

May 20, 2021

City of Fort Pierce
International Growth



SAVE THE DATE

Connectivity 2021

2nd William Blair Investor Conference

**September 30 &
November 18, 2021**

Join William Blair experts and
outside thought leaders as
we explore today's hottest topics

VIRTUAL

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Overview

Photos courtesy of Casey Preyss, Ken McAtamney, Stephanie Braming and Alaina Anderson



The William Blair Mission: Empower. Deliver. Engage.

Empower Colleagues

- Entrepreneurial investment-led culture encourages diverse viewpoints
- Cross-sectional teams answer key questions and drive strategic imperatives
- Mentorship, professional development, generous educational assistance program reinforce intellectual curiosity

Engage in Our Communities

- Our colleagues are actively engaged in the industry through leadership and volunteer roles
 - We actively engage with diverse professional organizations to broaden the net in investment management
 - Firm has a culture of global giving & volunteerism
- In 2020:
- Giving ranked in top quartile of financial institutions¹
 - 51% of employees used matching gift v. 24% in industry
 - We contributed over 2,000 virtual and in person volunteer hours to support nonprofits around the world

¹Measured by % of net income.

Deliver Client Success

- Private partnership structure aligns interests with clients over the long term
- Demonstrated track record of value added performance
- Clients engage directly with decision makers



Organizations Supported by Charity Location: 2020



Holistic, Investment-led Integration of ESG

Commitment

- PRI signatory since 2011; A+ rated for Equity Incorporation; A rated for Active Ownership¹
- Member of the U.S. Investor Stewardship Group and International Corporate Governance Network; signatory of stewardship codes in the UK, Japan and Korea
- ESG Leadership Team consists solely of investment professionals
- Natural alignment with our quality-focused investment philosophies
- \$11.8 billion in mandates with client-specific ESG objectives²

Integration

- Investment opportunities and risks holistically incorporate material ESG considerations
- Proprietary framework focuses analysis on most relevant industry- or country-specific factors
- Proprietary Summit research platform facilitates seamless integration and analysis

¹Per 2020 PRI Assessment Report. The median Equity Incorporation rating for all PRI signatories was A. The median Active Ownership rating for all PRI signatories was B.

²As of March 31, 2021. Includes separate accounts with client-specific screening criteria.

The inclusion of Environmental, Social and Governance (ESG) factors beyond traditional financial information in the selection of securities could result in a strategy's performance deviating from other strategies or benchmarks, depending on whether such factors are in or out of favor. ESG analysis may rely on certain values-based criteria to eliminate exposures found in similar strategies or benchmarks, which could result in performance deviating.

William Blair ESG Materiality Framework Topic Structure

Environmental

Climate Change
Natural Resources Stewardship
Pollution and Waste



Social

Human Capital
Customer Well-Being
Supply Chain Management
Community Relations



Governance

Corporate Governance
Corporate Culture



Country ESG Factors

Political stability and institutional strength
Regulatory effectiveness, level of corruption, and rule of law
Demographic changes, living standards, and income inequality
Natural resource availability and climate change resilience

Diverse Thought Drives Strong Outcomes

Recruiting Strategy

- Diverse candidate and interviewer slates are the norm
- Gender-neutral job descriptions
- Always Be Recruiting networking casts a wide net

Industry Outreach

- Purposefully partner with Diverse Professional Organizations for networking, recruiting and to raise awareness
- Collaborate with other industry participants to promote D&I
- CFAI Experimental Partners Program

Internal Initiatives

- Global Inclusion Council sets the firm's strategy
- Business Resource Groups lead initiatives and support colleagues
- Courageous Conversations engage teams in new ways
- Unconscious bias training addresses blind spots
- Mentoring program provides 1x1 networking and feedback

Results

- Diverse leadership teams: IM led by a woman for the last 20 years

Since 2017:

- 33.3% of new hires are racially/ethnically diverse (R/ED) and 36.7% are women
- Women represent 36.6% of IM
- R/ED talent increased from 15.7% to 18.9%
- Of 8 mutual fund board members, 3 are women and 1 is R/ED
- Received 100% score on the Human Rights Campaign's 2021 Corporate Equality Index¹



2017 data is as of December 31, 2017. 2020 data is as of December 31, 2020. Excludes international employees. 90 hires.

¹Human Rights Campaign's Corporate Equality Index is the national benchmarking survey and report measuring company policies and practices related to LGBTQ workplace equality.

William Blair Investment Management at a Glance

Sophisticated Global Investor Base

Investment Management

100% active-employee owned

Entrepreneurial investment-led, client focused culture

Long-term expertise across asset classes globally

Holistic, investment-led ESG integration

326 employees (54 partners)

108 investment professionals

\$69.7 billion under management



Core Investment Tenets

Active Management

Alpha-Seeking

Long-Term Focus

Fundamental Orientation

Disciplined Process

Research Intensive

Tenured and Experienced Teams

	Average years in the industry	Average years at William Blair
Portfolio Managers	24	11
Analysts	17	10

¹Wo Bai Business Consulting (Shanghai) Co., Ltd. is an affiliated company solely providing research to other William Blair affiliates on a consultative basis.

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William Blair Investment Management is based in Chicago with affiliates and resources in New York, London, Zurich, Sydney, Stockholm, The Hague, Singapore, and dedicated coverage for Canada.

Data As of March 31, 2021. As used on this page, “William Blair” refers to William Blair Investment Management, LLC and affiliates unless otherwise noted. For more information about William Blair, please see <http://www.williamblair.com/About-William-Blair.aspx>. This material has been distributed for informational purposes only and should not be considered as investment advice or a recommendation of any particular security, strategy, or investment product. Strategy availability may be limited to certain investment vehicles; not all investment vehicles may be available to all investors. Unless otherwise noted, all data shown is as of the date of this material.

Investment Strategies

Global reach and wide array of strategies and vehicles

Teams	Strategies	Investment Professionals	AUM
Global Equity	<ul style="list-style-type: none"> Global Leaders Global Leaders Concentrated Global Leaders Sustainability International Growth International Leaders International Leaders Concentrated International Leaders ADR 	<ul style="list-style-type: none"> International Small Cap Growth Emerging Markets Growth Emerging Markets Leaders Emerging Markets Leaders Concentrated Emerging Markets Small Cap Growth China A-Shares Growth 	<p>8 PMs, 16 analysts</p> <p>\$43.1b</p>
U.S. Equity	<p>U.S. Growth</p> <ul style="list-style-type: none"> All Cap Growth Large Cap Growth Mid Cap Growth SMID Growth Small Cap Growth 	<p>U.S. Core</p> <ul style="list-style-type: none"> U.S. Equity Sustainability SMID Core <p>U.S. Value</p> <ul style="list-style-type: none"> Small Cap Value 	<p>9 PMs, 19 analysts</p> <p>\$24.1b</p>
U.S. Fixed Income	<ul style="list-style-type: none"> Core Intermediate Low Duration Sustainable Fixed Income 		<p>4 PMs/analysts</p> <p>\$1.2b</p>
Emerging Markets Debt	<ul style="list-style-type: none"> Hard Currency Local Currency Corporate Debt 	<ul style="list-style-type: none"> Frontier Blended 	<p>10 PMs, 2 analysts</p> <p>\$97m</p>
Global Multi-Asset & Currency	<ul style="list-style-type: none"> Macro Allocation Dynamic Diversified Allocation Global Diversified Return Absolute Return Currency 		<p>2 PMs, 10 analysts</p> <p>\$1.8b</p>

Assets as of March 31, 2021.

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Strong Legacy of Value-Added Performance

Annualized relative performance since inception (% gross vs. benchmark)

	Relative Performance Since Inception	Strategy Inception
GLOBAL EQUITY		
Global Leaders MSCI All Country World IMI	3.65	Jul 01 2007
Global Leaders Concentrated MSCI All Country World IMI	17.00	Jan 01 2020
Global Leaders Sustainability MSCI All Country World IMI	9.07	Feb 01 2019
International Growth¹ MSCI AC World ex-U.S. IMI	4.42	Dec 01 1992
International Leaders MSCI AC World ex-U.S. IMI	2.53	Feb 01 2003
International Leaders Concentrated MSCI AC World ex-U.S. IMI	-6.35	Aug 01 2020
International Leaders ADR International Leaders ADR Custom Benchmark ³	1.60	Apr 01 2000
International Small Cap Growth¹ MSCI AC World ex-U.S. Small Cap	2.97	Jan 01 2004
Emerging Markets Growth MSCI Emerging Markets IMI	6.41	Oct 01 1996
Emerging Markets Leaders MSCI Emerging Markets	2.06	Apr 01 2008
Emerging Markets Leaders Concentrated MSCI Emerging Markets	-6.62	Aug 01 2020
Emerging Markets Small Cap¹ MSCI Emerging Markets Small Cap	6.92	Nov 01 2011
China A-Shares Growth MSCI China A Index	19.58	Jan 01 2018
EMERGING MARKETS DEBT		
Emerging Markets Debt Hard Currency JP Morgan EMBI Global Diversified Index	9.69	Apr 01 2020
Emerging Markets Debt Local Currency JP Morgan GBI-EM Global Diversified Index	2.53	Jul 01 2020

	Relative Performance Since Inception	Strategy Inception
U.S. EQUITY		
All Cap Growth Russell 3000 Growth	1.71	Jan 01 1993
Large Cap Growth Russell 1000 Growth	1.05	Jul 01 1998
Mid Cap Growth Russell Midcap Growth	1.15	Apr 01 1997
SMID Growth¹ Russell 2500 Growth	2.54	Jul 01 1998
Small Cap Growth Russell 2000 Growth	3.79	Jan 01 1994
U.S. Equity Sustainability S&P 500	1.53	Jan 01 2021
SMID Core Russell 2500	1.82	Jun 01 2017
Small Cap Value Russell 2000 Value	1.08	Jan 01 1997
U.S. FIXED INCOME		
Core Fixed Income Bloomberg Barclays Aggregate	0.62	Jan 01 1998
Intermediate Core Fixed Income Bloomberg Barclays Gov't/Credit Inter.	0.38	Jul 01 2003
Low Duration Fixed Income ICE BofAML 1-Yr Treasury Note Index	0.65	Jan 01 1999
Sustainable Fixed Income Bloomberg Barclays Aggregate	1.10	Sep 01 2018
MULTI-ASSET		
Macro Allocation ICE BofAML 3M T-Bill	3.72	Dec 01 2011
Global Diversified Return Global Diversified Return Blended Benchmark ²	-0.31	Jan 01 2013
Absolute Return Currency ICE BofAML 3M T-Bill	-0.79	May 01 2018
Dynamic Diversified Allocation ICE BofAML 3M T-Bill	4.90	Apr 01 2013

As of March 31, 2021

For illustrative purposes, the upper axis bar graph scaling has been modified to smooth the impact of significant outliers. Actual relative returns are shown next to each bar.

¹Strategy closed to new separate account and CIT investors.

²From inception through December 31, 2015, the Global Diversified Return Blended Index consisted of 50% MSCI ACWI hedged to USD net and 50% Bloomberg Barclays US Aggregate Index. From January 1, 2016 through September 30, 2020, it consisted of 50% MSCI ACWI hedged to USD (net) and 50% Bloomberg Barclays Multiverse Index hedged to USD. From October 1, 2020, it has consisted of 60% MSCI ACWI hedged to USD (net) and 40% Bloomberg Barclays Multiverse Index hedged to USD.

³The benchmark that best reflects the composite's investment strategy is a custom benchmark, linking the MSCI All Country World Ex US Index (net) through June 30, 2019, to the MSCI All Country World Ex US Investable Market Index (net) after June 30, 2019. The benchmark was changed in December 2020 from the MSCI All Country World Ex US Index (net).

Past performance is not indicative of future returns. Performance shown in U.S. dollar. Returns for periods greater than one year are annualized. Gross performance results shown do not reflect the deduction of investment management fees, assume the reinvestment of dividends and capital gains, and are net of transaction costs. Performance results will be reduced by the fees incurred in the management of the account. For example, assuming an annual gross return of 8% and an annual management/advisory fee of .40%, the net annualized total return of the portfolio would be 7.58% over a 5-year period. Investment management fees are described in William Blair's Form ADV Part 2A. Please see appendix for additional information, including net performance. To receive additional information about the composite performance shown, write William Blair, 150 North Riverside Plaza, Chicago, IL, 60606, USA, or info@williamblair.com, or visit : <http://www.williamblair.com/~media/Downloads/Emarketing/2020/AM/Disclosures.pdf>

Global Portfolio Strategies

Our single, integrated investment platform is directed toward achieving portfolio objectives across all of our strategies

		Global	International	Emerging Markets
Leaders	High quality portfolios of leading companies across the corporate life cycle	Global Leaders \$3.1 billion	International Leaders \$8.9 billion	Emerging Markets Leaders \$5.5 billion
		Global Leaders Concentrated \$7 million	International Leaders Concentrated \$23 million	Emerging Markets Leaders Concentrated \$2 million
		Global Leaders Sustainability \$98 million	International Leaders ADR \$194 million / \$485 million AUA ¹	
All Cap	Broad exposure across all market caps		International Growth \$14.7 billion (closed) ²	Emerging Markets Growth \$6.0 billion
Small Cap	Broad exposure to small cap companies		International Small Cap Growth \$2.9 billion (closed) ²	Emerging Markets Small Cap Growth \$1.5 billion (closed) ²
China A	Locally-traded companies in China			China A-Shares Growth \$254 million

Assets as of March 31, 2021.

¹Assets Under Advisement (AUA) consists of assets managed by third parties in accordance with model portfolios provided by William Blair. William Blair does not have investment discretion or trading authority over these assets.

²Capacity management is an integral component of our investment process.

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Global Investment Team

One team, one philosophy, one process

Portfolio Management¹

Global Leaders

Andy Flynn, CFA, Partner (16/31)
Ken McAtamney, Partner (16/31)

International Leaders / International Growth

Simon Fennell, Partner (10/28)
Ken McAtamney, Partner (16/31)

International Leaders ADR

Alaina Anderson, CFA, Partner (15/20)

International Small Cap

Simon Fennell, Partner (10/28)
Andy Flynn, CFA, Partner (16/31)

Emerging Markets Leaders

Todd McClone, CFA, Partner (20/28)
Jack Murphy, CFA, Partner (16/25)

Emerging Markets Growth/ Emerging Small Cap Growth

Todd McClone, CFA, Partner (20/28)
Casey Preyss, CFA, Partner (20/21)

China A-Shares Growth

Casey Preyss, CFA, Partner (20/21)
Vivian Lin Thurston, CFA, Partner (6/24)

Portfolio Specialists

Ryan Dimas, CFA, CAIA, Partner (21/26)
Romina Graiver, Partner (9/22)
Blake Pontius, CFA (15/23)
Emily George (9/10)

Global Fundamental Research Analysts²

Consumer

Kwesi Smith, CFA (6/16)
William Benton, CFA, CPA, Partner (24/24)
Bryan Shea (12/12)
Adam Dettmer, CFA (4/7)
Michael Patchen, CFA (1/9)
Emily Stent, CFA (3/5)

Financials

D.J. Neiman, CFA, Partner³ (19/22)
Daniel Hill, CFA (16/16)
Kristin Rowland, CFA (9/23)
Paul O'Toole (<1, 3)

Healthcare

Thomas Sternberg, CFA, Partner (16/18)
Camilla Oxhamre Cruse, Ph.D. (6/15)
Richard Reznick, Ph.D. (10/10)
Jonathan Kaufman, CPA (5/5)

Industrials, Energy & Materials

Andrew Siepker, CFA, Partner (15/16)
Anil Daka, CFA (10/12)
Ben Loss, CFA (9/10)
Monika Budyn (8/12)
Esteban Gonzalez-Rosell (1/11)

Information Technology

Greg Scolaro, CFA, CPA (7/7)
Drew Buckley, CFA, CPA, Partner (12/14)
Jayesh Kannan, CFA (2/7)
Grant Parsons, CPA (1/5)
Kalpiti Shah, CFA (1/6)

Real Assets

Alaina Anderson, CFA, Partner (15/20)

China Generalists

Vivian Lin Thurston, CFA, Partner (6/24)
Richard Reznick, Ph.D. (10/10)

Strategy Research²

Hugo Scott-Gall, Partner(2/27)³
Olga Bitel, Partner (11/18)
Rita Spitz, CFA, Partner (34/42)
Alexa Davis (3/6)
Gurviri Grewal (2/6)

Systematic Research²

Spiro Voulgaris, Partner (13/30)
Andrew Kominik, CFA (18/21)
Anand Krishnakumar, CFA (5/17)
Andy Tang, CFA ((4/9)
Andrew Wickman, CFA (6/10)
Scott Akeson (6/6)
Kathy Matos (14/14)

Technologist

Darragh Grogan (13/15)

Trading⁵

Asia/Pacific

Nathan Fisher, CFA (6/17)
Daniel Iannessa (16/18)
Malik Nicholson (7/15)

Europe

Nicola Hynds (13/26)
Simon Johnstone (8/20)
Akos Reitz (1/5)

Americas and FX

Terry O'Bryan, Partner⁴ (14/23)

Portfolio & Trade Order Management

Joe Emanuele (4/6)
Tim Randick (13/13)

International Trade Data Specialists

Michael LaDuke (11/13)

(Years at William Blair/Years in Industry)

1. Portfolio Management team average 15 years at William Blair and 26 years in the industry. 2. Global Fundamental Research Team average 12 years at William Blair and 15 years in the industry. 3. D.J. Neiman and Hugo Scott-Gall also serve as Co-Directors of Research. 4. Terry O'Bryan also serves as the Head of Global Equity Trading. 5. Traders, excluding Portfolio and Trade Order Management and International Trade Specialists, average 9 years at William Blair and 17 years in the industry. *Italics indicate Associate role.* As of April 2021.

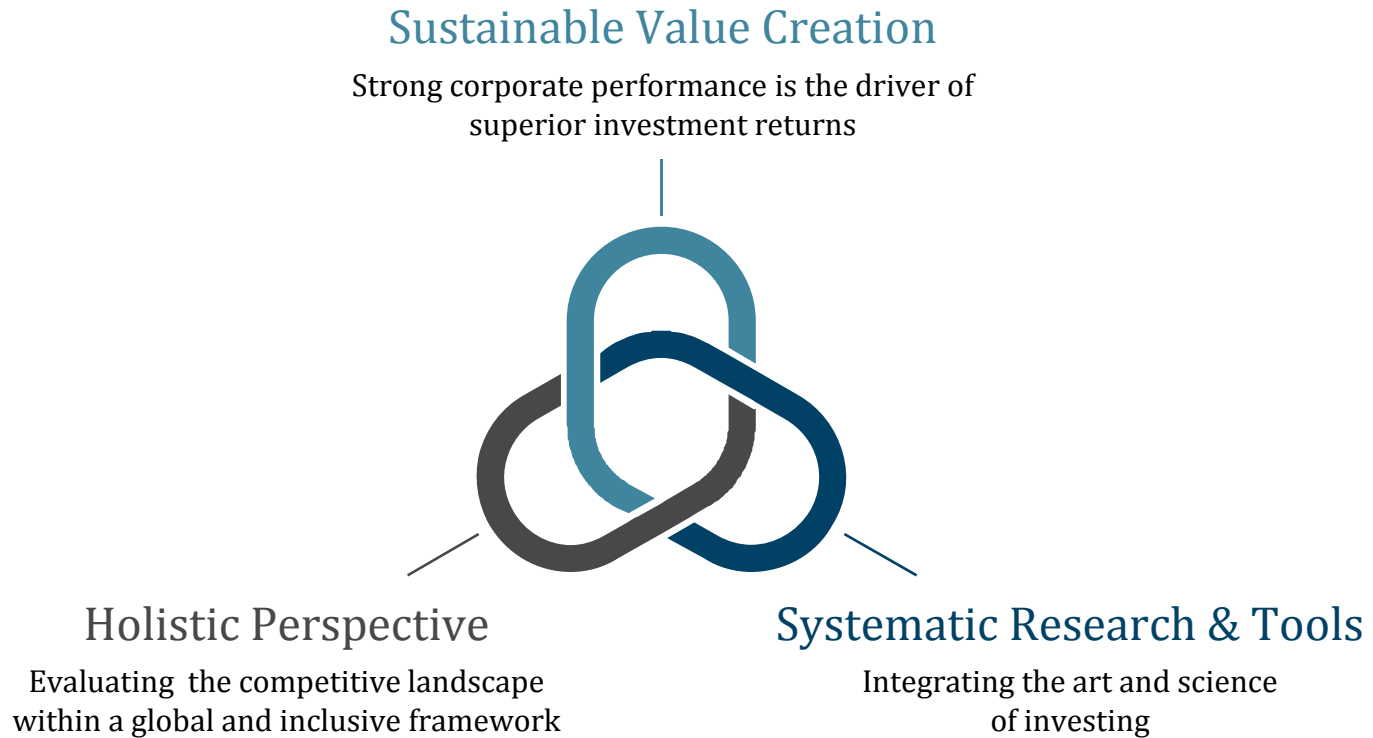
Philosophy and Process

Photos courtesy of Tommy Sternberg, Casey Preyss, Vivian Lin Thurston



Investment Philosophy

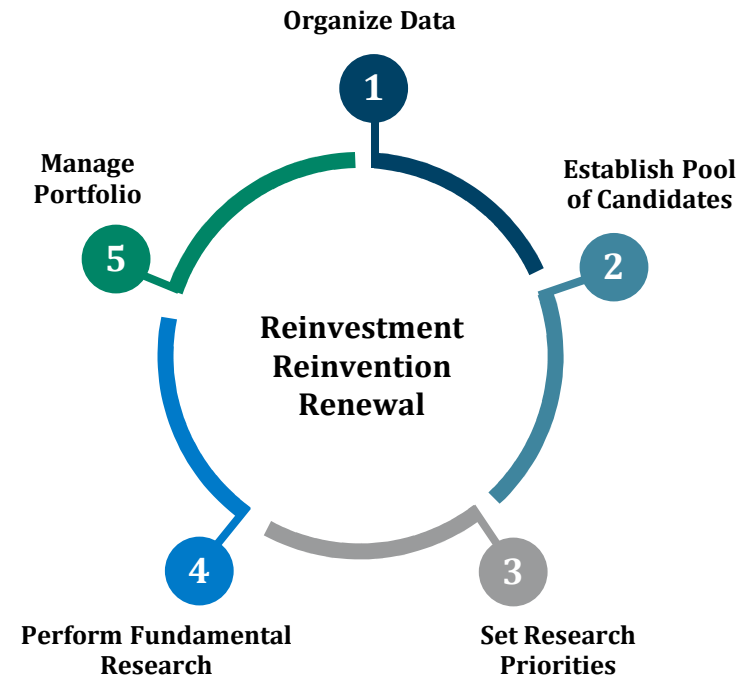
We believe an integrated investment platform directed towards identifying companies with strong corporate performance will drive superior long-term investment returns



Investment Process

Integrated Fundamental, Systematic and Strategy Research Throughout the Investment Process

- 1 Organize Data**
Rank order global universe of equities by fundamental and technical attributes and utilize systematic research to analyze information
- 2 Establish Pool of Candidates**
Create Eligibility List of 2,800- 3,000 companies through quantitative screens and fundamental analysis
- 3 Set Research Priorities**
Establish Research Agenda of 50-75 companies by identifying opportunities and risks through bottom up research, top down strategy, and portfolio objectives
- 4 Perform Fundamental Research**
Analyze sustainable value creation and determine if fundamentals appear poised to change
- 5 Manage Portfolio**
Weigh risk/reward of buy/sell decision to seek desired outcomes



Fund Attributes – Institutional International Growth Fund

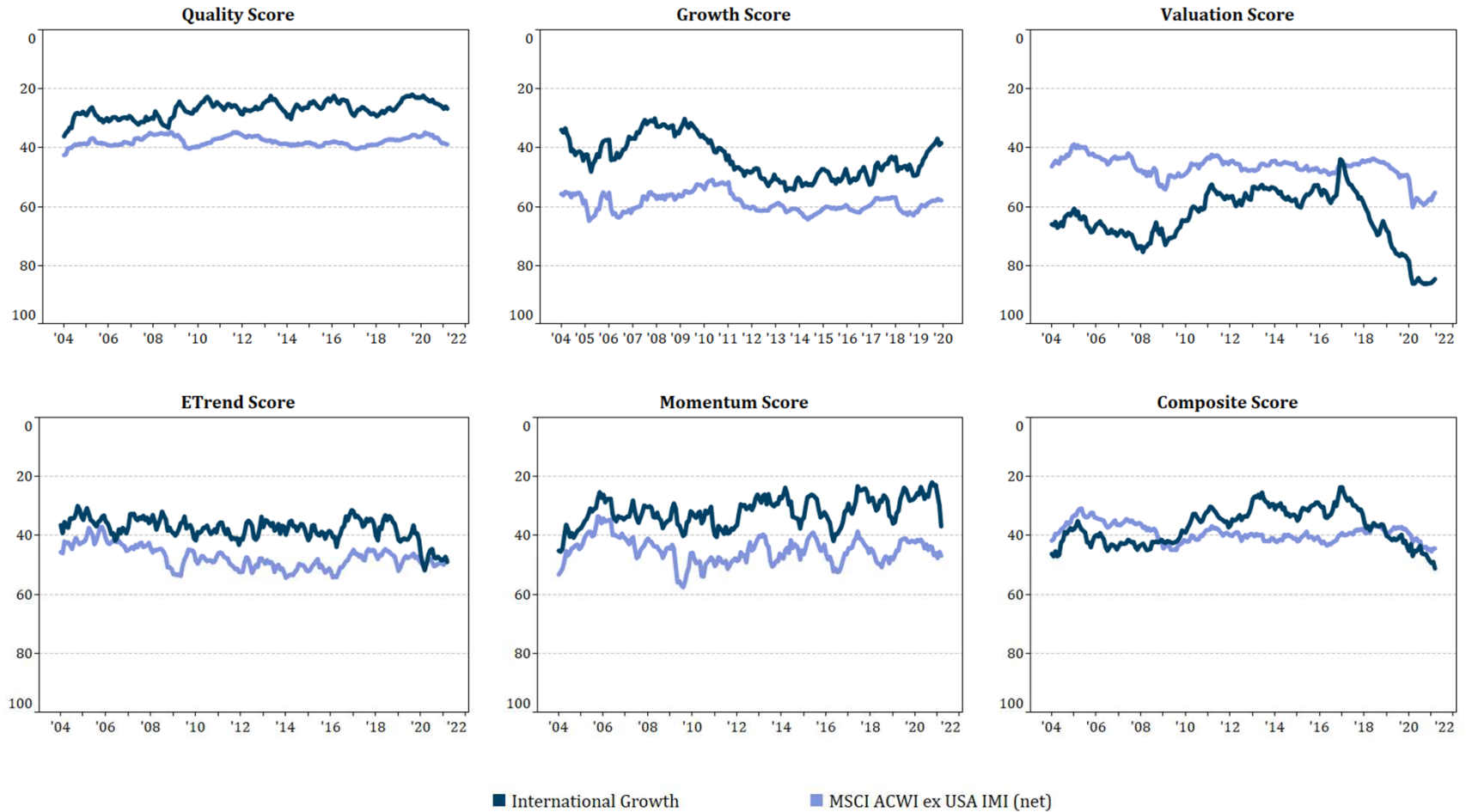
As of April 30, 2021

	Institutional International Growth Fund	MSCI AC World ex US IMI Index	Difference
Quality			
WB Quality Model (Percentile)	26	39	
Return on Equity (%)	15.6	12.2	28%
Cash Flow ROIC (%)	18.9	16.1	17%
Debt/Equity (%)	65.1	92.0	-29%
Growth			
WB Growth Model (Percentile)	41	54	
Long-Term Growth (%)	18.6	14.3	30%
5-Year Historic EPS Growth (%)	13.4	7.4	80%
Reinvestment Rate (%)	11.3	8.2	38%
Earnings Trend			
WB Earnings Trend Model (Percentile)	45	47	
EPS Est Rev Breadth (%)	20.3	11.3	9.1
Valuation			
WB Valuation Model (Percentile)	85	55	
P/E (Next 12 Months)	34.0	16.2	110%
Dividend Yield (%)	0.8	2.2	-65%
Other			
WB Composite Model (Percentile)	50	44	
Float-Adj. Weighted Average Market Cap (\$MM)	60,136	67,851	-11%
Number of Holdings	199	6,557	
Active Share	84.3	--	

The index is comparable to the fund in terms of investment approach but contains significantly more securities. Characteristics have been calculated by William Blair. The Morgan Stanley Capital International (MSCI) All Country World ex-US Investable Market Index (IMI) (Net) is a free float-adjusted market capitalization weighted index designed to measure global developed and emerging markets equity performance excluding the U.S. and is net of foreign withholding tax. An index is unmanaged, does not incur fees or expenses, and cannot be invested in directly. Not intended as investment advice.

International Growth Portfolio Characteristics

March 31, 2021



Aggregate scores shown above based on William Blair's quantitative model. For individual and composite ranks, 1 is best and 100 is worst.

Portfolio Analytics and Performance

Photos courtesy of Alaina Anderson and D.J. Neiman



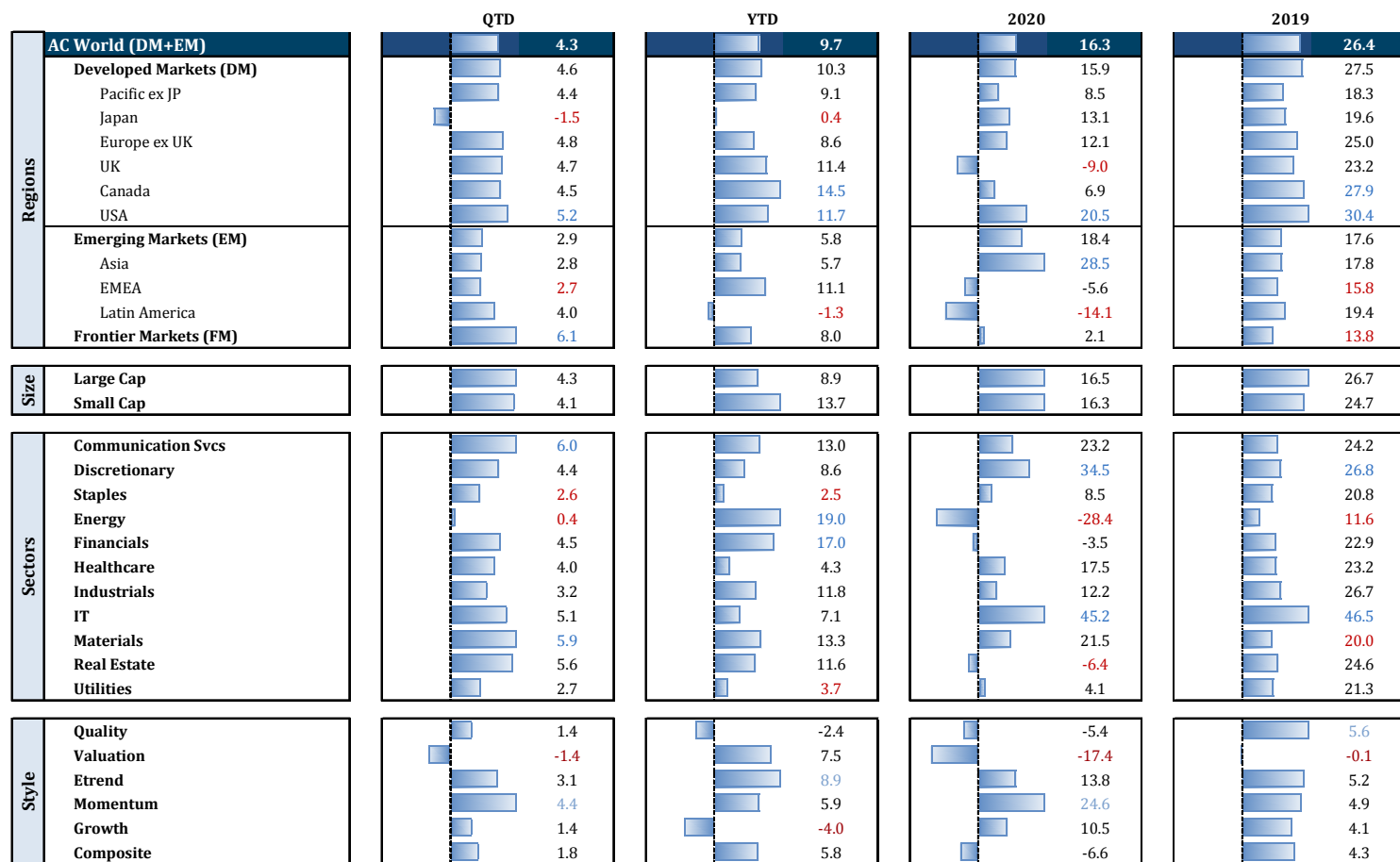
Barcelona



Tokyo

Market Performance – Global Equity Markets

April 30, 2021



Regional performance is based on IMI region/country indexes. Sector and style values are based on the MSCI ACWI IMI Index. Size values are based on the MSCI ACWI Index. Style values reflect the Quintile 1 minus Quintile 5 spread of William Blair's proprietary quantitative models. Sectors are based on Global Industry Classification (GICS) sectors. Large Cap and Small Cap based on MSCI Global Investable Market Index Methodology. Data in blue reflects the top 20% (highest) values by region, country, sector, and style. Data in red reflects the bottom 20% (lowest) values by region, country, sector, and style.

Past performance is not indicative of future returns. A direct investment in an unmanaged index is not possible. The Morgan Stanley Capital International (MSCI) All Country World IMI Index is an unmanaged index that includes developed markets and emerging markets. Calculated in FactSet. All index returns are net of dividends.

Performance Summary

For periods ending April 30, 2021

Performance (%)	YTD	1 Yr	Annualized			Since Inception (10/2/2003)
			3 Yr	5 Yr	10 Yr	
Institutional International Growth Fund	5.01	58.36	14.31	14.09	8.40	9.03
MSCI AC World ex-US IMI Index	7.06	44.94	7.08	9.95	4.94	7.64

Calendar Year Performance (%)	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Institutional Int'l. Growth Fund	32.47	30.75	-17.50	29.53	-2.40	0.09	-2.66	18.90	24.11	-13.66
MSCI AC World ex-US IMI Index	11.12	21.63	-14.76	27.81	4.41	-4.60	-3.89	15.82	17.04	-14.31

Calendar Year Performance (%)	2010	2009	2008	2007	2006	2005	2004	2003 ¹
Institutional Int'l. Growth Fund	20.10	42.83	-51.99	18.49	23.45	22.76	18.15	11.76
MSCI AC World ex-US IMI Index	12.73	43.60	-45.99	16.13	26.51	17.68	21.93	13.43

1. Fort Pierce Inception Date: 10/2/2003

Expense Ratio Gross: 0.99%. Expense ratio shown as of most recent prospectus.

Performance cited represents past performance. Past performance does not guarantee future results and current performance may be lower or higher than the data quoted. Returns shown assume reinvestment of dividends and capital gains. Investment returns and principal will fluctuate with market and economic conditions and you may have a gain or loss when you sell shares. For the most current month-end performance information, please call 1-800-742-7272, or visit our Web site at www.williamblairfunds.com. Institutional Class shares are available to certain institutional investors.

The Morgan Stanley Capital International (MSCI) AC World ex-U.S. IMI Index (net) is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets, excluding the United States. This series approximates the minimum possible dividend reinvestment. An index is unmanaged, does not incur fees or expenses, and cannot be invested in directly

City of Fort Pierce Retirement and Benefit System Portfolio

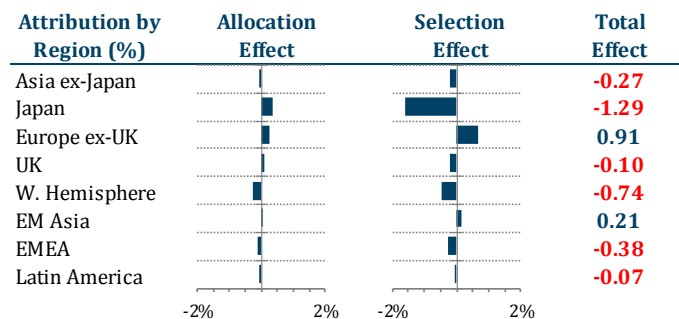
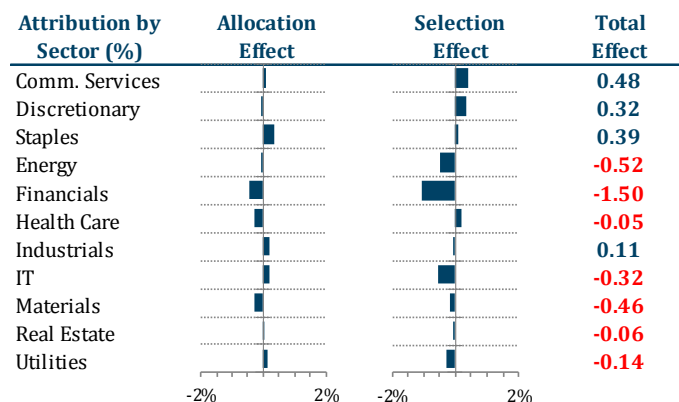
As of April 30, 2021

Original Investment (10/2/2003)	\$10,392,820
+ Contributions	\$9,800,000
- Withdrawals	-\$16,727,816
- (Investment Management Fees & Other Expenses ¹)	-\$2,223,929
+ Dividend Income and Capital Gain Distribution	\$14,608,464
+/- Market Appreciation/(Depreciation)	\$17,679,040
Market Value	\$33,528,579

1. The investment management fee and other expenses are estimates.

Performance Attribution YTD – Institutional International Growth Fund

As of April 30, 2021



Top 5 Contributors (%)

Security	Sector	Country	Contribution to Relative Return
Evolution Gaming Group AB	Discretionary	Sweden	0.49
MediaTek Inc	IT	Taiwan	0.48
DSV PANALPINA A/S	Industrials	Denmark	0.38
Ashtead Group PLC	Industrials	United Kingdom	0.29
ASML Holding NV	IT	Netherlands	0.28

Top 5 Detractors (%)

Security	Sector	Country	Contribution to Relative Return
Keyence Corp	IT	Japan	-0.34
Neste Oyj	Energy	Finland	-0.24
Orsted AS	Utilities	Denmark	-0.23
M3 Inc	Health Care	Japan	-0.23
Omron Corp	IT	Japan	-0.20

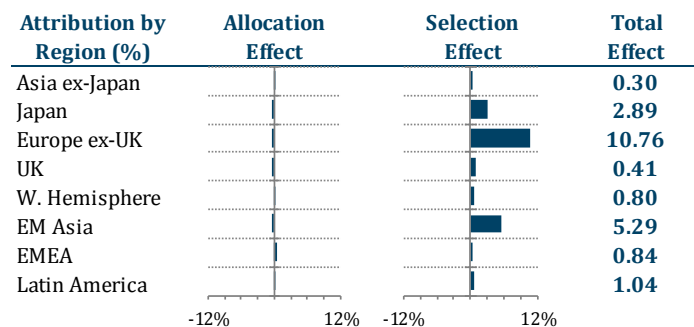
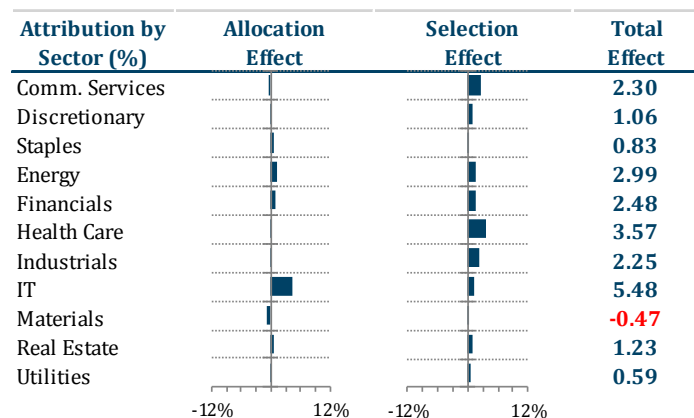
Performance cited represents past performance. Past performance does not guarantee future results and current performance may be lower or higher than the data quoted. Results shown assume reinvestment of dividends and capital gains. Investment returns and principal will fluctuate with market and economic conditions and you may have a gain or loss when you sell shares. For the most current month-end performance information, please call 1-800-742-7272, or visit our Web site at www.williamblairfunds.com.

Attribution by segment is based on estimated returns of equities held within the segments listed. All stocks held during a measurement period, including purchases and sales, are included. Cash is not allocated among segments. Calculations are for attribution analysis only and are not intended to represent simulated performance history. The actual returns may be higher or lower. We calculate attribution using our proprietary attribution system. Our proprietary attribution system runs transactions-based attribution, taking into account all trading activity. Interaction effect is reallocated into Selection effect. Sectors based on Global Industry Classification Sectors (GICS). Individual securities listed in this report are for informational purposes only. Holdings are subject to change at any time. This information does not constitute, and should not be construed as, investment advice or recommendations with respect to the securities listed.

The Morgan Stanley Capital International (MSCI) All Country World ex-US Investable Market Index (IMI) (Net) is a free float-adjusted market capitalization weighted index designed to measure global developed and emerging markets equity performance excluding the U.S. and is net of foreign withholding tax. An index is unmanaged, does not incur fees or expenses, and cannot be invested in directly.

Performance Attribution 2020 – Institutional International Growth Fund

As of December 31, 2020



Top 5 Contributors (%)

Security	Sector	Country	Contribution to Relative Return
Sea Ltd	Comm. Services	Thailand	1.04
Adyen NV	IT	Netherlands	1.02
Lonza Group AG	Health Care	Switzerland	0.87
Neste Oyj	Energy	Finland	0.70
Keyence Corp	IT	Japan	0.65

Top 5 Detractors (%)

Security	Sector	Country	Contribution to Relative Return
Airbus SE	Industrials	France	-0.44
Compass Group PLC	Discretionary	United Kingdom	-0.36
Macquarie Group Ltd	Financials	Australia	-0.26
Melrose Industries PLC	Industrials	United Kingdom	-0.24
Amadeus IT Group SA	IT	Spain	-0.22

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International Growth Strategy Performance in Various Environments

Arithmetic Avg Quarterly Return (%)

		<u>Portfolio (Gross)</u>	<u>Benchmark</u>	
All Quarters (4Q96 - 1Q21)		3.1	1.9	
<i>Quarters in which:</i>	<i>Outperformance</i>			
Index Rose	✓	9.1	7.6	(61/98 Qs)
Index Declined	✓	-6.8	-7.7	(37/98 Qs)
MSCI Growth (Net) Outperformed	✓	4.3	2.0	(52/98 Qs)
MSCI Value(Net) Outperformed	✓	1.8	1.7	(46/98 Qs)
MSCI Small Cap (Net) Outperformed	✓	5.3	3.9	(54/98 Qs)
MSCI EAFE (Net) Outperformed	✓	-1.7	-2.5	(41/98 Qs)
MSCI EM IMI (Net) Outperformed	✓	6.7	5.0	(52/98 Qs)

Consistent outperformance in a variety of market environments. Annualized return (gross) of 10.57% vs. 5.54% for the benchmark since we began managing international equity in house (October 1, 1996).

Composite Inception is December 1, 1992. Data above reflects since inception of the strategy's current management style. At this time, changes were made to the portfolio management team and the way the philosophy was implemented. Actual composite inception precedes this date. This information is supplemental to the composite disclosure slide located in the appendix.

Past performance is not indicative of future returns. Performance is shown in U.S. dollar unless otherwise noted. Returns for periods greater than one year are annualized. Gross performance results shown do not reflect the deduction of investment management fees, assume the reinvestment of dividends and capital gains, and are net of transaction costs. Performance results will be reduced by the fees incurred in the management of the account. For example, assuming an annual gross return of 8% and an annual management/advisory fee of .40%, the net annualized total return of the portfolio would be 7.58% over a 5-year period. Net investment performance represents the deduction of the highest possible fee. Investment management fees are described in William Blair's Form ADV Part 2A. The benchmark that best reflects the composite's investment strategy is the MSCI All Country World Ex US Investable Market Index (net), which is a free float-adjusted market capitalization index that is designed to measure equity market performance, net of withholding taxes, in the global developed and emerging markets, excluding the US. Prior to 1995, the MSCI All Country World Ex US Index preceded the current benchmark as returns are unavailable back to composite inception for the current benchmark. International investing involves special risk considerations, including currency fluctuations, lower liquidity, economic and political risk. Based on data from the William Blair International Growth Fund, which is closed to new investors. Calculations are for attribution analysis only and are not intended to represent simulated performance history. Regional attribution is based on estimated US\$ price-only returns of equities held within regions for the period Q4 1996 to Q3 2003. Beginning Q3 2003, the returns represent the estimated total equity-only returns of securities held within regions. All stocks held during a measurement period, including purchases and sales, are included. Cash is not allocated among regions and all returns are exclusive of cash. A rounding discrepancy may occur when calculating backup data. Please see GIPS Composite Report in appendix for a complete description of the composite.

International Growth Strategy

Performance analysis by geography

Oct 1 96 to Mar 31 21	Portfolio (Gross)	Index
United Kingdom		
Cumulative	729.8%	287.8%
Annualized	9.0%	5.7%
Europe + ME ex-UK		
Cumulative	1178.7%	411.3%
Annualized	11.0%	6.9%
Japan		
Cumulative	296.7%	83.0%
Annualized	5.8%	2.5%
Pacific ex-Japan		
Cumulative	521.6%	437.7%
Annualized	7.7%	7.1%
Canada		
Cumulative	1108.2%	599.1%
Annualized	10.7%	8.3%

Composite Inception is December 1, 1992. Data above reflects since inception of the strategy's current management style. At this time, changes were made to the portfolio management team and the way the philosophy was implemented. Actual composite inception precedes this date. This information is supplemental to the composite disclosure slide located in the appendix.

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International Growth Strategy

Performance analysis by subsector

Oct 1 96 to Mar 31 21	Portfolio (Gross)	Index
Developed Large/Mid Cap¹		
Cumulative	971.0%	237.5%
Annualized	10.2%	5.1%
Developed Small Cap²		
Cumulative	1365.6%	377.1%
Annualized	11.6%	6.6%
Emerging Markets³		
Cumulative	1824.3%	275.7%
Annualized	12.8%	5.6%

Composite Inception is December 1, 1992. Data above reflects since inception of the strategy's current management style. At this time, changes were made to the portfolio management team and the way the philosophy was implemented. Actual composite inception precedes this date. This information is supplemental to the composite disclosure slide located in the appendix.

Past performance is not indicative of future returns. Performance is shown in U.S. dollar unless otherwise noted. Returns for periods greater than one year are annualized. Gross performance results shown do not reflect the deduction of investment management fees, assume the reinvestment of dividends and capital gains, and are net of transaction costs. Performance results will be reduced by the fees incurred in the management of the account. For example, assuming an annual gross return of 8% and an annual management/advisory fee of .40%, the net annualized total return of the portfolio would be 7.58% over a 5-year period. Net investment performance represents the deduction of the highest possible fee. Investment management fees are described in William Blair's Form ADV Part 2A. The benchmark that best reflects the composite's investment strategy is the MSCI All Country World Ex US Investable Market Index (net), which is a free float-adjusted market capitalization index that is designed to measure equity market performance, net of withholding taxes, in the global developed and emerging markets, excluding the US. Prior to 1995, the MSCI All Country World Ex US Index preceded the current benchmark as returns are unavailable back to composite inception for the current benchmark. International investing involves special risk considerations, including currency fluctuations, lower liquidity, economic and political risk. Based on data from the William Blair International Growth Fund. Calculations are for attribution analysis only and are not intended to represent simulated performance history. Prior to Q3 1998, small cap is defined as companies with a market capitalization of under \$1 billion. From Q3 1998 to Q4 2003, small cap is defined as companies with a market capitalization of under \$1.5 billion. From Q4 2003 to Q4 2007, small cap is defined as companies with a market capitalization of under \$2 billion. Beginning Q4 2007, small cap is defined as companies with a market capitalization of under \$3 billion. Beginning with Q3 2014, small cap is defined as companies with a market capitalization of under \$4 billion, mid cap is adjusted to \$4 billion to \$15 billion, and large cap to over \$15 billion. For the Large/Mid Cap and Small Cap Segments, is a price-only estimate based on the average month-end market values during the quarter prior for Q4 1998. From Q4 1998 to Q4 1999, Large/Mid Cap and Small Cap segment performance is a total-return estimate based on a monthly buy-and-hold calculation. Beginning Q1 2000, Large/Mid Cap and Small Cap segment performance is a total return estimate based on a daily buy-and-hold calculation. Developed market companies without readily available market capitalization data and cash are excluded. Emerging markets return data represents the returns of the Emerging Markets Growth composite until 1/1/2007 and then the emerging portion of international growth thereafter. Indices: (1) MSCI EAFE; (2) MSCI World ex-US Small Cap (Net); (3) MSCI EM IMI. For consistency, index returns prior to Q4 1998 are price-only except for emerging markets. Beginning with Q4 1998, index returns are total return. Source: FactSet Portfolio Analysis and SPAR. Please see GIPS Composite Report in appendix for a complete description of the composite.

Positioning and Strategy

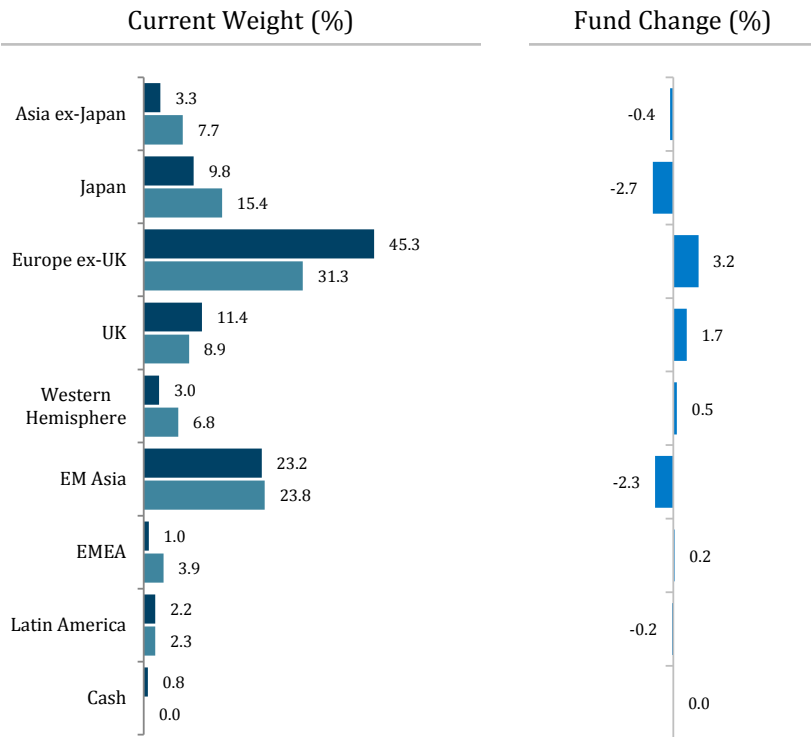
Photos courtesy of Ken McAtamney, Drew Buckley, Joel Gomberg, Andy Flynn and Jack Murphy



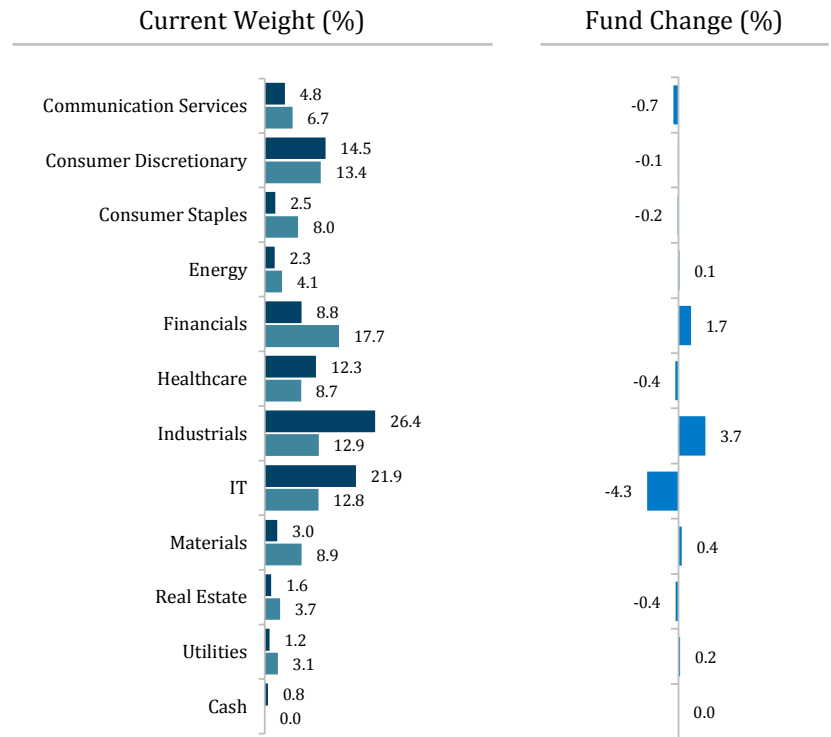
Fund Positioning – Institutional International Growth Fund

For Periods Ending April 30, 2021

Regional Exposure



Sectoral Exposure



Institutional International Growth Fund
 Difference From Previous Year End

 MSCI AC World ex-US IMI

Cash incorporates cash equivalents and accruals. Region and sector distribution calculated in Eagle based on Global Industry Classification (GICS) Sectors. Holdings are subject to change at any time. The Morgan Stanley Capital International (MSCI) All Country World ex-US Investable Market Index (IMI) (Net) is a free float-adjusted market capitalization weighted index designed to measure global developed and emerging markets equity performance excluding the U.S. and is net of foreign withholding tax. An index is unmanaged, does not incur fees or expenses, and cannot be invested in directly. Not intended as investment advice.

Top Fund Holdings and Changes – Institutional International Growth Fund

As of April 30, 2021

Security Name	Country	Sector	Portfolio Weight
Dsv Panalpina A/S	Denmark	Industrials	2.00
Asml Holding Nv	Netherlands	Information Technology	1.92
Aia Group Ltd	Hong Kong	Financials	1.84
Atlas Copco Ab	Sweden	Industrials	1.72
Lvmh Moet Hennessy Louis Vuitt	France	Consumer Discretionary	1.65
Airbus Se	France	Industrials	1.63
Taiwan Semiconductor Manufactu	Taiwan	Information Technology	1.59
Ashtead Group Plc	United Kingdom	Industrials	1.59
Sika Ag	Switzerland	Materials	1.55
Canadian National Railway Co	Canada	Industrials	1.55
Total			17.04

Top Portfolio Changes During the Year¹

	Security Name	Country	Sector
Purchases	Ryanair Holdings Plc-Sp Adr	Ireland	Industrials
	Edp Renovaveis Sa	Spain	Utilities
	Interglobe Aviation Ltd	India	Industrials
	Cts Eventim Ag & Co Kga	Germany	Communication Services
	Canada Goose Holdings Inc	Canada	Consumer Discretionary
Liquidations	Stmicroelectronics Nv	Switzerland	Information Technology
	Novo Nordisk A/S-B	Denmark	Health Care
	Csl Ltd	Australia	Health Care
	Shenzhou International Group	China	Consumer Discretionary
	Goodman Group	Australia	Real Estate

1. Reflects largest purchases and sales during the year.

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Holdings: Institutional International Growth Fund

March 31, 2021

	Portfolio Weight		Portfolio Weight		Portfolio Weight
Pacific Ex Japan	3.17	Japan (continued)		Europe+ME Ex UK (continued)	
Australia	1.31	Japan (continued)		Germany	6.03
Atlassian Corp Plc-Class A	0.57	Shift Inc	0.16	Mtu Aero Engines AG	1.36
Aristocrat Leisure Ltd	0.50	Base Inc	0.16	Infineon Technologies AG	1.16
Pro Medicus Ltd	0.14	Bengo4.Com Inc	0.11	Puma Se	0.68
Netwealth Group Ltd	0.10	Europe+ME Ex UK	44.41	Vonovia Se	0.57
Hong Kong	1.86	Belgium	0.25	Hellofresh Se	0.48
Aia Group Ltd	1.86	Warehouses De Pauw Sca	0.25	Kion Group AG	0.39
Japan	10.43	Denmark	4.19	Carl Zeiss Meditec Ag - Br	0.39
Japan	10.43	Dsv Panalpina A/S	1.87	Cts Eventim Ag & Co Kгаа	0.26
Smc Corp	1.24	Orsted A/S	0.64	Compugroup Medical Se & Co K	0.23
Daikin Industries Ltd	1.04	Genmab A/S	0.57	Teamviewer AG	0.20
Keyence Corp	1.01	Coloplast-B	0.41	Hypoport Se	0.16
Olympus Corp	0.82	Chr Hansen Holding A/S	0.29	Nemetschek Se	0.15
Omron Corp	0.75	Netcompany Group As	0.23	Ireland	2.03
Hoya Corp	0.67	Royal Unibrew	0.19	Ryanair Holdings Plc-Sp Adr	0.73
M3 Inc	0.59	Finland	0.88	Kingspan Group PLC	0.70
Nihon M&A Center Inc	0.48	Neste Oyj	0.88	Icon PLC	0.60
Monotaro Co Ltd	0.42	France	9.76	Israel	0.99
Tis Inc	0.35	Airbus Se	1.63	Wix.Com Ltd	0.61
Asahi Intecc Co Ltd	0.33	Lvmh Moet Hennessy Louis Vui	1.55	Cyberark Software Ltd/Israel	0.21
Nomura Research Institute Lt	0.32	Teleperformance	1.23	Inmode Ltd	0.17
Technopro Holdings Inc	0.30	Safran SA	1.20	Italy	0.61
Gmo Payment Gateway Inc	0.27	Kering	1.17	Moncler Spa	0.24
Food & Life Companies Ltd	0.27	L'Oreal	0.97	Amplifon Spa	0.22
Disco Corp	0.26	Dassault Systemes Se	0.77	Brunello Cucinelli Spa	0.15
Misumi Group Inc	0.25	Sartorius Stedim Biotech	0.44	Luxembourg	0.62
Harmonic Drive Systems Inc	0.23	Hermes International	0.42	Eurofins Scientific	0.62
Benefit One Inc	0.21	Worldline SA	0.39	Netherlands	3.72
Rakus Co Ltd	0.18			Asml Holding NV	1.91

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Holdings: Institutional International Growth Fund

March 31, 2021

	Portfolio Weight		Portfolio Weight		Portfolio Weight
Europe+ME Ex UK (continued)		Europe+ME Ex UK (continued)		UK (continued)	
Netherlands (continued)		Switzerland (continued)		United Kingdom (continued)	
Adyen NV	1.07	Partners Group Holding AG	1.10	Aveva Group PLC	0.30
Be Semiconductor Industries	0.30	Lonza Group Ag-Reg	1.07	Renishaw PLC	0.23
Imcd NV	0.26	Straumann Holding Ag-Reg	0.74	Softcat PLC	0.22
Euronext NV	0.19	Logitech International-Reg	0.37	Diploma PLC	0.21
Norway	0.69	Vat Group AG	0.31	Trainline PLC	0.21
Tomra Systems Asa	0.36	Temenos Ag - Reg	0.30	Boohoo Group PLC	0.19
Scatec Asa	0.19	Sig Combibloc Group AG	0.30	Big Yellow Group PLC	0.18
Pexip Holding Asa	0.14	Tecan Group Ag-Reg	0.26	Abcam PLC	0.11
Spain	1.82	Siegfried Holding Ag-Reg	0.23	Ceres Power Holdings PLC	0.11
Amadeus It Group SA	1.32	Belimo Holding Ag-Reg	0.18	W Hemisphere	3.21
Edp Renovaveis SA	0.36	Softwareone Holding AG	0.17	Canada	3.21
Solaria Energia Y Medio Ambi	0.14	Zur Rose Group AG	0.17	Canadian Natl Railway Co	1.77
Sweden	6.04	UK	11.17	Lululemon Athletica Inc	0.71
Atlas Copco Ab-A Shs	1.83	United Kingdom	11.17	Canada Goose Holdings Inc	0.27
Hexagon Ab-B Shs	1.10	Ashtead Group PLC	1.56	Kinaxis Inc	0.17
Evolution Gaming Group	0.84	Compass Group PLC	1.14	Toromont Industries Ltd	0.16
Indutrade AB	0.38	London Stock Exchange Group	0.88	Enghouse Systems Ltd	0.13
Nibe Industrier Ab-B Shs	0.32	Experian PLC	0.77	EM Asia	23.40
Investment Ab Latour-B Shs	0.26	Croda International PLC	0.73	China	12.46
Lifco Ab-B Shs	0.24	Halma PLC	0.71	Tencent Holdings Ltd	1.57
Beijer Ref AB	0.22	Spirax-Sarco Engineering PLC	0.61	Ping An Insurance Group Co-H	1.35
Nolato Ab-B Shs	0.20	Rentokil Initial PLC	0.57	Alibaba Group Holding Ltd	1.34
Thule Group Ab/The	0.20	Segro PLC	0.56	Wuxi Biologics Cayman Inc	0.87
Sweco Ab-B Shs	0.17	Intermediate Capital Group	0.44	Netease Inc	0.63
Addtech Ab-B Shares	0.15	Intertek Group PLC	0.40	Li Ning Co Ltd	0.59
Vitrolife AB	0.12	3i Group PLC	0.35	Meituan-Class B	0.58
Switzerland	6.78	Avast PLC	0.35	Jd.Com Inc - Cl A	0.57
Sika Ag-Reg	1.58	Rotork PLC	0.34	Tal Education Group- Adr	0.43

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Holdings: Institutional International Growth Fund

March 31, 2021

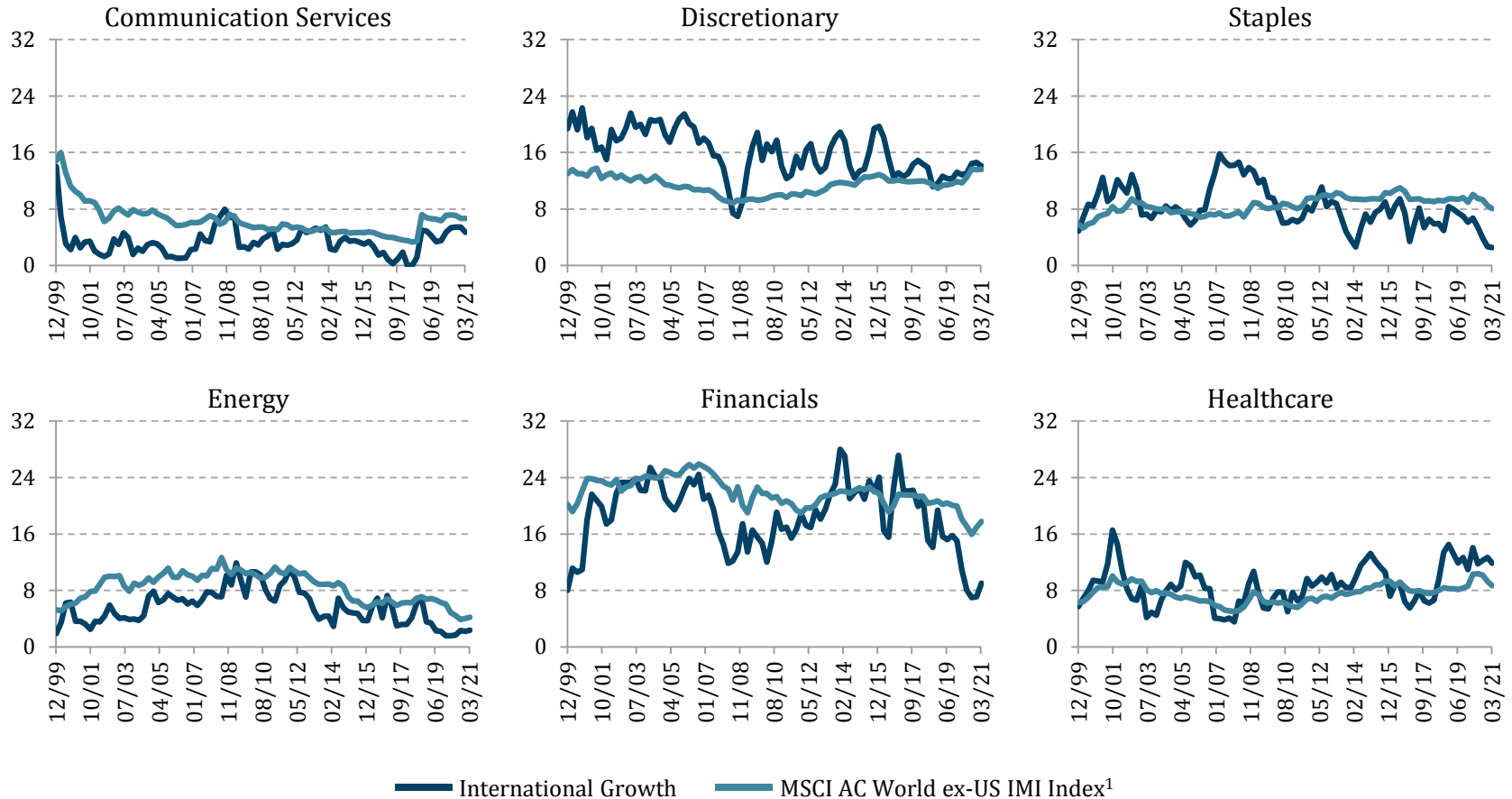
	Portfolio Weight		Portfolio Weight		Portfolio Weight
EM Asia (continued)		EM Asia (continued)		Latin America (continued)	
China (continued)		India (continued)		Argentina (continued)	
Kweichow Moutai Co Ltd-A	0.39	Pidilite Industries Ltd	0.16	Globant SA	0.27
Country Garden Services Hold	0.38	Ipca Laboratories Ltd	0.13	Brazil	1.14
Hangzhou Tigermed Consulti-A	0.36	Reliance Industries-Partly P	0.03	B3 Sa-Brasil Bolsa Balcao	0.35
Foshan Haitian Flavouring -A	0.33	Indonesia	1.15	Magazine Luiza SA	0.29
Aier Eye Hospital Group Co-A	0.31	Bank Central Asia Tbk Pt	1.15	Locaweb Servicos De Internet	0.28
Topchoice Medical Corporat-A	0.28	South Korea	1.05	Notre Dame Intermed Par SA	0.23
Silergy Corp	0.28	Samsung Sdi Co Ltd	0.54	Mexico	0.19
Wuxi Apptec Co Ltd-A	0.26	Kakao Corp	0.51	Grupo Aeroportuario Sur-Adr	0.19
Shenzhen Mindray Bio-Medic-A	0.25	Taiwan	3.73	Cash	1.05
Centre Testing Intl Group-A	0.23	Taiwan Semiconductor-Sp Adr	1.71	Total	100.00
Tencent Music Entertainm-Adr	0.21	Mediatek Inc	1.17		
Proya Cosmetics Co Ltd-A	0.18	Globalwafers Co Ltd	0.29		
Offcn Education Technology-A	0.17	Airtac International Group	0.21		
Naura Technology Group Co-A	0.16	Advantech Co Ltd	0.21		
Venus Medtech Hangzhou Inc-H	0.15	Asmedia Technology Inc	0.15		
Chacha Food Co Ltd-A	0.15	Thailand	1.04		
Weimob Inc	0.14	Sea Ltd-Adr	0.77		
Will Semiconductor Co Ltd-A	0.13	Carabao Group Pcl-F	0.14		
A-Living Smart City Services	0.13	Airports Of Thailand Pcl-For	0.13		
Ak Medical Holdings Ltd	0.04	EMEA	0.95		
India	3.98	Poland	0.46		
Reliance Industries Ltd	1.47	Allegro.Eu SA	0.27		
Hdfc Bank Limited	1.08	Inpost SA	0.19		
Interglobe Aviation Ltd	0.29	Russia	0.49		
Dr Lal Pathlabs Ltd	0.25	Yandex Nv-A	0.49		
Havells India Ltd	0.20	Latin America	2.22		
Crompton Greaves Consumer El	0.19	Argentina	0.89		
Info Edge India Ltd	0.17	Mercadolibre Inc	0.62		

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Historical International Growth Sector Weightings

As of March 31, 2021

% of Portfolio



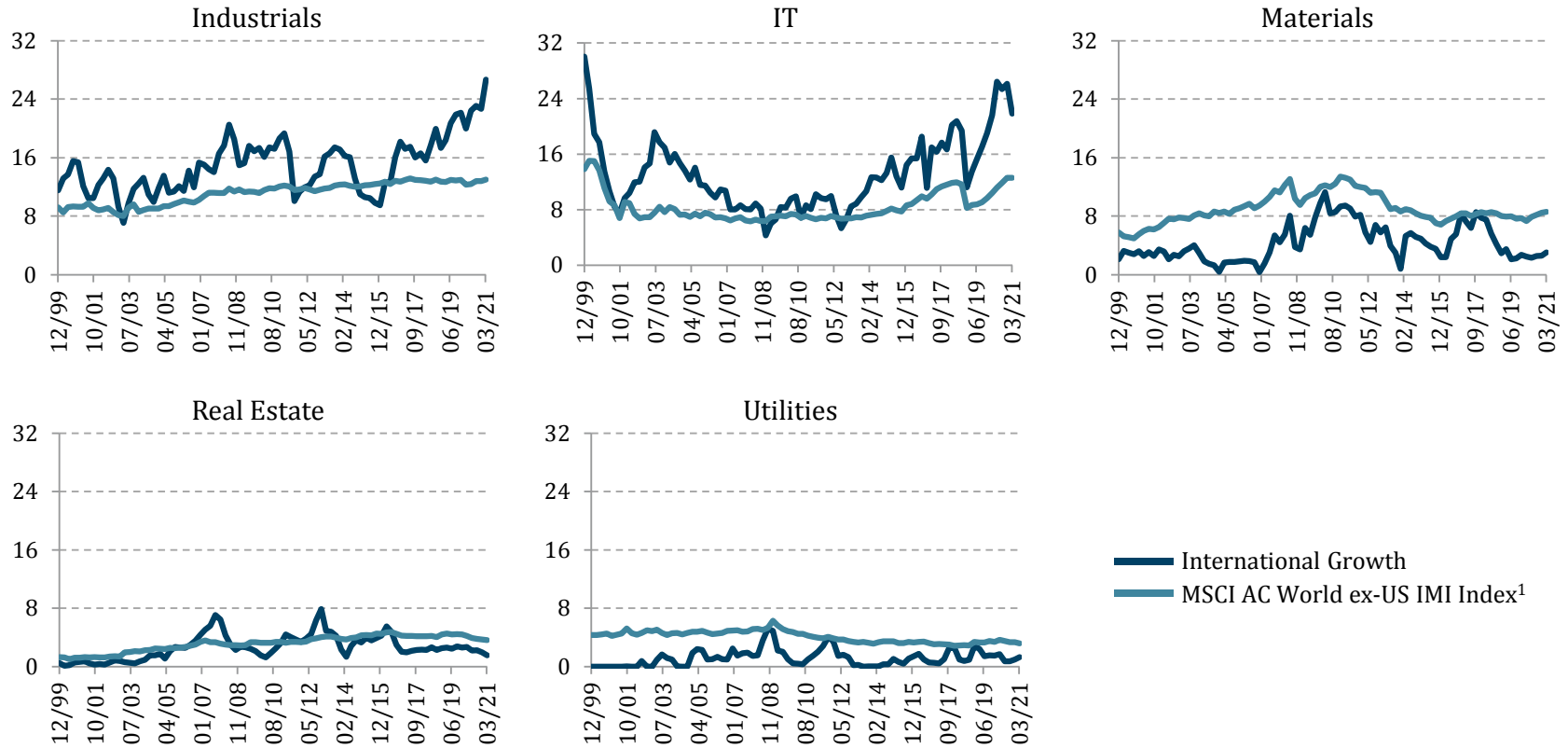
¹Prior to March 31, 2003, benchmark data is taken from the MSCI AC World ex-US Index.

The data shown above is based on the strategy's representative portfolio. Calculated in Eagle. The index is comparable to the strategy in terms of investment approach but contains significantly more securities. Cash incorporates cash equivalents and accruals. Cash is a residual of the stock selection process. Sectors based on GICS (Global Industry Classification Sectors).

Historical International Growth Sector Weightings

As of March 31, 2021

% of Portfolio



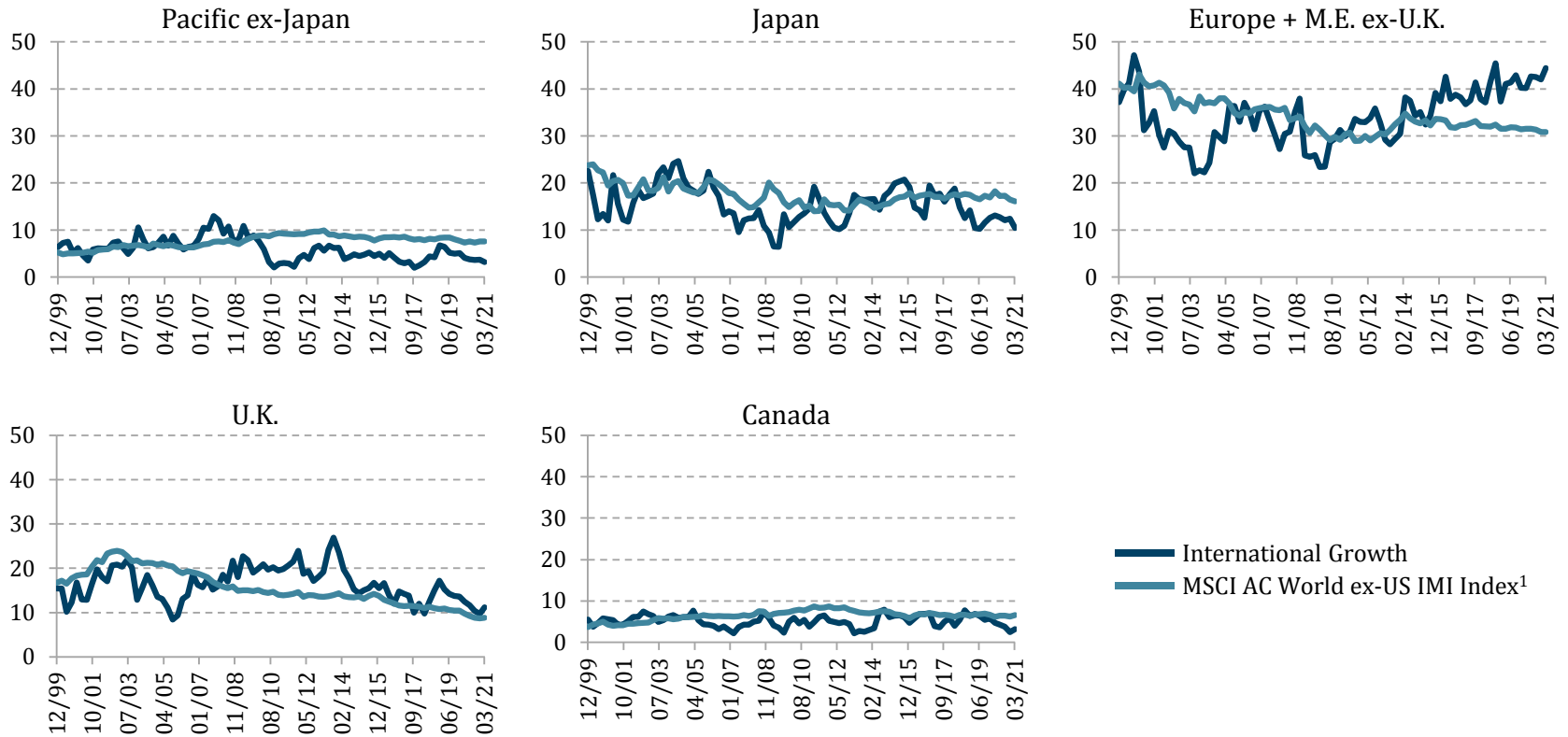
¹Prior to March 31, 2003, benchmark data is taken from the MSCI AC World ex-US Index.

The data shown above is based on the strategy's representative portfolio. Calculated in Eagle. The index is comparable to the strategy in terms of investment approach but contains significantly more securities. Cash incorporates cash equivalents and accruals. Cash is a residual of the stock selection process. Sectors based on GICS (Global Industry Classification Sectors).

Historical International Growth Regional Weightings

As of March 31, 2021

% of Portfolio



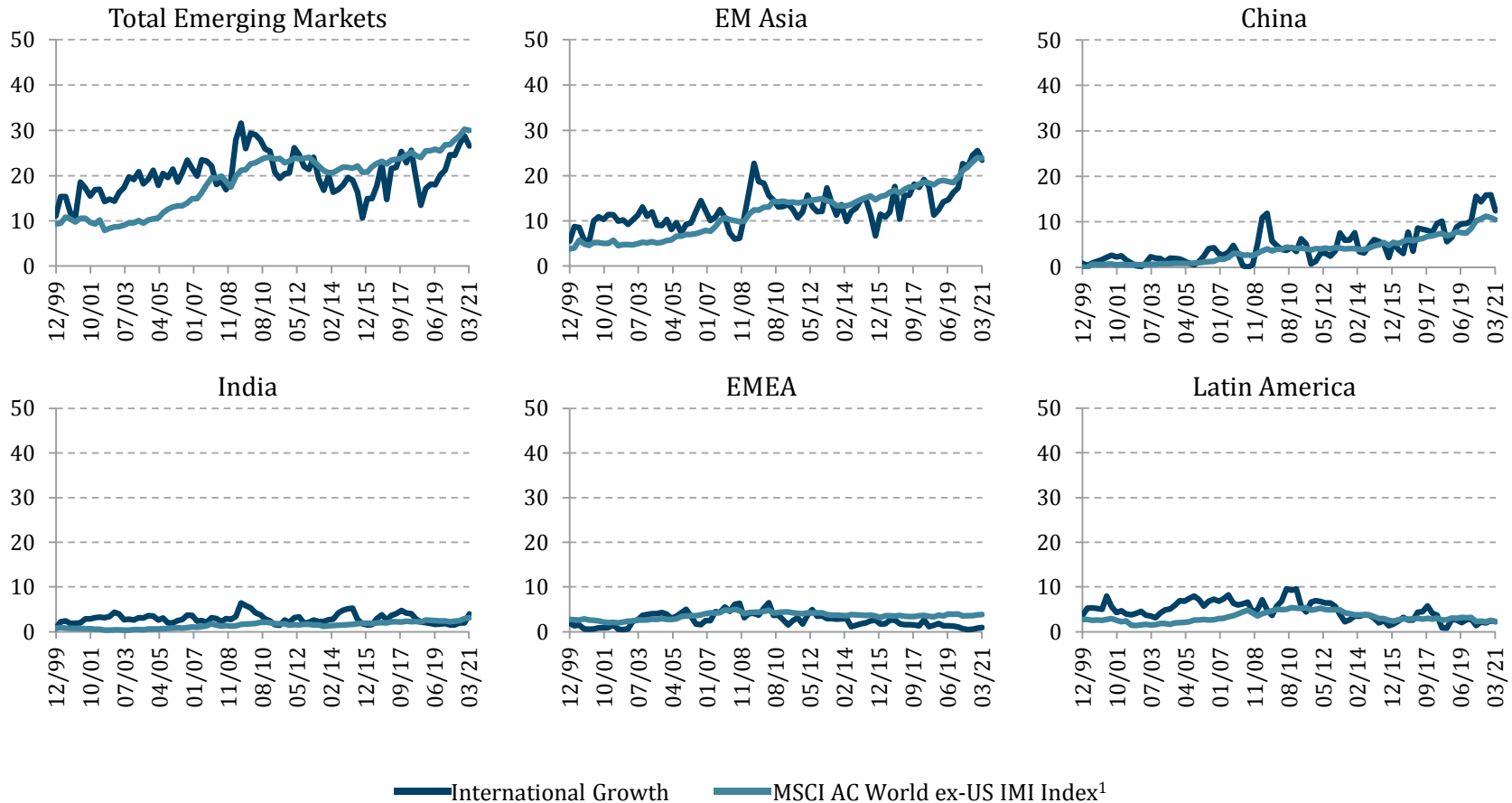
¹Prior to March 31, 2003, benchmark data is taken from the MSCI AC World ex-US Index.

The data shown above is based on the strategy's representative portfolio. Calculated in Eagle. The index is comparable to the strategy in terms of investment approach but contains significantly more securities. Cash incorporates cash equivalents and accruals. Cash is a residual of the stock selection process.

Historical International Growth Regional Weightings

As of March 31, 2021

% of Portfolio



¹Prior to March 31, 2003, benchmark data is taken from the MSCI AC World ex-US Index.

The data shown above is based on the strategy's representative portfolio. Calculated in Eagle. The index is comparable to the strategy in terms of investment approach but contains significantly more securities. Cash incorporates cash equivalents and accruals. Cash is a residual of the stock selection process.

Historical International Growth Market Cap Weightings

As of March 31, 2021

% of Portfolio



¹Prior to March 31, 2003, benchmark data is taken from the MSCI AC World ex-US Index.

Beginning with 3Q 1998, market caps were defined by small, mid, and large caps as \$1.5 billion, \$1.5 billion to \$10 billion, and over \$10 billion, respectively. Beginning with 1Q 2004, these figures were adjusted to \$2 billion, \$2 billion to \$12 billion, and over \$12 billion. Beginning with 4Q 2007, these figures were adjusted to \$3 billion, \$3 billion to \$15 billion, and over \$15 billion. Beginning with 3Q 2014, these figures were adjusted to \$4 billion, \$4 billion to \$15 billion, and over \$15 billion. Beginning with 1Q2021, these figures were adjusted to \$5 billion, \$5 billion to \$20 billion, and over \$20 billion. The data shown above is based on the strategy's representative portfolio. Calculated in Eagle. The index is comparable to the strategy in terms of investment approach but contains significantly more securities. Cash incorporates cash equivalents and accruals. Cash is a residual of the stock selection process.

Market Overview/Strategy

Photos courtesy of Vivian Lin Thurston and Andrew Siepker



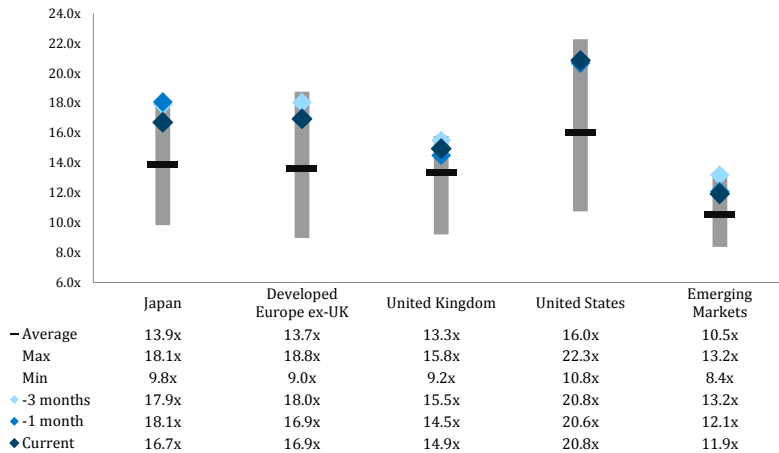
London



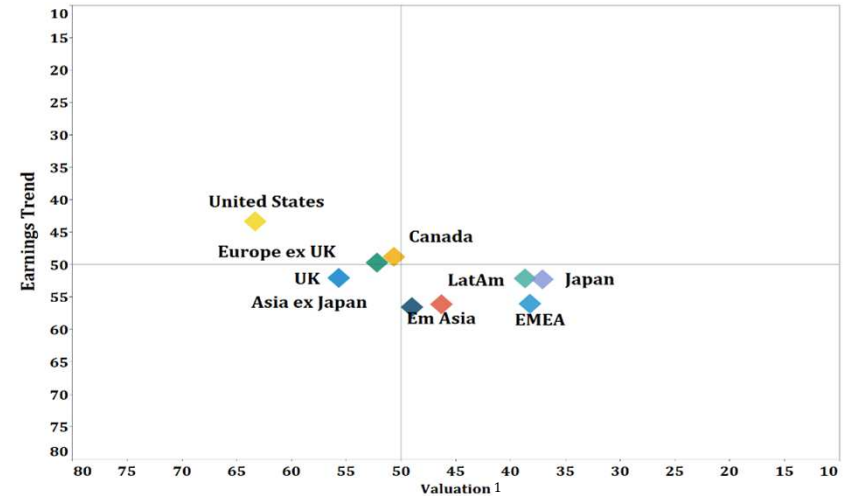
Mumbai

Global Equity Market Environment

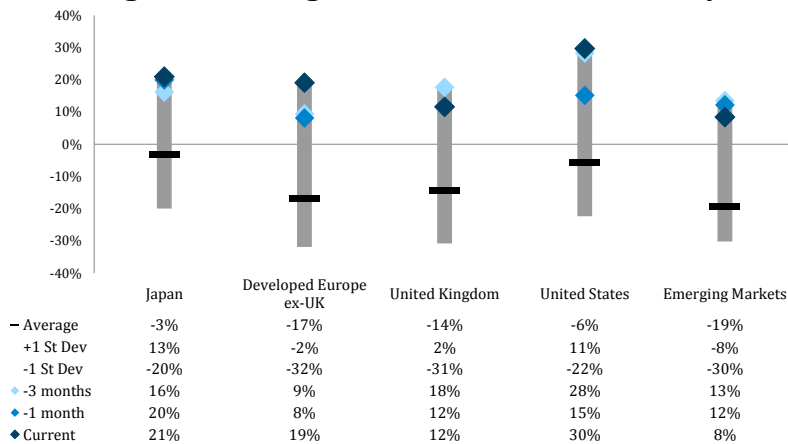
Regional Valuations FY2 P/E vs 10 Year History



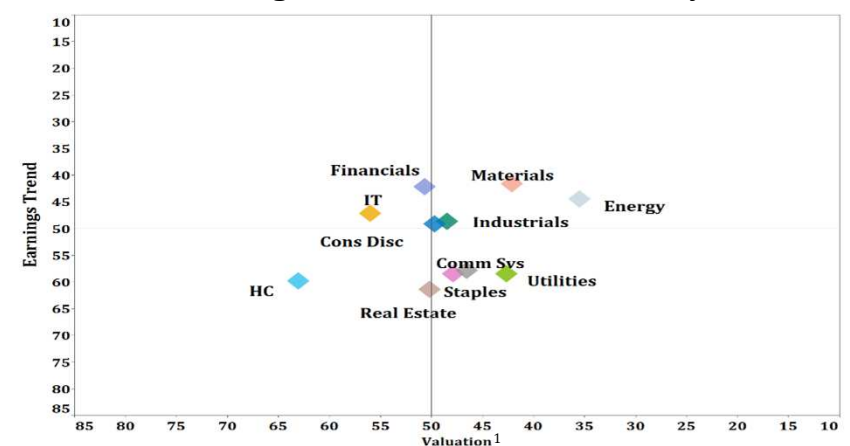
Global Earnings Trend and Valuation Score by Region



Regional Earnings Revisions vs 10 Year History



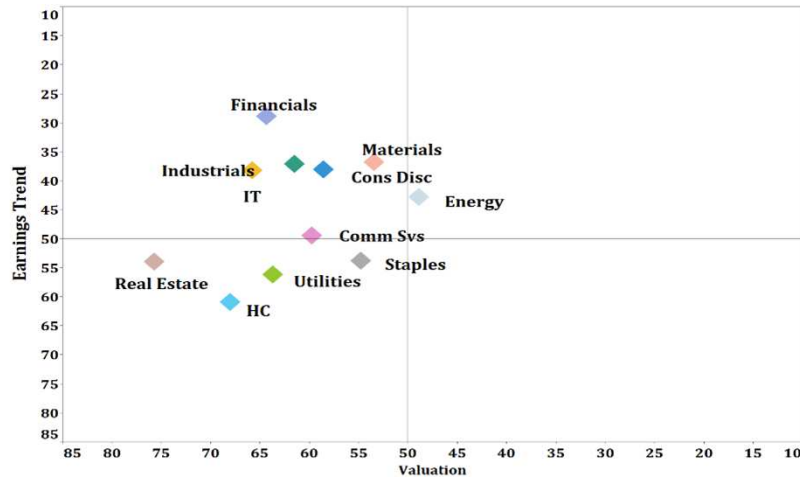
Global Earnings Trend and Valuation Score by Sector



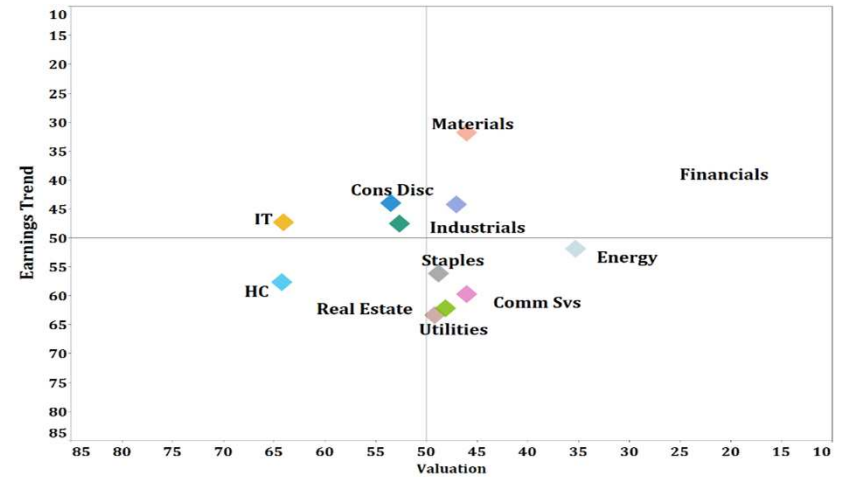
¹Scores based on William Blair Investment Management's proprietary research management & investment process platform. 1 is Best, 100 is Worst. Based on the MSCI AC World IMI. Sectors based on Global Industry Classification Sectors (GICS). Data as of April 2021. Source: Bloomberg, William Blair Quantitative Models, Datastream.

Earnings and Valuations

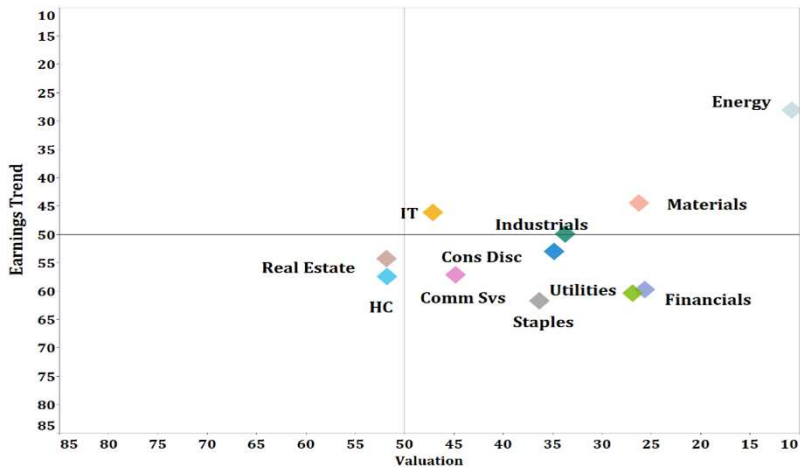
USA



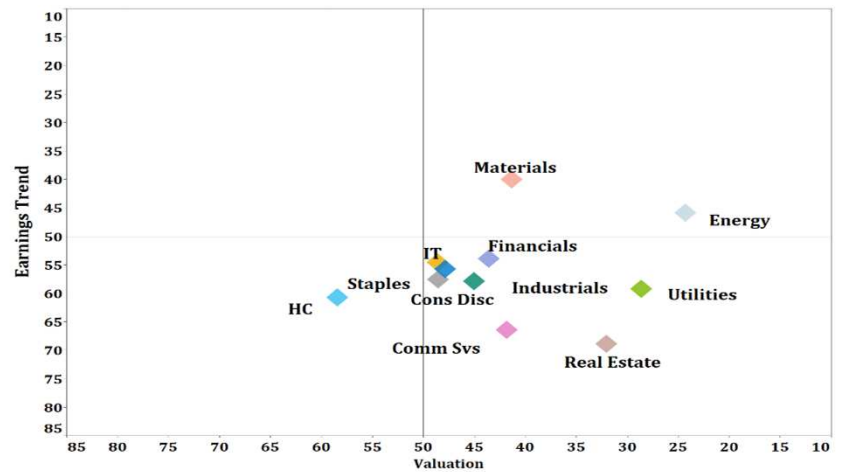
Europe ex-UK



Japan



Emerging Markets



Note: Scores based on William Blair Investment Management's proprietary research management & investment process platform. 1 is Best, 100 is Worst. Based on the MSCI AC World IMI. Sectors based on Global Industry Classification Sectors (GICS). Data as of April 2021. William Blair Quantitative Models, Datastream, FactSet.

Global Macroeconomic Scorecard

- Growth continues to accelerate across developed and select emerging markets
- Continued strong orders indications within manufacturing PMIs point to sustained strong recovery barring new lockdowns
- Industrial production in DMs still lags the sharp recovery in retail sales
- In contrast, China's consumer spending is improving but has yet to recover to pre-COVID growth rates.

Countries	Supply Side Indicators									Demand Side Indicators					
	IP volume, YoY % change			manufacturing PMIs			m. PMIs: orders - inventories			retail sales volume, YoY % change			autos, mn units, YoY % change		
	latest	1-m Δ	3-m Δ	latest	1-m Δ	3-m Δ	latest	1-m Δ	3-m Δ	latest	1-m Δ	3-m Δ	latest	1-m Δ	3-m Δ
DMs	-1.5	0.6	2.9	58.5	2.0	3.7	10.5	2.2	3.4						
US	-2.0	1.5	2.3	59.1	0.5	2.0	12.2	2.5	5.6	12.8	8.0	10.1	16.4	19.9	20.9
Euro Area	-0.4	-0.1	3.2	62.5	4.6	7.3	13.8	3.5	2.7	-2.4	-0.3	-4.1	16.7	32.8	24.3
Germany	-3.1	-1.2	1.2	66.6	5.9	8.3	22.4	3.9	1.0	-3.4	-4.9	-11.1	-12.8	-5.1	-14.4
UK	-3.4	-0.3	0.7	58.9	3.8	1.4	10.5	1.9	1.3	-2.2	-1.9	-6.5	-21.2	7.5	-7.9
Japan	-3.1	0.1	3.2	52.7	1.3	2.7	4.4	1.1	3.2	4.5	-0.9	-0.5	4.2	-1.6	-11.1
Canada	-3.6	1.5	3.6	58.5	3.7	0.6	8.2	-0.3	-2.8	3.0	-2.0	-2.0	-8.4	1.1	-4.9
EMs	7.5	5.0	6.7	51.3	-0.3	-1.5	3.1	-1.0	-3.6						
Brazil	4.4	-0.4	2.0	52.8	-5.6	-8.7	7.4	-6.2	-16.5	0.2	-1.8	-6.0	-5.5	7.0	4.5
China	23.5	2.3	16.4	50.6	-0.3	-2.4	0.9	-1.2	-5.6	30.5	2.5	2.7	174.6	24.1	165.2
India	-1.0	-0.6	-2.3	55.4	-2.1	-1.0	19.7	-0.5	0.6				41.2	33.1	35.7
Korea	4.3	2.7	2.8	55.3	0.0	2.4	7.8	1.5	2.0	2.3	3.5	1.1	-11.2	0.8	-11.8
Mexico	-3.3	0.1	1.2	45.6	1.4	3.2	-3.5	1.2	2.6	-6.1	0.0	2.3	-19.2	13.0	10.3
Russia	-1.3	0.8	3.7	51.1	-0.4	1.4	5.4	0.5	4.4	-0.6	0.7	0.7	-3.0	-1.2	-6.6
S. Africa	-0.6	0.7	2.9	50.3	0.1	0.1	5.1	-1.4	4.0	0.0	2.6	3.1	-5.6	11.8	14.3
Taiwan	11.1	3.3	2.9	60.8	0.4	1.4	9.0	0.4	-0.6	5.6	2.9	2.5	1.0	0.1	0.0

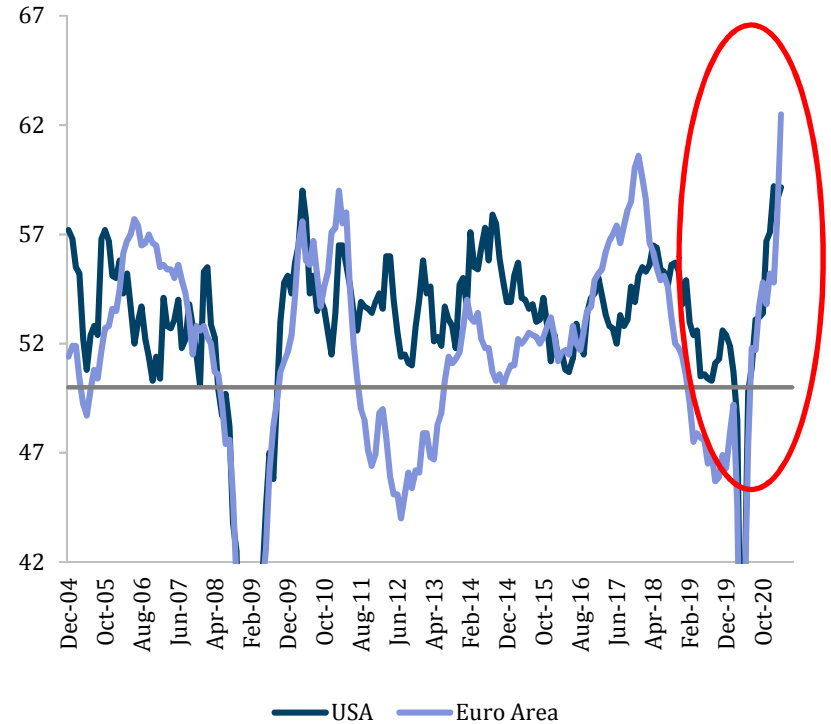
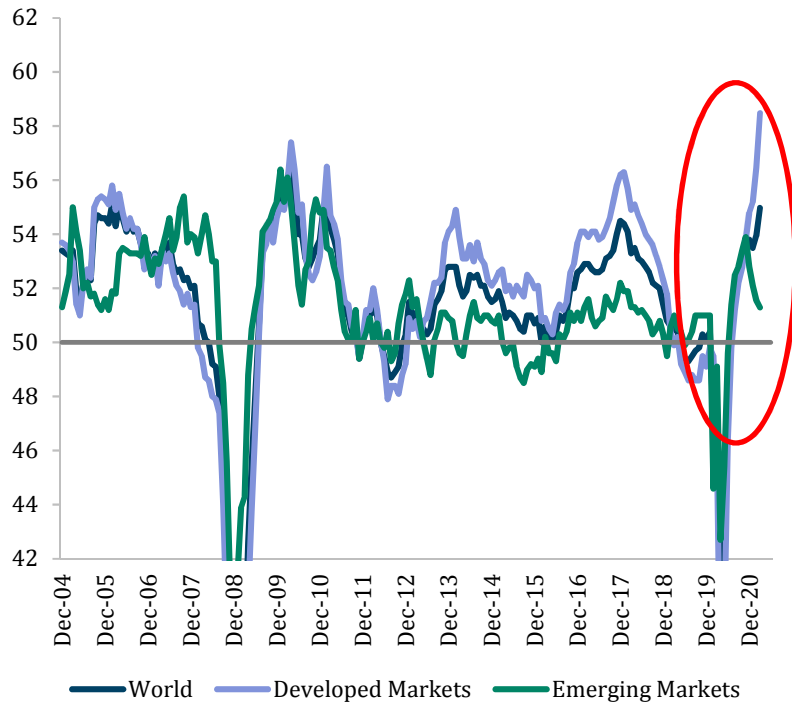
Improving Growth

Weakening Growth

Data as of April 2021.
Source: Bloomberg, Markit.

Growth Has Significantly Accelerated

Global Manufacturing PMIs



Data as of April 2021.
Source: Markit.

Appendix



Chicago



London



Zurich



Sydney

Investing in Our Communities

Deep philanthropic commitments across the globe

We are committed to serving our neighbors and being a long-term partner to the communities where we live and work.

We also support our employees' philanthropic initiatives by matching their personal financial contributions and providing support for those that serve on charitable boards.



Civic



Cultural



Music Institute of Chicago's ArtsLink program.



Education



Health



Bunker Labs



Whole Kids Foundation



Midtown Educational Foundation



Hands On London



Anne Frank Education Center in Frankfurt

Sample Research Report

Recommendation Report

ABC Corporation (ABC DC)

Outperform

Vivian Lin Thurston

Date of Recommendation: 4/13/2015

Investment Management Research		Global Quant Scores	
Rating	Outperform	Composite	22
	<i>Leader</i>	Quality	2
Symbol	ABC DC	Valuation	85
Exchange	COPENHAGEN STOCK	Earnings Trend	18
	EXCHANGE	Price Momentum	4
Headquarters	Denmark	Volatility	29
Focus Country	Denmark		
GICS Sector	Consumer Discretionary	[Scale: 1 = Best 100 = Worst]	
GICS Industry	Textiles, Apparel & Luxury Goods	Blair LTG Estimate	15.2%

Investment Conclusion (Last Modified: 10/21/2015)

What is the mix of long term characteristics, current fundamentals and thematic considerations that make the stock attractive? What is the case for sustaining or enhancing fundamental expectations and valuation? Are you currently recommending purchase or anticipating a development that would suggest a better opportunity is likely in the foreseeable future?

Business Activities and Segment Analysis (Last Modified: 10/21/2015)

Briefly describe the company's primary business units, products or end markets. Frame in terms of clarifying the mix of revenues and profits.

Financial/Trading Data		Estimate Summary		
Price (DKK)	760.00	GAAP	Street	Author
Market Cap (\$ mm)	95,514	LTG (DKK)	21.7	25.0
Mkt Cap Float Adj (\$ mm)	80,890.6	EPS FYA(DKK)	24.70	9.32
YTD % Change	52.8	FY1	34.09	15.97
Shares Outstanding (mm)	122.3	FY2	46.91	20.53
Dividend Yield (%)	1.2	FY3	55.25	23.10
3mo ADT Value (\$ m)	378.80	P/E FYA	30.8	28.7
IM Holdings (USD)		FY1	22.3	16.8
		FY2	16.2	13.0
		FY3	13.8	11.6
		REV FYA(DKK)	11,942	6,652
		FY1	16,160	8,780
		FY2	18,909	9,936
		FY3	21,415	10,927

All report statistics are as of most recent close.

FYA Reported: 12/31/2014

Author Date: 11/25/2013

For illustrative purposes only.

Sample Research Report

Recommendation Report

ABC Corporation (ABC DC)

Outperform

Vivian Lin Thurston

Date of Recommendation: 4/13/2015

Investment Analysis

Qualitative Assessment: Management / Business Model (Last Modified: 10/21/2015)

Quality Model : 2

Evaluate the company relative to peers, competitors and general corporate standards - How strong is management and how durable is the business model? 1) Rate management on execution, control, strategy, continuity, culture and values, and stakeholder commitment. 2) Assess the strengths of the business model. Does the company have a sustainable competitive advantage? Proprietary products? Dominant or improving market share? Best-in-class cost structure? Unique asset base? 3) Review the company's financial performance - margins, returns, cash flow and balance sheet strength.

Decomposition of Long Term Growth Outlook (Last Modified: 10/21/2015)

Blair LTG Estimate (%) : 15.2

What is the likely range of earnings growth over the next 3-5 years? What is the composition of growth in terms of organic vs. acquired, price vs. volume, revenue vs. margin expansion? Are growth projections realistic or biased? Are there any issues that argue for a different growth metric other than EPS?

Current Fundamental Performance / Expectations (Last Modified: 10/21/2015)

ETrend Model : 18

Assess current growth trends in the context of valuation and long term expectations. What is the direction of forecasts? Are operating and reporting earnings in line? How predictable are near term earnings? If current and expected growth is below the long term nor, what are the prospects for improvement?

Valuation (Last Modified: 10/21/2015)

Valuation Model : 85

Assess valuation relative to market expectations considering future growth, incremental returns, historic and comparable norms. What are the valuation variables (cyclicality, risk)? What is or may be changing to drive a re-rating- growth potential, profitability, risk, competition, management?

Governance / Environmental / Social Considerations (Last Modified: 10/21/2015)

GMI Global: B GMI Home: C GMI Sector: B

MSCI IVA Rating: AA Goldman Sachs ESG Rating: -

Highlight any overall conclusions or concerns.

Governance Considerations (Last Modified: 10/21/2015)

GMI Global: B GMI Home: C GMI Sector: B

The key focus is on transparency, oversight, shareholder value creation, accounting policies. Does the company practice good governance? How are executives compensated? Is it in line with shareholder interests and executive performance? Are there concerns about alignment of interests between management and outside shareholders (particularly when the company is closely held)? Is the board focused on shareholder interests and is it accountable? Is there an independent audit function and, if so, has it found significant issues? Does it report on these issues for shareholders? How conservative/aggressive are accounting practices?

Environmental Considerations (Last Modified: 10/21/2015)

GMI Global: A GMI Home: B GMI Sector: B

The key focus is on resource management, product innovation, renewable energy/water use, reporting. Is this relevant? What is the company's environment reporting / disclosure? Does it use resources effectively and minimize impact of operations? Have there been any past environmental issues? Any areas of concern?

Social Considerations (Last Modified: 10/21/2015)

GMI Global: C GMI Home: C GMI Sector: C

For illustrative purposes only.

Sample Research Report

Recommendation Report

ABC Corporation (ABC DC)

Outperform

Vivian Lin Thurston

Date of Recommendation: 4/13/2015

The key focus is on human rights at the company and the supply chain, labor/management relations, product/workplace safety and community relations. What is the relationship between labor and management? Are there any other areas of concern here, including the company's history and policy supporting human rights, workplace safety, product safety, community relations, resource use, or specific political risks?

Accounting / Disclosure / Transparency (Last Modified: 10/21/2015)

How does the company rate on these issues? Any concerns about corporate structure, shareholder rights, compensation, hidden risks, information flow, board of directors?

Thematic Issues / Risks (Last Modified: 10/21/2015)

What market trends or sector issues are reflected in the company's risk/reward picture? What exogenous developments might affect the fundamentals or valuation?

Key Metrics / Events / Catalysts (Last Modified: 10/21/2015)

Any identifiable milestones, events or conditions that may provide feedback on the stock's prospects?

Contact With Management (Last Modified: 10/21/2015)

Highlight any recent interactions with management. How well do we know this management team?

For illustrative purposes only.

Sample Research Report

Quant Model Factors

Focus Country	Denmark	Eligibility List	Yes
GICS Sector	Consumer Discretionary	Research Agenda	No
GICS Industry	Textiles, Apparel & Luxury Goods	IM Hldgs (USD) (as of)	
GICS Industry Group	Consumer Durables & Apparel	Market Cap (USD mm)	95,514.00

ABC Corporation (ABC DC)

Outperform

Vivian Lin Thurston

4/13/2015

Composite Model	Value	Percentile	Ind Rel
COMPOSITE MODEL SCORE	-	22	-
Quality Model	Value	Percentile	Ind Rel
QUALITY MODEL SCORE	-	2	1
<i>Sustainable Value Creation</i>	-	1	1
Cash Flow ROIC	47.2	3	2
Cash Flow ROIC 3 Year Avg	44.3	3	2
ROE LTM (Financials Only)	-	-	-
Productivity Factor (ex. Financials, Ind Rel)	-	2	2
Oper ROA 5 yr Avg (%)	31.3	2	4
ROE 5yr Avg (%)	44.1	3	2
FCF Margin 3 Year Avg (ex Financials, Ind Grp Rel)	25.0	3	4
Gross Profit / Assets (ex Financials, Ind Grp Rel)	84.3	5	5
EVA Margin (Ind Grp Rel)	22.7	2	2
<i>Earnings Quality</i>	-	49	33
Balance Sheet Accruals Component	52	46	32
Cash Flow Accruals	6.9	62	42
NTM EPS Standard Error 3 Year Average	2.2	31	21
<i>Financial Strength</i>	-	21	16
Altman Z-Score (Ind Grp Rel)	6.8	4	2
Merton Distance to Default (Ind Grp Rel - Higher is better)	12.2	25	11
Net Debt / EBITDA (ex Financials, Ind Grp Rel)	.1	49	38
<i>Banks Only</i>	-	-	-
Tangible Equity to Assets	-	-	-
NPL to Loans	-	-	-
Cost Income Ratio	-	-	-
Risk Adjusted Income	-	-	-
Loans to Deposits	-	-	-
Tier 1 Factor	-	-	-
Pretax Income plus Loan Loss Reserves/Market Cap	-	-	-
1 Year Change in Loan Loss Reserves/Assets	-	-	-

Valuation	Value	Percentile	Ind Rel
VALUATION MODEL SCORE	-	85	71
<i>Earnings / Cash Flow Based Factors</i>	-	85	70
Free Cash Flow Yield (ex Financials)	3.4	50	40
Enterprise Value / EBITDA (ex Financials)	18.8	86	74
Dividend Yield	1.2	80	68
Cash Flow Yield Rel to 3 yr Avg (ex Financials)	70.2	80	63
Price / NTM Earnings	17.0	56	51
<i>Asset-Based Factors</i>	-	100	99
Enterprise Value / Sales (Ind Rel, ex Financials)	6.9	93	94
Price to Tangible Book	108.6	100	98
Enterprise Value / Invested Capital	12.8	99	97
<i>Model-Based Factors</i>	-	52	38
EVA PRVIt	60	39	30
StarMine Intrinsic Value (IV) Model	1.0	71	53
StarMine Ind Rel Valuation	-	75	74
AFG Percent to Target Current	92.1	11	5

Earnings Trend Model	Value	Percentile	Ind Rel
EARNINGS TREND MODEL SCORE	-	18	9
<i>Earnings Revisions</i>	-	15	9
StarMine ARM	80	21	13
3M EPS FY1 Revisions / Book Value per Share 3M Ago	.7	9	6
3M EPS FY2 Revisions / Book Value per Share 3M Ago	.2	17	11
EPS Est Rev Breadth 1 month (%)	.0	38	26
<i>Momentum</i>	-	47	32
EVA Momentum	7.4	9	1
Quality Momentum (6M Change in Percentile)	-1	61	44
FY0 - FY5 Growth Momentum (6M Change in Growth Rate)	2.1	19	13
3M Change in 3M Revision (FY1 and FY2 Avg)	-2.4	92	90
<i>Earnings Surprise</i>	-	42	35
Standardized Unexpected Earnings (SUE)	.3	46	38
StarMine Predicted Surprise	.5	31	14

For illustrative purposes only.

Sample Research Report

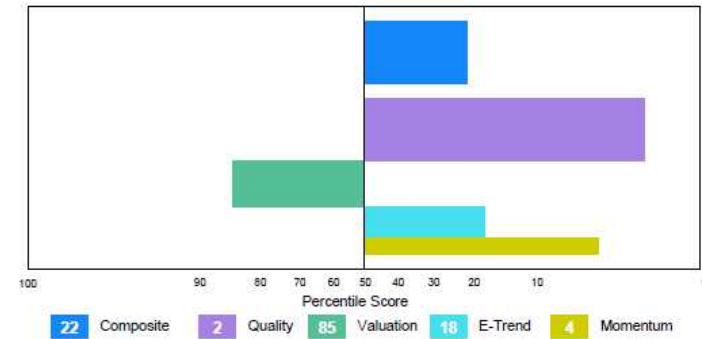
Quant Model Factors				ABC Corporation (ABC DC)	
Focus Country	Denmark	Eligibility List		Yes	Outperform Vivian Lin Thurston 4/13/2015
GICS Sector	Consumer Discretionary	Research Agenda		No	
GICS Industry	Textiles, Apparel & Luxury Goods	IM Hlds (USD) (as of)			
GICS Industry Group	Consumer Durables & Apparel	Market Cap (USD mm)	95,514.00		

Momentum Model	Value	Percentile	Ind Rel
MOMENTUM MODEL SCORE	-	4	5
12 Month Volatility Adjusted Return	39.4	5	7
6 Month Sharpe Ratio	1.6	4	6
Industry Group Percentage of 1 Year Range	.5	34	32
6 Month Region - Sector Volatility Adjusted Return	-6.7	49	36
9 Month Sharpe Ratio	2.0	4	6

Growth Model (%)	Value	Percentile	Ind Rel
Blair LTG Estimate	15.2	-	-
Historical Growth	19.0	-	-
6 Year Avg Trend Growth (FY-2 to FY+3)	19.6	-	-
10 Year Avg Trend Growth (FY-6 to FY +3)	8.3	-	-
FY0 to FY+5 Expected Growth Trend	15.9	-	-
FY+1 to FY+5 Expected Growth Trend	12.2	-	-
<i>IBES Consensus LTG Estimate (for display only)</i>	21.7	-	-

Volatility Model	Value	Percentile	Ind Rel
VOLATILITY MODEL SCORE	-	29	-
ROE Range/Avg	-	41	-
Operating Margin Range/Avg	-	16	-
CF ROIC Range/Avg	-	35	-
EPS FY1 Coefficient of Variation	-	23	-
EPS FY2 Coefficient of Variation	-	55	-
EPS FY1 Dispersion	-	51	-
EPS FY2 Dispersion	-	26	-

Model History (GICS Industry)	Short Term	Long Term
Composite	☆☆☆☆☆☆	☆☆☆☆☆☆
Quality	☆☆	☆☆☆☆☆☆
Valuation	☆☆	☆☆
Earnings Trend	☆☆☆☆☆☆	☆☆☆☆
Momentum	☆☆☆☆	☆☆☆☆
Growth	☆☆☆☆	☆☆



For illustrative purposes only.

Biographies – Global Investment Team

Portfolio Management



Alaina Anderson, CFA
Partner

Alaina Anderson, CFA, partner, is a portfolio manager for the International Leaders ADR strategy and a global research analyst covering real-estate, utilities, and engineering companies.

Before joining William Blair in 2006, she was a senior analyst in the investments department of the MacArthur Foundation, where she provided research support for internally managed portfolios and was involved in investment manager due diligence, selection, and monitoring for the foundation's U.S., non-U.S., and hedge-fund portfolios. Before joining the MacArthur Foundation, Alaina was an investor relations consultant with Ashton Partners and a financial advisor with UBS Painewebber. She is a fellow of Leadership Greater Chicago, a board member of the North Lawndale Employment Network, and a member of the CFA Institute and the CFA Society Chicago.

Education: B.S., Wharton School at the University of Pennsylvania; M.B.A., University of Chicago's Booth School of Business



Simon Fennell
Partner

Simon Fennell, partner, is a portfolio manager for William Blair's International Growth, International Small Cap Growth, and International Leaders strategies.

He joined William Blair in 2011 as a technology, media, and telecommunications research analyst focusing on idea generation and strategy more broadly. Before joining William Blair, Simon was a managing director in the equities division at Goldman Sachs in London and Boston, responsible for institutional equity research coverage for European and international stocks. Previously, Simon was in the corporate finance group at Lehman Brothers in London and Hong Kong, working in the M&A and debt capital markets groups.

M.A., University of Edinburgh; M.B.A., Cornell University's Samuel Curtis Johnson Graduate School of Management



Andrew G. Flynn, CFA
Partner

Andy Flynn, CFA, partner, is a portfolio manager for William Blair's International Small Cap Growth and Global Leaders strategies.

Since joining William Blair in 2005, Andy has served as a U.S. industrials and consumer analyst and a non-U.S. consumer, healthcare, and IT analyst. He was also a portfolio manager for the firm's Global Small Cap Growth strategy. Before joining the firm, Andy was a senior equity analyst and portfolio manager at Northern Trust, where he specialized in mid- and small-capitalization growth companies. Before that, he was a senior equity analyst at Scudder Kemper Investments and a research assistant at Fidelity Investments. Andy is a member of the CFA Institute and the CFA Society Chicago.

B.A., economics, University of Kansas; M.B.A. finance emphasis, University of North Carolina at Chapel Hill



Kenneth J. McAtamney
Partner

Ken McAtamney, partner, is the head of the global equity team and a portfolio manager for William Blair's International Growth, Global Leaders, and International Leaders strategies. He is also a member of the Investment Management leadership team.

He was previously co-director of research and a mid-large-cap industrials and healthcare analyst. Before joining William Blair in 2005, Ken was a vice president at Goldman Sachs and Co., where he was responsible for institutional equity research coverage for both international and U.S. equity. Before that, he was a corporate banking officer with NBD Bank.

B.A., Michigan State University; M.B.A., Indiana University

Biographies – Global Investment Team

Portfolio Management



Todd M. McClone, CFA
Partner

Todd McClone, CFA, partner, is a portfolio manager for William Blair's emerging markets strategies.

Before joining the firm in 2000, he was a senior research analyst specializing in international equity for Strong Capital Management. Previously, he was a corporate finance research analyst with Piper Jaffray, where he worked with the corporate banking financials team on a variety of transactions, including initial public offerings, mergers and acquisitions, and subordinated debt offerings. He also issued fairness opinions and conducted private company valuations.

Education: B.B.A. and B.A., University of Wisconsin–Madison



Jack Murphy, CFA
Partner

Jack Murphy, CFA, partner, is a portfolio manager for William Blair's Emerging Markets Leaders strategies.

Previously, he was director of research for the Global Equity team and a research analyst covering mid-large-cap non-U.S. consumer stocks. He joined William Blair in 2005 as a sell-side research analyst focusing on e-commerce and hardline retailers. Previously, he was an equity research analyst covering a broad range of retail companies for Credit Suisse First Boston for nearly six years. Before that, he was an equity research analyst at Lehman Brothers and an equity research associate at Salomon Brothers. Before that, he was a financial analyst for General Electric Capital, having graduated from GE's financial management program.

B.A., economics, magna cum laude, Villanova University.



Casey K. Preyss, CFA
Partner

Casey Preyss, CFA, partner, is a portfolio manager for William Blair's Emerging Markets Growth, Emerging Markets Small Cap Growth, and China A-Shares Growth strategies.

Since joining William Blair in 2000, he has been a research analyst covering industrials, IT, and resources stocks. Before taking on fundamental research responsibilities for William Blair's global equity team, Casey was a quantitative analyst. Before joining the firm, he was an international equity research sales associate with Thomas White International.

B.S.B.A., The Ohio State University; M.B.A., University of Chicago's Booth School of Business



Vivian Lin Thurston, CFA
Partner

Vivian Lin Thurston, CFA, partner, is a portfolio manager for William Blair's China A-Shares Growth strategy and a global research analyst covering Chinese equities.

Previously, she was a global research analyst covering large-cap consumer companies. Before joining William Blair, Vivian was vice president and consumer sector head at Calamos Investments. Before that, she was an executive director and senior investment analyst at UBS Global Asset Management/Brinson Partners, where she was responsible for stock selection and research for consumer sectors in the United States and emerging markets. Vivian also held roles at Mesirow Financial, China Agribusiness Development Trust and Investment Corporation, and Vanke. She is a member of the CFA Institute and the CFA Society Chicago. She is also the founder and chairman of the board of the Chinese Finance Association of America, a 501(c) nonprofit organization.

B.A., sociology, Peking University; M.A., sociology and M.S., finance, University of Illinois Urbana-Champaign

Biographies – Global Investment Team

Portfolio Specialists



Ryan Dimas, CFA, CAIA
Partner

Ryan Dimas, CFA, CAIA, partner, is a portfolio specialist for William Blair’s global equity strategies.

In this role, Ryan participates in the team’s decision-making meetings, conducts portfolio analysis, and is responsible for communicating portfolio structure and outlook to clients, consultants, and prospects. Previously, for 17 years, Ryan led the investment manager research effort for William Blair Select, a team that was responsible for the selection and ongoing evaluation of third-party investment managers. In 2016, Ryan was named chief investment strategist and chair of the asset allocation investment committee for investment counseling, where he worked closely with investment counseling teams on strategic and tactical recommendations that were implemented within portfolios. He is a member of the CFA Society Chicago and a CAIA charterholder.

Education: B.A., finance, Arizona State University



Romina Graiver
Partner

Romina Graiver, partner, is a portfolio specialist for William Blair’s global equity strategies.

In this role, she participates in the team’s decision-making meetings, conducts portfolio analysis, and is responsible for communicating portfolio structure and outlook to clients, consultants, and prospects. She is a member of William Blair’s ESG leadership team and Global Inclusion Council. Previously at William Blair, she was a senior client relationship manager. Before joining William Blair in 2012, Romina was deputy head of the international equity investment team at BNP Paribas Investment Partners, where she was responsible for product development and investor communication. Before taking on that role, she was a product specialist for model-driven equity investments and a marketing manager. She holds the CFA UK Certificate in ESG Investing.

B.Sc., international business and an M.Sc., economics, University of Pantheon-Sorbonne, Paris, France



Blake Pontius, CFA

Blake Pontius, CFA, is director of sustainable investing and a global portfolio specialist.

In this role, he coordinates the firm’s integration of environmental, social and governance (ESG) factors in its investment processes and provides analytical support to portfolio managers on the global equity team. He is also responsible for communicating investment strategy and portfolio positioning to clients, consultants, and prospects. Previously at William Blair, Blake was a relationship manager responsible for institutional clients invested in the firm’s global/international and emerging market equity strategies. Before joining William Blair in 2005, Blake worked at UBS Asset Management and Mercer. He is a member of the CFA Institute and the CFA Society Chicago. In addition, he holds the SASB Fundamentals of Sustainability Accounting (FSA) credential.

B.A., economics, with honors, Michigan State University; M.B.A. in finance, with distinction, from DePaul University



Emily George

Emily George is a portfolio specialist for William Blair’s global equity strategies.

In this role, Emily conducts portfolio analysis and is responsible for communicating portfolio structure and outlook to clients, consultants, and prospects. Before joining the firm in 2011, Emily was a financial planning assistant for a private financial services company in Cleveland, Ohio.

B.A., political science and economics, College of Wooster

Biographies – Global Investment Team

Research



William Benton, CFA, CPA
Partner

William Benton, CFA, CPA, partner, is a global equity research analyst. He covers small-cap consumer companies.

Previously, he covered mid- and large-cap technology, media, and communication services companies. Before joining William Blair Investment Management in 2007, William was a technology research analyst with the firm's sell-side research group for 10 years. In this position, he was twice named "Best on the Street" in The Wall Street Journal's annual analyst survey. Before joining William Blair in 1997, he worked at SBC Warburg, U.S. Cellular, May Company, and Monsanto. He is a member of the CFA Society Chicago and holds the CMA designation.



Drew Buckley, CFA
Partner

Drew Buckley, CFA, CPA, partner, is a global equity research analyst. He covers small-cap technology, media, and communication services companies.

Before joining William Blair in 2008 as a global research associate focused on technology, media, and telecommunications stocks, he spent two years as a senior associate in Ernst & Young LLP's investment management assurance practice. Drew is a member of the CFA Society Chicago.



Anil Daka, CFA

Anil Daka, CFA, is a global equity research analyst. He covers midcap industrial companies.

Before joining the firm in 2011, Anil was an equity analyst at Morningstar, where he was responsible for equity research coverage in the global industrials sector. He is a member of the CFA Institute and the CFA Society Chicago.



Daniel Hill, CFA

Daniel Hill, CFA, is a global equity research analyst at William Blair Investment Management. He covers small-cap financial companies.

He was previously a global generalist research analyst and an international and global research associate supporting the global financial team under the guidance of research analysts. Daniel joined William Blair in 2005 as an investment accountant. He is a member of the CFA Institute and the CFA Society Chicago.

Education: B.S., finance, University of Illinois Urbana-Champaign; M.B.A., Dartmouth College's Amos Tuck School of Business Administration, where he was a Tuck Scholar

B.S., business, University of Colorado-Boulder

B.Tech., metallurgical engineering, Indian Institute of Technology; M.B.A. from the University of North Carolina

B.S., finance, University of Nebraska; M.B.A. from Northwestern University's Kellogg Graduate School of Management

Biographies – Global Investment Team

Research



Jayesh Kannan, CFA

Jayesh Kannan, CFA, is a global equity research analyst. He covers small-cap technology, media, and communication services companies.

Before joining William Blair in 2018 as a research associate focused on technology, media, and communication services, Jayesh was an associate in the institutional equities division at Morgan Stanley in New York City and Singapore. In this role, he focused on emerging market and Asian equities. Jayesh is a member of the CFA Institute and the CFA Society Chicago.



Benjamin Loss, CFA

Benjamin Loss, CFA, is a global equity research analyst. He covers energy and materials companies.

Before joining William Blair in 2011 as a global research associate focused on energy and materials, Benjamin was a sell-side research associate at Morgan Keegan. He is a member of the CFA Institute and the CFA Society Chicago.



**D.J. Neiman, CFA
Partner**

D.J. Neiman, CFA, partner, is co-director of research for the global equity team. He is also a global equity research analyst covering large- and mid-cap financial companies.

Before joining Investment Management in 2009, D.J. was an analyst in the firm's sell-side research group, covering the financials sector with a focus on the asset-management and advisory investment-banking industries. Previously, D.J. was a senior accountant with William Blair Funds and a fund analyst at Scudder Kemper Investments. He is a member of the CFA Institute and the CFA Society Chicago.



**Camilla Oxhamre Cruse,
Ph.D**

Camilla Oxhamre Cruse, Ph.D., is a global equity research analyst covering small- and mid-cap healthcare companies.

Before joining William Blair in 2014, Camilla spent six years at Carnegie Investment Bank, where she was a sell-side research analyst focusing on the Nordic pharma and biotech industry. She has a scientific background. Specifically, Camilla has a PhD in medicine (immunology and infectious diseases) from the Karolinska Institutet in Stockholm, Sweden (known as the "home of the Nobel Prize in Medicine") and an M.Sc. in biochemistry from Lund University (in Lund, Sweden) and École Nationale Supérieure de Chimie de Montpellier (in Montpellier, France).

Education: B.E., computer engineering, Nanyang Technological University, Singapore, graduated as a Singapore Airlines-Neptune Orient Lines scholar with first-class honors. M.B.A., Sloan School of Management at the Massachusetts Institute of Technology (MIT), was a Martin Trust Community Fellow.

B.S., accounting, summa cum laude, University of Maine; M.S., finance, Vanderbilt University

B.S., Miami University; M.B.A., with high distinction, University of Michigan's Ross School of Business

M.B.A., finance, Hawaii Pacific University; Ph.D., medicine, Karolinska Institute; M.Sc., biochemistry, Lund University

Biographies – Global Investment Team

Research



Richard Reznick, Ph.D.

Richard Reznick, Ph.D., is a global equity research analyst. In this role, he covers Chinese equities with a focus on small-cap healthcare companies.

Before joining William Blair in 2010 as an equity research associate focused primarily on the biotechnology sector, Richard was a product specialist in Abbott Laboratories' diagnostics division.



Greg Scolaro, CFA, CPA

Greg Scolaro, CFA, CPA, is a global equity research analyst. He covers large cap technology, media, and communication services companies.

Previously, he covered small-cap emerging markets companies. Before that, he was a research associate covering global technology, media, and telecommunications stocks. Before joining the firm in 2014, Greg was an auditor in the technology sector at KPMG Chicago. He is a member of the CFA Institute and the CFA Society Chicago.



Bryan Shea

Bryan Shea is a global equity research analyst. He covers small-cap consumer companies in emerging markets.

He joined the firm in 2009 as an emerging markets generalist. Previously, he was an associate focusing on global consumer stocks and a sell-side research associate focusing on several subsectors within the consumer sectors. Before joining William Blair, Bryan was an associate at Madison Capital Funding, where he provided a variety of cash-flow-based, leveraged-capital products to private-equity sponsors. Before that, he was an analyst at Lincoln International, where he worked on mergers and acquisitions, issued fairness opinions, and conducted private company valuations.



**Andrew J. Siepker, CFA
Partner**

Andrew Siepker, CFA, partner, is a global equity research analyst. He covers large-cap industrial companies.

Previously, he was a research analyst conducting non-U.S. consumer research and worked on William Blair's sell-side as a research associate focused on e-commerce and hardline retailers. Before joining William Blair in 2006, Andy was a financial analyst in a finance training program at First Data Corporation. He is a member of the CFA Institute and the CFA Society Chicago.

Education: B.S., biology, University of Illinois at Urbana-Champaign; Ph.D., biology, Yale University

B.S. and M.S., accountancy, University of Illinois Urbana-Champaign

B.S., finance, with honors, Indiana University; M.B.A., Northwestern University's Kellogg School of Management

B.S., finance, with highest distinction, University of Nebraska

Biographies – Global Investment Team

Research



Kwesi Smith, CFA

Kwesi Smith, CFA, is a global equity research analyst. He covers large-cap consumer companies.

Before joining the firm in 2015, Kwesi was an equity research analyst for TimesSquare Capital Management for 10 years. In this role, he supported the firm's research efforts across a variety of sectors, including healthcare, technology, media/cable, defense, and consumer, before focusing on healthcare. Before that, Kwesi worked at MetLife Investments as a technology, media/cable, and telecom fixed-income research analyst and provided credit analysis across a variety of fixed-income asset classes, including high yield, private placement, leveraged finance, and investment-grade public corporates. He is on the governing board of 3Arts and Breakthrough. He is also a member of the CFA Institute and the CFA Society Chicago.



Thomas A. Sternberg, CFA
Partner

Tommy Sternberg, CFA, partner, is a global equity research analyst. He covers large-cap healthcare companies.

Previously, he was a research associate focused on the healthcare industry. Before joining William Blair in 2004, Tommy spent two years as an equity analyst in Oak Brook Bank's investment management and trust department. He is a member of the CFA Institute and the CFA Society Chicago.

Education: B.S., University of Virginia's McIntire School of Commerce

B.S., economics, Duke University;
M.B.A., University of Chicago's Booth School of Business

Biographies – Global Investment Team

Systematic Research



Spiro Voulgaris
Partner

Spiro Voulgaris, partner, is a senior quantitative analyst and systematic equity portfolio manager.

He joined William Blair in 2007. Before joining the firm, Spiro was a senior quantitative analyst with Neuberger Berman for five years and subsequently worked alongside the same investment professionals for an additional three years while with Northern Trust. He was also with Lehman Brothers for six years, where he was a strategist and quantitative analyst for its global and U.S. investment strategy teams in London and New York. Before that, Spiro spent three years as a research analyst with the Center for Research in Securities Prices (CRSP).



Andrew Kominik, CFA

Andrew Kominik, CFA, is the liquidity and investment risk manager.

In this role, Andrew identifies, aggregates, and monitors investment-related risks across William Blair Investment Management. He also is a senior quantitative analyst on the systematic research team, where he spearheaded the development of William Blair's proprietary equity risk models and continues to maintain and enhance them. Previously, Andrew was a quantitative portfolio analyst, portfolio construction analyst, and marketing analyst. Before joining William Blair in 2003, he worked in institutional marketing at Columbia Management Group. Andrew is a member of the CFA Institute and the CFA Society Chicago.



Anand Krishnakumar, CFA

Anand Krishnakumar, CFA, is a quantitative developer on the systematic research team.

In this role, he develops applications and tools for quantitative analysis, attribution, and portfolio management. He joined William Blair in 2015 as a director of technology in William Blair's IT group, where he managed research and marketing platforms. Before joining the firm, Anand worked at Morningstar, JPMorgan, and Morgan Stanley as a vice president and IT manager in asset management; in these roles, he was responsible for a number of proprietary applications and platforms. He is a member of the CFA Institute and the CFA Society Chicago.



Andy Tang, CFA

Andy Tang, CFA, is a quantitative analyst on the systematic research team.

In this role, he conducts research on quantitative finance and builds tools for portfolio optimization and risk management. Before joining William Blair in 2016, Andy spent five years as a quantitative analyst at Morningstar, where he worked on designing and building the Morningstar global equity risk model and global portfolio optimizer. He also worked on fixed-income pricing and risk analytics and big-data analytics on financial text modeling. He is a member of the CFA Institute and the CFA Society Chicago.

Education: B.A., economics, University of Chicago; M.B.A., statistics and international finance, University of Chicago's Booth School of Business

B.A., history, Brandeis University; M.B.A., finance and econometrics/statistics, University of Chicago's Booth School of Business

B.E., electronics and instrumentation, Birla Institute of Technology and Science in Pilani, India; M.S., computer science, University of Illinois at Urbana-Champaign; M.S., financial mathematics, University of Chicago

B.A., economics, Donghua University; M.S., finance, Illinois Institute of Technology; M.S., statistics, University of Chicago

Biographies – Global Investment Team

Strategy Research and Technology



Olga Bitel
Partner

Olga Bitel, partner, is a global strategist.

She is responsible for economic research and analysis across all regions and sectors. She distills macroeconomic and geopolitical developments into actionable insights for global equity portfolios within a multifaceted strategic framework. In addition, she provides insights about cyclical turning points and structural trends as inputs into portfolio construction in predominantly bottom-up investment approaches. Before joining William Blair in 2009, Olga was a senior economist at the National Institute of Economic and Social Research in London, United Kingdom, where she produced macroeconomic forecasts for most Asian economies and led thematic research projects for some of the world's best-known international organizations, including the Organization of the Petroleum Exporting Countries and the International Monetary Fund.

Education: B.A., University of Chicago; M.Sc., economics, London School of Economics and Political Science



Hugo Scott-Gall
Partner

Hugo Scott-Gall, partner, is co-director of research for the global equity team. He is also a thematic strategist.

He is responsible for researching longer-term trends affecting corporate performance and developing systematic solutions for broad investment challenges. Before joining William Blair in 2018, Hugo was a managing director and head of the thematic research team at Goldman Sachs that investigated thematic changes, analyzed their effects across industries, and sought to identify long-term structurally advantaged companies. He produced *Fortnightly Thoughts*, a publication offering thematic insights, and *GS Sustain*, a long-term-focused publication that sought to identify best-in-breed companies. He also oversaw *GS Dataworks*, a team that used alternative data to augment fundamental research. Before his move into thematic research, Hugo was an equity research analyst covering European transportation companies. Before Goldman Sachs, he was an equity research analyst at Fidelity Investments.



Rita Spitz, CFA
Partner

Rita Spitz, CFA, partner, is a global equity research analyst focusing on ESG integration.

She is on William Blair's Global Inclusion Council and the ESG/Impact Investing Working Group. Previously, she was a research analyst covering U.S. and global consumer stocks across the range of market capitalizations. She served as director of research from 2001 to 2008. Rita joined William Blair in 1986 as a sell-side research analyst covering advertising and marketing firms, a role she held for 13 years. She is a member of the CFA Society Chicago, the CFA Institute, and The Economic Club of Chicago. She has also served on the advisory groups of the Financial Accounting Standards Board. She is a trustee of The Joffrey Ballet.

B.B.A., finance and Spanish, University of Wisconsin–Madison; M.B.A., University of Chicago's Booth School of Business



Darragh Grogan

Darragh Grogan is a technologist on the global equity team.

In this role, he works with William Blair's IT development team to implement technological improvements into the investment process. Before joining William Blair in 2008 as a software engineer supporting trading and reconciliation, Darragh was a senior software engineer at Accenture and Fidelity.

B.Com. and a higher diploma in applied science (software development and design), National University of Ireland in Galway; M.S., advanced software engineering, University College Dublin

Biographies – Client Service Team

Douglas J. Kryscio, CFA, Partner

Doug Kryscio, CFA, partner, is head of North America client service at William Blair Investment Management. Previously at William Blair, he was a senior client relationship manager. Before joining the firm in 2011, he was at Mercer Investment Consulting for 11 years, most recently as a partner, and earlier as a business leader for the Midwest and Great Lakes markets. Before joining Mercer, Doug was a portfolio manager at First Chicago. He is a member of the CFA Institute and the CFA Society Chicago. Doug received a B.B.A. in finance, with department honors, from the University of Kentucky and an M.B.A. in finance, with distinction, from DePaul University. He was a member of Phi Kappa Phi and Delta Mu Delta National Honor Society.

Julie Stevens, CFA

Julie Stevens, CFA, is the head of client service for William Blair Investment Management. She has been a member of the client service team since May 2004, and was previously a member of the operations team. Before joining William Blair in 2000, Julie spent three years as a financial analyst for Bank One's asset liability management department. She is a member of the CFA Institute and the CFA Society Chicago. Julie received a B.S. from Indiana University and an M.B.A. from the University of Chicago's Booth School of Business.

Julie Rancourt

Julie Rancourt is a senior client relationship manager with William Blair Investment Management. Before joining William Blair in 2018, she was a relationship manager with Wellington Management. In this role, she was responsible for institutional client coverage, including public funds, endowments, foundations, and corporate pension plans. Before joining Wellington Management in 2015, Julie was a managing director and senior client portfolio manager in the global fixed income, currency, and commodities group at J.P.Morgan Asset Management. In this role, she was responsible for investment strategy, performance, and attribution communication to institutional clients. Julie received a B.S. in business administration, with a focus on finance, from Villanova University.

Stephen J. Weeks, Partner

Steve Weeks, partner, is a senior client relationship manager with William Blair Investment Management. Before joining William Blair in 2015, he was senior vice president of marketing, consultant relations, and client services at Columbus Circle Investors (CCI). Before joining CCI in April 2005, he was a director and senior investment specialist for Principal Global Investors and one of the founding partners of GlobeFlex Capital, where he was responsible for institutional marketing and client service. He is a current board advisor of the National Conference on Public Employee Retirement Systems (NCPERS). He received a B.S. in finance from the University of Arizona.

James Dominguez, CAIA

James Dominguez, CAIA, is a client relationship manager with William Blair Investment Management. Before joining the firm in 2016, he was a vice president and relationship manager for Northern Trust Asset Management, working with public pension plans and Taft-Hartley plans. While at Northern Trust, James also served as an associate relationship manager in the institutional sales and client service group and a senior investment manager liaison with investment operations. Before joining Northern Trust, James was the managing director of a national employment and training organization, where he oversaw the service delivery of five workforce programs for the City of Chicago's Mayor's Office of Workforce Development. James is a member of the CAIA Association. He received a B.A. in psychology from Roosevelt University and an M.B.A. in financial analysis from DePaul University's Kellstadt Graduate School of Business.

Cliff Kalish, CFA

Cliff Kalish, CFA, is a client relationship manager with William Blair Investment Management. Before joining William Blair in 2011, Cliff was a client relationship manager at Calamos Investments for six years and a research analyst at Ellwood Associates for five years. Cliff is a member of the CFA Institute and the CFA Society Chicago. He received a B.S. in consumer economics with an option in finance from the University of Illinois at Urbana-Champaign.

Dana Denizman

Dana Denizman is a senior client services associate, responsible for both international and U.S. accounts. She joined William Blair in 1999 as a member of the small-cap growth team and has been a member of the client service team since May 2004. Previously, she spent four years at PaineWebber in various positions, including a registered sales assistant and branch office administrator, and was a member of the firm's management development program. Before that, Dana spent four years at American Century as a client service representative. Dana received a B.A. from the University of Iowa.

Biographies – Client Service Team

Jennifer Raketich

Jennifer Raketich is a senior client service associate, responsible for both international and U.S. accounts, with William Blair Investment Management. She joined the firm in 2014. Previously, she spent eight years at Northern Trust in various positions, including senior consultant and senior account manager for the corporate and institutional services team. She received a B.S. from DePaul University and an M.B.A. from Saint Xavier University's Graham School of Management.

Thomas Riesenber

Tom Riesenber is a senior client service associate with William Blair Investment Management. In this role, he is responsible for both international and U.S. accounts. Previously, Tom was an international accounting analyst for three years. Before joining the firm in November 2014, Tom was a financial reporting analyst at The Northern Trust Company for four years. He received a B.S.B.A. in finance from Creighton University.

Matt Brady, CFA

Matt Brady, CFA, is a senior client services associate, responsible for both international and U.S. accounts, with William Blair Investment Management. He joined William Blair in May 2015. Previously, Matt was an analyst on the product development and management team for BMO Global Asset Management. He is a member of the CFA Institute and the CFA Society Chicago. He received a B.B.A. in finance and risk management from the University of Wisconsin–Madison.

Luke Hepler, CFA

Luke Hepler, CFA, is a senior client services associate (responsible for both international and U.S. accounts) and William Blair Advisor Solutions Group's national accounts associate. He joined William Blair in 2015. Previously, Luke was a research analyst at Ellwood Associates. He is a member of the CFA Institute and the CFA Society Chicago. He received a B.S. in finance from Northern Michigan University.

Glossary – Terms

Active Share: A measure of the percentage of stock holdings in a manager's portfolio that differ from the benchmark index.

Alpha: A measure of a portfolio's return in excess of the market return, after both have been adjusted for risk. It is a mathematical estimate of the amount of return expected from a portfolio above and beyond the market return at any point in time. For example, an alpha of 1.25 indicates that a stock is projected to rise 1.25% in price in a year over the return of the market, or the return when the market return is zero. When an investment price is low relative to its alpha, it is undervalued, and considered a good selection.

Beta: A quantitative measure of the volatility of the portfolio relative to the overall market, represented by a comparable benchmark. A beta above 1 is more volatile than the overall market, while a beta below 1 is less volatile, and could be expected to rise and fall more slowly than the market.

CFROIC (Cash Flow Return on Invested Capital): A measure of how effectively a company generates cash flow based on legacy capital investment.

Convexity: A measure of the sensitivity of a fixed income investment's duration to changes in yield.

Developed Markets: Using the Morgan Stanley Capital International (MSCI) geographic definition, this region includes: United Kingdom, Europe (Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Norway, Spain, Sweden and Switzerland), Japan, Pacific Asia (Australia, Hong Kong, New Zealand, and Singapore) and the Western Hemisphere (Canada and other Americas).

Debt to Total Capital Ratio: This figure is the percentage of each company's invested capital that consists of debt. Companies with a high Debt to Total Capital level may be considered more risky. From a portfolio perspective, the portfolio Debt to Total Capital Ratio is a weighted average of the individual holdings' Debt to Total Capital Ratio.

Duration: A measure of the price sensitivity of a fixed income investment to a change in interest rates, stated in years.

Emerging Markets: Using MSCI's geographic definition, this region includes: Emerging Markets Asia (China, India, Indonesia, Malaysia, S Korea, Taiwan, and Thailand), Emerging Markets Europe, Mid-East and Africa (Czech Republic, Hungary, Poland, Russia, Turkey, Egypt, Morocco, and S Africa), and Latin America (Argentina, Brazil, Chile, Columbia, Mexico, Peru and Venezuela).

EPS Estimate Revision Breadth: A 1-month factor representing the trend in the direction of estimate changes. Range from -100% to +100%, it is calculated as the number of positive revisions minus the number of negative revisions divided by the total number of estimates.

EPS (Earnings Per Share) Growth Rate (Projected): This measure represents the weighted average of forecasted growth in earnings expected to be experienced by the stocks within the portfolio over the next year. From a portfolio perspective, the portfolio EPS Growth Rate is a weighted average of the individual holdings' EPS Growth Rate.

EPS Growth Rate (5-Year Historic): The weighted average earnings per share growth for stocks within the portfolio over the past 5 years.

EV/EBITDA (Enterprise Value/Earnings Before Interest, Taxes and Depreciation-Amortization): The EV/EBITDA ratio is useful for global comparisons because it ignores the distorting effects of individual countries' taxation policies. It's used to find attractive takeover candidates. Enterprise value is a better measure than market cap for takeovers because it takes into account the debt which the acquirer will have to assume. Therefore, a company with a low EV/EBITDA ratio can be viewed as a good takeover candidate.

EV/IC: (Enterprise Value/Invested Capital) Ratio: Enterprise Value (EV), which is market capitalization minus cash plus debt divided by Invested Capital (IC), which is the sum of common stock, preferred stock and long-term debt. This number will get you a simple multiple. If it is below 1.0, then it means that the company is selling below book value and theoretically below its liquidation value.

Frontier Markets: Less advanced capital markets in the developing world.

FX: In finance, an exchange rate is the rate at which one currency will be exchanged for another. It is also regarded as the value of one country's currency in relation to another currency.

Information Ratio: A measure of risk-adjusted return. The annualized excess return of the portfolio relative to a respective benchmark, divided by the annualized tracking error relative to that same benchmark. The higher the measure, the higher the risk-adjusted return.

Integrated: Constructs a portfolio of the top 20% of stocks based on William Blair's multi-factor composite model, which uses Earnings Trend, Momentum, Quality, and Valuation factors. The portfolio is rebalanced on a monthly basis and weights stocks based on relative market capitalization.

Option-Adjusted Spread (OAS): A measure of the spread of a fixed income investment's yield relative to a benchmark, adjusted to take into account an embedded option.

PBVn (Price/Book Value) Ratio: The PBV Ratio measures the value of a company's common stock relative to its shareholder's equity. A price-to-book multiple above one means that the price of the company's common stock is higher than its common shareholder's equity. A price-to-book multiple below one means that the price of the company's common stock are less than its break-up value, and the shares may be undervalued.

PCF (Price/CashFlow): Some analysts favor the price/cash flow over the price-earnings (PE) ratio as a measure of a company's value. Cash flow is a measure of a company's financial health. It equals cash receipts minus cash payments over a given period of time.

P/E (Price/Earnings) Ratio: This is the most common measure of how expensive a stock is. Simply, it is the cost an investor in a given stock must pay per dollar of current annual earnings. A high P/E generally indicates that the market is paying more to obtain the stock because it has confidence in the company's ability to increase its earnings. Conversely, a low P/E often indicates that the market has less confidence that the company's earnings will increase rapidly or steadily, and therefore will not pay as much for its stock.

R-squared: A measurement of how closely the portfolio's performance correlates with the performance of its benchmark, such as the MSC AC World Free ex US Index. In other words, it is a measurement of what portion of a portfolio's performance can be explained by the performance of the overall market or index. Ranges from 0 to 1, where 0 indicates no correlation and 1 indicates perfect correlation.

Recovery Rate: The extent to which principal and interest on defaulted debt can be recovered, expressed as a percentage of face value.

Risk (Standard Deviation): A measure of the portfolio's risk. A higher standard deviation represents a greater dispersion of returns, and thus a greater amount of risk. The annualized standard deviation is calculated using monthly returns.

Silo: Constructs portfolios using the top 20% of stocks based on each of the four sub-models used to construct William Blair's composite model, then averages the returns coming from each of the four portfolios. The portfolios are rebalanced on a monthly basis and weights stocks based on relative market capitalization. (The Equal Weighted strategy equally weights the returns coming from each of the sub-portfolios; the Optimized approach weights Quality 5%, Valuation 60%, Earnings Trend 5%, and Momentum 30%. The optimization was based on a monte-carlo simulation that sought an optimal weighting of each sub-portfolios to achieve the highest return).

Sortino Ratio: A modification of the Sharpe ratio that differentiates harmful volatility from general volatility by taking into account the standard deviation of negative asset returns, called downside deviation. The Sortino ratio subtracts the risk-free rate of return from the portfolio's return, and then divides that by the downside deviation. A large Sortino ratio indicates there is a low probability of a large loss.

Sharpe-Ratio: A risk-adjusted measure calculated using standard deviation and excess return (Portfolio return - Risk Free Rate) to determine reward per unit of risk. The higher the Sharpe ratio, the better the portfolio's historic risk-adjusted performance.

Spread Duration: A measure of the price sensitivity of a fixed income investment to a change in credit spreads.

Tracking Error: Tracking Error measures the extent to which a portfolio tracks its benchmark. The tracking error of an index portfolio should be lower than that of an active portfolio. The tracking error will always be greater than zero if the portfolio is anything other than a replication of the benchmark.

Trailing 1-Year Turnover: This figure reflects the portfolio's trading activity by calculating the amount of the portfolio's holdings bought or sold over the prior year, expressed as a percentage of the portfolio's average market value. Turnover figures may be related to the amount of trading costs experienced by the portfolio.

Weighted Average Market Capitalization: Market capitalization refers to the total market value of each company's outstanding shares. The Weighted Average Market Capitalization for a portfolio is calculated as the average market capitalization of the stocks within the portfolio, weighted by the amount of each stock owned.

Weighted Median Market Capitalization: This calculation represents the median market capitalization of the stocks in the portfolio, weighted by the amount of each stock owned.

Yield to Maturity: A representation of the rate of return anticipated on a bond if held until its maturity.

Yield to Worst: A representation of the lowest potential yield that an investor would receive on a bond if the issuer does not default.

Glossary – Indices

Bloomberg Barclays U.S. Aggregate Bond Index: A broad-based benchmark that measures the investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, mortgage-backed securities (agency fixed-rate and hybrid ARM pass-throughs), asset-backed securities and commercial mortgage backed securities.

Bloomberg Barclays Intermediate Govt./Credit Index: A fixed-rate government and corporate bonds rated investment grade or higher.

Bloomberg Barclay's Multiverse Index: Provides a broad-based measure of the global fixed-income bond market. The index represents the union of the Global Aggregate Index and the Global High-Yield Index and captures investment grade and high yield securities in all eligible currencies. Standalone indices such as the Euro Floating-Rate ABS Index and the Chinese Aggregate Index are excluded. The Multiverse Index family includes a wide range of standard and customized sub-indices by sector, quality, maturity, and country.

Bloomberg Barclays U.S. Intermediate Aggregate Bond Index: A broad-based benchmark that measures the investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, mortgage-backed securities (agency fixed-rate and hybrid ARM pass-throughs), asset-backed securities and commercial mortgage backed securities with maturities between one and 10 years.

ICE BofAML 1-Year U.S. Treasury Note Index: An unmanaged index comprised of a single U.S. Treasury Bill issued at the beginning of each month and held for a full month. Each month the index is rebalanced and the issue selected is the outstanding U.S. Treasury Note that matures closest to, but not beyond one year from the rebalancing date.

ICE BofAML 3-Month Treasury Bill Index: An unmanaged market index of U.S. Treasury securities maturing in 90 days that assumes reinvestment of all income.

J.P. Morgan Cash Index: Measures the total return of a rolling investment in a notional fixed income instrument with a maturity of three months. The deposit rates used in the calculation of the JP Morgan Cash Index are LIBOR or similar local reference rates.

Merrill Lynch 1-Year U.S. Treasury Note Index: Comprised of a single U.S. Treasury Bill issued at the beginning of each month and held for a full month. Each month the index is rebalanced and the issue selected is the outstanding U.S. Treasury Note that matures closest to, but not beyond one year from the rebalancing date.

Merrill Lynch 3-Month Treasury Bill Index: An unmanaged index market index of U.S. Treasury securities maturing in 90 days that assumes reinvestment of all income.

MSCI (Morgan Stanley Capital International): MSCI indices are the most widely used benchmarks by global portfolio managers. MSCI offers international investors performance benchmarks for 51 national stock markets as well as regional, sector, industry group, and industry aggregations.

MSCI China A Onshore Index: A free-float weighted equity index, designed to measure performance of China A share securities listed on either the Shanghai or Shenzhen Stock Exchanges.

MSCI All Country World ex-US EAFE Index: An unmanaged index that includes developed and emerging markets outside the United States.

MSCI All Country World ex-US Small Cap Index: A free float-adjusted market capitalization index designed to measure global developed and emerging market small capitalization equity performance, excluding the U.S.

MSCI EAFE Index: A free float-adjusted market capitalization index which captures large and mid cap representation across Developed Markets countries around the world, excluding the U.S. and Canada.

MSCI EAFE IMI Index: A free float-adjusted market capitalization index which captures large, mid and small cap representation across Developed Markets countries around the world, excluding the U.S. and Canada.

MSCI EAFE Growth Index: A free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the U.S. & Canada.

MSCI All Country World ex-US Index: An unmanaged index that includes developed and emerging markets, excluding the U.S.

MSCI All Country World ex-US Growth Index: A free float-adjusted market capitalization index that is designed to provide a broad measure of equity-market performance throughout the world, excluding the U.S. It includes those MSCI All Country World ex-US securities with higher price-to-book ratios and higher forecasted growth rates.

MSCI All Country World ex-US IMI Index: A free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets, excluding the U.S.

MSCI All Country World IMI Index: A free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets.

MSCI All Country World ex-US IMI Growth Index: A free float-adjusted market capitalization index that is designed to measure equity market performance in the global developed and emerging markets, excluding the U.S. It includes those MSCI All Country World ex-US IMI Index securities with higher price-to-book ratios and higher forecasted growth rates.

MSCI World ex-US Growth Index: A free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed markets, excluding the U.S., with higher price-to-book ratios and higher forecasted growth rates.

MSCI World ex-US Index: A free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed markets, excluding the U.S.

MSCI Emerging Markets Index: A free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

MSCI Emerging Markets IMI Index: A free float-adjusted market capitalization index which captures large, mid and small cap equity market performance in the global emerging markets.

MSCI Emerging Markets Small Cap Index: A free float-adjusted market capitalization index that is designed to measure equity market performance of small cap companies in emerging markets.

MSCI Emerging Markets Large Cap Index: A free float-adjusted market capitalization index that is designed to measure equity market performance of large cap companies in emerging markets.

MSCI World ex-US Small Cap Index: An unmanaged index that includes non-US developed markets.

Russell 1000 Index: Measures the performance of the 1000 largest companies in the Russell 3000 Index, which represents approximately 90% of the total market capitalization of the U.S. market.

Russell 1000 Growth Index: Measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

Russell 1000 Value Index: Measures the performance of the large cap value segment of the U.S. equity universe. It includes those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

Russell 2000 Index: Measures the performance of the 2000 smallest companies in the Russell 3000 index, which represents approximately 8% of the total market capitalization of the Russell 3000 index.

Russell 2000 Growth Index: Measures the performance of those Russell 2000 companies with higher price to book ratios and higher forecasted growth values.

Russell 2000 Value Index: Measures the performance of those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

Russell 2500 Index: Measures the performance of the 2500 smallest companies in the Russell 3000 Index.

Russell 2500 Growth Index: Measures the performance of those Russell 2500 companies with higher price-to book ratios and higher forecasted growth values.

Russell 2500 Value Index: Measures the performance of those Russell 2500 companies with lower price-to book ratios and lower forecasted growth values.

Russell 3000 Index: Measures the performance of the 3000 largest U.S. companies based on total market capitalization, which represents approximately 98% of the investable U.S. equity market.

Russell 3000 Growth Index: Measures the performance of those Russell 3000 companies with higher price-to-book ratios and higher forecasted growth values.

Russell Midcap Index: Measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 27% of the total market capitalization of the Russell 1000 companies.

Russell Midcap Growth Index: Measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values.

Russell Midcap Value Index: Measures the performance of the mid-cap value segment of the U.S. equity universe. It includes those Russell Midcap Index companies with lower price-to-book ratios and lower forecasted growth values.

S&P 500 Index: The Standard & Poor's 500 Index (S&P 500) is an index of 500 stocks chosen for market size, liquidity and industry grouping, among other factors. The S&P 500 is designed to be a leading indicator of U.S. equities and is meant to reflect the risk/return characteristics of the large cap universe. Companies included in the index are selected by the S&P Index Committee, a team of analysts and economists at Standard & Poor's. The S&P 500 is a market value weighted index—each stock's weight is proportionate to its market value.

A direct investment in an unmanaged index is not possible.

Quantitative Models – Definitions

Factor	Examples
<p>Quality</p>	
<p>The William Blair Quality Model attempts to put into quantitative terms one of the cornerstones of the firm’s investment philosophy: identifying high quality companies. The score combines measurements of sustainable value creation, earnings quality, and financial strength.</p>	<p>Cash Flow ROIC Cash Flow Accruals Net Debt/EBITDA</p>
<p>Valuation</p>	
<p>The William Blair Valuation Model combines varying metrics used to characterize the relationship between the stock’s trading price and its intrinsic value. By going beyond using only one or two measures, the model attempts to build a more holistic version of a stock’s worth vis-a-vis the market. The score combines measurements of earnings/cash flow based, asset-based, and model-based factors.</p>	<p>Free Cash Flow Yield Price/NTM Earnings Enterprise Value/Sales</p>
<p>Earnings Trend</p>	
<p>The William Blair Earnings Trend Model captures information about short- and medium-term changes in analyst estimates in an attempt to anticipate future estimate changes and stock performance. The score combines measurements of earnings revisions, earnings momentum, and earnings surprise.</p>	<p>3 Month EPS Revisions Standardized Unexpected Earnings (SUE)</p>
<p>Momentum</p>	
<p>The William Blair Momentum Model combines information about short- and medium-term performance trends for each stock in order to identify stocks that may be able to persist in outperformance over the near term.</p>	<p>12 Month Volatility Adjusted Return 6 Month Sharpe Ratio</p>
<p>Growth</p>	
<p>The William Blair Growth Model builds a long-term growth estimate based on a combination of realized and forecast growth rates. The inputs and results of this model are not limited to earnings, but instead cast a broader net to include measures of a firm’s overall growth. In addition to providing a Growth Model score, the growth rate generated by the model is used as an input into other models.</p>	<p>Historical & Expected Growth 6 & 10 Year Average Trend Growth</p>
<p>Volatility</p>	
<p>The William Blair Volatility Model captures the variability in short- and long-term fundamental returns which include ROE, Margins, and EPS.</p>	<p>ROE Range/Average Coefficient of Variation & Dispersion of EPS</p>
<p>Composite</p>	
<p>The William Blair Composite Model produces an aggregate score from the Quality, Valuation, Earnings Trend, and Momentum models using a proprietary weighting mix.</p>	

William Blair proprietary quantitative model.

Performance

Preliminary Performance (% USD)	ANNUALIZED						Inception Date
	Qtr	1 Yr	3 Yr	5 Yr	10 Yr	Since Inception	
U.S. EQUITY							
All Cap Growth	4.65	66.85	24.01	21.50	15.96	11.99	Jan 01 1993
All Cap Growth (net of fees)	4.46	65.66	23.12	20.64	15.15	11.17	
Russell 3000 Growth	1.19	64.31	22.39	20.87	16.35	10.28	
Large Cap Growth	2.29	60.78	24.62	23.11	18.16	9.15	Jul 01 1998
Large Cap Growth (net of fees)	2.17	59.98	23.95	22.39	17.43	8.49	
Russell 1000 Growth	0.94	62.74	22.80	21.05	16.63	8.11	
Mid Cap Growth	-1.60	57.04	17.77	16.89	12.51	11.65	Apr 01 1997
Mid Cap Growth (net of fees)	-1.78	55.87	16.82	15.91	11.53	10.64	
Russell Midcap Growth	-0.57	68.61	19.41	18.39	14.11	10.50	
SMID Growth	4.38	74.71	20.04	21.37	16.01	12.08	Jul 01 1998
SMID Growth (net of fees)	4.13	73.06	18.91	20.22	14.92	11.01	
Russell 2500 Growth	2.49	87.50	19.96	19.91	14.21	9.54	
Small Cap Growth	8.23	101.89	21.17	24.26	16.68	12.50	Jan 01 1994
Small Cap Growth (net of fees)	7.97	99.88	19.96	23.02	15.52	11.38	
Russell 2000 Growth	4.88	90.20	17.16	18.61	13.02	8.70	
U.S. Equity Sustainability	7.70	--	--	--	--	7.70	Jan 01 2021
U.S. Equity Sustainability (net of fees)	7.54	--	--	--	--	7.54	
Russell 2500	6.17	--	--	--	--	6.17	
SMID Core	13.06	85.18	17.13	--	--	17.18	Jun 01 2017
SMID Core (net of fees)	12.83	83.61	16.10	--	--	16.12	
Russell 2500	10.93	89.40	15.34	--	--	15.36	
Small Cap Value	15.31	68.35	6.07	9.11	8.93	10.71	Jan 01 1997
Small Cap Value (net of fees)	15.05	66.85	5.06	8.05	7.86	9.62	
Russell 2000 Value	21.17	97.05	11.57	13.56	10.06	9.63	
GLOBAL EQUITY							
Global Leaders	1.31	64.81	17.35	18.35	13.10	9.82	Jul 01 2007
Global Leaders (net of fees)	1.11	63.50	16.41	17.40	12.20	8.90	
MSCI All Country World IMI	5.14	57.58	11.90	13.21	9.15	6.17	
Global Leaders Concentrated	-1.83	67.53	--	--	--	34.41	Jan 01 2020
Global Leaders Concentrated (net of fees)	-2.03	66.20	--	--	--	33.34	
MSCI All Country World IMI	5.14	57.58	--	--	--	17.41	
Global Leaders Sustainability	0.04	62.59	--	--	--	26.94	Feb 01 2019
Global Leaders Sustainability (net of fees)	-0.16	61.29	--	--	--	25.93	
MSCI All Country World IMI	5.14	57.58	--	--	--	17.88	
International Growth	-0.89	62.94	12.92	13.89	9.20	11.03	Dec 01 1992
International Growth (net of fees)	-1.08	61.64	12.02	12.99	8.33	10.09	
MSCI AC World ex-U.S. IMI	3.77	51.94	6.51	9.84	5.11	6.61	
International Leaders	-0.78	55.24	14.40	15.36	10.99	11.30	Feb 01 2003
International Leaders (net of fees)	-0.98	54.01	13.49	14.44	10.10	10.34	
MSCI AC World ex-U.S. IMI	3.77	51.94	6.51	9.84	5.11	8.78	
International Leaders Concentrated¹	-2.51	--	--	--	--	17.93	Aug 01 2020
International Leaders Concentrated ¹ (net of fees)	-2.63	--	--	--	--	17.31	
MSCI AC World ex-U.S. IMI	3.60	--	--	--	--	24.28	
International Leaders ADR	-0.48	53.54	12.35	12.26	7.86	5.94	Apr 01 2000
International Leaders ADR (net of fees)	-0.65	52.47	11.56	11.47	7.09	5.13	
International Leaders ADR Custom Benchmark ²	3.77	51.94	6.87	9.98	5.03	6.33	
Emerging Markets Growth	0.83	79.91	13.40	17.38	8.34	11.96	Oct 01 1996
Emerging Markets Growth (net of fees)	0.58	78.13	12.27	16.21	7.26	10.79	
MSCI Emerging Markets IMI	2.86	61.09	6.33	11.75	3.61	5.55	

Preliminary Performance (% USD)	ANNUALIZED						Inception Date
	Qtr	1 Yr	3 Yr	5 Yr	10 Yr	Since Inception	
GLOBAL EQUITY (Continued)							
Emerging Markets Leaders	1.16	71.79	11.85	15.60	7.02	5.87	Apr 01 2008
Emerging Markets Leaders (net of fees)	0.94	70.25	10.85	14.57	6.06	4.88	
MSCI Emerging Markets	2.29	58.39	6.48	12.07	3.65	3.81	
Emerging Markets Leaders Concentrated¹	-4.28	--	--	--	--	16.51	Aug 01 2020
Emerging Markets Leaders Concentrated ¹ (net of fees)	-4.42	--	--	--	--	15.82	
MSCI Emerging Markets	-0.76	--	--	--	--	23.13	
Emerging Markets Small Cap Growth	2.88	72.99	9.15	12.92	--	12.57	Nov 01 2011
Emerging Markets Small Cap Growth (net of fees)	2.60	71.10	7.96	11.68	--	11.34	
MSCI Emerging Markets Small Cap	7.67	87.13	5.19	9.59	--	5.66	
China A-Shares Growth	-7.58	75.50	27.27	--	--	26.55	Jan 01 2018
China A-Shares Growth (net of fees)	-7.78	73.93	26.03	--	--	25.31	
MSCI China A Index	-3.52	49.66	8.22	--	--	6.97	
International Small Cap Growth	-1.85	69.46	10.35	12.14	9.40	11.73	Jan 01 2004
International Small Cap Growth (net of fees)	-2.09	67.77	9.25	11.02	8.31	10.62	
MSCI AC World ex-U.S. Small Cap	5.53	69.82	6.61	10.40	6.32	8.75	
U.S. FIXED INCOME							
Core Fixed Income	-3.06	5.96	5.22	4.13	4.46	5.44	Jan 01 1998
Core Fixed Income (net of fees)	-3.15	5.54	4.80	3.71	4.04	5.03	
Bloomberg Barclays Aggregate	-3.37	0.71	4.65	3.10	3.44	4.82	
Intermediate Core Fixed Income	-0.92	4.22	3.86	2.95	3.29	3.83	Jul 01 2003
Intermediate Core Fixed Income (net of fees)	-1.02	3.80	3.44	2.53	2.87	3.42	
Bloomberg Barclays Gov't/Credit Inter.	-1.86	2.01	4.36	2.75	2.88	3.45	
Low Duration Fixed Income	0.02	2.67	2.84	2.23	2.02	2.99	Jan 01 1999
Low Duration Fixed Income (net of fees)	-0.05	2.36	2.53	1.92	1.72	2.68	
ICE BofAML 1-Yr Treasury Note Index	0.07	0.17	2.14	1.52	0.92	2.34	
Sustainable Fixed Income	-3.02	6.67	--	--	--	6.32	Sep 01 2018
Sustainable Fixed Income (net of fees)	-3.09	6.35	--	--	--	6.00	
Bloomberg Barclays Aggregate	-3.37	0.71	--	--	--	5.22	
EMERGING MARKETS DEBT							
Emerging Markets Debt Hard Currency	-3.88	25.69	--	--	--	25.69	Apr 01 2020
Emerging Markets Debt Hard Currency (net of fees)	-4.01	24.75	--	--	--	24.75	
JP Morgan EMBI Global Diversified Index	-4.54	16.00	--	--	--	16.00	
Emerging Markets Debt Local Currency	-6.15	--	--	--	--	5.46	Jul 01 2020
Emerging Markets Debt Local Currency (net of fees)	-6.27	--	--	--	--	4.91	
JP Morgan GBI-EM Global Diversified Index	-6.68	--	--	--	--	2.93	
MULTI-ASSET							
Macro Allocation	0.74	5.87	0.99	2.54	--	4.39	Dec 01 2011
Macro Allocation (net of fees)	0.59	5.24	0.32	1.87	--	3.66	
ICE BofAML 3M T-Bill	0.03	0.12	1.49	1.19	--	0.67	
Global Diversified Return	1.35	19.08	7.57	7.83	--	7.76	Jan 01 2013
Global Diversified Return (net of fees)	1.20	18.38	6.74	6.97	--	6.83	
Global Diversified Return Blended Index ³	2.51	27.35	10.02	9.30	--	8.07	
Absolute Return Currency	-2.47	-0.86	--	--	--	0.70	May 01 2018
Absolute Return Currency (net of fees)	-2.62	-1.45	--	--	--	0.04	
ICE BofAML 3M T-Bill	0.03	0.12	--	--	--	1.49	
Dynamic Diversified Allocation	-0.82	8.60	4.70	5.02	--	5.66	Apr 01 2013
Dynamic Diversified Allocation (net of fees)	-0.97	7.96	3.89	4.17	--	4.66	
ICE BofAML 3M T-Bill	0.03	0.12	1.49	1.19	--	0.77	

As of March 31, 2021

For illustrative purposes, the upper axis bar graph scaling has been modified to smooth the impact of significant outliers. Actual relative returns are shown next to each bar.

¹Strategy closed to new separate account and CIT investors.

²From inception through December 31, 2015, the Global Diversified Return Blended Index consisted of 50% MSCI ACWI hedged to USD net and 50% Bloomberg Barclays US Aggregate Index. From January 1, 2016 through September 30, 2020, it consisted of 50% MSCI ACWI hedged to USD (net) and 50% Bloomberg Barclays Multiverse Index hedged to USD. From October 1, 2020, it has consisted of 60% MSCI ACWI hedged to USD (net) and 40% Bloomberg Barclays Multiverse Index hedged to USD.

³The benchmark that best reflects the composite's investment strategy is a custom benchmark, linking the MSCI All Country World Ex US Index (net) through June 30, 2019, to the MSCI All Country World Ex US Investable Market Index (net) after June 30, 2019. The benchmark was changed in December 2020 from the MSCI All Country World Ex US Index (net).

Past performance is not indicative of future returns. Performance shown in U.S. dollar. Returns for periods greater than one year are annualized. Gross performance results shown do not reflect the deduction of investment management fees, assume the reinvestment of dividends and capital gains, and are net of transaction costs. Performance results will be reduced by the fees incurred in the management of the account. For example, assuming an annual gross return of 8% and an annual management/advisory fee of .40%, the net annualized total return of the portfolio would be 7.58% over a 5-year period. Investment management fees are described in William Blair's Form ADV Part 2A. Please see appendix for additional information, including net performance. To receive additional information about the composite performance shown, write William Blair, 150 North Riverside Plaza, Chicago, IL, 60606, USA, or info@williamblair.com, or visit : <http://www.williamblair.com/~media/Downloads/Emarketing/2020/AM/Disclosures.pdf>

Important Disclosures

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Performance cited represents past performance. Past Performance does not guarantee future results.

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Composite Presentation Report

International Growth

Calendar Year	Composite Gross Return (%)	Composite Net Return (%)	MSCI AC ex US IMI (net) -Linked Return (%)	Composite 3-Yr Std Dev (%)	Benchmark 3-Yr Std Dev (%)	Number of Portfolios	Dispersion (%)	Composite Assets End of Period \$(mm)	Total Firm Assets \$(mm)
2011	-13.05	-13.74	-14.31	20.43	22.79	41	0.52	11,567.14	41,191.28
2012	23.94	22.95	17.04	18.02	19.29	41	0.58	14,265.48	49,610.61
2013	21.14	20.17	15.82	15.41	16.24	40	0.27	16,962.01	62,018.81
2014	-1.40	-2.18	-3.89	12.03	12.78	38	0.23	15,481.25	63,060.05
2015	0.46	-0.34	-4.60	10.94	11.95	36	0.29	15,242.21	64,777.78
2016	-1.40	-2.18	4.41	11.22	12.38	40	0.30	14,279.91	64,872.51
2017	30.95	29.90	27.81	11.01	11.77	38	0.34	16,350.96	73,549.85
2018	-16.88	-17.54	-14.76	12.29	11.47	36	0.24	12,464.52	48,880.26
2019	32.07	31.02	21.63	12.29	11.34	30	0.34	14,348.99	58,446.29
2020	32.80	31.74	11.12	18.28	18.27	33	1.39	15,583.82	69,739.61

Disclosures:

William Blair Investment Management claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS standards. William Blair Investment Management has been independently verified for the periods January 1, 1993 through December 31, 2020. A firm that claims compliance with the GIPS standards must establish policies and procedures for complying with all the applicable requirements of the GIPS standards. Verification provides assurance on whether the firm's policies and procedures related to composite and pooled fund maintenance, as well as the calculation, presentation, and distribution of performance, have been designed in compliance with the GIPS standards and have been implemented on a firm-wide basis. The International Growth Composite has had a performance examination for the periods from composite inception through December 31, 2020. The verification and performance examination reports are available upon request.

For purposes of compliance with GIPS, the Firm is defined as all portfolios managed by William Blair Investment Management, a distinct operating unit within William Blair. William Blair Investment Management currently operates as William Blair Investment Management, LLC, an investment adviser registered with the United States Securities and Exchange Commission ("SEC") which is a separate legal entity that is distinct from William Blair & Company, L.L.C. Registration with the SEC does not imply a certain level of skill or training.

The International Growth strategy invests in a broad range of companies based in developed and emerging markets outside of the United States. Companies have had and are expected to maintain superior growth, profitability and quality relative to local markets. The strategy will occasionally include the use of forward currency contracts to hedge some of the foreign currency exposure which accompanies investment in foreign currency-denominated securities. A portfolio manager change occurred effective 5/1/2013, 12/1/2013, 5/1/2015, 12/1/2017, and 3/1/2018. The investment strategy was not materially altered by the personnel change.

The benchmark that best reflects the composite's investment strategy is the MSCI All Country World Ex US Investable Market Index (net), which is a free float-adjusted market capitalization index that is designed to measure equity market performance, net of withholding taxes, in the global developed and emerging markets, excluding the US.

Portfolios must have an initial market value greater than or equal to \$1 million to be included in the composite. New portfolios are added to the composite at the beginning of the month following the first full calendar month under management. Portfolios will be excluded from the composite the first month immediately following the last complete month of authorized management by the Firm. Portfolios are removed from this composite, in the event of a significant cash flow, for the month during which the flow occurs. Portfolios are typically added back into the composite the following month. A portfolio is determined to have a significant cash flow if the accumulated net external flows of cash and/or securities during a month total more than 25% of the beginning of month portfolio market value. Additional information regarding the treatment of significant cash flows is available upon request.

Performance includes the reinvestment of dividends and other earnings. Portfolio and composite returns are calculated daily. Valuations and returns are denominated in U.S. Dollars. Accrual accounting is used for dividends. The dividend accruals included in portfolio valuations are net of applicable withholding taxes. Pending withholding tax reclaims are not accrued for in the portfolio valuations. Composite dispersion measures represent the consistency of a firm's composite performance with respect to the individual portfolio returns within a composite. The dispersion of annual returns is measured by the asset-weighted standard deviation of the gross returns in the composite. Dispersion includes only those portfolios that have been included in the composite for the entire year. The three-year annualized standard deviation measures the variability of the gross composite returns and the benchmark returns over the preceding 36-month period. This statistic is not presented until there are 36 months of performance available.

Performance results are stated gross of management fees and net of a model investment management fee for the strategy. The model fee is the maximum separate account management fee as of the time the composite return was calculated, applied by dividing that annual fee by the count of the annual calculation periods for the composite and then subtracting that quotient from the periodic gross composite returns. Actual fees may vary depending on, among other things, the applicable fee schedule and portfolio size. The current separate account management fee schedule is as follows:

Up to \$20,000,000: 0.80%
 Next \$30,000,000: 0.60%
 Next \$50,000,000: 0.50%
 Next \$50,000,000: 0.45%
 Next \$50,000,000: 0.40%
 Over \$200,000,000: 0.30%

The strategy is available via one or more pooled funds, which may have alternate fee schedules. The highest pooled fund management fee is 1.01%. The highest pooled fund expense ratio is 1.45%. The International Growth Composite was created in October 2001. The composite performance inception date is December 1, 1992.

A complete list and description of firm composites and pooled funds is available upon request. Additional information regarding policies for valuing portfolios, calculating performance and preparing compliant presentations is also available upon request. Past performance is not indicative of future results.

International Growth Performance Summary

Performance for periods ending March 31, 2021

	Qtr	Annualized						Strategy Inception (Dec 1 92)
		1 Yr	3 Yr	5 Yr	10 Yr	Since Oct 1 96 ¹		
Composite Performance (%)								
International Growth (Gross of fees)	-0.89	62.94	12.92	13.89	9.20	10.57	11.03	
International Growth (Net of fees)	-1.08	61.64	12.02	12.99	8.33	9.64	10.09	
MSCI AC World ex-US IMI Index	3.77	51.94	6.51	9.84	5.11	5.54	6.61	
Relative Performance (Gross of fees)	-4.66	11.00	6.40	4.05	4.09	5.04	4.42	

Annual Composite Performance (%)	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
International Growth (Gross of fees)	32.80	32.07	-16.88	30.95	-1.40	0.46	-1.40	21.14	23.94	-13.05	21.19	46.32	-52.27
International Growth (Net of fees)	31.74	31.02	-17.54	29.90	-2.18	-0.34	-2.18	20.17	22.95	-13.74	20.22	45.01	-52.73
MSCI AC World ex-US IMI Index	11.12	21.63	-14.76	27.81	4.41	-4.60	-3.89	15.82	17.04	-14.31	12.73	43.60	-45.99
Annual Composite Performance (%)	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996²	
International Growth (Gross of fees)	19.73	25.04	23.07	20.12	44.10	-13.79	-12.99	-6.23	100.28	12.92	9.97	2.94	
International Growth (Net of fees)	18.68	23.95	21.99	19.07	42.85	-14.57	-13.77	-7.07	98.59	11.92	9.00	2.71	
MSCI AC World ex-US IMI Index	16.13	26.51	17.68	21.93	42.34	-12.94	-19.83	-19.44	37.72	11.97	-3.30	0.16	

¹Reflects the inception of the strategy's current management style. At this time, changes were made to the portfolio management team and the way the philosophy was implemented. Actual composite inception precedes this date. This information is supplemental to the composite disclosure slide located in the appendix.

²Partial year performance from December 1 to December 31, 1992.

Past performance is not indicative of future returns. Performance is shown in U.S. dollar unless otherwise noted. Net investment performance represents the deduction of the highest possible fee. Actual client net returns may be higher or lower depending on fees charged to your account and the amount invested.

Returns for periods greater than one year are annualized. Gross performance results shown do not reflect the deduction of investment management fees, assume the reinvestment of dividends and capital gains, and are net of transaction costs. Performance results will be reduced by the fees incurred in the management of the account. For example, assuming an annual gross return of 8% and an annual management/advisory fee of .40%, the net annualized total return of the portfolio would be 7.58% over a 5-year period. Net investment performance represents the deduction of the highest possible fee. Investment management fees are described in William Blair's Form ADV Part 2A. The benchmark that best reflects the composite's investment strategy is the MSCI All Country World Ex US Investable Market Index (net), which is a free float-adjusted market capitalization index that is designed to measure equity market performance, net of withholding taxes, in the global developed and emerging markets, excluding the US. Prior to 1995, the MSCI All Country World Ex US Index preceded the current benchmark as returns are unavailable back to composite inception for the current benchmark. International investing involves special risk considerations, including currency fluctuations, lower liquidity, economic and political risk. Please see GIPS Composite Report in appendix for a complete description of the composite.