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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.

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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.

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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.

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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.

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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).

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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.

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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.

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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.

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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 gemmolgist'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 ".

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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

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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.

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