U.S.-Saudi Business Council
مجلس الأعمال السعودي الأمريكي

U.S. DELEGATION TO THE FUTURE MINERALS FORUM 2025

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BakerHostetler
Orlando, FL
www.bakerlaw.com

Participant: Joel Roberts, Partner, Chair of Middle East Practice Group and Aerospace & Defense Industry Team

Company Profile

Established in 1916, BakerHostetler is one of the largest law firms in the U.S., with more than 1,000 lawyers and 17 offices. The firm handles clients' most critical legal matters – securing advantageous outcomes amid regulatory scrutiny and bet-the-company litigation; closing deals that fuel strategic growth; managing intellectual property and digital assets; and providing advice and counsel to facilitate long-term competitiveness.

BakerHostetler's attorneys represent companies across every industry, from market-leading global powerhouses to trailblazing startups, helping clients minimize risk and capitalize on opportunities that will strengthen and grow their businesses. The firm's six core practice groups – Business, Digital Assets and Data Management, Intellectual Property, Labor and Employment, Litigation, and Tax – include nationally ranked lawyers backed by the organizational and technological resources only a large firm can offer.

Further specialty services include Antitrust and Competition, Blockchain and Digital Assets, Class Action Defense, Commercial Litigation, Digital Risk Advisory and Cybersecurity, Financial Services, International Tax, Labor Relations, and Patent Litigation, among many others.

BakerHostetler's Middle East practice is uniquely positioned to advise companies operating in the region. With clients ranging from startups to multinational corporations, the firm counsels businesses throughout the Middle East, including aerospace and defense, construction, energy, financial services, hospitality, manufacturing, maritime, media, mining and technology, among others. Their team is familiar with local customs, business protocols and Sharia law, which helps bridge cultural gaps and manage expectations on both sides of negotiations.

Mr. Joel Roberts, Partner, maintains extensive practice experience in the Middle East, including:

- Negotiation of construction and engineering service agreements (FIDIC and non-FIDIC) relating to significant projects in the Middle East and Asia and often including alternative dispute resolution provisions.
- Advising a global Saudi Arabia-based client on designing and implementing board and corporate governance structures and policies, best practices, auditing and compliance.
- Analyzing and drafting international trade compliance manuals for a variety of clients, including a large multinational with operations around the world.

Mission Objectives

- Expand presence in Saudi Arabia. The firm would consider a merger with a Saudi based firm
- Connect with leading mining/mineral resource companies
- Explore new opportunities for potential partnerships and extension of legal services in the Kingdom.

CEC Mining Systems Corp
British Columbia, Canada
www.cecminingsystems.com

Participants

Mark Mensing, President
Cameron Stockman, Managing Director

Company Profile

CEC Mining Systems Corp. (CECMS) is an innovative Canadian, OEM manufacturer of solid-liquid separation equipment, specializing in ceramic disc-vacuum filtration systems used for concentrate filtration, tailings dewatering, and paste backfill plants.

CECMS often supports projects through detailed engineering to facilitate EPC/EPCM/BOOT project delivery using traditional or modular construction techniques. CECMS operates a wholly owned subsidiary – Canadian Critical Minerals Research (CCMR) – through which research and development activities are concentrated. This company operates a 7,000 sq. ft. bench and pilot-scale testwork facility in Kamloops, BC.

In addition to filtration, CECMS owns a license to a variety of other solid-liquid separation technologies including various screening and drying equipment utilized in various areas of the flowsheets with a focus on battery metals. CECMS project engineering and manufacturing capabilities are scalable and global, having executed complex projects throughout the Americas and Africa by partnering with local fabricators and service providers. CECMS Canadian quality control standards, testwork, and flowsheet development, EC&I/control and instrumentation systems can be configured to meet any international standard. Combining this approach with a lean, on-demand supply chain has allowed CECMS to compete in any jurisdiction on the total cost of ownership. In sum, CECMS is a one-stop shop for project execution related to solid-liquid separation applications, which include:

- CX-Series Ceramic Disc Vacuum Filters (Concentrate and Tailings Filtration)
- Linear and Rotaspiral Screens (Pre-Leach, Pre-Flotation Trash Removal and Size Classification)
- Horizontal Vacuum Belt Filters (Concentrate and Tailings Filtration)
- Steel Belt Dryers with Medium Infrared Radiation (Concentrate Drying)
- Thickeners and Flocculant Addition (Concentrate and Tailings Thickening)
- Bulk-Handling Systems & Conveyors (Filter-Cake Transport and Load-Out)

Currently, CECMS manufactures the largest ceramic disc vacuum filter (CX12-204 – 204 m2) which is the largest commercially available system of its kind. In 2023 CECMS completed the fabrication of nine (9) CX12-204 (204 m2) ceramic disc vacuum filtration system(s) for use in the dewatering of iron ore concentrate produced by the 15Mtpa expansion of the Tokadeh concentrator in eastern Liberia. The CX-Series filters are being installed as part of a brownfield expansion of the concentrator which now includes a wet processing circuit. Mechanical installation is scheduled for Q4 2024, and wet commissioning for Q1 2025. The CX12-204 (204m2) is superior to other commercially available equipment manufactured by competitors based on the following metrics:

- Capital Cost USD$ per ton D.S. filtered;
- Operating Cost USD$ per ton D.S. filtered;
- Footprint (m2) required per ton D.S. filtered; and,
- Installed and operating Power Draw (kWh) per ton D.S. filtered.

This novel technology development has allowed for larger-scale filtration projects to access economies of scale with respect to costs, footprint and throughput.

Industries served by CECMS include municipal and industrial water treatment, water, metallurgical and refining, and recycling.

While Vancouver, BC-based, CECMS has operational references in 12 countries and is undergoing major investments in the EMEA region. The group has approx. 40-50 full-time employees and annual revenues of over $25M. CECMS is open to localizing testwork services, commissioning support, and spare parts in Saudi Arabia.

Mission Objectives

- Build a network in Saudi Arabia
- Identify end users and localization business partners to support project development throughout the Middle East and Northern Africa**.**

First Rite IT Services
Jacksonville, FL
www.firstriteitservices.com

Participants

Lamin Suwaneh, CTO
Ritesh Sharma, AI and Cybersecurity Manager
Nishant Agrawal, Head of Operations

Company Profile

Based in FL, First Rite IT Services specializes in cutting-edge solutions such as AI, IoT, and SaaS to optimize resource management. It leverages the power of Artificial Intelligence (AI), the Internet of Things (IoT), and round-the-clock support across its Security Operations Center (SOC), Network Operations Center (NOC), and Contact Center to provide continuous monitoring and proactive management to ensure operational excellence. The company has over 1,500 employees, offices in the US, India, and the UK, $50 -100 Million in annual sales, and long-term partnerships in areas including smart cities, industrial IoT, cybersecurity, and data management. First Rite IT Services would consider localizing its business in Saudi Arabia. Its offerings, tailored to the mining and energy sectors, include:

- Cloud-Based Data Management and Collaboration Platforms: Cloud solutions to secure data storage, processing, and seamless collaboration across global teams, supporting efficient project management and digital transformation in mining operations.
- Cybersecurity Solutions for Critical Infrastructure: Advanced cybersecurity solutions, including threat detection and incident response services, to protect mining infrastructure and digital assets, addressing the growing security concerns in increasingly digitalized mining operations.
- Sustainability and Clean Energy Tech Solutions: Clean energy solutions integrated with IoT and AI for monitoring and reducing environmental impact in mining operations
- AI-Driven Predictive Analytics and Decision-Making Tools: AI solutions to improve productivity, reduce downtime, and optimize resource management in mining operations to enhance operational sustainability.
- IoT-Enabled Smart Mining Solutions: IoT technologies for remote monitoring, automation, and optimization of mining equipment, focusing on safety, efficiency, and environmental responsibility.
- 24/7 Support and Monitoring Services: Continuous support through a SOC, NOC, and Contact Center, ensuring operational continuity and quick issue resolution for global mining clients.

Mission Objectives

- Demonstrate how its innovations and expertise in AI, IoT, and cloud-based solutions can support the mining sector's green initiatives and enhance operational efficiency, sustainability, and safety in the mining industry

- Meet key Saudi public entities and private sector companies to leverage its expertise in AI, IoT, cloud solutions, and sustainability, particularly within the mining and energy and explore collaboration

Michelin
Greenville, South Carolina
www.michelin.com

Participant: Majid Tamoutounour, Market Segment Manager - Mining and Off Highway Tires

Company Profile

Established in 1889, Michelin designs, manufactures, and sells tires for every type of vehicle. Dedicated to the improvement of sustainable mobility, it also provides digital services, maps and guides to help enrich trips and travels. In addition, Michelin invests in high-technology materials, 3D printing and hydrogen, to serve a wide variety of industries — from aerospace to biotech.

In the mining sector, Michelin is the only tire manufacturer with a dedicated, real-world testing facility for mining tires. The company introduced the mining industry's first radial earthmover tire in 1959 and launched the industry's first 63" tire in 1995, opening the doors for a whole new category of mining trucks. A team of 200 highly qualified specialists put the mining tire innovations through rigorous testing to ensure they are safe, smart, and sustainable. Aside from a full range of tires for the mining industry, Michelin also offers customers:

- Tire recommendations customized to mine site conditions
- Scrap tire analysis to uncover the root causes of scrap tires for customized corrections and recommendations
- Tire management best practices to maximize safety, improve tire life, and boost mining productivity
- Data-driven insights and recommendations on improvements for better haul road maintenance, optimized truck routes, and more.

Michelin North America has approximately 22,500 employees and operates 34 production facilities in the United States and Canada. Overall, the company has over 120,000 employees worldwide.

Mission Objectives

- Better understand the future of the Saudi mining market
- Identify key players in operating mines
- Meet wheeled mining equipment manufacturers/dealers

OffWorld
Pasadena, CA
www.offworld.ai

Participant: Jim Karavala, CEO and Chief Architect

Company Profile

Established in 2016, OffWorld is developing the next generation of end-to-end rugged AI powered robots to source precious metals (gold, platinum, nickel, Rare Earth) on Earth and in space using swarms of intelligent robots. They are developed based upon OffWorld's core swarm robotic architecture that enables multi-robot collaborative behaviors and collective intelligence. All robot species are built from industrial-grade interoperable modules sharing a common structure, power, sensing, and data design.

The mining fleet, including surveyor, collector, handler, and excavator, are developed for autonomous mining, with no personnel needing to physically enter a mine. It has successfully deployed pilot programs for its Excavator, Collector and Surveyor robots. In 2018, the company's autonomous excavation robot was deployed underground, the world's first of its kind. OffWorld has worked with two of Tier 1 world miners and has subsidiaries in South Africa, Australia and Luxembourg and will be establishing a presence in Saudi Arabia in Q1 2025. It has signed an MOU with Ma'aden at FMF23.

- Surveyor: Conducts autonomous mapping and surveying in unstructured locations that even drones can't survey, via a fully mobile and versatile platform that does not require any existing infrastructure, such as communication networks or cloud servers, to navigate and generate real-time 3D reconstructed maps. All the mapping sensors have been integrated symmetrically so that mapping can continue even when toppling over. Its high torque motors enable climbing over rocks and obstacles during payload operations. Its unique machine learning approaches help provide critical intelligence for mapping, surveying, ore identification, and a variety of other use cases. Its robotic industrial toolkit can customize Surveyor to specific projects in sectors including oil and gas, construction, pipeline inspection, water, tunneling, etc.
- Collector: Using a collection tool and hauler tray, the robot can pick up, stow, and haul away fragmented material. It also vacuums, stores, and hauls away dust, fines, and small-size rock chips.
- Hauler can navigate autonomously in its working environment, identifying and avoiding obstacles. It can even tow away a fellow robot if the need arises.
- Excavator: Conducts rock face mapping before and during its precision excavation of ore, limiting waste rock excavation, enabling selective sorting of excavated material, and increasing downstream efficiency. It uses advanced controls and AI with customizable hard rock-cutting tools and configurations that suit the specific needs of the excavation profile resulting in the world's first autonomous laparoscopic mining system.

Surveyor will be commercially deployed in 2025 and three other species will be available for full autonomous mining operations in 2027.

Mission Objectives

- Introduce Surveyor and its suite of products to public sector entities in Saudi Arabia
- Seeking customer agreements for Surveyor deployments with mining, water, energy, and construction companies
- Consider investment

TechnoImaging
Salt Lake City, UT
http://www.technoimaging.com

Participant: Dr. Michael Zhdanov, Chairman and CEO

Company Profile

Established in 2005, TechnoImaging, LLC. ("TI") is a leading global geophysics technology company. TI conducts geophysical surveys and provides the world's most advanced 3D imaging solutions for all electromagnetic, gravity, magnetic, and seismic geophysical methods for mineral, hydrological, geothermal, Oil & Gas exploration and production, and environmental study.

TI offers cutting-edge methods and services for geophysical data acquisition, inversion, and modeling for mineral exploration. Its technology is able to handle any size survey. All analyses/interpretations are fully three-dimensional to accurately honor the true physics of the problems. They acquire, model, and invert geophysical data from airborne and marine surveys to land and borehole surveys. More specifically, TI develops and applies cutting-edge methods for 3D modeling and inversion of all types of geophysical data using its Glass Earth® technology and EMVISION® software, which are transformational for geological and geophysical exploration. TechnoImaging's Glass Earth® proprietary imaging and analysis technologies can integrate and jointly invert multiphysics geophysical data, thus rendering the top kilometers of the earth's strata transparent, thereby revealing the geological formations operating within. The end product is a metaphorical "Glass Earth®" through which to clearly analyze the subsurface.

TechnoImaging offers 3D inversion/imaging of all kinds of airborne surveys, from gravity and magnetic to passive and active electromagnetic time domain and frequency domain systems. It has inverted data from over 200 airborne surveys in full 3D. Locations include six continents in countless different geologic regimes. These advances help make highly informed decisions related to the assessment and development of the mineral spectrum, groundwater, and oil and gas reserves.

TI utilizes its proprietary, patented technologies to sustainably develop natural resources in partnership with governments, and top-tier E&P, infrastructure, water industries, mining and energy resource companies in Australia, Brazil, Italy, Japan, and Norway. Key customers include Anglo American, BAE Systems, Barrick Gold, BHP, Cameco Resources, Duke Exploration ENI, ExxonMobil, Geoscience Australia, Haliburton, JOGMEC, Natural Resources Canada, Nuvia, Petrobras, Rio Tinto, Tullow Oil, Shell, Stateoil, Sumitomo, Tech Resources, Total, and USGS. In Saudi Arabia, TI's involvements include:

- Several mineral exploration projects for Ma'aden
- Glass Earth® (Pilot) Project with King Abdulaziz City for Science and Technology to provide a roadmap for natural resources exploration in the survey area. The survey involved the acquisition, processing, and interpretation of airborne electromagnetic, gravity, and magnetic geophysical data over an initial 8,000 sq km area in Saudi Arabia. TI applied its advanced technology to identify potential mining targets which can be associated with gold and other base metal deposits such as zinc and copper.
- Collaboration with Saudi Aramco to develop new method of well-logging for oil exploration.

Mission Objectives

Meet with leading government experts to discuss the business opportunities available in the Kingdom's mining and metals sector, and to explore the ways to assist Saudi Arabia develop its mining sector.

Teledyne Construction
Daytona, FL
www.teledyne.com

Participants:

Ted Germann, Vice President
Emad UL Islam Javaid, Senior Director, Middle East & North Africa

Company Profile

Teledyne Technologies is one of the most prolific scientific companies in the world specializing in space, defense and energy. Teledyne's newest business, Teledyne Construction, will be introducing and adapting many of its technologies used in these markets for the mining industry. Mining solutions will include, but are not limited to security, condition monitoring for conveyor belts, highwall, and air quality, as well as vision under any conditions for heavy equipment operating in the mines.

Products include FLIR Thermal Imaging Cameras, ACES Environmental Monitoring Module, Utility Pipe and Cable (UPAC) Detection System. The company currently has a presence in Saudi Arabia for defense application and is willing to expand it for mining with appropriate partners.

Teledyne Construction is currently working with world class mining companies in the US such as:

- Caterpillar Empire
- Freeport McMoran
- Rio Tinto
- Newmont
- Barrick
- Pinto Valley
- Genesis Alkali

Mission Objectives

- Meeting with end users to introduce Teledyne Construction and affiliate mining related applications
- Meet with well-established Saudi companies with focused expertise and experience in the mining sector to discuss potential representation/distributorship

Tucher Capital

New York, NY
www.tuchercapital.com

Participant

Pedro Herrera, Managing Partner

Company Profile

Tucher Capital is an emerging markets financial advisory boutique that offers the following services

- Corporate finance and business development solutions
- Capital raising and investment strategies
- Investor relations strategic advisory services

Sectors of specialization include:

- Metals, Mining and Natural Resources
- Food and Agribusiness
- Infrastructure and Housing

The company has activities in the US, Argentina, Chile, Peru, Colombia, Mexico, the Caribbean, Saudi Arabia, the United Arab Emirates, and the United Kingdom.

Tucher Capital represents Latin American and US companies with access to significant mining resources and world class expertise in mining. Current activities and mandates include:

- Tucher Capital represents a publicly- traded company looking for international partnerships and investors to exploit newly discovered mineral deposits in Latin America, as well as to expand regionally and internationally. The controllers are a family group with almost 100 years of successful mining expertise internationally.
- Tucher represents a private copper miner in Peru who is looking for partnerships and investments to further develop the significant mineral deposits they control. The controllers are the family office of one of the largest food companies in Latin America, with significant operations globally.
- We represent one of the largest U.S. state-of-art windows manufacturer, looking to invest and expand in the Middle East. Company is based out of Miami, Florida, trades in the NYSE, and is the leading provider of state-of-the-art windows to the commercial and residential real estate sectors.
- At UBS Investment Bank, Mr. Herrera was in the Credit Risk Management team, managing and controlling the bank's exposure to the metals and mining sector in Latin America. Responsibility included the bank's derivatives, trading (equities and bonds), new debt issues and corporate lending risk controls for companies such as Vale, Codelco, Volcan, among others.

Mission Objective

- Meet investors and potential partners for its mining and natural resources client companies in Latin America.