The role of surface geochemistry in the discovery of the Babel and Nebo magmatic nickel–copper–PGE deposits by P. M. Baker & R. S. Waugh

Vertical ionic migration: mechanisms, soil anomalies, and sampling depth for mineral exploration by A. W. Mann, R. D. Birrell, M. A. F. Fedikow & H. A. F. de Souza

Dispersion of gold in stream sediments in the Sungai Kuli region, Sabah, Malaysia by W. K. Fletcher & J. Muda

Transportation and deposition of magnetite and gold in Harris Creek, south-central British Columbia by Z. Hou & W. K. Fletcher

Controls of element dispersion in aeolian sand and calcrite-dominated regolith associated with gold mineralization in the Kraaipan greenstone belt, South Africa by C. D. Okujeji, P. Ackon, W. Baugaard & N. Langa

Indicator mineral methods in mineral exploration by M. B. McClenaghan

Rutile geochemistry as a guide to porphyry Cu–Au mineralization, Northparkes, New South Wales, Australia by K. M. Scott

Atypical and typical zinc geochemistry in a carbonate setting, Sà Den Ha Hes Mine, Yukon Territory, Canada by S. J. Day & R. J. Bowell

The use of quartz concentrate (acid-insoluble residue) as a sample medium in lithogeochemistry and regolith exploration studies: development of a method by J. C. van Moort & A. Pwa

Optimization of partial extraction chemistry for buffered acetate and hydroxylamine leaches by I. J. Dalrymple, D. R. Cohen & S. G. Gatehouse

Geochemistry: Exploration, Environment, Analysis (ISSN 1467-7873) is published in February, May, August and November by the Geological Society Publishing House for the Geological Society, London and the Association of Applied Geochemists.

Subscriptions (volume 5, 2005): The subscription rate is £135 (UK), £135/$243 (rest of Europe, USA & Canada) and £152/$274 (rest of world) per volume, including postage and air-speeded delivery. Single issue price is £37 (UK), £37/$67 (rest of Europe, USA & Canada) and £42/$76 (rest of world). Trade subscriptions should be addressed to Journals Subscriptions Department, Geological Society Publishing House, Unit 7, Brassmill Enterprise Centre, Brassmill Lane, Bath BA1 3JN, UK (Tel: +44 (0) 1225 445046; Fax +44 (0)1225 442836). Periodical postage paid at Middlesex, N.J. Postmaster: send address changes to Geochemistry: Exploration, Environment, Analysis, The Geological Society, c/o Pronto Mailers, PO Box 177, Middlesex, NJ 08846.

© 2005 The Geological Society of London and AAG. Except as otherwise permitted under the Copyright, Designs and Patents Acts, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the Publishers or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency, 90 Tottenham Court Road, London W1P 9HE, UK. Enquiries concerning reproduction outside these terms should be sent to the Publishers at the Bath address. Users registered with the Copyright Clearance Center, 27 Congress Street, Salem, MA 01970, USA: The item-fee code for this journal is 1467-7873/05/$15.00.

The Geological Society and AAG make no representation, express or implied, with regard to the accuracy of the information contained in this publication and cannot accept any legal responsibility for any errors or omissions that may be made.

Cover illustration: Cover sequence of ignimbrites and gravels, Mocha, northern Chile. Photo: Chris Oates, Anglo American Pty.