

- Accidents: Annapurna, 32; Malubiting, 189; Mt. Kenya, 208; Nanga Parbat, 221; Bethartoli Himal, 226; Nanda Khat, 227; Tukucha West, 229; Peak 29, 229; Chomolhari, 233; Mt. Blanc (1870), 287; Buachaille Etive, 337
- Adesfjell: first ascent by SE cracks, 191
- Alpine Club: honours, 289; honorary members elected, 289; officers elected, 290; proceedings, 289; obituary, 291; subscription rates, 291; Alpine Climbing Group in 1970, 290
- Alps: summary of 1970 season, 192
- Alto de los Leones: by new routes, 247
- Anderson, J. R. L.: his book, *The Ulysses Factor*, 305
- Andes: ascents in Argentinian, 248; Bolivian, 246; Chilean, 247; Colombian, 241; Patagonian, 248; Peruvian, 241
- Andrews, P.: obit., 323
- Ang Kami: death, 226
- Annapurna: first ascent by S face, 19; second ascent by N face, 89; radio on, 274
- Annapurna III: second ascent, 229
- Annapurna IV: ascent, 229
- Ansilta, Cordillera de: ascents in, 249
- Anthoine, J. V.: art. 'El Toro', 143
- Arora, D. C.: death, 227
- Asami, M.: art. (with M. Hara), 'Makalu—the first ascent by the South-east ridge', 35
- Aspe-Safed III: first ascent, 215
- Atlas Mts: ascents in, 204
- Atmospheric studies at Jungfraujoch: 133
- Australian notes: 233
- Auto-belay: note on model 4, 280
- Baj Gaz Pass: search for, 163
- Ball's Pyramid: third ascent, 238
- Baudha: ascent, 229
- Bazel, Pte de: new routes on, 194
- Bergseeschijen: by E wall pillar, 200
- Bethartoli Himal: attempt and accident, 225
- Bethartoli South: second and third ascents, 226
- Blackshaw, A.: his book, *Mountaineering. From Hill Walking to Alpine Climbing*, 311
- Blakeney, T. S.: art. 'The first steps towards Mount Everest', 43
- Blanc, Mt.: activities of British climbers around, 193; accidents in 1870, 287
- Blanc du Tacul, Mt.: solo ascent by Gervasutti couloir, 193
- Blanca, Cordillera: ascents in, 241
- Blümlisalphorn: by N face direct, 198
- Bonington, C. J. S.: art. 'Annapurna South face', 19; his book, *Annapurna South Face*, 300
- Bonne Pierre, Pte de: first British ascent by Girod-Sandoz route, 194
- Braham, T. H.: art. 'North-west Karakoram, 1970', 163
- Brailsford, J.: his books, *Dolomites West* and *Dolomites East*, 313
- British Isles notes: 252
- British Mountaineering Council: activities in 1970, 293
- Buffalo Gorge: note on N wall, 238
- Burroughs, W.: art. 'Submillimetre wavelength atmospheric studies at Jungfraujoch', 133
- Caha, H.: death, 189
- Caine —: death, 193
- Caucasus: British-Soviet 1970 expedition, 111
- Cengalo, Piz: by N buttress, 202
- Chalk climbing: in France, 173
- Chap Darrah: first ascents from, 215
- Chew, F. R. G.: obit., 323
- Chhawang Phinzo: death, 226
- Chomolhari: second ascent, 233
- Churen Himal: first and other ascents, 228
- Clarence Island (Antarctica): ascent of highest peak on, 251
- Clark, J. F. G.: fatal accident to, 337
- Cleare, J. S.: art. 'Grigna', 169
- Clough, I. S.: death, 32; obit., 324
- Clubs, mountaineering: activities in 1970, 293
- Collomb, R.: his book, *Bernese Alps West*, 317
- Columbia, Mt.: by N face and N ridge, 240
- Combin de Valsorey: by NW face, 200
- Consolation Peak: ascent, 225
- Conversions, metric: 285
- Cook, Mt.: first ascent by Caroline face, 238
- Correspondence: re *Always a little Further*, 312
- Couture, B. art. 'Mountain parachute-jumping', 99
- Crampons: early use of, 287
- Cyprus: note on the mountains of, 204
- Daintar Pass: crossed, 166

- Day, M. W. H.: art. 'Annapurna-North face route', 89
 de Kuzel —: death, 193
 Dharmasura (White Sail): third ascent, 225
 Dhaulagiri I: second ascent, 228
 Dhaulagiri IV: attempt, 228
 Dhaulagiri VI: first and second ascents, 228
 Diemberger, K.: his book, *Tra Zero e Ottomila*, 311
 Disgrazia, Mte della: first British ascent by N face direct, 105, 201
 Dobani: attempt, 219
 Dreyfus, P.: his book, *Sylvain Saudan. Skieur de l'Impossible*, 303
 Dru, Petit: by SW pillar, 194; first solo ascent by N face, 194
- Editor's notes and acknowledgements: 292
 Eiger: N face: by original route, 196; second winter ascent by Harlin route, 197; second summer ascent by Japanese direct route, 197; first ascent by N pillar direct, 197; NE face, solo ascent by Lauper route, 198
 Einar Mikkelsen's Fjeld: first ascent, 250
 Elephant Island: Joint Services expedition to, 251
 Elwood, H.: art. 'The Taurus Mountains', 119
 Equipment and technique: published notes on, 276
 Etrier: early application of the principle, 278
 Evans, C: valedictory address, 7
 Everest, Mt: preparations for 1921 expedition, 43; Japanese ascent and attempts, 231
- Falak Sar: from N, 218
 Finch, G. I.: death, 291
 Fletschhorn: first British ascent by N face, 199
 Fontanet, J. C.: his book, *La Montagne*, 310
 Fraser, C.: his book, *L'Enigma delle Valanghe*, 311
 Frost-bite: description, causes, and treatment of, 70
 Führerbücher: in the A. C. library, 287
 Furchetta: by N face (Solleder-Wiessner route), 202
- Gnapa (Sherpa): death, 226
 Gobbi, Toni: obit., 326
 Gouter hut: best route to, 192
 Gray, D.: art. 'The Himalayan ethic-time for a rethink?', 156; his book, *Rope Boy*, 299
 Greenland: 1970 expeditions to: Sukkertoppen ice-cap, 249; Watkins Range, 250
 Grigna: description of, 169
 Grosshorn: first British ascent by N face direct, 198
 Guha, Mrs: death, 224
 Guidance for contributors: 340
 Guide-books: corrections to 1970 Dolomite, 203; new Italian, 203; new, reviewed, 313
- Hanuman Tibba: ascent, 225
 Hara, M: art. (with M. Asami) 'Makalu-the first ascent by the South-east ridge', 35
 Harriss, B.: art. 'The Monte Moro Pass and the Col d'Hérens', 127
 Hederatus: his book, *Cambridge Nightclimbing*, 308
 Hérens, Col d': history, 130
 High-level route: variation on, 200
 Hilton-Jones, B.: obit., 329
 Himalaya: thoughts on expeditions to, 156; permits granted for 1971 expeditions to Nepal, 232
 Himal Chuli: ascents of NE Peak, 229
 Hindu Kush: 1970 expeditions to, 210: conferences in Japan re, 219; summary of Japanese 1970 expeditions, 217
 Hindu Raj: ascents in, 218
 Hodgkin, R. A.: his book, *Reconnaissance on an Educational Frontier*, 310
 Hoggart, new routes in, 207
 Howard, T.: his book, *Walks and Climbs in Romsdal, Norway*, 315
 Howell, I.: art. 'Return to the Alps', 105
 Howser, North: by SW face, 240
 Huagaruncho: second ascent, and traverse, 243
 Huila, Nevado del: ascent, 241
- Ice-axe: a new, 274
- James, R.: his book, *Rockclimbing in Wales*, 316
 Jögin I: first and second ascents, 225; attempt, 225
 Jögin II: attempt, 225

- Jogin III: second and third ascents, 225
- K6: first ascent, 149
- Kanjiroba Himal: first ascent of highest summit of, 227
- Karakoram: expedition to NW, 1970, 163
- Karposhte-Yakhi: ascent, 216
- Kashmir: a walk in, 222
- Kenya, Mt.: exploration of crags on, 208; new huts on, 208; rescue on, 208
- Kilimanjaro: Mawenzi, complete S-N traverse, 138; by E face, 209
- Kishtwar Himalaya: expedition to, 223
- Kobl Müller, E.: art. 'The ascent of K6', 149
- Koh-i-Bandaka: attempts, 214
- Koh-i-Kesnikhan: ascent, 215
- Koh-i-Marchech: first ascent by W ridge, 213
- Kuś, A.: art. 'The Polish Karakoram expedition, 1969', 181
- Lalana (Bara Shigri): first ascent, 224
- Lefebure, M.: her book: *Cumberland Heritage*, 309
- Lhakpa Tsering: death, 229
- Lhotse Shar: first ascent, 232
- Ligoncio, Pizzo: first British ascent by WNW face direct, 107, 202
- Löbl, R.: his book (with H. Merrick), *The Alps in Colour*, 306
- Lörtscher, F.: art. 'Mawenzi—a complete traverse from south to north', 138
- MacInnes, H.: art. 'British-Soviet Caucasus expedition, 1970', 111
- Madri dei Camosci, Torre delle: first ascent by NW face, 204
- Makalu: first ascent by SE ridge, 35, 232
- Malubiting: Polish 1969 expedition, 181; first ascent of N Peak, 183; Munich 1970 expedition, 186; attempt on W peak, 183
- Mana Parbat (Gangotri): ascent, 225
- Maps: Annapurna massif, 20; Dhaulagiri massif, 228; K6, 152; Karakoram, NW, 162; Makalu, 34; Malubiting, 180; Nanga Parbat, 221; Taurus Mts., 118
- McClymont, W. G.: death, 291
- McKinley, Mt.: first solo and other ascents, 239
- Medlycott, T. A. H.: death, 291
- Melzer, B.: death, 189
- Menthosa: first ascent, 225
- Merrick, H.: his book (with R. Löbl), *The Alps in Colour*, 306
- Messner, G.: death, 221
- Minapin: attempt, 219
- Mir Samir: by a new route, 218
- Modi Peak: second ascent, 229
- Moro Pass, Mte: history, 127
- Mountaineering Journals: reviewed, 317
- Mulkila: ascent, 224
- Nagra Tau: attempt by N face, 112
- Nampa: attempt, 227
- Nanda Devi: attempt, 227
- Nanda Khat: attempt and accident, 227
- Nanga Parbat: third ascent, first by Rupal face, first traverse, 219; accident, 221
- New Zealand: summary of 1970 season, 238
- Noshaq: ascent, 215
- Olan, L': first ascent of Middle Summit by NW face direct, 194
- One hundred years ago: 175
- Pain de Sucre: by SE ridge direct, 193
- Palü, Piz: by W pillar of N face, 105, 200
- Panch Chuli: attempt, 227
- Parachute-jumping: mountain, 99
- Pardoe, E.: obit., 330
- Patel, N.: death, 226
- Patey, T.: obit., 331
- Pause, W.: his book. *Im Extremen Fels*, 311
- Peak 29 (Dakura): first ascent and accident, 229
- Peuterey, Aiguille Noire de: W face, second ascent by Boccalatte route, 193; route to start of S ridge, 193
- Phukpoche glacier: ascents of unnamed summits, 224
- Phunangma: ascents, 224
- Playgrounds, climbers': 169
- Prabhu, R. S.: death, 227
- Pyatt, E. C.: art. 'Chalk climbing in France', 173; his book, *Climbing and Walking in South-east England*, 307
- Rakhe Myani I and II: first ascents, 215
- Reader's Digest books: *Les Alpes*, 306; *Guide des Plantes Sauvages*, 311
- Rébuffat, G.: his book, *Glace, Neige et Roc*, 305

- Rey, Adolphe: obit., 339
 Russell, C. A.: art. 'One hundred years ago', 175
- Saha, Miss: death, 224
 Sajama: ascents, 246
 Salbitschijen: complete traverse of W ridge, 200
 Salcantay: height, 244
 Santa valley (Peru): earthquake disaster in, 241
 Saser Kangri: attempt, 224
 Selkirks: ascents in, 239
 Sentinel, the (NW Karakoram): ascent, 167
 Setnesfjell: by new routes on SE face, 191
 Shani Snow Dome: attempt, 165
 Shchurovsky, Pik: by N face Centenary Climb, 114
 Shirakawa, Y.: his book, *Alps*, 306
 Skiing: major new Alpine descents, 192; tracking and underlays for all year round, 276; early, in Scotland, 279
 Sleeping-bags: paper, 278
 Solimana, Nevado: history and first ascent of highest summit, 244
 Sondre Trolltind: second ascent of Hoibakk's Chimney, 191
 Sonnier, G.: his book, *La Montagne et l'Homme*, 309
 Steele, P.: his book, *Two and Two Halves to Bhutan*, 307
 Step-cutting: on Ben Nevis in 1848, 280
 Swat Kohistan: ascents in, 218
- Takushi, Y.: his book, *Gurja Himal*, 1969, 310
- Tambillos, Nevado: Indian remains on, 248
 Taurus Mts.: description of, 119
 Terrordactyl: note on, 274
 Thui II: corrections to article re, 216
 Tofana di Mezzo-Punta Anna: first ascent by SW dièdre (via Julian), 202
 Toro, El: attempt by W face, 143
 Toubkal massif: ascents in, 204
 Townshend, E. V.: obit., 336
 Trisul: ascents, 226
 Trollryggen: by Rimmon route, 190; by French route, 191
 Tukucha West: ascent and accident, 229
- U.I.A.A.: activities in 1970, 297
 Ullman, J. R.: his book, *And not to Yield*, 310
 Urubamba, Cordillera: ascents in, 244
- Vilcabamba, Cordillera de: ascents in, 243
 Vilcanota, Cordillera de: ascents in, 245
 von Gizycki, P.: art. 'The Munich Karakoram expedition, 1970', 186
- Wakhan Gol: first ascents around, 215
 Walker, J. P.: obit., 337
 Ward, M. P.: art. 'Frost-bite', 70
 Watanabe, H.: death, 229
 Wetterhorn, Scheidegg: fourth ascent by NE Pillar, 199
 Whillans Box: note on, 278
- Yomemoto, T.: death, 229
 Yosemite valley: ascents in, 239