Metallurgy Modeling Consultant Solves Mining Challenges with aspenONE® Engineering
“One of the challenges in metals extraction is finding the time and manpower to develop good process understanding. Arithmetek's unique value to clients is helping them understand and optimize their processes by combining the performance of Aspen Plus® software with over thirty years of experience in metals extraction.”

- Dr. Mike Dry, President, Arithmetek, Inc.

Dr. Mike Dry, President of Arithmetek, has been applying process modeling to the design of process plants in the mining and metals extraction industry for many years. For his company, the ability to combine world-class process modeling software, Aspen Plus, with industry expertise provides his clients with a viable approach for designing and evaluating cost-effective processes. It also helps clients uncover difficulties well before there are adverse financial outcomes.

To compensate for the natural ebb and flow of the metals industry, Arithmetek also offers value-added services to the oil and gas industry. The aspenONE Engineering Desktop package gives Arithmetek access to complementary tools and applications—such as Aspen HYSYS®—enabling the company to help optimize energy processes for oil and gas clients.

**CUSTOMER PROFILE - Arithmetek, Inc. - Engineering**

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<th>CHALLENGE</th>
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| Provide best-in-class, value-added services to clients in the metals extraction industry while maintaining business flexibility. | • Design optimized metallurgy processes with industry-leading tools  
• Combine technical expertise with software for a complete value-added offering  
• Extend Aspen Plus capabilities to support custom unit simulation in hydrometallurgy  
• Increase business by leveraging similar tools for clients in the oil and gas industry |

aspenONE Engineering Desktop software gives small consultancy Arithmetek the tools to enhance and extend metallurgy modeling expertise.
The ability of Arithmetek to maintain a flexible business approach has allowed this small enterprise to remain on top. According to Dr. Dry, “Because we serve clients in adjacent businesses, it’s important to have access to the wide range of software provided by aspenONE.”

**AFFORDABLE ACCESS TO INDUSTRY-LEADING TOOLS**

Specializing in metals extraction, and with complementary work in oil and gas processing, Arithmetek needs flexible access to a suite of advanced tools, such as Aspen Economic Evaluation, to complement process modeling. These tend to have a high cost of acquisition.

**SUPPORTING SMALL ENTERPRISES WITH WORLD-CLASS SOFTWARE**

The program for small to medium-sized enterprises (SME) from AspenTech addresses the needs of companies like Arithmetek by providing a diverse suite of top-of-the-line engineering software at an affordable price. For Arithmetek, this means having access to the appropriate type of software as required. Arithmetek uses Aspen Plus as an advanced modeling tool for metallurgical consulting and also has access to powerful process simulation software for the oil and gas industry—Aspen HYSYS—to serve other clients. This versatility in software availability is invaluable to engineering companies with modest budgets or cyclical business.

**A FORWARD-LOOKING VISION**

Arithmetek focuses on reducing technical risk through process modeling, primarily in the mining and metals extraction industry and also in oil and gas processing. By using the superior modeling capabilities of Aspen Plus, Arithmetek can:

- Rationally evaluate processes and process economics
- Compare/rank proposed processing options
- Define appropriate experimental work

Clients are able to develop projects more effectively and avoid significant loss in time and money. When not working on metal extraction circuits, Arithmetek employs additional products in the aspenONE Engineering suite to continue offering high-quality consulting to adjacent industries. This resourceful business model illustrates a great example for small engineering companies with a variety of focuses extending beyond mining and metals extraction.
AspenTech is a leading supplier of software that optimizes process manufacturing — for energy, chemicals, engineering and construction, and other industries that manufacture and produce products from a chemical process. With integrated aspenONE® solutions, process manufacturers can implement best practices for optimizing their engineering, manufacturing, and supply chain operations. As a result, AspenTech customers are better able to increase capacity, improve margins, reduce costs, and become more energy efficient. To see how the world’s leading process manufacturers rely on AspenTech to achieve their operational excellence goals, visit www.aspentech.com.

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