Society for Mining, Metallurgy & Exploration

SOUTHERN NEVADA SECTION

A Special Thank You to Our Sponsor of the Open Bar:

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NEXT MEETING: September 28, 2016

"A Comparison Between the Automated Filter Press (AFP) and Counter Current Decantation (CCD) for Solution Recovery from Acid Leach Tailings"

PRESENTER: Kent J. McGrew, P.E., Tons Per Hour, Inc.

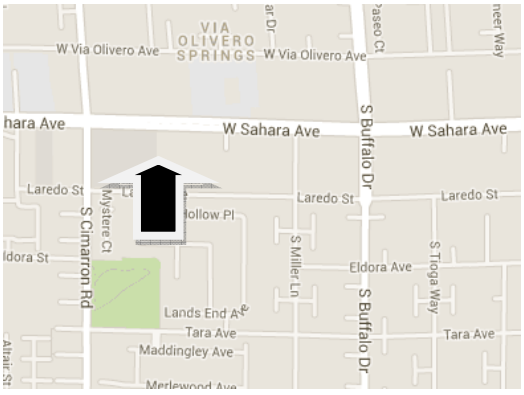
RSVP to one of the following no later than September 23, 2016. Provide Full Name, Company/Title

James Marriott	Chairman	(702) 891.0026 Ext. 109 JMarriott@ventureengr.com,
Marianne Springer	Vice Chairman	(702) 373-4872 (cell) mspringer@carollo.com,
Tim Myers	Treasurer	(813) 230-2557 (cell) tmyers@hychem.com

Dinner is $30.00 for members and $15.00 for students

Time:	**6:00 pm**	Social Hour
	6:45 pm	Dinner
	7:30 pm	Presentation

LOCATION OF MEETING : MARIE CALLENDER'S @ 8175 W. SAHARA AVE., LAS VEGAS



Abstract:

Comparisons of capital and operating costs are made between two copper leaching operations: Minera Rio Tinto, a copper mine in northern Mexico using Automated Filter Press (AFP), and CS Mining, a copper leach operation in Utah using Counter Current Decantation (CCD). Our study indicates there are significant capital cost savings with the AFP installation: Cost for stainless steel tanks alone in the CCD circuit add 38% more cost compared to the AFP installation; total capital cost is 2.3 times greater for the CCD; and operating expense for the CCD circuit is approximately $2.00 per ton of ore greater due to the additional required flocculent.

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Kent McGrew

EXPERIENCE SUMMARY

Mr. McGrew is an expert metallurgical engineer with over 40 years of experience worldwide, serving the mining and mineral processing industry. His expertise includes metals recovery and ion exchange process development and design. He has engineered full-scale and pilot-scale recovery systems for various metals, including gold, uranium, radium, aluminum, copper, zinc, tungsten, vanadium and mercury, as well as non-metallic's including ammonium nitrate and phenols. He has national and international experience in mine operations and mineral processing facilities construction and operations.

EDUCATION

M.S./Mineral Dressing Engineering/ Montana Tech/ 1974

B.S./ Mineral Dressing Engineering/ Montana Tech/ 1968

US Army Engineering OCS / Fort Belvoir, VA / Commissioned Dec, 1969 2nd Lieutenant/ US Military Certified Master Blaster / Engineering Staff Officer and Combat Engineer MOS.

PROFESSIONAL REGISTRATIONS/ CERTIFICATIONS

Professional Engineer -Metallurgical Engineering/ AZ 26146

Professional Engineer -Metallurgical Engineering/ CA - 1742

PROFESSIONAL AFFILIATIONS

Society for Mining, Metallurgy, and Exploration, Inc.

Chairman of Fourth Western Regional Conference on Precious Metals and the Environment, Sept. 1990

Past Chairman of the Black Hills Section, SME

Associate, Minerals Advisory Group, LLC

PUBLICATIONS

"Selenium Reduction via Conventional Water Treatment", Kent J. McGrew, Dr. Jack Murphy, Doug Williams

"Industrial Wastewater Treatment Methodology", in publication, Kent J. McGrew

REPRESENTATIVE EXPERIENCE

Westmont Gold, Jefferson, South Carolina. Developed the process for the removal of selenium from the Brewer Pit water. Mobilized and operated pilot plant for stabilization of selenium bearing sludge from the original water treatment plant, design and procurement of a 1,000 gpm water treatment plant and consulting services for neutralization of the leach heaps. Pilot plant was later refurbished and sold to Unical for precipitation of seleno-cyanate from sour waters at their Rodeo, California refinery.

Berkely Pit, Butte Montana. Design and construction of a 1,000 gallon batch treatment plant for all of the reject waters from the Berkeley Pit New Technology Treatment Demonstration Program. Designed and constructed this plant in the Congress, Arizona facility and transported and installed as contracted. Reagent supply and instrumentation support continued throughout the life of this project.

Newmont Gold Quarry, Carlin Nevada. Design consulting, construction and operation of a 50 gpm co-precipitation plant using ferric hydroxide precipitation for removal of arsenic and selenium. Consulted on modifications to a plant and operated the last stages of the development work to finalize design criteria for Cominco Engineering for the construction of a 25,000 gpm treatment facility for a pit dewatering project.

Rawlins Incinerator Plant, Dear Park, Texas. Design and construction of a 10 gpm pilot plant for selenium and antimony removal. This project encompassed laboratory development for the process used by Rawlins and the design criteria for the pilot plant. The plant was constructed in the Congress, Arizona lab and pilot plant facility and transported, installed and operated for the client.