II-VI

MATERIALS THAT MATTER[™]

1

INVESTOR DAY

November 8th, 2017



Agenda



Welcome	Mark Lourie, Director of Corporate Communications
Introduction	Fran Kramer, Chairman of the Board
Strategic Overview	Dr. Chuck Mattera, President & Chief Executive Officer
Innovation	Dr. Giovanni Barbarossa, Chief Technology Officer and President, Laser Solutions Segment
Financial Outlook	Mary Jane Raymond, Chief Financial Officer

Safe Harbor Statement

Matters discussed in this presentation may contain forward-looking statements that are subject to risks and uncertainties. These risks and uncertainties could cause the forward-looking statements and II-VI Incorporated's (the "Company's") actual results to differ materially. In evaluating these forward-looking statements, you should specifically consider the "Risk Factors" in the Company's most recent Form 10-K and Form 10-Q. Forward-looking statements are only estimates and actual events or results may differ materially. II-VI Incorporated disclaims any obligation to update information contained in any forward-looking statement. This presentation contains certain non-GAAP financial measures. Reconciliations of non-GAAP financial measures to their most comparable GAAP financial measures are presented at the end of this presentation.



Introduction Fran Kramer, Chairman of the Board



Origins of Our Company Name



Since 1971

INVESTOR DAY November 8th, 2017

2017 1987 1971 We Started In Saxonburg, PA 30th Anniversary since the IPO **IPO** Saxonburg Pittsburgh Saxonburg Campus in 1997 Francis J. Kramer(Left) and Dr. Carl J. Johnson(Right)

II-VI Worldwide Values





Strategic Overview

Dr. Chuck Mattera, President & Chief Executive Officer



Our Company Structure





Vertically Integrated Manufacturing Platforms



Our Footprint



Our Strategic House





II-VI

MATERIALS THAT MATTER^{**} 13

Diversified Customer Base Across 7 End Markets

Serving Over 1000 Customers





II·VI

MATERIALS THAT MATTER[™] 15

SiC Substrates for Wireless Communications

Â

Share of the Projected Annual \$200 Billion Investment In 5G by Country Starting Around Year 2020

US	28%
China	23%
Japan	11%
Germany	4%
U.K.	3%

Source: Bloomberg Business Week



(



SiC Substrates for Power Electronics

Electric Car Announcements

GM	20 all electric cars by 2023
Ford	13 models by 2023
Toyota & Mazda	U.Sbased plant by 2021
Daimler /Mercedes-Benz	Electrify entire portfolio by 2022
Renault/Nissan/Mitsubishi	12 All-Electric cars by 2022
Jaguar Land Rover	Electrify (HEV/EV) all lineup by 2020
Volvo	Electrify entire line by 2019
VW/Audi/Porsche	300 EV/HEV by 2030



TESLA

Source: Mashable

SiC for High Power Electronics Market CAGR ('17-'21): +23% Source: Yole

Laser & Micro-optics for 3D Sensing

/		
Í		
	···	

* VCSEL: Vertical Cavity Surface Emitting Lasers

VCSEL Market CAGR ('15-'22): +19% Source: Markets & Markets



Opto-Electronics for LiDAR

II·VI



Self-driving car availability by car manufacturer

Tesla	2017	Volvo	2020
GM	2018	Daimler	2020
Hyundai	2020	BMW	2021
Renault-Nissan	2020	Ford	2021
Toyota	2020	Honda	2025

Source: AXIOS

Laser Diodes for LiDAR Market ('17-'22): +20% Source: Strategies Unlimited

19

Laser Optics & Precision Ceramics for Extreme Ultraviolet (EUV) Lithography

Front/Back End Processing System

EUV Source System

Beam Transport System

CO₂ System

EUV Lithography System

EUV Lithography Systems Market CAGR ('16-'22): 9% Source: Allied Market Research

Differentiated Product Portfolio for Industrial Lasers



- Fiber Lasers
- Direct diode Lasers

Broad portfolio of components including: pump lasers, high power combiners, acousto-optic modulators, high power isolators, gratings and micro-optics.

Fiber Lasers Market CAGR ('17-'22): +8% Direct Diode Market CAGR ('17-'22): +7% Source: Strategies Unlimited

Optics & Optoelectronics for Datacenters



Leading Edge Subsystems for Intelligent Communications Networks



II•VI

Engineered Materials, High Energy Laser and Optics for Military & Aerospace



World leader in large sapphire panel output **24,000 sf** dedicated facility

F-35 Electro-Optical Targeting System (EOTS)

Infrared Countermeasure Systems Market CAGR ('17-'22): +8% Source: Strategies Unlimited



II•VI





INVESTOR DAY

November 8th, 2017

Strategy for Growth by Acquisition

Dr. Chuck Mattera, President & Chief Executive Officer



Recent Platform Acquisitions



Optical Communications & Access to China Market



Jan. 2017: "China unveils \$170 billion telecoms investment"



Chinese government plans to lay 90,000km of fiber cables and deploy around two million 4G wireless base stations over the next three years

Source: Global Telecoms Business

Compound Semiconductor Lasers

II·VI





Vertical Integration & Scale





Compound Semiconductors: Aiming Beyond Lasers







November 8th, 2017

Innovation

Dr. Giovanni Barbarossa, Chief Technology Officer and President, Laser Solutions Segment



MATERIALS THAT MATTER[®] | 31

Innovation Strategy



MATERIALS THAT MATTER^{**} | 32

3D Sensing



Innovative Optical Connectivity



Enabling Through Miniaturization



Silicon Carbide Compound Semiconductor





Financial Outlook Mary Jane Raymond, Chief Financial Officer \$224 \$225 \$123 \$74 \$61 \$38 \$28 **IPO 1987**



Capital Allocation Goals For II-VI



Investment Parameters



Our Capital Allocation Priorities Align to our Strategy Going Forward









MATERIALS THAT MATTER



Reconciliation Tables

		Three Months Ended						Year Ended			
	Sept 30, 2017		June 30, 2017		Sept 30, 2016		June 30, 2017		June 30, 2016		
Adjusted operating income	\$	31.8	\$	35.7	\$	23.7	\$	115.5	\$	91.8	
Acquired business's one-time expenses		(2.0)		-		-		-		-	
Operating income	\$	29.8	\$	35.7	\$	23.7	\$	115.5	\$	91.8	
Interest expense		3.6		2.3		1.2		6.8		3.1	
Other expense (income), net		(0.7)		(0.4)		(1.4)		(10.1)		(1.3)	
Income taxes		5.8		1.2		7.6		23.5		24.5	
Net Earnings	\$	21.1	\$	32.6	\$	16.3	\$	95.3	\$	65.5	

	_	Three Months Ended						Year Ended			
	S	ept 30, 2017	Ju	ıne 30, 2017		ept 30, 2016	Ju	ıne 30, 2017	Ju	ine 30. 2016	
Adjusted EBITDA	\$	50.4	\$	55.0	\$	40.0	\$	189.2	\$	149.8	
Adjusted EBITDA margin		19.3%		20.1%		18.1%		19.5%		18.1%	
Acquired business's one-time expenses		(2.0)		-		-		-		-	
Acquired depreciation and amortization		1.0		-		-		-		-	
EBITDA	\$	49.4	\$	55.0	\$	40.0	\$	189.2	\$	149.8	
EBITDA margin		18.9%		20.1%		18.1%		19.5%		18.1%	
Interest expense		3.6		2.3		1.2		6.8		3.1	
Depreciation and amortization		18.9		18.9		14.9		63.6		56.7	
Income taxes		5.8		1.2		7.6		23.5		24.5	
Net Earnings	\$	21.1	\$	32.6	\$	16.3	\$	95.3	\$	65.5	

II-VI Reports GAAP EPS

To calculate EPS comparable to some peers, below are the values of typical adjustments used by other companies

II-VI Consolidated						
Summary of Typical Industy Non-GAAP Adjustn						
	<u>Q1 FY17</u>	<u>Q2 FY17</u>	<u>Q3 FY17</u>	<u>Q4 FY17</u>	<u>Q1 FY18</u>	<u>Q2 FY18</u>
Amoritization	3.2	3.2	3.2	3.2	3.6	3.8
Share Based Comp	4.1	3.9	4.5	3.5	6.3	4.7
One Time Costs	-	-	-	0.4	1.2	-
Operation Dilution (Inv roll through)	-	-	-	0.2	2.0	1.0
	7.3	7.1	7.7	7.3	13.1	9.5
Тах	2.3	1.8	1.8	0.3	2.8	1.2
PAT	5.0	5.3	5.9	7.0	10.3	8.3
Outstanding Shares	65.3	65.3	65.3	65.3	65.3	65.3
EPS Impact of Typical Industry Non-GAAP Adj.	0.08	0.08	0.09	0.11	0.16	0.13



Biographies

Francis J. Kramer.

Mr. Kramer joined the Company in 1983 and served as its President from 1985 to 2014, its Chief Executive Officer from 2007, and its Chairman and CEO from 2014 to 2016. He now serves as the Company's Chairman of the Board of Directors. Mr. Kramer holds a B.S. degree in Industrial Engineering from the University of Pittsburgh and an M.S. degree in Industrial Administration from Purdue University. Mr. Kramer had served as director of Barnes Group Inc., a publicly traded aerospace and industrial manufacturing company (NYSE: B), from 2012 to 2016. Mr. Kramer provides our Board and the Company with guidance on our growth strategy, in particular on the profitable execution of the strategy to achieve sustainable competitive advantage. He contributes considerable business development experience. He also has significant operations experience that is relevant to the Company's strategy.

Vincent D. Mattera, Jr.

Dr. Mattera initially served as a member of the II-VI Board of Directors from 2000-2002. Dr. Mattera joined the company as Vice President in 2004 and served as Executive Vice President from January of 2010 to November of 2013, when he became the Chief Operating Officer. In November of 2014, Dr. Mattera became the President and Chief Operating Officer, and was reappointed to the Board of Directors. In November of 2015, he became the President of II-VI. In September of 2016, Dr. Mattera became the Company's third President and Chief Executive Officer in 45 years. During his career at II-VI he has assumed successively broader management roles, including as a lead architect of the company's diversification strategy. He has provided vision, energy and dispatch to the company's growth initiatives including overseeing the acquisition-related integration activities in the US, Europe, and Asia-especially in China-thereby establishing additional platforms. These have contributed to a new positioning of the company into large and transformative global growth markets while increasing considerably the global reach of the company, deepening the technology and IP portfolio, broadening the product roadmap and customer base, and increasing the potential of II-VI.

Prior to joining II-VI as an executive, Dr. Mattera had a continuous 20 year career in the Optoelectronic Device Division of AT&T Bell Laboratories, Lucent Technologies and Agere Systems during which he led the development and manufacturing of semiconductor laser based materials and devices for optical and data communications networks. Dr. Mattera has 34 years of leadership experience in the compound semiconductor materials and device technology, operations and markets that are core to II-VI's business and strategy. Dr. Mattera holds a B.S. in chemistry from the University of Rhode Island (1979), and a Ph.D. degree in chemistry from Brown University (1984). He completed the Stanford University Executive Program (1996). His 14 year tenure at II-VI underpins a valuable historical knowledge about the Company's operational and strategic issues. We believe that Dr. Mattera's expertise and experience qualifies him to provide the board with continuity and a unique perspective about on the Company.

Biographies

Giovanni Barbarossa

Giovanni Barbarossa joined II-VI in 2012 and has been the President, Laser Solutions Segment, since 2014, and the Chief Technology Officer since 2012. Dr. Barbarossa was employed at Avanex Corporation from 2000 through 2009, serving in various executive positions in product development and general management, ultimately serving as President and Chief Executive Officer. When Avanex merged with Bookham Technology, forming Oclaro, Dr. Barbarossa became a member of the Board of Directors of Oclaro and served as such from 2009 to 2011. Previously, he had management responsibilities at British Telecom, AT&T Bell Labs, Lucent Technologies, and Hewlett-Packard. Dr. Barbarossa graduated from the University of Bari, Italy, with a B.S. in Electrical Engineering, and a Ph.D. in Photonics from the University of Glasgow, U.K.

Mary Jane Raymond

Mary Jane Raymond has been Chief Financial Officer and Treasurer of the Company since March 2014. Previously, Ms. Raymond was Executive Vice President and Chief Financial Officer of Hudson Global, Inc. (NASDAQ: HSON) from 2005 to 2013. Ms. Raymond was the Chief Risk Officer and Vice President and Corporate Controller at Dun and Bradstreet, Inc., from 2002 to 2005.

Additionally, she was the Vice President, Merger Integration, at Lucent Technologies, Inc., from 1997 to 2002 and held several management positions at Cummins Engine Company from 1988 to 1997. Ms. Raymond holds a B.A. degree in Public Management from St. Joseph's University, and an MBA from Stanford University.