Materials That Matter

II-VI Incorporated, a global leader in engineered materials and optoelectronic components, reported results for its fiscal 2020 third quarter ended March 31, 2020. In this second full quarter of II-VI operations, the company successfully continued its integration activities amid the COVID-19 pandemic. II-VI is a vertically integrated manufacturing company that develops innovative products for diversified applications in the industrial, communications, aerospace δ defense, life sciences, semiconductor capital equipment, automotive, and consumer electronics markets.

> II-VI was founded, and is still headquartered, Saxonburg, Pennsylvania in 1971 to make laser optics for CO₂ lasers and went public in 1987. Through its steady development and successful strategic acquisitions, the company today has over 22,000 employees, in 69 locations, in 18 countries.

> In 2019, II-VI closed the acquisition of Finisar Corporation, the largest acquisition in its history. With this transformative acquisition, II-VI's FY19

pro forma revenue is \$2.6B, with thousands of customers in diversified markets. Finisar brings to II-VI a worldclass indium phosphide (InP) technology platform that is essential in the buildout of 5G and the growth of the cloud. With this technology platform, II-VI is a market leader in optical communications components and is one of the largest photonics and compound semiconductors companies in the world. II-VI today has two operating segments: Photonic Solutions,

of the business, and Compound Semiconductors, which represents the

which represents seventy percent

remaining thirty percent of revenue. The company is recognized as a true leader in engineered materials and optoelectronic devices which is so fundamental to its core competency that they adopted the tag line 'Materials That Matter'. With a strong focus on materials that exhibit unique optical, electrical, thermal, or mechanical properties, these materials take a long time to develop and usually enable multiple applications. Dr. Chuck Mattera, CEO, II-VI Incorporated says: "About two-thirds of our business is in optical communications, of which about half is in telecom and half in datacom. That business is driven by 5G and cloud computing. II-VI offers a full portfolio

connectivity to deliver wireless and times over the next five years. In June 2020, II-VI reported record quarterly bookings of \$840M, twenty-Dr. Mattera states that 3D sensing also is two percent above forecast. "We invest early in the development of enables face biometrics in smartphones engineered materials, based on using semiconductor lasers. "II-VI has our convictions of their long-term potential," explains Dr. Mattera. "We arrays for 3D sensing in mobile phones understand that it takes a lot of time to develop the body of knowledge, and we expect that business to necessary to establish a disruptive technology platform that enables differentiated products economies of scale, as the demand facing" in a number of consumer devices grows. We invest in technology such as smartphones, tablets, and smart platforms even before we are certain glasses. These world-facing lasers of their intended use, because by the

development."

renewable energy are more efficient

with power electronics made with

silicon carbide (SiC). Today, SiC

represents only about 6% of the

company's revenue, but the demand is

growing rapidly. As a result, II-VI

expects to scale its capacity by 5-10

of semiconductor lasers, optics, and

electronics for telecom networks and

large datacenters in the cloud that

underpin the internet. Telecom

networks span the globe with

terrestrial and undersea fiber-optic

links that provide high-speed

wireline broadband services from large

a rapidly emerging application that

shipped hundreds of millions of laser

accelerate with the advent of

augmented reality, which will have many

more applications and will require

semiconductor lasers to be "world-

will act like sensors, scanning the

environment and digitally recreating the scene in three dimensions in order to

augment it with information from the

cloud. This illustrates the convergence

superposition of cloud information on the scene must appear to the user to be

instantaneous. This drives the demand

for low latency in the network, which is

one of the important use cases for 5G."

II-VI additionally recognizes that the

convergence of electrification and

renewable energy is another

megatrend that is essential to

the long-term strategy of many

governments to reduce their

dependence on fossil fuels and lower greenhouse emissions. What is less

well-known is that electrification and

communications, computing, and sensing: To be effective, the

datacenters in the cloud."

In short, II-VI focuses on technology platforms, whether developed or acquired, that enable, or have the potential to enable, multiple applications in multiple end markets. Dr. Mattera comments: "We delivered \$627M of revenue, and our margins on a GAAP and non-GAAP basis were strong. This performance is the result of growing and accelerating demand for our products across key end markets, as well as continued success with our M&A integration efforts that are at least 12 months ahead of plan." He concludes: "Among the many priorities that we have set for ourselves is the development of a stronger corporate culture that is more unified across our footprint.

time commercial opportunities arise,

We continue to be strongly committed to our purpose, which is stated in our mission: Enabling the world to be safer, healthier, closer, and more



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Cleanroom

