2018 ACHIEVEMENTS

- Acquired and integrated Sivomatic, significantly strengthening our global pet care platform and driving opportunities to expand our reach.

- Metalcasting penetration strategy driven by greensand bond technology progressed with sales in Asia up 7% over last year.

- Secured contract for 165,000-ton satellite PCC plant in China in 2018, increasing our new paper PCC capacity by over 400,000 tons in Asia.

- Commercialized 35 value-added products with the potential to deliver over $100M in revenue.

- Introduced new waste water and environmental remediation technologies, including FLUORO-SORB® adsorbent which provides an economical process for removing fluorinated compounds from contaminated water.

- Double digit growth in multiple product lines in Asia and other regions, specifically in India, Turkey, Indonesia and Thailand.

- Commissioned new Bleaching Earth Facility in Turkey, which will expand production capacity, manufacturing capabilities and footprint in emerging region.

- Advanced three Specialty PCC production expansions in the U.S. and U.K. that will allow us to keep pace with growing customer demand for new products.

- Refractories segment delivered record operating income of $42.3M, driven by commercialization of newly developed Hybrid products in North America and global reformulation of lower cost products.

- Maintained strong balance sheet with $80 million debt repayment and net leverage ratio remaining at 2.2X EBITDA.

- $1.8B Record sales in 2018, increased 8% YOY

- $204M Strong operating cash flow

- 0.16 Lowest Lost Workday Injury Rate in MTI history

- $4.84 Ninth consecutive year of record earnings per share, up 5% YOY

- 6% Productivity improvement, ninth consecutive year of 5% or higher