

CONTENTS

Page

TERRAIN SCIENCES

1. **S.J. McCuaig** Quaternary geology of the Alexis River area, and the Blanc-Sablon to Mary's Harbour road corridor, southern Labrador 1
2. **M.J. Ricketts** Granular aggregate mapping in the Argentia and Placentia map areas (NTS 1N/4,5) 21

REGIONAL GEOLOGY

3. **T. Calon, C. Buchanan, E. Burden, G. Feltham and J. Young** Stratigraphy and structure of sedimentary rocks in the Humber Arm Allochthon, southwestern Bay of Islands, Newfoundland. 35
4. **J.W.F. Waldron, A.D. Henry and J.C. Bradley** Structure and polyphase deformation of the Humber Arm Allochthon and related rocks west of Corner Brook, Newfoundland. 47
5. **G.F. Hynes and T. Rivers** A study of the metamorphic aureole of the Mount Peyton Intrusive Suite, Dunnage Zone, central Newfoundland. 53
6. **D.T. James, S. Kamo, T. Krogh and L. Nadeau** Preliminary report on U–Pb ages for intrusive rocks from the western Mealy Mountains and Wilson Lake terranes, Grenville Province, southern Labrador. 67
7. **D.T. James, L. Nadeau and G.A.G. Nunn** Geology of the Natashquan River (NTS 13D/SE) and Senécal Lake (NTS 13D/SW) areas, Grenville Province, southern Labrador. 79
8. **L. Nadeau and D.T. James** Preliminary note on the lithochemistry and petrogenesis of intrusive rock suites from the Lac Brûlé region (NTS map area 13D), Grenville Province, Labrador. 99
9. **I. Knight and W.D. Boyce** Lower Paleozoic carbonate rocks of the northern closure of the North Brook Anticline and the Spruce Ponds klippe, Georges Lake (12B/16) and Harrys River (12B/9) map areas: collected thoughts on unconnected rocks. 121
10. **A.G. Brem, S. Lin and C.R. van Staal** Humber Zone – Dunnage Zone relationships and the Long Range Fault, south of Grand Lake, western Newfoundland: Preliminary results. 135
11. **C.J. Lissenberg and C.R. van Staal** The relationships between the Annieopsquotch ophiolite belt, the Dashwoods block and the Notre Dame arc in southwestern Newfoundland. 145
12. **J.C. Pollock, D.H.C. Wilton and C.R. van Staal** Geological studies and definition of the Tally Pond Group, Victoria Lake supergroup, Exploits Subzone, Newfoundland Appalachians. 155
13. **J.C. Pollock, D.H.C. Wilton, C.R. van Staal and M.N. Tubrett** Laser ablation ICP-MS geochronology and provenance of detrital zircons from the Rogerson Lake Conglomerate, Botwood Belt, Newfoundland. 169
14. **N. Rogers and C.R. van Staal** Toward a Victoria Lake supergroup: A provisional stratigraphic revision of the Red Indian to Victoria lakes area, central Newfoundland. 185
15. **P. Valverde-Vaquero and C.R. van Staal** Geology and magnetic anomalies of the Exploits–Meelpaeg boundary zone in the Victoria Lake area (central Newfoundland): Regional implications. 197

16. **A. Zagorevski and C.R. van Staal** Structures associated with the Red Indian Line in southwestern Newfoundland. 211
17. **S.J. O'Brien** A note on Neoproterozoic gold, early Paleozoic copper and basement–cover relationships on the margins of the Holyrood Horst, southeastern Newfoundland. 219
18. **S.J. O'Brien and A.F. King** Neoproterozoic stratigraphy of the Bonavista Peninsula: Preliminary results, regional correlations and implications for sediment-hosted stratiform copper exploration in the Newfoundland Avalon Zone 229
19. **B.A. Sparkes, S.J. O'Brien, M.R. Wilson and G.R. Dunning** The geological setting, geochemistry and age of late Proterozoic intrusive rocks at the Butlers Pond Cu–Au Prospect (NTS 1N/3), Avalon Peninsula, Newfoundland 245
20. **D.M. Rohr, E.A. Measures, W.D. Boyce and I. Knight** *Euomphalopsis* and *polhemia* (gastropoda) from the Lower Ordovician Catoche Formation, western Newfoundland. 265

GEOCHEMISTRY

21. **J.W. McConnell** Stream-water geochemistry as a guide to sources of acid-mine drainage in the former Rambler Mines area. 277

MINERAL DEPOSITS

22. **M.T. Dean and D.H.C. Wilton** The Katie Prospect and the potential for volcanogenic massive sulphides in the Baie d'Espoir Group, south-central Newfoundland: A metallogenic and lithogeochemical study 289
23. **W.L. Dickson** Dolomite potential of the Cape Norman area, Great Northern Peninsula, Newfoundland. 307
24. **W.L. Dickson** Silica assessment of the Hawke Bay Formation, Highlands of St. John area, Great Northern Peninsula, Newfoundland. 319
25. **A. Kerr** A reconnaissance study of platinum-group-element (PGE) contents from magmatic sulphide mineralization in Labrador. 327
26. **D.H.C. Wilton, R.C. Taylor, P.J. Sylvester and G.T. Penney** A review of kimberlitic and ultramafic lamprophyre intrusives from northern Labrador. 343

GENERAL SUBJECTS

27. **A. Harris and S. Cochrane** Core-storage program, 2001 353
28. **C. Patey and C. Saunders** Documents and databases of the Geological Survey of Newfoundland and Labrador. 359
29. **G.J. Stapleton, J.L. Smith and J.E. Duke** Mineral Occurrence Data System 361

OTHER PAGES OF INTEREST

Editing, Layout and Cartography

Preface

Rebuttal

2001 Projects

Geological Survey Personnel