Imperial Machine & Tool Co., a Kaiser Aluminum Company, will be discussing our latest additive innovation. As the optical industry continues to grow in conjunction with space and military applications – stray light absorption inside optical housings has seen an increase in importance. Traditional manufacturing solutions to this problem include nonfunctional geometric shapes and specialty coatings that are applied to the inside of optical housings. These existing solutions increase manufacturing difficulty, increase cost, increase production risks, and increase lead times. To address this market need, Imperial has invented Superior Light-Absorbing Metal, which we refer to as SLAM. This patent-pending approach utilizes additive manufacturing to combine millimeter-to-micron scale surface features which absorb and redirect light over a wide range of wavelengths and incidence angles. SLAM surfaces are selectively designed into customer-provided parts only where needed and are created along with the base part during the Laser Powder Bed Fusion (LPBF) 3D Printing process.