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Iran

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

Dr. Parwaresh worked first as a mineral economist and mine-inspector at the Ministry of Industries and Mine of Iran. He was then employed as exploration and mine manager on several mining projects and as a 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 the Islamic Azad University in Tehran and also provides senior consulting to the mining industry.

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

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Artemio F. Disini

Philippines

Artemio F. Disini is President and Chief Operating Officer of Lepanto Consolidated Mining Co. 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 also instrumental in a major mineral discovery, the 650 Mt Far South East copper deposit which is 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 Corp.; President of Diamond Drilling Corp. 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, and supported the struggle to legally protect the constitutionality of the 1995 Philippine Mining Act. 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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Alan Heap is the global commodity analyst at Salomon Smith Barney. He is responsible for preparing market forecasts for a range of commodities, as well as detailed industry studies.

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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 duty. 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 dealing with Environmental issues as they relate to mining.

On August 1, 2002, Mr Aboagye was appointed the the Director of Planning and Policy Analysis of the Minerals Commission. His duties include: initiation of strategies, policies, programmes and projects for the formulation of mineral policy, including prioritisation of projects; promotion of exploration, exploitation and national development of the mining industry; receiving, processing, adjudicating, monitoring and recommending government approvals, renewals, and cancellation of mineral licences; and preparation and review of promotional brochures aimed at attracting investment into the mining industry.

Mr Aboagye has, in addition to his academic qualifications, attended shortcourses in the areas of mining and the environment worldwide.

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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 concerning problems of primary and secondary raw materials sources.

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Bartolomej Baláz completed his geological studies at the Mining Faculty of the Technical University in Kosice in 1980. Since that time he has lectured and, in past years, has been Senior lecturer at his alma mater. In 1992 he obtained a Ph.D. in geology.

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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 an M.Sc. 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.

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Brian M Coope

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Brian Coope graduated in industrial metallurgy from the University of Birmingham in 1968, and then joined the Aero Engine Division of Rolls-Royce where he gained early experience as a metallurgist and completed courses in business management at the Cranfield School of Management.

In 1970 he joined Metal Bulletin on the staff of the then newly-launched publication Industrial Minerals and played a central role in its development, becoming Deputy Editor in 1973 and Editor in 1977. During his thirteen years with Industrial Minerals he prepared detailed studies on virtually the whole range of nonmetallic minerals as well as writing books on glass and refractory raw materials, editing directories and conference volumes, and organising international conferences.

In 1983 he left Metal Bulletin to set up a consultancy specialising in the commercialisation of industrial minerals and has subsequently undertaken detailed studies on European and world markets for silica sand, quartz, silicon carbide, diatomite, barytes, bentonite, fluorspar, wollastonite, iron oxides, perlite, vermiculite, gypsum, talc, slate, borates, lithium, strontium, potash, feldspar, kaolin and ceramic clays, calcium carbonate, limestone, lime, dolomite, magnesite/magnesia/magnesium metal, titanium and zirconium minerals, rare earths, gallium and germanium, niobium and tantalum, filler/extender minerals, minerals for agriculture, aggregates and construction raw materials, refractories and refractory raw materials, glass and glass raw materials, and ceramic whitewares and ceramic raw materials. Clients have included major mining companies, exploration companies, financial institutions, and government departments.

In recent years he has been particularly active on mining and minerals projects in both Western and Eastern Europe, the Middle East, Asia, Australia, and South America - primarily for clients in Europe, Australia, and the US. The scope of work on these projects has included analyses of current and future markets incorporating detailed data on production, trade, consumption, prices, grades and specifications, processing methods, processing and transportation costs, industry structure, company analysis (competitors, consumers), supply/demand analysis and forecasts, and developing specific marketing strategies.

Brian Coope is a Chartered Engineer and member of the Institution of Mining and Metallurgy; the Institute of Materials; the Minerals Engineering Society; and the Association of Mining Analysts.

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Bob Foster

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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 worldwide 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 personal subscribers and 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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Gavin J. Bowyer

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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, the UK, Uruguay, the US, Zambia and Zimbabwe.

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Bram Janse has worked in the diamond exploration industry for more than 40 years. He is currently an independent consultant and manages his own consultancy company, Archon Exploration, based in Perth.

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Geoffrey V. Blackburn

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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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Celso Pinto Ferraz

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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 and 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 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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Robert Brown

Magnesium

Robert E. (Bob) Brown was born in the 'copper country' of northern Michigan and educated in local schools. He received a B.Sc. 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 aluminum 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's 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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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).

Between 1997 and 2001, he was General Manager of Klohn Crippen-SVS, and from 2001 to date, he has been General Manager of SVS Ingenieros S.A. a Peruvian consultant firm specialising in geotechnical engineering and mine waste management.

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Christopher Cavey

Other 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 intaglios, and in symbolical, ritualistic, and emblematic jewellery.

In 1977 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 role in the total rewriting of the gemmology correspondence course (leading to F.G.A., qualification). He became

a consultant to the Mining Journal as Correspondent on gemstones (excluding diamond) in 1978, and a few years later started writing the 'Gemstones' report in the Mining Annual Review for the Mining Journal.

Christopher Cavey was elected Curator of the Gemmological Association collections in 1985, a position previously held by four very distinguished gemmologists, which included Sir James Walton, Surgeon, to H.M. Queen Mary, 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 longstanding 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 was also 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

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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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A Consultant Geologist, David Knopf spent seven years as a field geologist in the Côte d'Ivoire, acquired an 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 Niger article, he was assisted by Zara Soumana, in Niamey. For the Chad article, he was assisted by Mahamat Saleh Ahmat, Director at DMG in N'Djamena. For the Cameroon article he was assisted by Paul Ntep Gweth, Chief Engineer at DMG, Yaounde, Cameroon.

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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, natural graphite and soda ash. Additionally, he co-ordinates the collection of data for the entire series of Roskill reports.

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Charles Skidmore

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Charles Skidmore is Chairman/Managing Director of Minchem Ltd. Minchem was formed in August 2000 as a management buyout from Mandoval Limited and Zirconia Sales (UK) Ltd, wholly owned subsidiaries of Rio Tinto Plc.

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.

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

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

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Don Downing is Vice President, Management Consulting at Norwest Mine Services Ltd. in Calgary, Alberta. A geologist, Mr. Downing has over 30 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.

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Dr Kevin Leahy

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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 à 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 authored numerous publications, and has presented at several conferences including the International Kimberlite Conference and the African Mining Indaba.

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