

# CONTENTS

Page

## GEOCHEMISTRY

1. **J. McConnell** Highlights of a regional soil and till survey for base metals in central Labrador. . . . . 1

## REGIONAL GEOLOGY

2. **E. Burden, T. Calon, L. Normore and S. Strowbridge** Stratigraphy and structure of sedimentary rocks in the Humber Arm Allochthon, southwestern Bay of Islands, Newfoundland. . . . . 15
3. **C.F. Gower** Geology of the Upper St. Augustin River map region, Grenville Province, eastern Labrador . . . . . 23
4. **D.T. James, S. Kamo, T. Krogh and L. Nadeau** Preliminary U–Pb geochronological data from Mesoproterozoic rocks, Grenville Province, southern Labrador. . . . . 45
5. **D.T. James and L. Nadeau** Geology of the Little Mecatina River (NTS map area 13D/NE) and Lac Arvert (NTS map area 13C/SW) areas, Grenville Province, southern Labrador . . . . . 55
6. **L. Nadeau and D.T. James** Preliminary note on the lithochemistry and petrogenesis of intrusive rock suites from the Minipi Lake region (NTS map area 13C/south), Grenville Province, Labrador. . . . . 75
7. **B.H. O'Brien** Structural sequence and stratigraphic order of the Ordovician Wild Bight Group in the Seal Bay Brook–West Arm Brook area (NTS map area 2E/5), north-central Newfoundland. . . . . 89
8. **S.E. Palmer, E. Burden and J.W.F. Waldron** Stratigraphy of the Curling Group (Cambrian), Humber Arm Allochthon, Bay of Islands. . . . . 105
9. **D.M. Rohr, E.A. Measures, W.D. Boyce and I. Knight** Early Ordovician gastropods of the Barbace Cove Member (Boat Harbour Formation) and Catoche Formation, western Newfoundland. . . . . 113
10. **B. Ryan** A provisional subdivision of the Nain Plutonic Suite in its type-area, Nain, Labrador (NTS map area 14C/12). . . . . 127
11. **P. Valverde-Vaquero and C. van Staal** Relationships between the Dunnage–Gander zones in the Victoria Lake–Peter Strides Pond area. . . . . 159
12. **S.J. O'Brien, G.R. Dunning, B. Dubé, C.F. O'Driscoll, B. Sparkes, S. Israel and J. Ketchum** New insights into the Neoproterozoic geology of the Central Avalon Peninsula (parts of NTS map areas 1N/6, 1N/7 and 1N/3), eastern Newfoundland. . . . . 169

## MINERAL DEPOSITS

13. **A. Kerr, H.E. MacDonald and A.J. Naldrett** Geochemistry of the Pants Lake Intrusion, Labrador: Implications for future mineral exploration. . . . . 191
14. **C.F. O'Driscoll, M.T. Dean, D.H.C. Wilton and J.G. Hinchey** The Burin Group: a late Neoproterozoic ophiolite containing shear-zone hosted mesothermal-style gold mineralization in the Avalon Zone, Burin Peninsula, Newfoundland. . . . . 229

15. **J.C. Pollock and D.H.C. Wilton** Metallogenic studies of the Tally Pond Belt, Victoria Lake Group: Trace-element geochemistry and lead-isotope data from the Exploits Subzone, Newfoundland . . . . . 247

#### TERRAIN SCIENCES

16. **M.J. Batterson and D.M. Taylor** Quaternary geology and till geochemistry of the Bonavista Peninsula. . . . . 267
17. **M.J. Ricketts** Granular aggregate mapping in NTS map areas 1N/2, 1N/11, 11O/14 and 11O/15. . . . . 279

#### GENERAL SUBJECTS

18. **A. Harris and S. Cochrane** Core-storage program, 2000. . . . . 293
19. **C. Patey and C. Saunders** Documents and databases of the Geoscience Publications and Information Section. . . . . 299
20. **G.J. Stapleton, J.L. Smith and B.C. Way** Mineral Occurrence Data System. . . . . 301

#### OTHER PAGES OF INTEREST

**Editing, Layout and Cartography**

**Preface**

**Rebuttal**

**2001 Projects**

**Geological Survey Personnel**