

SME announces the Young Leaders for 2004

SME is pleased to announce the new Young Leaders Committee (YLC) members for 2004. The objective of the Young Leaders Program is twofold:

- To target and recognize the young leaders of SME and to increase their involvement in the society, and
- To use the Young Leaders Program as a tool to add value to SME membership through professional development programs for the society

Christina Bakavelou

Christina Bakavelou holds a B.S. in mining engineering from the National Technical University of Greece (1997) and a masters degree in mineral economics from Columbia University (1999). She has been the senior buyer and con-

tract administrator at the Henderson operations of Phelps Dodge in Empire, CO. She recently accepted a promotion to the position of commodity manager in Phoenix, AZ. There, she will be responsible for managing all outside services for

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SME has created this program to help equip young professionals with the tools they need for success. The future of SME depends on the development of qualified, capable individuals who have the vision and dedication to lead the society into the next century. For more information about the Young Leaders Committee, please visit www.smenet.org/SCRD/SCRDInfo.cfm?BUID=141 or contact Sharon Schwartz, phone 800-763-3132x 208 or e-mail schwartz@smenet.org.



BAKAVELOU

Phelps Dodge's North American Operations. Bakavelou is the 2004 co-chair of the YLC's marketing subcommittee.

Genevieve Bodnar

Genevieve Bodnar graduated with a B.S. in mining engineering from the University of Missouri-Rolla (UMR). She was active in UMR's SME student chapter and was responsible for the chapter

receiving the GEM Award in 2001. She also participated in the International Intercollegiate Mining Competition with the chapter. She is committed to educating the public and developing technologies in

the field of mining. She has served as an engineer in training with Lafarge North American in St. Charles, MO. Currently Bodnar is program chair for the SME Local Section in St. Louis, MO.

Greg Girardey

Greg Girardey earned a B.S. in mechanical engineering from Western New England College, Springfield, MA, in 1990. His first position was as a design engineer with FMC's Material Handling Division in Tupelo, MS working with bucket elevators and screw conveyors. He then joined Continental Conveyor in Winfield, AL as a project engineer. There, he worked on underground conveyor systems and performed research and development activities. He earned an M.B.A. from the University of Alabama in 1995. He then joined Rockwell Dodge in Greenville, SC as a industry engineer, mining and aggre-



GIRARDEY

gates. His primary focus was on application engineering with bearings, couplings and drives. He also provided technical sales support. Girardey joined Long-Airdox as operations manager of conveyor systems in 1999. His first challenge was to improve the company's reputation in conveyor engineering, sales and service. When the company became DBT America in 2002, he was promoted to vice president, belt systems. He

gates. His primary focus was on application engineering with bearings, couplings and drives. He also provided technical sales support. Girardey joined Long-

presently leads this business unit with a focus on sales, marketing and profitable growth.

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Shaun Graber



GRABER

president and treasurer. He was

Shaun Graber graduated from the University of Arizona in 1999 with a B.S. in mining engineering. As a member of the SME student chapter, he held offices as

also involved with the Tucson section of SME as a student representative. Throughout college, he had several internships with openpit and underground metal mines. After college, he worked for Asarco Tennessee, mines division, as an underground mining engineer and foreman. While in Tennessee, he helped re-establish the East Tennessee Section of SME and served

as chair. When the mines went on standby, he moved to Frontier Kemper Constructors as a project engineer on multiple-shaft and slope jobs throughout Kentucky and St. Louis. Currently, he is with McIntosh Engineering in Tempe, AZ as an intermediate mining engineer specializing in underground, hard-rock mine design and engineering.

Daniel Hack



HACK

of the Pacific Northwest-based consulting firm Halstead Geo-Nu-

Daniel Hack earned a B.S. degree in mineral engineering, mining-engineering option, from the New Mexico Institute of Mining and Technology. He is the founder

meric. Since 1996, he has been a consultant to sand and gravel producers and concrete companies throughout the region. He specializes in site development, federal- and tribal-regulatory issues and aggregate-resource characterization. His company also develops custom software for sand- and gravel-mining applications.

Hack's research on geostatistical and spatial data character-

ization of sand and gravel deposits will be the subject of a chapter in an upcoming United States Geological Survey Bulletin, *Contributions in Industrial Minerals Research*. He won the Mining and Exploration Division's Robert Peele Memorial Award in 2003 and is a chapter author for the seventh edition of SME's *Industrial Minerals and Rocks*. Hack has also been active in APCOM symposia since 1999.

Stephen Kan



KAN

Polytechnic Institute and State University in 1995. Upon complet-

Stephen W. Kan received his B.S. degree in minerals engineering from University of California, Berkeley in 1992. He obtained his M.S. from Virginia

ing his doctoral degree in mining engineering at University of Missouri-Rolla in 2000, Kan joined Weir International Mining Consultants (WIMC) as an assistant mining engineer. Kan was promoted to mining engineer in 2002. Since joining WIMC, Kan has worked on various projects including due-diligence investigation, surface and underground mine planning, the geological and operational assess-

ment of mining operations, the valuation of mine assets, and production and productivity analyses of longwall operations. Kan has also worked extensively in the synthetic-fuel industry. His experience includes operational and production assessments, due diligence on synthetic-fuel facilities and the relocation of facilities across the country. Kan is a registered professional engineer in Illinois.

Mehul Mohanka



MOHANKA

Mehul Mohanka has a bachelor of commerce degree from the Calcutta University and a diploma in industrial psychology from the Indian School of

Labor Education. He received an M.B.A. from the Katz School of Business at the University of Pittsburgh. Mohanka has served as the executive director and president of Tega Industries in India and in the United States. He is responsible for corporate planning, finance, human resources and investments in

emerging markets. As the head of U.S. operations, he is responsible for the overall profitability and growth of the business in the United States, Canada and Mexico. As a director on the board of Tega Industries, he supervises more than 50 people around the world.

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Christopher Pascoe



PASCOE

Christopher Pascoe graduated from the Michigan Technological University with a B.S. in mining engineering. While at Michi-

gan Tech, he served as SME student chapter president, chair of the Mining Team Committee and president of the Geology Club. In 2003, he served as the M&E Division underground mining publications review chair. As treasurer and secretary of the Western Underground Mining Association,

Pascoe led the revitalization of that organization. Pascoe is a mine engineer for Newmont Mining in Carlin, NV. There, he managed the implementation of a new underground dispatch system at three mine sites. He has been dedicated to the development of the industry and to SME.

Jayson Ripke



RIPKE

Jayson Ripke is currently the pelletizer process control engineer for Cleveland-Cliffs Northshore Mining. Ripke is responsible for pellet quality, process optimization and process control. He is also the Northshore representative for a cost-saving alternative fuels

project. He has been an SME member since 1994. Ripke has written more than 35 technical papers in the areas of water chemistry in pelletizing, the bentonite fiber-bonding mechanism, the BEST test for evaluating pellet binders and fly-ash based binders. He now applies the methods to plant-scale operations. He is currently working to improve costs, pellet quality and filter-production rates. Ripke has served as chair of the Metallurgi-

cal Processing Unit Committee and the Pyrometallurgical Processing Unit Committee. He has also chaired technical sessions at SME annual meetings and at local section meetings. Ripke graduated from Michigan Technological University with a Ph.D. in chemical engineering and M.S. and B.S. (cum laude) degrees in metallurgical and materials engineering. Ripke received the 2003 MPD Outstanding Young Engineer Award.

T. Quinn Rousel



ROUSSEL

T. Quinn Rousel is the senior financial analyst for Asian American Coal (AACI). He currently works on project valuation and funding through financing

and fundraising activities for AACI's operations in China. He received an M.B.A. from the Moore School of Business at the University of South Carolina and an international M.B.A. from the Wirtschafts-Universität, Vienna, with an emphasis in international business and finance. He holds a B.S. in mining engineering from

the Colorado School of Mines (CSM). At CSM, he was a recipient of the Old Timer's Award and secretary of the SME student chapter. Prior to returning to graduate school, he worked as a short-term planner for the Cripple Creek & Victor Gold Mine and was as a field engineer for OSCA in the Gulf of Mexico.

Amy Semratedu

For the past 10 years, Amy Semratedu has organized many GEM



SEMRATEDU

projects for the Georgia Section of SME. She has made rock kits for attendees at National Science Teacher Association meetings, spoken at local schools, led field

trips for all ages to various mine sites and built a mineral cube, classroom science center. Semratedu was instrumental in creating the Eton Elementary School Talking Rock Nature Trail. The trail is one-quarter mile long with fossils and boulder-sized mineral specimens along the trail. Each mineral specimen has a large sign and solar powered recorded message about the mineral's geology and its impor-

tance in mining. To aid the teachers, She created a slide presentation about the trail, the minerals and mining. She won the SME Individual GEM award in 2003.

Semratedu received a bachelor's degree in geology in 1992 from Georgia Southern University. She is currently the technical services manager for Global Stone Filler Products.

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JKMRC receives grant to develop use of high-pressure grinding rolls

A Brisbane-based minerals industry research group has been awarded an AUD \$150,000 research grant by Queensland's Environment Minister, John Mickel. The University of Queensland's Julius Kruttschnitt Mineral Research Center (JKMRC) was one of eight groups that received funding from round six of the Environmental Protection Agency's Queensland Sustainable Energy Innovation Fund.

J.P. Franzidis, professor and mineral-processing research manager at JKMRC, said that the funds will help secure the use of high-pressure grinding rolls (HPGR) for trial in Queensland's minerals sector. The HPGR are already used in cement manufacturing and in the diamond-extraction industry. The broader scale use of HPGR for metalliferous minerals has only recently been considered. Preliminary research in this area is being conducted by JKMRC researcher Mike Daniel.

HPGR have a number of potential benefits, both economic and environmental. The HPGR need less water for processing minerals because it is a dry-processing device. Process energy requirements

are lower because the HPGR are more energy efficient than conventional mills in some applications. And substantial waste reduction in mining is accomplished through a process of enhanced liberation obtained with the HPGR that target and extract minerals in an ore-body more efficiently.

According to Franzidis, access to water is a critical issue for many mining operations in Australia, particularly in Queensland. "Any new technology that potentially reduces the requirements for water and power to process ore would be a welcome inclusion at the processing plant."

The HPGR have yet to be proven in production as an appropriate alternative for large base- and precious-metal mining operations in Queensland and elsewhere around Australia. One challenge is to see how useful the HPGR will be when called upon to treat harder ore with lower

grade from new orebodies. "To make the change from existing milling equipment, such as semi-autogenous and ball mills, to high-pressure grinding rolls would also require major refits and major expense," Franzidis said.

The JKMRC team will try to demonstrate the benefits of the HPGR by acquiring, with EPA funding, a pilot-scale version of the device and by running trials at various mine sites around Queensland. ■



Those who gathered for the awards presentation included (l-r) Mike Daniel, AMIRA international business manager David Stribley, John Mikel and JKMRC P9 researcher Emmy Manlapig.

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Anthony Staley

Anthony K. M. Staley graduated from the Colorado School of Mines (CSM) in 1997 with a B.S. in chemical and petroleum-refining engineering and a minor in business management and economics. He worked as a process engineer in the semiconductor industry until he returned to CSM for graduate studies. He received a masters degree in economics and business and a Ph.D. in metallurgy and materials engineering. During his graduate studies, he worked for the CSM

Environmental Health and Safety Department where he was OSHA certified in hazardous-waste operations and emergency response. In 2002, he joined Newmont Mining's Technical Services team at the Malozemoff Technical Facility as a senior metallurgist. His work for Newmont includes technical support for processing facilities and metallurgical testing for the process development of new orebodies. He has served as a director and secretary for SME's Colorado Local

Section and is currently the vice chair. He has published several papers on topics ranging from electrochemical processing to mathematical sampling theory protocol. He is active in TMS, the American Chemical Society and the Minerals and Metallurgical Society of America. ■



STALEY