

CENTER FOR RESOURCE RECOVERY AND RECYCLING

Graduate Seminar Lecture Series

Recycling Metal-Rich Industrial Byproducts



Paul Queneau
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Paul Queneau earned his BS in Metallurgical Engineering at Cornell in 1964, and his PhD in Metallurgical Engineering at the University of Minnesota in 1967. For 40 years he has developed extractive processes for primary and secondary feedstocks, participated in plant start-ups and plant operations to maximize output, yield, and product quality.

He began his career at the Kennecott Copper Research Laboratory in Salt Lake City, followed by 10 years at AMAX Research and 14 years at Hazen Research. His current firm, The Bear Group in Golden, (1997 to date), focuses on pyrometallurgy and hydrometallurgy for the extraction and recycling of primary and secondary raw materials, resource location, and product marketing.

Dr. Queneau is Cornell Tau Beta Pi, a Colorado registered Professional Engineer, past president of the Denver AIME Chapter, an AIME-TMS Extraction & Processing Distinguished Lecturer, a Recycling Short Course Organizer (TMS, CIM, CSM, and U.S. EPA), and an adjunct professor at the Colorado School of Mines. He has authored 33 technical papers and holds 30 U.S. patents.

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Hill Hall 202, 4pm

U.S. plants devoted to recovering values from metal-rich wastes have established market niches based on one or more competitive advantages: superior process technology, access to key feedstocks, unique equipment, special knowledge of markets, and an appropriate exit for outfall water. These plants are often hydrometallurgical operations.

Ideally these operations also incorporate or have access to blending, physical separation, and pyrometallurgy. Important considerations include a favorable market niche, plant location, and outlets for unwanted feed constituents. Key dollar components include transportation, processing cost, sales revenue, tipping fees, and regulatory expenses. One measure of success is having a ratio of product sales to tipping fees greater than one.