

Meet the Authors



James E. Barton graduated from Clemson College with a BS degree in ceramic engineering. He began his career with the Technical Ceramic Products Division of 3M, completing 20 years of service in a variety of positions in plants at Chattanooga, Tennessee, and Laurens, South Carolina. In the remainder of his career, he held positions in the sale and marketing of industrial minerals with

Lithium Corporation of America, Spartan Minerals Corporation, Kings Mountain Group, Zemex Corporation, Georgia Industrial Minerals Inc., Pacer Corporation, and EarthRes Group. His work concentrated on mica, feldspar, clay, silica, and vermiculite, with emphasis on mica. He now consults part-time.



Hartmut Beurlen is a professor at the Federal University of Pernambuco (UFPE), Brazil, where he teaches courses in metallogeny, ore microscopy, and fluid inclusions. He completed his BSc in geology (1965) at the UFPE and Dr. Rer. Nat. (1973) in ore deposits at the University of Heidelberg, Germany. From 1966 to 1974, he worked as a geologist in the Development Agency of Northeast Brazil

(SUDENE), carrying out geological mapping, mineral exploration, and ore geology studies. He has conducted research on deposits of stratabound lead–zinc, iron–titanium in mafic rocks, gold, and skarn-hosted tungsten. Since 2000, he has focused on ore-related fluid inclusions and mineralization in pegmatites.



Petr Černý, professor emeritus in the Department of Geological Sciences, University of Manitoba, came to Winnipeg in 1968 from Czechoslovakia as a postdoctoral fellow. Initially a purebred mineralogist, he broadened his interests into the fields of the internal evolution of pegmatite bodies, the regional relationships of granite–pegmatite populations, and pegmatite petrogenesis. These studies

led him to descriptive and genetic classifications of granitic pegmatites and their implications for the economic aspects of pegmatite petrology, prospecting, and exploration. Nevertheless, Černý has remained faithful throughout his career to the mineralogy of rare alkalis, Be, Sn, Ti, Nb, Ta, and the feldspars and micas.



Alexander S. Glover, professional geologist, is the director of mining and mineral resources for Active Minerals International. He received a BS degree in geology from the University of Georgia in 1979. He has been an industrial minerals geologist for over 30 years. Glover was formerly chief geologist for Zemex Industrial Minerals Corporation, which was a major producer of industrial minerals from

pegmatites in North Carolina and Georgia (USA). He has also prospected around the world for industrial minerals deposits in pegmatites.



Daniel J. Kontak received degrees from the University of Alberta (MSc) and Queen's University (PhD). He is currently a professor of ore deposit geology at Laurentian University, following 20 years examining ore deposits in Nova Scotia. His research integrates field and laboratory studies on ore systems formed at the magmatic to hydrothermal transition. These studies involve Au,

Sn–W, and rare-metal deposits, as well as evolved and complex albite–spodumene pegmatites. He is a former president of the Mineralogical Association of Canada and fondly remembers discussions of the idea, proposed by Rod Ewing, that gave birth to a new magazine, *Elements*.



Robert L. Linnen is an associate professor and the Robert Hodder Chair in Economic Geology at the University of Western Ontario, Canada. He is the director of Resource Geoscience Western. His research combines field and experimental studies of rare-element and precious-metal deposits, with a focus on evaluating the relative importance of magmatic and hydrothermal processes in the control of mineralization. His field research includes studies of the structure, mineralogy, and geochemistry of LCT and albite–spodumene pegmatites, syenite-hosted gold deposits, and PGE mineralization in mafic intrusions. He conducts experimental investigations on the solubilities of rare-element minerals and precious metals in silicate melts.



David London is the Stubbeman-Drace Presidential Professor, the Norman R. Gelpman Professor of Geology, and the director of the electron microprobe laboratory at the University of Oklahoma. He manages the Pegmatite Interest Group, hosted by the Mineralogical Society of America. London received a BA (1975) in geology from Wesleyan University (Connecticut) and MS and PhD degrees

(1979, 1981) from Arizona State University. He is the author of *Pegmatites* (Canadian Mineralogist Special Publication 10, 2008) and the namesake of londonite, isometric $\text{CsBe}_4\text{Al}_4[\text{B}_{11}\text{Be}]\text{O}_{28}$ (Canadian Mineralogist 39, 2001). His research entails field, laboratory, and experimental studies of minerals and melts, with applications to granites and pegmatites.



George B. Morgan VI is a research scientist in the electron microprobe laboratory and an adjunct professor in the School of Geology and Geophysics at the University of Oklahoma. He arrived there in 1992 following postdoctoral study of high-pressure fluids and fluid inclusions in the Laser Raman Spectroscopy Laboratory, Department of Earth and Planetary Sciences, Washington University (St.

Louis, Missouri). He has a broad background in the experimental petrology of granite systems, centering on the effects of thermal history and liquid composition on crystallization behavior, elemental diffusion in granitic liquids, and mitigating alkali migration during microprobe analysis of hydrous granitic glasses.



Milan Novák is a professor of mineralogy at the Masaryk University, Brno (Czech Republic). Prior to joining the university in 1999, he worked, from 1978, as a curator of minerals at the Moravian Museum, Brno. He received a PhD from Charles University, Prague, in 1988, and in 1991–1993 he was a postdoctoral fellow with Professor Petr Černý at the University of Manitoba, Winnipeg. His areas

of interest include the mineralogy, petrology, and geochemistry of granitic pegmatites and the crystal chemistry of minerals as a tool for understanding their origin. Novák is also chairman of the IMA subcommittee on tourmaline nomenclature.



Federico Pezzotta has been the curator of mineralogy at the Natural History Museum in Milan (Italy) since 1998. He received a PhD (1994) in petrology and geochemistry from the University of Milan and the CNR of Pisa. His research interests are in the petrology and mineralogy of gemstone-bearing pegmatites and the petrogenesis of gemstone deposits. He has over 25 years of experience

in pegmatite mining on Elba Island (Italy) and over 15 years of experience in gemstone prospecting and mining in localities in Africa and Madagascar. In 2003 he was honored with the IMA-approved new mineral (and new gemstone) pezzottaite.



William Z. (Bill) Rogers has over 35 years of experience in the production and sale of raw materials from pegmatites with The Feldspar Corporation and Zemex Industrial Minerals, Inc., where he specializes in ceramics and glass applications. He holds a bachelor of science degree in business administration from the University of North Carolina–Chapel Hill and an MBA from the University of Georgia. He is a member of the American Ceramic Society, the American Concrete Institute, and the Industrial Minerals Association–North America. He is currently general manager of sales, ceramics, and construction for NYCO Minerals, Inc., Willsboro, New York.



William B. (Skip) Simmons is a professor of mineralogy, a University Research Professor, and the chair of the Department of Earth and Environmental Sciences, University of New Orleans, Louisiana. He has investigated pegmatites from numerous worldwide locations, with a particular focus on the chemistry, occurrence, and origin of gem-quality crystals. He is the director of UNO's Mineralogy, Petrology, and Pegmatology (MP²) Research Group, the director of the annual Maine Pegmatite Workshop, and the coauthor of the book *Pegmatology*. Simmons received degrees from Duke University (BS, 1966), the University of Georgia (MS, 1968), and the University of Michigan (PhD, 1973). The mineral simmonsite is named in his honor.



James E. Shigley is a Distinguished Research Fellow at the Gemological Institute of America in Carlsbad, California. Prior to joining GIA in 1982, he studied geology as an undergraduate at the University of California, Berkeley, and later received his doctorate in geology from Stanford University. He helps direct GIA's research activities on the identification of diamonds and colored gemstones and has an ongoing research interest in the environments of gem mineral formation in pegmatites and other host rocks.



Marieke Van Lichtervelde is a research scientist at the Institute for Research and Development in Toulouse, France. Since her PhD on tantalum mineralization in the Tanco pegmatite, she has been investigating the processes of rare-metal enrichment in granitic melts through experimental and field studies. Her research includes the petrology and geochemistry of tantalum deposits in Africa and the experimental investigation of rare-metal behavior in pegmatite-forming melts.

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