

AUTHOR BIOGRAPHIES

JOSEPH ABOAGYE

Ghana

Mr Yaw Aboagye was educated at St. Augustine's College, Cape Coast. He attended the University of Science and Technology, Kumasi where he attained a B.Sc. (Hons.) degree in Geological Engineering in 1984.

After graduation, he joined the Minerals Commission as a National Service Personnel. After national service in 1986, he was engaged by the same Commission as a Projects Officer where his duties included supervising the execution of mineral development projects.

Mr Aboagye left for further studies in 1989 at McGill University, Montreal, Canada, where he obtained a Master of Engineering Degree in Mineral Economics in 1991. He returned to the Minerals Commission as Senior Planning & Policy Officer in charge of environmental issues at the Commission. He was promoted to Principal Planning & policy Officer in 1997.

Mr Aboagye's responsibilities include assisting the Director of Planning & Policy Analysis in Mineral Title Administration and Environmental issues as they relate to mining. Mr Aboagye has, in addition to his academic qualifications, attended shortcourses in the areas of mining and the environment worldwide.

Minerals Commission
PO Box M248
Accra
Ghana

Tel: +233 21 772783/772786/773053/771318/779823
Fax: +233 21 773324
E-Mail: j_aboagye@mincomgh.com

H. ALBARRAQUE

Portugal

Rua Serra De Baixo
Lote 2 1 - Dto
2725 Algueirao
Portugal

Fax: +351 1 925 02 24

ROBIN AMLÔT

Tin

Old Farmhouse Cottage
Wasp Green Lane
Outwood
Redhill, Surrey
RH1 5QE
UK

Tel: +44 (0)1342 844 988
E-mail: robin.amlot@dial.pipex.com

MICHAEL ANTHONY

[Extractive Metallurgy \(co-author\)](#)

Michael Anthony is St Barbara's Managing Consultant. He is an extractive metallurgist whose career has included positions with Roan Selection Trust, BOC Metals, BP Minerals International, SKW, Cookson and Leeds Mineral Services. Michael Anthony has over 30 publications to his name and has undertaken projects in over 40 countries.

Michael Anthony is a Past President of MIRO and a former council member and Chairman of Activities of the IMM. He was also Chairman of the UK DTI's Requirements Board for minerals and metals and has advised both UK and EU departments on metals issues. He is also a registered Expert Witness and has provided expert opinion in numerous commercial disputes.

St Barbara Consultancy Services
9 John Street
London
WC1N 2ES
UK

Tel: +44 (0)20 7404 2211
Fax: +44 (0)20 7404 2299
Web: www.saintbarbara.com

SVEN ARVIDSSON

Sweden

Geological Survey of Sweden
Box 670
S-751 28
Uppsala
Sweden

Tel/Fax: +46 18 17 92 10
E-mail: sven.arvidsson@sgu.se

BARRIE BAIN

Sulphur

Fertecon
Royal Victoria House
The Pantiles
Tunbridge Wells
TN2 5TE
UK

Tel: +44 (0)1892 701 710
E-mail: barriefertecon@btconnect.com

BARTOLOMEJ BALÁŽ

Slovak Republic

Bartolomej Baláž, born in 1954, studied geology at the Mining Faculty of Technical University in Kosice. Since 1980 he has worked as a Lecturer, and later as Senior lecturer at his Alma Mater. In 1992 he obtained his PhD degree in geology. Dr Baláž is interested in geology and the economics of mineral deposits.

Dipl.-Ing Bartolomej Baláž
Senior Lecturer
Dept. of Geology
BERG Faculty
TU Kosice, 043 84 Kosice
Slovakia

E-mail: bbalaz@tuke.sk

RICHARD BARKER

New Zealand

Richard Barker has been established as an independent consulting geologist in Auckland, New Zealand since 1986 after ten years working in Australia, New Zealand and the southwest Pacific for mineral exploration companies and the New Zealand Government.

His work now encompasses information research, public policy development and advice to the industry including metals, industrial minerals and aggregates, ranging from exploration through to production, fund-raising and permitting. Clients include companies, government agencies and industry organisations with work in New Zealand, the Pacific Islands and Indonesia.

PO Box 54 094
Bucklands Beach
Auckland
New Zealand 1730

Tel: +64 9 5358955
Fax: +64 9 5370463
Email: rbarker@ihug.co.nz

S BILGRAMI

Pakistan

68/2, 21st Street
Phase V Defence Society
Karachi
75000
Pakistan

Tel: +92 21 5855 953
Fax: +92 21 4546679/45
E-mail: acecorp@fascom.com

GEOFFREY V. BLACKBURN
BSc, FAusIMM, CPGeo, MMICA, FSEG, MASA.

Somalia

Geoff Blackburn is a Senior Consulting Geologist with 30 years international experience, based in Perth, Western Australia.

Mr Blackburn was involved in the discovery of PGM mineralisation in Western Australia and has become a leading consultant in this field by applying new geological models. He is one of a limited number of geologists that have been responsible for the discovery of an economic gold mine and involved through to production.

Geoff Blackburn is a published author of three books. His sense of history and wide ranging academia are important factors in creating potential new resource discoveries from the faintest of clues. He has been sought after to serve on a number of advisory and technical committees as well as presiding over Australia's peak professional exploration body.

PO Box 6
Glen Forrest
Western Australia
Australia 6071

Tel: +61 8 92988990
Fax: +61 8 92989629
E-mail: geoffb@q-net.net.au

ZIDA BLAISE

Burkina Faso

Zida Blaise Obtained a B.Sc in geological and mining technical engineering from University Geological School of Kiev, USSR in 1979. He returned to Upper Volta (now Burkina Faso) to work as an exploration geologist on several national geological projects during 1979-1995.

From 1995-1998, Mr Blaise was regional director of BUMIGEB, the state-owned geological and mining company at Dori, the northern part of Burkina Faso. Mr Blaise is currently head of the Geology and Topography Department at Bureau des Mines et de la Geologie du Burkina (BUMIGEB).

Bureau Des Mines Et De La Geologie Du Burkina
Directeur Regional Dori
01 BP 601
Ouagadougou 01
Burkina Faso

Tel: +226 301094/300227
Fax: +226 660272/364888

JETTE BLOMSTERBERG

Greenland

Mr Blobsterberg is with the Bureau of Minerals and Petroleum (BMP), a department of the Government of Greenland, performing administrative and regulatory functions regarding mineral and petroleum licences.

BMP
PO Box 930,
DK-3900 Nuuk
Greenland

Tel: +299 (0)34 68 25
Fax: +299 (0) 32 43 02
E-mail: jet@gh.gl
Web: www.bmp.gl

GAVIN J. BOWYER

Congo Brazzaville
Egypt
Netherlands

Gavin Bowyer has 30 years of experience in the mineral industry in the exploration for, and evaluation of, deposits of base, precious and steel industry metals, precious and semi-precious stones, and industrial minerals for construction, fertiliser and other uses. From graduation, until April 1999, he was employed by IMC Mackay and Schnellmann (formerly Mackay & Schnellmann). He worked initially as a site geologist. Subsequently, his responsibilities increased to the level of Project Management and since the late 1970s his assignments have mainly involved consultancy and technical audits, while maintaining hands on involvement in mineral projects through the management of specific exploration programmes and feasibility studies. Since June 1999, he has been a Director of London Mining & Mineral Consultants.

He has worked in Algeria, Australia, Bolivia, Burundi, Canada, Ethiopia, Ghana, Greece, Indonesia, Ireland, Côte d'Ivoire, Kazakhstan, Liberia, Malaysia, Mexico, Morocco, Nigeria, Oman, Pakistan, Portugal, Sierra Leone, Spain, South Africa, UK, Uruguay, US, Zambia and Zimbabwe.

Geological Consultant (B.Sc C.Eng., FIMM. FAusIMM).
Director, London Mining & Mineral Consultants Ltd.
20 Rhondda Grove
London E3 5AP
UK

Tel: +44 (0)20 8981 4957
Direct: +44 (0)20 8299 4905
Fax: +44 (0)20 8983 4041
E-mail: GJBowyer@aol.com
Web: www.londonmining.com

RICHARD BRAITHWAITE

Exploration Drilling

Richard Braithwaite was the Managing Director of Encore Drilling Ltd from 1972 - 1991. During that time Encore pioneered the use in the UK of semi-automated coredrills, thinwall wireline systems, self-setting fixed and re-useable wedges, and the non-magnetic surveying of drill holes.

Since 1991 he has worked as a drilling consultant specialising in borehole surveying and steerable corebarrels. He is principal of Encore Borehole Surveys, the UK and Ireland agent for ReflexIT AB, manufacturers of borehole survey tools.

Encore Borehole Surveys
Tel/Fax: +44 1546 870676
Email: encore@ndirect.co.uk
Web: www.encoreboreholesurveys.co.uk

ROBERT BROWN

Magnesium

Robert E. (Bob) Brown was born in the 'copper country' of northern Michigan and educated in local schools. He received a BSc in Metallurgical Engineering from Michigan Tech. After graduation, Mr Brown was employed by American Brake Shoe Co. in its two-year iron foundry apprentice programme.

After a three-year tour in the US Air Force as a navigator, Mr Brown was employed by Dow Chemical in the Magnesium Production Development Group. Mr Brown later transferred to Magnesium Applications and worked on a programme of desulphurisation of steel with injected magnesium-lime mixes. He then moved to a new silicothermic magnesium production plant in Alabama as plant metallurgist, and was later promoted to superintendent of melting and casting, and then to director of Magnesium Operations. After the plant closed, Brown went to Bendix Foundries as manufacturing manager of an aluminium and magnesium sand, investment and die casting foundry.

As a consultant, Mr Brown has worked as executive secretary of the International Magnesium Association for three years. Past and present clients have included Dow, American Magnesium (Texas), UBE Industries, Magnode Products, Cast Rite Foundry, Magnalith Corp., Harsh Metallize Industries (India), a major Indian tea corporation, Remacor, Andrew Lechner and Associates, Peter Ensio and Associates, Metallurg (Shieldalloy), Xstrata Corp. Anaconda Nickel Antheus Project, and Dead Sea Magnesium.

He has worked for AC Williams and Anacast Corp., both aluminum and magnesium sand foundries producing aerospace castings, and spent 20 years at Fluor Daniel as a principal technical specialist, and worked on a variety of projects.

Mr Brown went to Australia in 1997 to help Fluor with due diligence on a new large magnesium project he then moved to the Republic of Congo with a project team in October 1998 to review a proposed magnesium mine and reduction plant site. He has also participated in the Sinomag Conference in Beijing in November 2000, and toured magnesium plants in Ningxia Province.

Mr Brown has presented technical papers and written numerous articles covering both aluminum and magnesium for Light Metal Age, Magnesium Monthly Review, and does annual reviews of magnesium for *Mining Journal*. He also writes on magnesium for Light Metal Age (San Francisco) and for the Australian Journal of Mining.

Tel: +1 334 365 9184
E-mail: magman6@aol.com

KYRAN CASTEEL

Morocco
Turkey
Cyprus
Iraq

Mineral Industry Intelligence & Information
5 Station Road
Woburn Sands
MK17 8RR
UK

Tel: +44 (0)1908 582593
Fax: +44 (0)1908 282134
E-mail: kyrancasteel@cs.com

CHRISTOPHER CAVEY

Gems

Christopher Cavey is a gemmologist with a background of mineralogy, and of research in various aspects of the history of gemstones and their use in jewellery. He has a keen interest in engraved gemstones, especially intaglio's, and in symbolical, ritualistic, and emblematic jewellery.

It was 1977 when he was invited to join the well known gemmologist John A. Fleming F.G.A., and it was their joint interest and love of gems that led to their acquisition of a business called Rough Gems Ltd. This firm soon gained a reputation for selling unusual, fine, and rare gemstones and mineral specimens. Among the many interesting and unusual items the company promoted and handled was the newly discovered mineral charoite and a range of diamond crystals still in situ in kimberlite.

Among the numbers of important gemstones and mineral specimens that he has handled over the years was the first uncut waterworn crystal of the rare gemstone taaffeite which he sold to London's Natural History Museum.

He qualified as a Fellow of the Gemmological Association of Great Britain in 1977 and was elected to its Governing Council in 1980, and at that time played an active roll in the total rewriting of the gemmology correspondence course (leading to F.G.A., qualification). He became a consultant to the *Mining Journal* Correspondent on gemstones (excluding diamond) in 1978, and a few years later started writing the Gemstones article in the *Mining Annual Review*.

He was elected Curator of the Gemmological Association collections in 1985, a position only previously held by four very distinguished gemmologist's, which included Sir James Walton, Surgeon, to H.M. Queen Mary, Wife of George V; Robert Webster, lecturer and author of what is now one of the classic works on gemstones, "Gems their sources, descriptions and identification". He served the Gemmological Association and Gem Testing Laboratory of Great Britain as a member of its governing Council of Management and was a practical examiner for the F.G.A., diploma course until recently retiring. He is the gems' consultant to the "Guinness Book of Records", and a long-standing member of the Society of Jewellery Historians.

During the course of his career he has presented many lectures on various aspects of gems and minerals, has acted as consultant, valuer and advisor to many museums and educational establishments. He has escorted specialist tour groups through the complex gem and jewellery collections in London. He currently runs a shop with his full time partner Janet, at unit 178 Grays Antique Market, 58, Davies Street, London. W1, where he sells a wide range of gemstones, carvings (especially nephrite and jadeite of all periods), crystals, mineral specimens, unusual forms of jewellery, and provides a valuation and consultancy service to a diverse range of clients.

Christopher Cavey is author of "Gems and Jewels, Fact and Fable", published by Studio Editions 1992. He also was one of the team who revised the 5th Edition of R. Webster's book "Gems , their sources description and identification ".

E-mail: ccavey@clara.co.uk

JUDITH CHEGWIDDEN

Rare Earths (co author)

Roskill Information Services
2 Clapham Road
London SW9 0JA

Tel: +44 (0)20 7582 5155

Fax: +44 (0)20 7793 0008

MARK CHESHER

Surface Mining

Australian Mining Consultants Pty Ltd
Ground Floor
9 Havelock Street
West Perth
WA 6005
Australia

Tel: +61 (0)8 9481 6611

Fax: +61 (0)8 9481 6622

E-mail: mchesher@ausmin.com.au

E. CHIOTIS

Greece

Institute of Geology and Mineral Exploration
70 Messoghion Street
115 27 Athens
Greece

E-mail: chiotis@igme.gr

DES CLIFFORD

Mineral Processing

Editor, Mining Magazine
Mining Journal Ltd
60 Worship Street
London EC2A 2HD
UK

Tel: +44 (0)20 7216 6060
Fax: +44 (0)20 7216 6050
E-mail: des.clifford@mining-journal.com

TIM COATES

Costa Rica

A professional geologist with more than thirty-five years experience in Senior positions in Europe and the Americas. In Costa Rica he managed the Bellavista Project from 1984 to 1989 and in 1992 had a leading role in the discovery of the Cerro Crucitas gold deposit.

TC & A Geological Consultants
Apartado 3548-1000
San José
Costa Rica

Tel: +506 258-5015
Fax: +506 223-1414
Email: tcoates@racsa.co.cr

BRIAN COOPE

Magnesite
Perlite

33 Richmond Park Road
London
SW14 8JU
UK

Tel: +44 (0)20 8876 2197
Fax: +44 (0)20 8876 0884
E-mail: briancoope@compuserve.com

ALLAN COOPER

Lead

Allan Cooper graduated from the University of Cambridge in 1961 with a degree in metallurgy. After a brief spell in the steel industry, he joined Associated Lead Manufacturers (later Cookson Industrial Materials) in 1964. After serving in several technical and managerial roles he became Director of Research in 1983 before moving to the parent Cookson Group as Technical Development Manager. He left Cookson in 1991 and since then has acted as a consultant to the Lead Development Association in London, and as Projects Co-ordinator for the Advanced Lead Acid Battery Consortium's activities in Europe.

LDA International,
42 Weymouth Street
London W1N 3LQ
UK

Tel: +44 (0)20 7499 8422
Fax: +44 (0)20 7493 1555
E-mail: cooper@ldaint.org
acatcorfe@aol.com

PAUL CRANKSHAW

Madagascar
Benin

Paul Crankshaw is publisher of the business journal African Mining, and is managing director of Johannesburg-based publishing company Brooke Patrick (Pty) Ltd. He studied journalism at Rhodes University and holds post-graduate degrees in Development Studies from the University of the Witwatersrand.

Tel: +27 11 622 4666
Fax: +27 11 616 7196
Email: paul@brookepatrick.co.za

BERNARD CRAWFORD

Guyana

Bernard Crawford, Guyanese by birth, is a graduate of the University of London in the UK. He lives in Guyana and has worked in both the public and the private sector there. He recently took early retirement as Executive Chairman of the State-owned Bauxite Industry Development Co. (BIDCO) but maintains a keen professional interest in mining in general and bauxite mining in particular.

50 Robb & Albert Streets
Bourda Georgetown
Guyana

E-mail: amcbcf@guyana.net.gy

LAURENCE W. CURTIS

El Salvador

Laurence Curtis formed Intrepid Minerals Corp. in 1996 as a vehicle to explore Pacific Rim precious metal targets following ten years of work in the Caribbean Basin. Dr Curtis gained his Ph.D from the University of Toronto, and is a Fellow of the Geological Association of Canada, the Society of Economic Geologists. He is currently affiliated with several companies working in Central America.

Intrepid Minerals Corp.
155 University Avenue
Suite 1710
Toronto
Ontario
Canada
M5H 3B7

Tel: +1 416 368 4525
Fax: +1 416 861 2492
E-mail: intrepid.minerals@sympatico.ca

FRIDRIK DANÍELSSON

Iceland

Fridrik Danielsson holds a Civilingenjör degree (M.S. Chemical Engineering) from Lunds Tekniska Högskola (Lund Institute of Technology) in Sweden. He has been general manager of the Technological Institute of Iceland and participated in various research and development projects. He has acted as a chemical engineering consultant in many industrial projects, including metallurgical, mineral and chemical plant projects. He has written numerous articles about energy and environmental matters and has authored a book on industrial development in Iceland.

Fridrik Danielsson
Consulting Chemical Engineer
Reydarkvisl 22
110 Reykjavik
Iceland

Tel: +354-5673389
Fax: +354-5673334
E-mail: fdan@vortex.is

N B DHONAU

Ireland

Ben Dhonau read Natural Sciences at Cambridge, receiving his B.A. in 1966 and a Ph. D. in 1970. He joined the Geological Survey of Ireland in 1969, and initially worked as a field geologist. Since 1974 he has worked on many aspects of mineral development, including negotiation of State mining facilities, examination of Environmental Impact Statements for new mines. His principal interests are mineral economics, mining law and policy, and sustainable development for the extractive industry. He has been a member of the staff of the Exploration and Mining Division since its formation in 1992.

Exploration and Mining Division
Department of the Marine and Natural Resources
Dublin

E-mail: ben_dhonau@marine.irlgov.ie

TED DICKSON

Gypsum
Sillimanite

Ted Dickson has over 20 years experience in the industrial minerals industry. After obtaining a B.Sc in Geology from Edinburgh University and an M.Sc in Mineral Exploration from the Royal School of Mines in London, he spent more than twelve years with Industrial Minerals magazine, split roughly evenly between the London and New York offices, latterly as American Editor. He then spent five years with a mining company, Cluff Resources, primarily assessing opportunities for the company to diversify into industrial minerals to supplement its gold mining activities. For the past eight years, he has been working as an independent consultant from his base in Gerrards Cross just outside London, specialising in the markets for industrial minerals.

Ted Dickson
TAK Industrial Mineral Consultancy
Twin Oaks
29 Mill Lane
Gerrards Cross
Bucks SL9 8DF
UK

Tel/Fax: +44 (0)1753 892001
Mobile: +44 (0)7050 125604
E-mail: dicksontak@compuserve.com
Web: <http://ourworld.compuserve.com/homepages/dicksontak>

ARTEMIO F. DISINI

Philippines

Artemio F. Disini is President and Chief Operating Officer of Lepanto Consolidated Mining Company. He has more than forty years of experience in the mining industry. He is a graduate of the University of the Philippines (U P) from where he earned his bachelor's degree in Mining Engineering in 1962. In 1973, he obtained his degree in Master of Business Administration from the Graduate School of the same university.

In the early 1990s, Mr. Disini was instrumental in finding 650 Mt Far South East copper deposit situated near the Victoria gold deposit in Benguet, northern Philippines. Under his management, Lepanto discovered in 1995 the 4.3 Moz Victoria gold deposit.

Among his portfolio of senior management positions are: President and Chief Operating Officer of Manila Mining Corporation; President of Diamond Drilling Corporation of the Philippines; Vice President and Director of Far Southeast Gold Resources, Inc.; Senior Vice President of Shipside, Inc.; and Director of Diamant Boart Philippines.

As President of the Chamber of Mines of the Philippines, Mr. Disini strongly advocated sustainable and responsible mining. He supported the struggle to legally protect the constitutionality of the 1995 Philippine Mining Act and he is against the confiscatory provisions of laws like the Indigenous Peoples Rights Act. He was previously the Vice President of the Copper Sector of the Chamber and Chairman of the Editorial Board. He was President of the Philippine Mine Safety Association for two terms.

In 1994, he was awarded the Most Outstanding Alumnus of the University of the Philippines in Mining Engineering. In 1998, he was conferred the biennial award by the Philippine Society of Mining Engineers as the Outstanding Mining Engineer in Mine Management. Eventually he received the highest award in mining engineering, the coveted Outstanding Mining Engineer of the Year Award, a distinction given annually by the Philippine's Professional Regulation Commission. In 2000, he was awarded the Outstanding Alumnus of the U P Alumni Engineers for his contribution to the mining industry.

Lepanto Consolidated Mining Co.
PO Box 7507
Domestic Road
1300 Domestic Road
Pasay City
Philippines

Fax: +64 2 810 5583
E-mail: lepanto@l-next.net

JENKINS DORBOR

Liberia (co author)

Director of Mines for Liberia, and a lecturer at the University of Liberia, Mr Dorbor is one of the most experienced geologists in the country, having worked for many years as a geo-chemist/geologist with the Geological Survey on a number of mapping and mineral development programmes in association with the USGS and the UN. He acts as a consultant to Mano River Resources and other companies interested in serious hardrock mineral exploration in the country.

Mano River Resources Inc.
Suite One, 12 Station Road
Didcot, Oxfordshire
OX11 7LL
UK

Tel: +44 (0)1235 810 740
Fax: +44 (0)1235 810 733
E-mail: mano@btinternet.com

GERALD M. ELLIS

Dominican Republic
Venezuela
Panama
Paraguay
Uruguay

Gerald Ellis was Director General Mines, Dominican Republic 1963, and 1990-1996. He has experience underground and as exploration geologist in the US, Canada and South/Central America in the 1950s. Mr Ellis acted as a consultant for Inter American Development Bank at COMIBOL in Bolivia in late 1960s, for SONAREM in Algeria during the late 1970s, for Freeport in Panama during mid 1980s, and presently for Newmont Gold Co. of Denver and Petroconsultants – HIS Energy of UK for the Caribbean.

Tel/Fax: +809 381 0469
E-mail: gerald.ellis@codetel.net.do

JOSÉ ANTONIO ESPÍ

Spain

Dr Espi received a B.Sc. in Mining Engineering from ETSIM of Madrid in 1971, and a Ph.D in 1977. He received an MBA from Highlands University in New Mexico, US, in 1986.

Dr Espi has worked in mining exploration, research and technology, and mining projects:

Director of Geology. 1992-1996. ITGE (Geological Survey of Spain).

Director of Mineral Resources. 1996-1997. ITGE

Professor of Mineral Evaluation and Exploration in the E.T.S. Ingenieros de Minas de Madrid. 1989-2001.

José Antonio Espí
ETSIM de Madrid
Ríos Rosas 21
28003 - Madrid
Spain

Tel: +34 91 3366985
Fax: +34 91 3366450
E-mail: jaespi@argen.net

CELSO PINTO FERRAZ

Brazil

Celso Pinto Ferraz graduated in Geology from the University of São Paulo in 1968, and received an M.Sc in Mineral Economics at Stanford University in 1976. He obtained a Doctorate in Mineral Engineering from the University of São Paulo in 1990.

He was a geologist in the National Department of Mineral Production (1969/76), and Director of the Minerals Economic Division from 1976-79. In 1979, he helped organise the Geoscience Institute of the University of Campinas where he was the Director from 1993-97. Since 1999, he has been an invited Professor at UNICAMP, and works as a consultant in mineral economics and mineral policy.

Geoscience Institute B UNICAMP
PO Box 6152-13083-970
Campinas
SP-Brazil

E-mail: celso.ferraz@stanfordalumni.org

Dr DOUGLAS FLETT

Extractive Metallurgy (co-author)

Dr Douglas Flett is St Barbara's Senior Technical Consultant. He is a graduate of Aberdeen University and spent 29 years of his career at the Warren Spring Laboratory, ultimately managing the Minerals and Metals division. Over this period and, subsequently with Leeds Mineral Services and St Barbara, Doug Flett has established a reputation as one of the world's leading extractive metallurgists. Doug Flett has over a hundred publications to his name and has worked on minerals and metals projects for a wide range of companies in over 30 countries.

Doug Flett is a former Vice President, Chairman of Activities and Treasurer of the IMM and was recently awarded the Institution's long service award. He has also been awarded the Carl Hanson Medal for his work in the solvent extraction of metals. This medal is sponsored by the SCI and Dechema.

St Barbara Consultancy Services
9 John Street
London WC1N 2ES
UK

Tel: +44 (0)20 7404 2211
Fax: +44 (0)20 7404 2299
Web: www.saintbarbara.com

VICTOR FLORES

Mexico

E-mail: victor.flores@us.hsbc.com

BOB FOSTER

Algeria
Gabon

Equatorial Guinea
Ivory Coast
Tunisia

Bob Foster is Minerals Manager for the UK-based mineral and hydrocarbon consultancy group Exploration Consultants Ltd. He has contributed to the minerals industry as a professional economic geologist occupying exploration, mining and academic posts for more than 28 years.

Commencing his professional career in Zimbabwe in 1973, he was deeply involved in all aspects of the minerals industry of that country and in particular in gold exploration and mining. Subsequently moving to the University of Southampton, UK, in 1984, he established a substantial applied research group working world-wide from Brazil to China and Indonesia and throughout Africa during 1984-1998. He has published more than 60 scientific papers and edited two volumes on gold mineralisation and exploration. Linked consultancy activities took him to Europe, Africa, Australia, Asia and the Americas.

During 1991-1996 he was a member of the Pan African Mining Ltd management team that developed an open pit gold mine in Zimbabwe, and was Director (Exploration) of a successful major gold exploration programme for a Pan African joint venture, also in Zimbabwe, during 1994-1996. He is the Founder and Director of the International Liaison Group on Gold Mineralisation, generating a biannual newsletter summarising exploration, R&D, financial and other aspects of the gold mining industry for 500 subscribers, including 100 corporate (mining company/library) members, in more than 50 different countries. He has been an invited keynote speaker at numerous international scientific and technical conferences in Australia, Canada, Denmark, France, Ireland, South Africa and the UK. He joined ECL at the beginning of 1999.

Exploration Consultants Ltd
Highlands Farm, Greys Road
Henley-on-Thames
Oxfordshire, RG 9 4PR
UK

Tel: +44 1491 415400
Fax: +44 1491 415415
Email: r.foster@ecqc.com
Web: www.ecqc.com

DAVID FOX

Bolivia

David Fox is an academic geographer and consul for Chile, based in Manchester, UK.

E-mail: david.fox@man.ac.uk

GUY FRANCESCHI

Belgium
Luxembourg

Guy Franceschi is a senior mineral exploration consultant and director of GF Consult bvba., a Belgium-based consulting office. Mr. Franceschi graduated from the University of Gent in 1975 and has worked since then in a wide variety of base- and precious metals and industrial mineral exploration and evaluation projects world-wide. He worked for over 12 years for United Nations organisations and has conducted since 1989 numerous consulting assignments for international organisations, mining houses and investment companies in a large number of countries, mainly in francophone Africa, Europe and Southeast Asia. Mr. Franceschi's work includes assessment of acquisition/exploration opportunities and design, management and evaluation of mineral exploration work. Mr. Franceschi managed a number of projects in Africa and Europe.

GF Consult bvba.
Antwerpsesteenweg 644 B-9040
Gent
Belgium

Tel: +32 9 229.15.99
Fax: +32 1 683 43 80
Mobile: +32 (0)497 41.07.05
E-mail: tech@gfconsult.be
Web: www.ghconsultant.be

SEAN FULLER

Bismuth

Sean Fuller graduated in Production Engineering from the University of Aston in Birmingham in 1992. He worked for Hampson Industries PLC's Metal Division as Operations Manager producing Aluminium Alloy for 4 years. Mr Fuller then moved to Avon Group Holdings as a Commercial Manager buying/selling non-ferrous metals. in August 2000 he joined Mining & Chemical Products Ltd as Commercial Manager

Mining & Chemical Products Ltd
1-4 Nielson Road
Finedon Road Ind. Est.
Wellingborough
Northants
NN8 4PE
UK

Tel: +44 (0)1933 225766
Fax: +44 (0)1933 227814
E-mail: info@mcp-group.co.uk
Web: www.mcp-group.co.uk

D GALSANDORJ

Mongolia

Chairman of the Mongolian Mineral Resources Development Centre
www.monminerals.com

Nomin House Ltd of Mongolia
Metals and Mineral Consultancy Service
PO Box 49/724
Ulaanbaatar
Mongolia

Tel: +976 11 450530
Fax: +976 11 454580
E-mail: monnominh@magicnet.mn

JACK N GERARD

United States

President and Chief Executive Officer, The National Mining Association, Washington, D.C.
Please address all questions and inquiries to:

Ms Connie Holmes
Sr Vice President
Policy Analysis at National Mining Association

E-mail: cholmes@nma.org

BOB GILMOUR

Platinum Group Metals

IMPLATS
PO Box 61386
Marshalltown 2107
Johannesburg
South Africa

Tel: +27 (0)11 481 3913
Fax: +27 (0)11 484 0340
Email: bob.gilmour@implats.co.za

GFMS

Gold
Silver

55 -56 Saint Martin's Lane
London WC2N 4EA
UK

Tel: +44 (0)20 7539 7820

MEBRAHTU OGBAZGHI HADGU

Eritrea

Born in 1957 in Asmara, Mr Hadgu graduated with an MSc in Mining Engineering at Moscow Mining Institute (1976-1982), and joined the Eritrean 'struggle for liberation'. Since 1992, he has worked as Head of Mines Inspection in the Department of Mines.

Department of Mines
PO Box 272
Eritrea

Tel: +291 1 117126 / 117136

Fax: +291 1 124509

E-mail: alem@ec1.doe.gov.er

PETER W. HARBEN INC.

Central African Republic
Gulf States
Haiti
Israel
Kaolin
Surinam
Trinidad & Tobago

Guatemala
Guyane
Honduras
Jamaica
Puerto Rico
Syria
Yemen

Peter W. Harben Inc. is a mineral consultancy based in Las Cruces, New Mexico, US. The company specialises in various marketing aspects of industrial minerals, certain metals and chemicals, and in manufactured products.

Peter Harben is an independent consultant and writer specialising in market evaluations of industrial minerals and certain inorganic chemicals. His publications include *Industrial Minerals - A Global Geology* (1997), - *The Industrial Minerals HandyBook - A Guide to Markets, Specifications and Prices* (1992, 1995 and 1999). Mr Harben is also the author of *The Financial Times Executive Commodity Reports on Kaolin, Salt Industrial Diamonds and Beryllium*.

Jeanette M. Harris has written numerous articles on a variety of subjects (from amber to tektites) as well as country surveys for *Mining Annual Review*. Her books include *Canada - The Land and Its People, Mined It!, Mountain Magic, and Salt Sisters*; and she has co-authored *Manganese - Uses & Markets* with P. Harben and C. Raleigh. She was a writer in the editorial department of *Camera Press London*, whose photographs and features were syndicated to some 40 countries and she subsequently became their US agent in New York. She received her BA (Hons, gold medal) in English from Victoria College, University of Toronto, in 1971 and continued for an MA.

Peter W Harben Inc.
4830 Tobosa
Las Cruces
NM 88011
US

Tel: +1 505 521 3301
Fax: +1 505 521 3301
E-mail: harbenp@peterharben.com
Web: www.peterharben.com

ALEXANDRA HARRISON

Algeria
Côte d'Ivoire
Gabon
Tunisia

Alex Harrison is a geologist with ECL Minerals, a part of Exploration Consultants Ltd based at Henley-on-Thames. After graduation she worked on a number of gold exploration projects in West Africa with Hansa Geomin Consult. She participated in the development of the Samira Gold deposit in the Liptako greenstone belt of Niger and the Songori Gold discovery in Burkina Faso. As a field manager she was responsible for the execution of exploration programmes in the region ranging from setting up grass roots projects in the remote equatorial rainforest of the Congo to advanced core-drilling programmes in Niger and the re-evaluation of artisanal deposits in the Pan African of Nigeria.

Alex left Hansa GeoMin in 1998 to complete an M.Sc in Mining Geology at Camborne School of Mines. As a part of her studies she was employed for three months on the Cerro Matoso nickel laterite mine in Colombia where she undertook geological modelling of the deposit to establish the main controls on the mineralisation, leading to enhanced mining efficiency and improved long-term mine planning. Additional potential exploration targets were also identified.

Alex has participated in conferences, workshops and field excursions to gold and base metal mines in Canada, West Africa and the UK. Her current work with ECL Minerals ranges from metallogenic modelling and target selection to hands-on exploration.

Exploration Consultants Ltd
Highlands Farm, Greys Rd
Henley-on-Thames
Oxfordshire RG 9 4PR
UK

Tel: +44 (0)1491 415400
Direct: +44 (0)1491 415456
Fax: +44 (0)1491 415415
Email: a.harrison@ecqc.com
Web: www.ecqc.com

MALCOLM A HARROWER

Indium

Mr Harrower received a B.Met (Hons) from Sheffield University, and has subsequently gained a Post-graduate Diploma in Marketing. He worked initially for British Steel - Special Steels Division, later transferring to the Stainless Steel Division, and became regional manager for the South Eastern Distribution Division. He subsequently worked for an independent German company specialising in the manufacture of stainless steel special products. Mr Harrower joined MCP in 1996, and is responsible for the indium and gallium business world-wide, including the metal sourcing and sales and marketing of manufactured products.

He is a contributor to both *Metal Bulletin* and *Mining Journal*.

Mining & Chemical Products Ltd
1-4 Nielson Road
Finedon Road Ind. Estate
Wellingborough
Northants
NN8 4PE
UK

Tel: +44 (0)1933 225766
Fax: +44 (0)1933 227814
E-mail: info@mcp-group.co.uk
Web: www.mcp-group.co.uk

GREG HAWKINS

Nigeria

CME (Nigeria) Ltd
Via CME (Ghana) Ltd
148 Labonne Crescent
PO Box C723
Cantonments - Accra
Ghana

Tel: +233 21 774139
Fax: +233 21 760240
E-mail: cme@ncs.com.gh
Web: www.cmegroup.com

MICHAEL HAWKINS

Cobalt

Dr Hawkins worked in research and development for twenty years, gaining a Ph.D in 1973. He then spent six years in Zambia with ZCCM before joining Memaco Services in London during 1980. Dr Hawkins opened Memaco US Trading Office in 1988, and managed it until returning to London in 1993 as Memaco's Technical Manager. Dr Hawkins has been General Manager of the Cobalt Development Institute since 1997.

73 Smithbarn
Horsham
West Sussex
RH13 6DT
UK

Tel/Fax: +44 (0)1403 264766
Email: m.hawkins3@virgin.net

DR E J HAYES

Nickel

Dr Hayes graduated in metallurgy from Strathclyde University, Glasgow; has a Master's degree from McMaster University, Canada and a Doctorate from the University of Illinois. He was employed as an analyst with a London investment bank for several years before joining Inco where he was involved in the marketing of nickel for 22 years. Dr Hayes founded Abacus Consultancy in early 1997 to conduct in-depth research and analysis in nickel, cobalt, ferroalloys, stainless steel and stainless scrap and during the past four years the company successfully completed a range of projects for many of the world's leading companies and organisations.

As president of Abacus Consultancy he has given invited presentations at conferences in Australia, France, Russia and the US and during 2000 The Financial Times published his reports on nickel and on cobalt.

He has travelled extensively visiting many of the nickel/chromium/cobalt producing and consuming companies in Australia, Canada, Europe, Russia and the US.

Abacus Consultancy
59 New Street
Chelmsford CM1 1NE
UK

Tel: +44 (0)1245 25 22 22
Fax: +44 (0)1245 25 22 44
E-mail: jhayes@abacusuk.co.uk

ALAN HEAP

Titanium

Alan Heap is the commodities analyst at Salomon Smith Barney Australia. He is responsible for preparing market forecasts for a range of commodities, as well as detailed industry studies.

Prior to joining Salomon Smith Barney, he worked for Renison Goldfields in Sydney and Consolidated Goldfields in London where he was directly involved in the titanium markets.

Salomon Smith Barney
Level 22 Citigroup Centre
2 Park Street
Sydney, NSW 2001
Australia

Tel: +61 2 8225 4853
Fax: +61 2 8225 5445
E-mail: alan.heap@ssmb.com.au

JOHN HOLLAWAY

Zambia
Zimbabwe

John Hollaway & Associates
PO Box 5438
Harare
Zimbabwe

Tel: +263 4 706802/497978
Fax: +263 4 706958
E-mail: jha@zol.co.zw

THAN HTAY

Myanmar

M. Than Htay, a career geologist with 36 years' distinguished service in the Ministry of Mines, retired from the Department of Geological Survey and Mineral Exploration as Deputy Director General in 1992.

He obtained B.Sc. (Hons) from Rangoon University, Myanmar, in 1956 and an M.Sc. from McGill University, Canada, in 1961. A regular contributor to Mining Annual Review since 1990, he is currently an advisor and a part-time Professor of Geology at Yangon University, Myanmar.

20 Pyithayar Avenue
Pyithayar PO 11082
Bauktaw, Yangon
Myanmar

Tel: +95 1 542829

Fax: +95 1 650146

LESTER HUNT

Boron

Lester Hunt worked for Rio Tinto Borax for many years, before retiring from Rio Tinto in 1998. He retains a keen interest as well as contacts within the borate industry.

Tel: +44 (0)20 8348 2263

E-mail: lester.hunt@care4free.net

INTERFAX-M&CN (DR IGOR VOLOSSOV)

Armenia
Belarus
Georgia
Kyrgyzstan
Lithuania
Russia
Turkmenistan

Azerbaijan
Estonia
Kazakhstan
Latvia
Moldova
Tajikistan
Ukraine
Uzbekistan

Dr Igor Volossov, graduated from the Moscow State Institute of Foreign Relations, Department of Foreign Economic Relations, in 1982. From 1982 – 1992 Dr Volossov was Senior Research Fellow for All Union Institute of Complex Problems, Academy of Science of the USSR. From 1992 – 1996 he was head of section for the Institute for Strategic Studies, Russia, and from 1996- 1997 he acted as consultant for Alfa Capital Investment Bank.

Dr Volossov has been Head of Research for Interfax-M&CN since 1998. Interfax-M&CN also provides sectoral and company research on the former Soviet Union.

Tel: +7 095 250 2922 in Moscow
Tel: +1 303 825 1510 in the US

Interfax-M&CN

Tel: +7 095 250 3173 / 250 29 22
Fax: +7 095 250 14 36
E-mail: 7vij@pm.interfax.msk.su
Website: www.interfax-mcn.com

FLEMMING JACOBSEN

Denmark

Ministry of the Environment
Skov-Og Naturstyrelsen
Haraldsgade 53
DK 2100 København Ø
Denmark

Tel: +45 39 47 20 00
Fax: +45 39 27 98 99
E-mail: fja@sns.dk

TOM KENDALL

Asbestos

Industrial Minerals Information Ltd
16 Lower Marsh
London SE1 7RJ
UK

Tel: +44 (0)20 7827 9977
Fax: +44 (0)20 7827 6441
E-mail: tkendall@metalbulletin.com

AFTAB KHAN

Geophysical Exploration

Aftab Khan is Emeritus Professor of Geophysics at the University of Leicester where he has taught Exploration Geophysics to Masters and undergraduate students since 1965. He obtained his PhD at the University of Birmingham on the Palaeomagnetism of the Tertiary Igneous Rocks of Skye and continued magnetic research there before moving to Leicester where he has worked on a wide range of geophysical problems, most notably on the crustal structure of the East African Rift from seismic and gravity surveys, and on the application of induced polarisation to mineral exploration in Cyprus.

Professor Khan is also the co-author, with Dr Alan Mussett, of the text book "Looking in to the Earth an introduction to Geological Geophysics". He has been a contributor to *Mining Annual Review* since 1965.

Professor Aftab Khan
Department of Geology
Leicester University
University Road
Leicester LE1 7RH
UK

Tel: +44 (0)116 2523938
Fax: +44 (0)116 2523918
E-mail: mak@le.ac.uk

STEVE KIDD

Uranium

World Nuclear Association
Twelfth Floor, Bowater House West
114 Knightsbridge
London SW1X 7LJ
UK

Tel: +44 (0)20 7225 0303
Fax: +44 (0)20 7225 0308
E-mail: wna@world-nuclear.org

DUDLEY J KINGSNORTH

Rare Earths (co-author)

Executive Director
Industrial Minerals Company of Australia Pty Ltd
4 St Johns Wood Blvd
Mt Claremont
WA 6010
Australia

Tel: +61 8 9384 8483
Fax: +61 8 9286 2886
email: claudius@iinet.net.au

BILL KIRK

Iron Ore

United States Geological Survey

Tel: +1 703 648 4962
Fax: +1 703 648 7757
E-mail: wkirk@usgs.gov

Dr PETER F KNIGHTS

Chile

Assistant Professor
Mining Centre
Catholic University of Chile
Santiago
Chile

E-mail: knights@ing.puc.cl

DAVID KNOPF

Cameroon
Niger

Chad
Switzerland

David Knopf spent seven years as a field geologist in the côte d'Ivoire, acquired international experience with Alusuisse Mining in the 1970s, and established his consultancy in 1982, with most of his assignments being in Africa and Europe. For the article on Niger he was assisted by Zara Soumana, in Niamey. With the Cameroon article he was assisted by Paul Ntep Gweth, Chief Engineer at DMG in Yaounde.

Consultant geologist
1813 St-Saphorin
Switzerland

Tel/fax: +41-21-9226053

E-mail: 106124.277@compuserve.com

RUSHAN KOÇIBELLI

Albania

Rushan Koçibelli completed his studies at the University of Tirana in 1966. Until 1980 he worked as engineer, chief engineer and director in Albanian iron-nickel mines. He has been General Director of Mines, counsellor to the vice Prime Minister, and vice Minister of Mines. His qualifications include a Ph.D and DSc. He is currently in a senior scientific post at ITNPM, and also teaches at the University of Tirana.

Blloku 'Vasil Shanto'
Tirana
Albania

Tel: +355 42 34266 / 33769

Fax: +355 42 33542 / 50729

VLADIMIR KOUSSEFF

Bulgaria

Dr Vladimir Kousseff is an expert in mining technology, technique and management. Graduated in Mining –Technology technique from the University of Mining and Geology, Sofia. Awarded a Ph.D. in 1990 for his dissertation in the field of hydraulic conveyance of mineral resources. Dr Kousseff has a good command of the Russian Language, written and spoken.

During 1960 – 1965 Dr Kousseff has worked in open-pit and underground mine environments. During 1965 – 1991 he worked as a researcher in Niproruda Research Institute, and since 1991 at GEOTECHMIN, Consulting and Engineering Co. Ltd.

Dr Kousseff is the author of more than 70 publications on the techniques and technology of open-pit mining, and is a member of the Union of Bulgarian Scientists and of the scientific and Technical Union of mining, Geology and Metallurgy.

Geotechmin – SVS Bulgaria
9 Lyulin Planina Str.
1606, Sofia
Bulgaria

Tel: +359 2 9650 221
Fax: +359 2 9650 222
E-mail: ikousseva@hotmail.com

Dr KEVIN LEAHY

Equatorial Guinea
Senegal

Kevin Leahy joined Exploration Consultants Ltd (ECL) in January 1998 primarily to undertake regional-scale gold prospecting using genetic modelling for a major gold exploration client. Other ECL projects include involvement in country promotions, diamond exploration project management, hydrocarbon exploration regional tectonics and basin analysis, and a global synthesis of regional tectonic and terrane evolution.

Dr Leahy completed his B.Sc (1992) and Ph.D (1996) at the University of Leeds (UK) with a year between the two working on structural control of Witwatersrand gold. His Ph.D examined the geology of the Fort á la Corne kimberlite province, Canada, and included three field seasons drilling and assessing these kimberlites on behalf of a Canadian junior exploration company. He had a spell employed as a regional structural geologist at Rock Deformation Research (in both gold and hydrocarbon exploration), before joining ECL in 1998. His broad areas of expertise include integrated regional studies, structural geology, kimberlite geology, sedimentology and geochemistry. He has published six papers, with two others in press, and lectured at the 6th International Kimberlite Conference and the IAEG conference in 1999.

Exploration Consultants Ltd
Highlands Farm
Henley on Thames
UK

Tel: +44 (0)1491 415456
Fax: +44 (0)1491 415415
E-mail: k.leahy@ecqc.com
Web: www.ecqc.com

QUANCHAI LEEPOWPANTH

Thailand

39 Ladprao Road
Soi 124, Bangkapi
Bangkok 10310
Thailand

Fax: +66 2 934 3249
E-mail: lquancha@pioneer.netserv.chula.ac.th

YENGA MABOLIA

Congo (Democratic Republic of)

After obtaining a Master's degree in economics from the University of Ottawa in 1984, the author completed his banking training at the Deutsche Bank in Stuttgart.

He began his professional career at the Banque Commerciale du Congo, a subsidiary of the Belgolaise Bank. Mr Mabolia joined Gécamines (GCM) in 1986 and, under the supervision of Metdist Ltd, completed a training period at the London Metals Exchange, before helping to set up GCM's London branch and taking the helm in 1991. In 1996, Mr Mabolia was appointed Vice President and later President of African Metal Corp. in the US, a joint venture between Gécamines and Sogem USA, a subsidiary of Sogem SA which is part of the Union Minière group. At the end of his term of office in January 2000, the author returned to Gécamines, joining the Sales Division in Brussels.

E-mail: diyenga@yahoo.com

MICHAEL MABY

Tungsten

Secretary-General
International Tungsten Industry Association
2 Baron's Gate
33 Rothschild Road
London W4 5HT
UK

Tel: +44 (0)20 8742 2274
Fax: +44 (0)20 8742 7345
E-mail: itia_imoa@compuserve.com
Web: www.itia.org.uk

GRAIN MALUNGA

Malawi

Mr Malunga is Deputy Director of Operations in the Malawi Development Corp. He has over 14 years experience in mining and exploration and has worked for the Geological Survey of Malawi as a geologist and for Mining Investment and Development Corp., to the level of General Manager. He obtained his first Degree in Earth Sciences at the University of Malawi in 1985 and went further for his Masters Degree in Project Management (Mining) at the University of Nancy (CESEV), France in 1990. He is currently seconded to Otpichem (2000) Ltd as Interim General Manager. The Company produces fertiliser and aims at looking into mining local phosphate and other raw materials for fertiliser production. He has also been involved with foreign organisations such as the Centre for Development of Enterprise in mining project identification and production of mining reviews. He is also the General Secretary for The Geological Society of Malawi.

Malawi Development Corporation
4 Glyn Jones Road West
P.O. Box 566
Blantyre
Malawi

Tel: +265 620 100 / 829 724
Fax: +265 623 085 / 620 584
E-mail: gmalunga@yahoo.com / opl@sdpn.org.mw

FRANCO MARANZANA

Italy

Associazione Mineraria Italiana
Per L'industria Mineraria e Petrolifera
00197 Roma
Via Delle Tre Madonne 20
Italy

PER NICOLAI MARTENS

Germany

Professor Dr.-Ing. Dipl.Wirt.-Ing.

Per Nicolai Martens graduated in mining engineering at the Montanuniversität Leoben, Austria. After postgraduate studies in business administration and industrial engineering and his doctorate at Aachen University of Technology (RWTH), Germany, he held various positions in the mining industry for 15 years. In 1992 he was appointed Professor and Head of the Institute of Mining Engineering I at Aachen University of Technology (RWTH). The institute, among other things, deals with research, teaching and consulting in mining and occupational safety.

Since 1997 Dr. Martens has been the Speaker of the Collaborative Research Centre 525 "Resource-orientated Analysis of Metallic Raw Material Flows", a major interdisciplinary research project funded by the German Research Foundation (DFG). The project deals with the challenges of sustainable development facing the minerals and metals industry. The principal goal is the development of an integrated resource management system for metallic raw materials.

Institute of Mining Engineering I
Aachen University of Technology
RWTH Aachen
Wuellnerstrasse 2
D-52056 Aachen
Germany

Tel: +49 (0)241 805668
Fax: +49 (0)241 8888272
E-mail: martens@bbk1.rwth-aachen.de
Web: www.rwth-aachen.de/bbk1

HOWARD BARRYMORE MASTERS

Antimony
Mercury

Mr Masters was born in 1949 in London and commenced in the trade in 1968 with Mining and Chemicals Products. He joined Lambert Metals in 1971, shortly after its inception and during 1983/4 engineered the buy-out of the company from its parent, Ireland Alloys. He currently holds a 50% shareholding in the company (and is Chairman and Managing Director), which specialises in the trading of Minor Metals and Ferro-Alloys.

He specialises in Minor Metals, and his interest and reputation in this field is evidenced by his active Chairmanship of the Minor Metals Trade Association from 1981-1995.

Howard Masters
Chairman and Managing Director
Lambert Metals International Ltd

Tel: +44 (0) 20 8951 4844
Fax: +44 (0) 20 8951 1151

EDWIN P. MCHIHIYO

Tanzania

Mr Mchihiyo graduated at the University of Dar es Salaam in 1981 with a First Class degree in Geology. In 1985 he obtained a postgraduate diploma in Engineering Geology from ITC/Delft Technical University in Holland. In 1991, Mr Mchihiyo graduated with an M.Sc in Geochemistry from Guelph University, Canada, and has also attended short courses in International Law, Project Analysis and Management and International Procurement.

After graduation, he worked at the Ministry of Minerals, Laboratory and Analytical Services Division in Dodoma for three years until 1984. From 1985-1988 he was involved in an Agro-Mineral Exploration Project under the Ministry of Water, Energy and Minerals as Project Leader. The objectives of the multidiscipline project was to carry out country wide assessment of agromineral potential and make recommendation to the government on target areas.

From 1991-1994 he was part of the Ministry's Mineral Licensing Team. Roles included establishment of a mineral title database and mineral processing and licensing procedures, as well as maintenance of up to date mineral title database.

Since 1994 he has been working as a Technical Officer and adviser to the Ministry of Energy and Minerals under a World Bank-funded Mineral Sector Development Project. As a Technical Officer and adviser to the Ministry, principal roles include overseeing and co-ordinating project activities related to policy, legal, regulatory reforms, institutional strengthening; environmental management; improvement of small scale mining, and investment promotion. He is currently a Senior Geologist in the Ministry of Energy and Minerals responsible for investment projects.

Mr Edwin P Mchihiyo
Senior Geologist
Ministry of Energy and Minerals
PO Box 2000
Dar es Salaam
Tanzania

Tel: +255 (0)22 2137 138

Fax: +255 (0)22 2116 7119

Email: edmchihiyo@hotmail.com

DAVID MCNEILL

Beryllium

David McNeill graduated from Manchester University with a B.Sc (Hons) degree in Geography in 1990. He then worked for the University of Manchester Alpine Glacier project between 1990 and 1992. Since joining Roskill in 1993, David McNeill has worked on numerous consulting projects and has researched and written reports on beryllium, iron ore, bauxite and alumina, gypsum, kaolin, iodine and natural graphite. Additionally, he co-ordinates the collection of data for the entire series of Roskill reports.

Roskill Information Services Ltd
2 Clapham Road, London
SW9 0JA
UK

Tel: +44 (0)20 7582 5155
Web: www.roskill.co.uk

EL GAOUTH MEMADY

Mauritania

Mining Engineer; MSc in Mineral Economics
Manager, Mining & Exploration, SNIM
Société Nationale Industrielle et Minière
BP 42 Nouadhibou
Mauritania

Tel: +222 5 74 16 97
Fax: +222 5 74 53 96
E-mail: memady@snim.com

LARRY METZROTH

Coal

Principal Administrator
Coal, Electricity & Renewable Resources
Energy Statistics Division
International Energy Agency
9 Rue de la Federation
75739 Paris Cedex 15
France

Tel: +33 1 4057 6631
Fax: +331 4057 6649
E-mail: lawrence.metzroth@iea.org

MICHAEL MEW

Phosphate Rock

Fertecon Research Centre (FRC)
5 Bridge House
25 Fore Street
Okehampton
Devon
EX20 4LU

Tel: +44 (0)1837 55141
Fax: +44 (0)1837 53846
E-mail: MichaelMew@Compuserve.Com

PETER S. MITCHELL

Vanadium

Highveld Steel and Vanadium Corp. Ltd
Director, Vanadium Market Development
Winterton House
High Street
Westerham, Kent
TN16 1AQ
UK

Tel: +44 (0)1959 563 400
Fax: +44 (0)1959 562 563
E-mail: vanitec@btinternet.com

JÓZSEF MOLNÁR

Hungary

J. Molnár graduated in geological engineering from the Miskolc Technical University, and began his career with the Geological Institute of Hungary as a survey geologist in the mountain regions of Hungary. He discovered one of the ten major oilfields of the country (Demjén). Afterwards he became engaged in volcanological studies and directed a countrywide exploration drilling programme. In 1964 he was promoted to Chief Branch Geologist of the Hungarian Ministry of Heavy Industries and member of the National Commission on Mineral Wealth. From 1966 to 1968 he worked as a consultant geologist in Cuba, before joining GEOMINCO (Geological and Mining Engineering Corp.) as Chief Engineer. He has been involved in the preparation of geological investigations in more than 60 foreign countries, and has written more than 200 scientific-technical papers. He has been a contributor to the Mining Annual Review since 1972.

H-1024. Budapest
Margit krt. 44
Hungary

Dr CHARLES MOON

Exploration Overview

University of Leicester
Department of Geology
University Road
Leicester LE1 7RH
UK

HUGH MORROW

Cadmium

International Cadmium Association
PO Box 924
Great Falls
VA 22066 0924
US

Tel: +1 703 759 7400
Fax: +1 703 759 7003
E-mail: icdamorrow@aol.com

C. EDWARD MOSHEIM

Tantalum
Niobium

Mr Mosheim is the Technical Promotions Officer for the Tantalum-Niobium International Study Center, which is an international association founded under Belgian law in 1974. Its members are companies involved in the production of tantalum and niobium raw materials, processing and refining, manufacture of capacitors, assaying and analysis, and in trading. There are currently some sixty member firms, from over twenty countries across the world, and they include most of the major companies involved with these metals.

Technical Promotions Officer
Tantalum-Niobium International Study Center
rue Washington 40
B-1050 Brussels
Belgium

Tel: +32 2 649 51 58
Fax: +32 2 649 64 47
E-mail: info@tanb.org
Web: www.tanb.org

MUHAMAD NOR MUHAMAD

Malaysia

Muhamad Nor Muhamad is currently the Executive Director of the Malaysian Chamber of Mines, which is the national mining association representing the mineral industry interests in Malaysia.

He has been serving the Malaysian mining industry since 1975 and has been actively involved with domestic and international mineral industry issues representing the Chamber. He has also acted as the industry adviser to the Malaysian government delegation to a number of international forums and meetings on matters related to minerals, in particular tin. He has presented papers at several conferences and seminars, locally and internationally.

Muhamad Nor Muhamad is a Fellow of both the Institute of Chartered Secretaries and Administrators and the Institute of Business Administration, UK.

Malaysian Chamber of Mines
8th Floor, West Block
Wisma Selangor Dredging
142-C, Jalan Ampang
50450 Kuala Lumpur
Malaysia

Tel: 603-21616171
Fax: 603-21616179
E-mail: mcom@po.jaring.my

SEAN MULSHAW

Salt
Molybdenum

Roskill Information Services
2 Clapham Road
London
SW9 0JA
UK

Tel: +44 (0)20 7582 5155
Fax: +44 (0)20 7793 0008
E-mail: sean@roskill.co.uk

ROGER MURRAY

Botswana
Namibia

Roger Murray is based in London and is an economic analyst/consultant specialising in the natural and mineral resources of southern Africa, especially Namibia and Botswana. He is a regular contributor to *Mining Journal*, *Africa Analysis*, *African Review* and other specialist titles, and is author of the Namibia country report of the *Economist Intelligence Unit (EIU)*. He has acted as consultant to the UN, Commonwealth Secretariat and Namibia's Ministry of Mines and Energy.

Mr Roger Murray
115 Canfield Gardens
London
NW6 3DY
UK

Tel: +44 (0)20 7624 2894
E-mail: jrmur115@aol.com

ISIRELI NAIKELEKELEVESI NAGATA

Fiji

Mr Nagata is a senior scientific officer (Resource Geologist) with the Minerals Resources Department in Fiji.

Mineral Resources Department
Private Mail Bag
GPO Suva
Fiji

Tel: +679 (0)381611

MIECZYŚLAW NAJBERG

Poland

Mr Najberg is a mining consultant and the Hon. Secretary-General of the IOC World Mining Congress. Mr Najberg graduated from Warsaw University in 1951. He was head of the mining division of the Polish Standards Committee 1951-66; and counsellor chairman to the Prime Minister's Office, Polish State Mining Council 1966-90. Mr Najber also chaired the brown coal and lignites ISO committee on Solid Mineral Fuels 1967-68; and was General Mining Director 1972-98; Secretary General of IOC World Mining Congress 1968-98.

Suite 12, 17 Sękocińska
02-313 –Warsaw
Poland

Tel: +4822 8222673
Fax: +4822 6130309

KOJI NAKUI

Japan

London Office
Metal Mining Agency of Japan
Chancery House
Chancery Lane
London WC2A 1QS
UK

Tel: +44 (0)20 7242 2618
Fax: +44 (0)20 7831 5437

NATURAL RESOURCES CANADA

Canada

The policies and science and technology programmes of Natural Resources Canada (NRCan) encourage sustainable development in Canada. The organisation's Website contains information pertinent to the Canadian minerals and metals industry (<http://www.nrcan.gc.ca>).

The Minerals and Metals Sector (MMS) of NRCan is the federal government's centre of scientific and technological knowledge, and policy advice, for mineral and metal resources. The MMS website (<http://www.nrcan.gc.ca/mms>) provides comprehensive information on mining in Canada, including research and development, upcoming events, and many related links to Canada's natural resource industries.

Tel: +1 613 996 2010
Fax: +1 613 947 4198

Dr ZOHAIR A. NEWAB

Saudi Arabia

Deputy Minister for Mineral Resources
DMMR
PO Box 345
Jeddah
21191
Saudi Arabia

Tel: +966 2 667 4800

Fax: +966 2 667 2265

DONALD O. DOWNING

Canada
Coal

Don Downing is Vice President, Management Consulting at Norwest Mine Services Ltd. in Calgary, Alberta. A geologist, Mr. Downing has over 25 years of professional experience in a variety of senior roles with Canadian mining and energy companies. He has extensive experience in international minerals marketing and was head of the Coal Division of Esso Resources Canada Ltd. and President of Byron Creek Collieries Ltd., a unit of Esso. Mr. Downing was President of The Coal Association of Canada (1993-1998) prior to joining Norwest. At Norwest he leads the management consulting practice and provides business consulting services to resource companies, service providers and governments.

Vice President Management Consulting
Norwest Mine Services Ltd.
Calgary
Alberta
Canada T2G 0R3

ALELE OPIO

Uganda

Mr Alele Opio studied at Makerre University College, which was a constituent College of the University of East Africa (UEA) based in Kampala, Uganda, from 1965-68, where he obtained a B.Sc (Hons) in Chemistry. In 1969 he studied at the University of Cincinnati, in Ohio State, US, and transferred to New Mexico Tech in Socorro, New Mexico, US, in 1970. On completion of his studies (May 1971), Mr Opio was awarded an M.Sc degree in Extractive Metallurgy. In mid-1971, he attended a seminar on Management Process at the Arthur D. Little Institute of Management Education in Cambridge, Massachusetts, and was awarded a Certificate in Management Process.

Mr Alele Opio started working as a Junior Metallurgist at Kilembe Mines Ltd in 1968 but left for further studies in the US in September 1969. Upon completion of his studies he took up a job as Junior Plant Engineer with Asarco at the Mission Unit in Arizona. He rejoined Kilembe Mines as Plant Metallurgist in 1972 and rose through the ranks to become the Acting General Manager before leaving the company in 1982.

In 1987, he was elected a member of the District Council but resigned in July 1988 to take up his current job as Senior Industrial Expert in the Division of Industry and Energy with the Preferential Trade Area for Eastern and Southern African States (PTA) now the Common Market for Eastern and Southern Africa (COMESA), headquartered in Lusaka, Zambia. The job involves developing and implementing projects and programmes for regional co-operation in industrial development with special regard to the metallurgical and engineering industries, standardisation and quality assurance, energy development and environmental protection.

Mr Opio is a member of the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME), and is Chairman of both a Co-operative Society and a Community-based Organisation (CBO) for Culture and Education. He is a Director and Shareholder of several companies in Uganda, and has participated in many seminars, conferences and workshops.

Tel: +256 0473 30360
Fax: +256 0473 20275
E-mail: eticax@africaonline.co.ug

Dr NORBERT OPIYO-AKECH

Kenya

Norbert Opiyo-Akech is a Senior Lecturer at the Department of Geology, University of Nairobi. He has worked extensively in the area of prospecting for minerals, particularly gold exploration in Kenya. He is currently the Vice President (Eastern Africa) of the Geological Society of Africa (GSAf), Chairman, Geological Society of Kenya (GSK) and Vice-Chairman of the Geologists Registration Board of Kenya. He is also a member of the Kenya Chamber of Mines.

Department of Geology
University of Nairobi
PO Box 30197
Nairobi
Kenya

Tel: +254 (0)2 449914
Fax: +254 (0)2 449539
E-mail: opiyo-akech@uonbi.ac.ke

JEAN-PIERRE PALUT

France
Togo

J-P Palut graduated in economic geology and worked as a research geologist at the University of Paris and in Central Africa, and thereafter in mineral exploration with Cominco Europe. Since 1986, he has been consulting in France and most Francophone African countries for mining companies and institutions (European Commission and local governments) mainly in mineral exploration and project evaluation (base metals, gold, iron ore, barytes) as well as mineral regulations and taxation.

AGEMI sarl
135 rue du Mont-Cenis
75018 Paris
France

Tel: +33 (0)1426 23726.
Fax: +33 (0)1425 40093
E-mail: jppalut@compuserve.com

ABBAS PARWARESH

Iran

Abbas Parwadesh was born in 1940 in Isfahan and studied Mining and Metallurgy (Montanuniversitaet) in Leoben-Austria from 1959-1968. He obtained a first in Mining Engineering and Mine Surveying. On completion of his studies he was awarded a Ph.D. (Dr.mont.) at the same university. He attended also the postgraduate course on Mineral Prospecting, Exploration and Mining in developing countries. In 1970 he completed the Inter-Regional Training Course on Nuclear Techniques at the Mining Industry in Cracow, Poland.

Dr. Parwadesh started working at first as mineral economist and mine-inspector at the Ministry of Industries and Mines of Iran. He then worked as exploration and mine manager on several mining projects and as director of mines co-ordination and supervision for many years. He has been a university professor, state advisor, director and board member of several mining companies in Iran and has participated in many international Congresses and Seminars.

He is currently professor for Mining Engineering at Islamic Azad University, Tehran and also provides seminar consultancy to the mining industry.

Continental Mining Consultancy
Ave. Valie Assr / Jame Jam
Golestan Str. 6
IR-19007 Tehran
Iran

Tel: +98 21 204 53 29
Mobile: +98 911 2454 775
Fax: +98 21 807 6838

S POLEGEG

Austria

Mr Polegeg is a consultant with FREN, Austria.

FREN
Franz Josef-StraBe 4
1-8700 Leoben
Austria

Tel: +43 3842 45761
Fax: +43 3842 46824
E-Mail: polegeg@lion.cc
Web site: www.fren-trenntechnik.at

IR ACHMAD PRIJONO

Indonesia

Ir. Achmad Prijono graduated in Mining Engineering from Technische Hogeschool Delft, The Netherlands. During his tenure at the State Coal Corp. (1981-1984) he negotiated and signed the first ten, Generation I coal cooperation contracts with PT. Arutmin Indonesia, PT. Kaltim Prima Coal, PT. Adaro Indonesia, which in 2000 produced 74% of a total Indonesian coal production of 76.7 Mt. Ir. Achmad Prijono retired in 1989 as President-Director of Perum Timbang Batubara. At present he acts as consultant to state owned PT.Aneka.

Ir. Achmad Prijono is an honorary member of the Indonesian Mining Association

Simpruk Kav.W-41
Jakarta 12220
Indonesia

Tel: +62 21 7208714 / 7236849
Fax: +62 21 7208714

Carlos Puig

Ecuador

Exploration and Mining Geologist, Quito.

E-mail: ceminsa@uio.telconet.net

MICHAEL QUINN

Australia

Mick Quinn is a journalist with Louthean Media, publisher of Australia's *Paydirt* and *Gold Mining Journal*.

Louthean Media
Level 2, 6 Thelma St
PO Box 1589
West Perth
WA 6872
Australia

Tel: +61 8 9 321 0355
Fax: +61 8 9 321 0426
E-mail: mailbox@louthean.com.au

IAN ROBINSON

Chromite
Ferroalloys
Manganese

c/o Magnettype Secretarial Bureau
PO Box 1105
Cramerview 2060
Republic of South Africa

Tel: +27 (0)11 463 4064
Fax: +27 (0)11 463 1041
E-mail: rsvp@yebo.co.za

DR LUC ROMBOUITS

Diamonds

Terraconsult Oosterveldlaan 273
B-2640 Mortsel
BELGIUM

E-mail: rombouts@terraconsult.be
Web: www.terraconsult.be

HASSEIN M SABIR

Saudi Arabia

Hussein M. Sabir holds a Ph.D in geology and metallogeny from the University d'Orléans, France. He has been working with the Deputy Ministry of Mineral Resources (DMMR) since 1973, and is author of several publications on the mineral resources of Saudi Arabia. He is currently Director of the Publications and Publishing Centre of the Saudi Geological Survey in Jeddah.

Publications and Publishing Centre
Saudi Geological Survey
PO Box 54141
Jeddah 21514
SAUDI ARABIA

Fax: +966 2 619 9896

GEORGE SANDERS

Argentina

George Sanders is a consulting geologist who lived in Mendoza, Argentina from 1994 until his recent move to Bellingham, Washington. He worked for subsidiaries of Gold Fields PLC during the 1980s in Chile and Nevada, and was Exploration Manager for Canyon Resources in Argentina from 1993 to 1995. He received his education at the Colorado School of Mines and the University of Arizona.

Mr Sanders is a 25-yr member of both the Society of Mining Engineers and the American Association of Petroleum Geologists and also belongs to the Society of Economic Geologists. He recently wrote a paper entitled "Regional Geologic Setting of the Deseado Massif, Southern Patagonia, Argentina" which can be downloaded from http://www.rojasyasociados.com.ar/publi/Deseado_Massif_Aug_2000.zip.

Tel/Fax: +1 360 734 9973

E-Mail: gsanders@openaccess.org

NEIL SCOTT

Jordan
Libya
Sierra Leone
Sudan

Neil Scott has 30 years' experience of the exploration and evaluation of metalliferous, industrial mineral, and gemstone deposits and mines, most of which was gained with International Mining Consultants (IMC). He became an independent geological consultant in 2000.

He has great experience of due diligence studies, technical audits and feasibility studies - particularly for small and medium sized operations - as well as in mineral sector studies. He is particularly interested in promoting investment in the mining sector, and in identifying mineral investment opportunities and their potential for downstream value adding.

He has worked in Albania, Armenia, Bhutan, Brazil, Burkina Faso, Burundi, Canada, China, Colombia, France, Ghana, Greece, Ireland, Jordan, Kazakhstan, Liberia, Mozambique, New Zealand, Nigeria, Oman, Pakistan, Russia, Saudi Arabia, Sierra Leone, South Africa, Spain, Suriname, Tanzania, United Arab Emirates, UK, US, Venezuela and Zambia.

6 Dale Close
London SE3 9BB
UK

Tel: +44 (0)20 8852 6249

Fax: +44 (0)20 8318 9451

E-mail: neilscott@aol.com

MICHAEL SEAWARD

Costa Rica

Michael Seaward ARSM, BSc, CEng, FIMM, a professional geologist, formed Minconsult Internacional y Asociados, S.A. in San José, Costa Rica in 1997 to provide mine consulting services in the region. For over thirty five years prior to this he had been in a series of increasingly responsible executive positions with international mining companies. Most recently he was Executive Vice President for Minera Rayrock Inc., Toronto, with responsibility for all Latin American operations.

Minconsult Internacional y Asociados, S.A.
Apartado 710-2070
San José
Costa Rica

Tel: +50 6 235 7151
Fax: +50 6 235 3373
E-mail: mseaward@racsa.co.cr

G R SESHADRI

India

Mr Seshadri holds an M.A. in Economics, and was for over six years Editor of India's only weekly magazine on minerals and metals, the Calcutta-based *Eastern Metals Review*. He has been a regular contributor to *Mining Journal* since 1961.

Tel/Fax: +91 22 766 7489
E-mail: grs@bom8.vsnl.net.in

JOHN SHRIMPTON (MBE)

United Kingdom

Following War Service as RAF aircrew, John Shrimpton graduated from the Camborne School of Mines in 1950. He obtained a degree in Geology from the University of London the following year, and in 1975 the M.Sc in Rock Engineering from the Royal School of Mines, London. He worked on the Roan Antelope copper mine in Northern Rhodesia (now Zambia) in the early 1950s, after which he joined the staff of the Camborne School of Mines, and in 1984 retired as Head of the Mining Department. He has been *Mining Journal's* correspondent since the 1960s and the UK contributor to Mining Annual Review for 32 years. He was appointed MBE in 1984.

Mr G.J. Shrimpton
Trefewen
Pendarves Road
Camborne
Cornwall
TR14 7QF
UK

Tel: +44 (0)1209 714 402

CHARLES SKIDMORE

Zirconium and Hafnium

Charles Skidmore is chairman/managing director of Minchem Ltd. Minchem Ltd. was formed in August 2000 as a management buyout from Mandoval Limited and Zirconia Sales (UK) Ltd.

Mr Skidmore has been involved in zirconias and ceramics, refractories and minerals industries for over 30 years and was previously with Podmore & Sons Ltd, Stoke-on-Trent, UK. Before that he worked in paper, plastic, surface coatings and general chemicals, covering materials and capital equipment.

Mr Skidmore attended the University of Manchester Institute of Science and Technology in the UK, reading Physical Chemistry and holds membership of the Institute of Materials and the Royal Society of Chemistry.

He has written and presented articles on ZrO₂ and related areas for a number of years.

Minchem Ltd
The Old Pottery
4 Hillside Road
Aldershot
Hampshire
GU11 3NB
UK

CARLOS G. SOLDI

Peru

Carlos Soldi obtained his B.Sc in Civil Engineering in 1970 from the Catholic University of Peru, a B.Sc in Mining Engineering from University College Cardiff in 1972, and subsequently an M.Sc in Rock Mechanics and Excavation Engineering from Newcastle University.

He worked as a full-time lecturer at the Catholic University of Peru until 1994, where he held several positions (Head of the Mining Engineering Division and Head of the Engineering Department). Since 1997, he has been General Manager of Klohn Crippen-SVS, a Peruvian consultant firm specialising in geotechnical engineering and mine waste management.

Klohn Crippen-SVS
Grimaldo del Solar 875
Lima 18
Peru

Tel: +51 1 241-4077
Fax: +51 1 242-4065
E-mail: cgsoldi@attglobal.net
Website: www.klohn.com

THARCISSE SONGORE

Burundi

Over the past 13 years, Mr Songore has been involved in various studies related to developing a carbonatite-associated phosphate deposit at Matongo. With funds from the World Bank and The African Development Bank, the studies were carried out by international consulting firms or research institutions (including the Paris-based Louis Berger International, Alabama's International Fertilizer Development Center, and London's IMC Mackay & Schnellmann). Since 1998, Mr Songore has been participating in negotiations between the Government of Burundi and mining companies over nickel concessions.

Mr Songore gained a Licence in Geology & Mineralogy from the University of Louvain in 1982, and an M.Sc in Geochemistry from Leeds University in 1985.

He is currently Project Co-ordinator, Ministry of Energy and Mines, having previously been with the Ministry of Energy and Mines, Geological Survey Department as Deputy-Director (1988-1997), and Geological Survey Department's Geochemical Survey Division as a Junior Geologist (1986-1987).

Ministry of Energy and Mines
BP 745
Bujumbura
Burundi

Tel: +257 22 6793
Fax: +257 22 9624
E-mail: dggm@cbinf.com

JANE SPOONER

Potash

Jane Spooner trained as a geologist and has specialised in mineral market analysis for metal, industrial minerals, coal and uranium. She is a founding member and a Vice President with Micon International Ltd, which provides mineral industry consulting services from offices in Toronto (Canada) and Norwich (UK). Ms Spooner is Chairman of the Mineral Economics Society of the Canadian Institute of Mining, Metallurgy and Petroleum for 2001-2002.

Micon International Ltd
900-390 Bay Street
Toronto, Ontario
Canada M5H 2Y2

Tel: +1 416 362 5135
Fax: +1 416 362 5763
E-mail: mail@micon-international.com
Website: www.micon-international.com

WALTER G. STEBLEZ

Bosnia & Herzegovina
Macedonia

Croatia
Serbia & Montenegro
Slovenia

US Geological Survey
Minerals Information Office International
983 National Center
2201 Sunrise Valley Drive
Reston
VA 22092
US

Tel: +1 703 648 7743
Fax: +1 703 648 7737
E-mail: wsteblez@usgs.gov

MIKE STRUTHERS

Underground Mining

Australian Mining Consultants (UK) Ltd
Hampton Business Centre
7 Mount Mews
Hampton on Thames
Middx TW12 2SH
UK

Tel: +44 (0)20 8213 5881
Fax: +44 (0)20 8979 2187
E-mail: amclondon@dial.pipex.com

ANTHONY SWEENEY

Steel

Anthony Sweeney has worked in the steel industry and the raw material sector for a number of years. He is currently a senior consultant with Anderson & Schwab Inc. of New York.

Anderson & Schwab Inc.
444 Madison Avenue
New York
NY 10022-6903
US

Tel: +1 212 758 6800
Fax: +1 212 755 9576
E-mail: asweeney@snet.net

ARNOŠT SÝKORA

Czech Republic

Arnošt Sýkora attended the University of Economics in Prague. He is Head of Section for Non-Renewable Resources, for the Institute of Economic Research, Prague. Mr Sýkora has written two monographs on raw materials policy and utilisation of natural and secondary raw materials sources, together with approximately 50 articles on problems of primary and secondary raw materials sources.

Ing. Arnošt Sýkora
Pod Strání 16
100 00 Praha 10
Czech Republic

MANOUCHEHR TAKIN

Oil

Senior Petroleum Upstream Analyst, CGES London since 1990. Previously: Senior Research Officer OPEC Secretariat, Vienna; Acting Head, Exploration/Production Research, National Iranian Oil Company; Exploration Manager Ultramar; Non-Executive Board Member, Iranian Copper Industries Company; geologist, geophysicist, reservoir engineer with Amoco International, Iranian Oil Consortium, Charter Consolidated and Iranian Geological Survey.

Manchester, Cambridge and Columbia universities & IMI Tehran: B.Sc. Honours Geology, Ph.D. Geophysics, M.B.A.

Centre for Global Energy Studies
London, UK

Tel: +44 (0)20 7235 4334
Fax: +44 (0)20 7235 5038
E-mail: takin@cges.co.uk

HAROLD A. TAYLOR

Graphite

Harold Taylor is a consultant on business-related topics involving graphite, dimension stone and related industrial minerals. He has a BA from Brown University (Geology, Chemistry), and an MA from the University of Minnesota (Economics, Mining). A leading expert in his field, Mr Taylor is listed in Who's Who in America and Who's Who in Finance and Industry. He was Senior Commodity Specialist for graphite and dimension stone for the US Bureau of Mines from 1980 to 1995.

Mr Taylor has been President of Basics/Mines, his consulting group, since 1995. He has been Chair of the Subcommittee on Nomenclature, for ASTM Committee C18 on Dimension Stone since 1987; the author of the Graphite chapter in the Kirk-Othmer 'Chemical Encyclopaedia'; the 'Graphite Report' in the Financial Times' Executive Commodity Report series and; updates events in the Graphite Advocate News, available on www.basicmines.com/graphite.

PO Box 185
Summit Point
WV 25446
US

Tel/Fax: +1 304 725 6619
E-mail: bmhtayl@earthlink.net

CHRIS TERRIBLE

Copper

Mr Torrible is senior economist at Rio Tinto responsible for analysis of base metals. He has been with Rio Tinto since 1997. Previously he was with London-based Commodities Research Unit, where he was research manager for base metals.

E-mail: chris.torrible@riotinto.co.uk

PUI-KWAN TSE

China

United States Geological Survey

E-mail: ptse@usgs.gov

HEIKKI VARTIAINEN

Finland

Mr Vartiainen attended the University of Oulu, and in 1980 received a Doctorate of Science. He joined Rautaruukki Oy in 1966 and in 1981 held the post of senior geologist. After spending time with Lapin Malmi and Kemira Oy, Mr Vartiainen was appointed, in 1995, as Chief Inspector of Mines, for the Ministry of Trade and Industry, Finland.

Heikki Vartiainen
Ministry of Trade & Industry
Aleksanterinkatu 4
00170 Helsinki
Finland

Tel: +358 9 160 3727

Fax: +358 9 160 2644

ANTHONY WILLIAMSON

Papua New Guinea

Anthony Williamson was first employed by Newmont Australia after graduating in 1979 with a B. App. Sc. from the University of Technology Sydney. Mr Williamson completed a MSc degree part time at James Cook University while employed from 1982-86 by the Geological Survey of Papua New Guinea.

Subsequently, Anthony Williamson has been involved in mineral exploration and production throughout the Asian region until 1999 when he returned to Papua New Guinea in 2000 to take up the position of Director - Mining Division.

Department of Mining
Department of Mining
Private Mail Bag
Port Moresby Post Office
Papua New Guinea

Tel: +675 3227624
Fax: +675 3213701
E-mail: anthony_williamson@mineral.gov.pg

LESLIE WRIGHT

Guinea
Liberia
Sierra Leone

Dr Wright is Vice-President (Exploration) for Mano River Resources, and has managed exploration programmes in all the Mano River Union countries since 1994. He previously consulted for governmental organisations and mining and exploration companies in 14 developing countries world-wide. Dr Wright is a leading expert on the geology of Sierra Leone where, since 1980, he has been linked to the University in Freetown and has run exploration and targeting programmes for several companies.

Mano River Resources Inc.
Suite One, 12 Station Road
Didcot
Oxfordshire OX11 7LL
UK

Tel: +44 (0)1235 810 740
Fax: +44 (0)1235 810 733
E-mail: mano@btinternet.com

AUGUSTO PAULINO DE ALMEIDA NETO

Angola

Augusto Neto received a degree in Mining Engineering in 1986 from Angola's Agostinho Neto University. Following a refresher course in Mining Technology in 1988 at Lulea University in Sweden, he studied Economic Projects Analysis (1990, Iberconsult in Angola), Conceptions and Management Projects (1994, Iber in Angola), Applied Explosives Technology (1997, Nitro Nobel in London) and a management programme for high ranking directorate (1999, Portuguese Catholic University).

Mr Neto worked for various Angolan ministry departments between 1989 and 1995, and from 1995 was general manager of Endiama, and a member of the Board of Directors until 1999. Mr Neto is currently an independent advisor with Alemida & Associates.

Rua Sousa Coutinho n.87
DTO, Mutamba
Luanda
Angola

Tel: +244 2 39 96 23
Fax: +244 2 39 96 22
E-mail: paulino-ad@ebonet.net

GERMÁN DEL CORRAL

Colombia (co-author)

G. del Corral has a Ph.E degree from EPUL, Lausanne and a M.Phil in Process Engineering Metallurgy from Imperial College ,UK. He has held senior positions in the base metals industry, in particularly nickel, and is at present involved in project management.

LUIS JARAMILLO

Colombia (co-author)

L. Jaramillo, received a B.Sc degree in Geology from Colombian National University in Bogotá, and an M.Sc from New Mexico Tech in the US during 1971. He is a former Director General of INGEOMINAS, and taught at National University for 17 years. He is currently an independent consultant for mineral exploration and evaluation.

ALISON M. B. RUSSELL

Barytes
Vermiculite

Alison Russell is an independent consultant specialising in industrial minerals markets, applications and supply/demand analysis. Prior to forming her own consultancy, she edited Mineral Price Watch, an influential commodity pricing newsletter; headed up Industrial Minerals Research; and was Deputy Editor of Industrial Minerals magazine. She also worked as an analyst of business development opportunities for a major minerals trading and processing company.

Ms Russell now carries out individual market studies for clients, and writes articles, books and papers on trends within the industrial minerals industry. Her recent publications include 'Bauxite & Alumina; A guide to non-metallurgical markets' and 'The Inorganic Pigments Industry: A market review'.

Alison M. B. Russell
Buchanan Russell Associates
1, Meadowlands Close
Westhill, Aberdeenshire
AB32 6EF
UK

Tel: +44 (0)1224 741848
Fax: +44 (0)1224 749321
E-mail: alison.russell@which.net

KNUT L SANDVIK

Norway

Professor of Mineral Processing
Norwegian University of Science and Technology
N-777491
Trondheim
Norway

Fax: +47 359 0809 / 4912/0898
E mail: knut.sandvik@geo.ntnu.no

STEPHEN HARRIMAN

Soda Ash

Harriman Chemsult Ltd
45 Britton Street
London EC1M 5NA
UK

Tel: +44 (0)20 7490 5100
Fax: +44 (0)20 7490 3991
E-mail: stephen@harriman.co.uk

TONY WALL

Zinc

3 Monaveen Gardens
Molesey
Surrey, KT8 1SB
UK

Tel: +44 (0)20 7499 6636
Fax: +44 (0)20 7493 1555
E-mail: wall@zda.org

Dr P G Killeen

Geophysical Instrumentation and Services

PR#1
Ompah
Ontario
Canada K0H 2J0

WONDEMAGEGNEHU GEBRE-SELASSIE

Ethiopia

Mr Gebre-Selassie graduated from the Law Faculty of Addis Ababa University in 1985 with an LLB degree. After graduation he joined the Ministry of Mines and Energy, and in September 1990 he went to the UK to study Natural Resources Law at the Centre for Petroleum and Mineral Law and Policy at the University of Dundee in Scotland, acquiring LLM in resources law.

Returning to Ethiopia in 1992, he continued to work at the Ministry of Mines and Energy where he became head of the Legal Service and later head of the Mineral Operation Department. Mr Gebre-Selassie has been actively involved in formulating, drafting and later implementing the mining laws of the country. He left the Ministry in August 1996 and joined JCI (Ethiopia) plc (a subsidiary company of JCI Ltd of South Africa), where he was Legal and Administration Manager until end-June 1999.

Mr Gebre-Selassie is a part time lecturer in Natural Resources Law at the Faculty of Law of Addis Ababa University, and is practising law in Addis Ababa.

PO Box 4323
Addis Ababa
Ethiopia

Tel: +251 1 62 67 66
Fax: +251 1 60 01 38
E-mail: wgselassie@telecom.net.et

PETER L. HUXTABLE

Fluorspar

Peter Huxtable (MA (Cantab), CEng, FIMM) is an independent consultant. He has over 30 years experience in the mining and minerals industry – 13 years with Anglo-American on the Zambian Copperbelt, and with Laporte at its fluorspar and barytes operations in the UK where he was Managing Director for five years until end 1999. He is Director of The Barytes Association, Vice President of the IMM (Institution of Mining and Metallurgy) and a Director of both MAUK (Mining Association of the UK) and MIRO (Mineral Industry Research Organisation). Until January he was President of the fluorspar sector group within Cefic in Brussels. In March 2000 he authored the Financial Times executive commodity report on fluorspar.

Tel/Fax: +44 (0)1433 639 879

E-Mail: peter_l_huxtable@msn.com

STEPHEN R. JOHNSTON

Aluminium

Stephen R. Johnston is Senior Industry Analyst at Alcan Inc. (formerly Alcan Aluminium Ltd), where he has been employed for 24 years. The first 16 were in M.I.S., principally as project manager, with responsibility for projects in Ireland, the UK, the US, Bermuda and Jamaica as well as in Canada. For the past eight years he has worked in the Industry Analysis department. Mr Johnston has an Honours B.Sc. in computer science and mathematics from the University of Toronto and an MBA in international business and finance from McGill University in Montreal. He is also a C.M.A. and has been a member of the Mineral Economics and Management Society for several years. He has represented Alcan on a US Aluminum Association task force and a National Resources Canada committee. He has made presentations to different groups of visiting officials and was a speaker at the Metal Markets Asia conference in Singapore.

TOM MILLENSIFER

Rhenium

Powmet Inc.
2625 Sewell Street
PO Box 5086
Rockford
Illinois 61125
US

Tel: +1 815 398 6900

Fax: +1 815 398 6907

E-mail: tam@powmet.com