waikerie], page 18
- John Luttrell, Second international symposium MIT, page 22
- P. MacCready and J. McMasters, Second international symposium MIT [Test Flying; Mountain Soaring; Meteorology; Aerodynamics; Design; Instrumentation; Massachusetts; Soaring Symposia; Sailplanes], page 22
- J. Haberstroh, Hazards of Rogallo hang gliding [Hang gliders; Safety], page 28
- Richard H. Johnson, Winning with the PIK at Hobbs, New Mexico [Ballast; Construction\Sailplanes; Meteorology; Sites\Hobbs, New Mexico; Sailplanes\Pik-20], page 30

Richard Maryott, (Safety Corner), page 36

- How's your attitude? (Safety Corner) [Safety], page 36
- 1973 glider accidents: (Safety Corner) [Safety], page 37
- John Aldrich, Forecasts of the upper winds (Using the Weather) [Meteorology], page 38