



WILSHIRE ASSOCIATES

Wilshire Consulting



Chatham University

Monthly Performance Summary

June 30, 2018

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending June 30, 2018

	Net of Fee Returns									Market Value	
	Month	CYTD	FYTD 6/30/17	1 Year	3 Years	5 Years	10 Years	Inception Return	Inception Date	\$	Percent
Domestic Equity Composite	0.80	3.54	15.29	15.29	11.44	13.29	10.34	10.21	3/31/91	19,505,144	24.36
Wilshire 5000	0.65	3.04	14.66	14.66	11.85	13.36	10.23	9.93	3/31/91		
Value Added	0.15	0.50	0.63	0.63	-0.41	-0.07	0.11	0.28	3/31/91		
International Equity Composite	-1.97	-2.86	7.80	7.80	6.65	6.19	2.33	7.26	9/30/01	15,625,549	19.52
Policy Index	-1.81	-3.52	7.16	7.16	4.64	5.47	2.46	7.01	9/30/01		
Value Added	-0.17	0.66	0.64	0.64	2.02	0.73	-0.13	0.25	9/30/01		
MSCI ACWI X US (N)	-1.88	-3.77	7.28	7.28	5.07	5.99	2.54	7.06	9/30/01		
Global Equity Composite	-0.25	-4.52	3.10	3.10	5.47	6.06		6.94	2/29/12	2,173,722	2.72
MSCI All Country World Index	-0.50	-0.13	11.31	11.31	8.78	9.99		9.71	2/29/12		
Value Added	0.25	-4.39	-8.20	-8.20	-3.30	-3.94		-2.78	2/29/12		
Fixed Income Composite	0.05	-0.57	0.72	0.72	2.51	2.94	5.12	5.37	4/30/01	9,308,747	11.63
Policy Index	0.22	-0.49	1.47	1.47	3.05	3.14	5.48	5.47	4/30/01		
Value Added	-0.16	-0.08	-0.76	-0.76	-0.54	-0.20	-0.36	-0.10	4/30/01		
Real Estate Composite	2.40	4.73	8.60	8.60	8.92	10.81		3.42	10/31/08	7,768,066	9.70
NCREIF Open End Div Core EQ NOF	1.85	3.86	7.51	7.51	8.39	10.04		4.58	10/31/08		
Value Added	0.55	0.87	1.09	1.09	0.53	0.77		-1.16	10/31/08		
Hedge Fund Composite	0.17	2.59	5.78	5.78	3.28	4.44	3.31	6.52	6/30/98	7,907,873	9.88
HFRI Fund-of-Funds Composite	-0.51	0.67	5.12	5.12	1.93	3.45	1.40	3.96	6/30/98		
Value Added	0.68	1.92	0.67	0.67	1.35	0.99	1.91	2.56	6/30/98		

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	Month	CYTD	FYTD 6/30/17	1 Year	3 Years	5 Years	10 Years	Inception Return	Inception Date	\$	Percent
Private Equity Composite	5.48	7.65	15.70	15.70	11.68	13.38	9.01	12.62	11/30/90	14,649,728	18.30
Chatham Custom PE Benchmark	2.47	5.13	9.44	9.44	6.27	8.01	6.08		11/30/90		
Value Added	3.01	2.53	6.26	6.26	5.42	5.38	2.93		11/30/90		
Cash Transition Account	0.17	0.81	1.36	1.36	0.68	0.43	0.40	1.14	7/31/04	3,118,327	3.90
Total Fund Composite	1.02	2.29	10.03	10.03	7.36	8.19	5.87	9.85	3/31/91	80,057,156	100.00
Policy Index	0.21	1.27	8.36	8.36	6.04	7.06	4.94	7.79	3/31/91		
Value Added	0.80	1.03	1.66	1.66	1.33	1.12	0.94	2.06	3/31/91		

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	Net of Fee Returns									Market Value	
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Mellon Lg Cap Stock Index	0.66	2.87	14.57	14.57	11.73	13.49	10.25	8.28	12/31/06	8,012,359	10.01
Russell 1000	0.65	2.85	14.54	14.54	11.64	13.37	10.20	8.22	12/31/06		
Value Added	0.01	0.02	0.04	0.04	0.09	0.12	0.05	0.05	12/31/06		
Mellon Carbon Eff Brd Mkt	0.74	3.63	15.40	15.40				14.24	2/28/17	4,208,797	5.26
Russell 3000	0.65	3.22	14.78	14.78				13.45	2/28/17		
Value Added	0.09	0.41	0.63	0.63				0.79	2/28/17		
DFA Small Cap	0.86	5.37	15.31	15.31	10.38	12.22		16.40	6/30/09	1,873,712	2.34
Russell 2000	0.72	7.66	17.57	17.57	10.96	12.46		15.48	6/30/09		
Value Added	0.15	-2.29	-2.26	-2.26	-0.58	-0.24		0.92	6/30/09		
DFA US Sustainability Core	0.84	3.69	16.07	16.07	11.43	13.09		14.31	7/31/12	5,410,276	6.76
Russell 3000	0.65	3.22	14.78	14.78	11.58	13.29		14.65	7/31/12		
Value Added	0.18	0.47	1.29	1.29	-0.16	-0.20		-0.34	7/31/12		
Domestic Equity Composite	0.80	3.54	15.29	15.29	11.44	13.29	10.34	10.21	3/31/91	19,505,144	24.36
Wilshire 5000	0.65	3.04	14.66	14.66	11.85	13.36	10.23	9.93	3/31/91		
Value Added	0.15	0.50	0.63	0.63	-0.41	-0.07	0.11	0.28	3/31/91		
Vanguard Dev Mkt	-1.52	-2.65	7.33	7.33				12.86	2/28/17	12,724,358	15.89
FTSE Developed All Cap ex US Ind	-1.45	-2.65	8.04	8.04				13.11	2/28/17		
Value Added	-0.07	-0.01	-0.71	-0.71				-0.25	2/28/17		
DFA Emerging Markets Value	-5.45	-7.17	5.74	5.74	5.99	4.57		5.64	6/30/09	1,375,028	1.72
MSCI EM Index (N)	-4.16	-6.65	8.20	8.20	5.60	5.01		6.33	6/30/09		
Value Added	-1.29	-0.52	-2.46	-2.46	0.39	-0.45		-0.69	6/30/09		

All values are preliminary.

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Oppenheimer Emerging	-2.51	-1.16	12.45	12.45	7.40	5.85	5.67	9.09	10/31/05	1,526,163	1.91
MSCI EM Index (N)	-4.16	-6.65	8.20	8.20	5.60	5.01	2.26	6.91	10/31/05		
Value Added	1.64	5.50	4.25	4.25	1.80	0.84	3.41	2.18	10/31/05		
International Equity Composite	-1.97	-2.86	7.80	7.80	6.65	6.19	2.33	7.26	9/30/01	15,625,549	19.52
Policy Index	-1.81	-3.52	7.16	7.16	4.64	5.47	2.46	7.01	9/30/01		
Value Added	-0.17	0.66	0.64	0.64	2.02	0.73	-0.13	0.25	9/30/01		
MSCI ACWI X US (N)	-1.88	-3.77	7.28	7.28	5.07	5.99	2.54	7.06	9/30/01		
Aberdeen Global	-0.25	-3.06	5.71	5.71	5.92	5.59		6.38	2/29/12	2,173,722	2.72
MSCI All Country World Index	-0.50	-0.13	11.31	11.31	8.78	9.99		9.71	2/29/12		
Value Added	0.25	-2.93	-5.60	-5.60	-2.85	-4.40		-3.34	2/29/12		
Global Equity Composite	-0.25	-4.52	3.10	3.10	5.47	6.06		6.94	2/29/12	2,173,722	2.72
MSCI All Country World Index	-0.50	-0.13	11.31	11.31	8.78	9.99		9.71	2/29/12		
Value Added	0.25	-4.39	-8.20	-8.20	-3.30	-3.94		-2.78	2/29/12		
BlackRock Total Return Bond Fund	-0.26	-1.61	-0.25	-0.25	2.04			1.91	11/30/14	3,343,743	4.18
Bloomberg Aggregate	-0.12	-1.62	-0.40	-0.40	1.72			1.43	11/30/14		
Value Added	-0.14	0.01	0.14	0.14	0.32			0.48	11/30/14		
Vanguard HY Corp Admiral	0.29	-1.09						-1.07	10/31/17	2,184,236	2.73
Policy Index	0.25	-0.48						-0.54	10/31/17		
Value Added	0.04	-0.60						-0.54	10/31/17		

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	Month	CYTD	FYTD 6/30/17	1 Year	3 Years	5 Years	10 Years	Inception Return	Inception Date	\$	Percent
Vanguard S-T TIPS Admiral	0.19	0.72	1.39	1.39				0.68	3/31/17	3,780,767	4.72
Bloomberg Barclays US 0-5 TIPS	0.16	0.68	1.38	1.38				0.69	3/31/17		
Value Added	0.03	0.04	0.01	0.01				-0.01	3/31/17		
Fixed Income Composite	0.05	-0.57	0.72	0.72	2.51	2.94	5.12	5.37	4/30/01	9,308,747	11.63
Policy Index	0.22	-0.49	1.47	1.47	3.05	3.14	5.48	5.47	4/30/01		
Value Added	-0.16	-0.08	-0.76	-0.76	-0.54	-0.20	-0.36	-0.10	4/30/01		
Clarion Lion	2.40	4.73	8.60	8.60	8.92	10.81		3.42	10/31/08	7,768,066	9.70
NCREIF Open End Div Core EQ NOF	1.85	3.86	7.51	7.51	8.39	10.04		4.58	10/31/08		
Value Added	0.55	0.87	1.09	1.09	0.53	0.77		-1.16	10/31/08		
Real Estate Composite	2.40	4.73	8.60	8.60	8.92	10.81		3.42	10/31/08	7,768,066	9.70
NCREIF Open End Div Core EQ NOF	1.85	3.86	7.51	7.51	8.39	10.04		4.58	10/31/08		
Value Added	0.55	0.87	1.09	1.09	0.53	0.77		-1.16	10/31/08		
Davidson Kempner Instit Prtnrs, LP	0.67	2.15	4.48	4.48	5.14	5.09		5.63	12/31/12	4,013,042	5.01
HFRI Event-Driven (Total) Index	0.54	2.06	5.58	5.58	4.57	4.76		5.35	12/31/12		
Value Added	0.13	0.09	-1.11	-1.11	0.58	0.33		0.29	12/31/12		
Magnitude International	-0.34	3.03	7.13	7.13	3.33	4.66		4.49	3/31/13	3,894,831	4.87
HFRI Fund-of-Funds Composite	-0.51	0.67	5.12	5.12	1.93	3.45		3.29	3/31/13		
Value Added	0.17	2.37	2.01	2.01	1.40	1.21		1.20	3/31/13		

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HFRI Fund-of-Funds Composite	-0.51	0.67	5.12	5.12	1.93	3.45	1.40	3.96	6/30/98		
Value Added	0.68	1.92	0.67	0.67	1.35	0.99	1.91	2.56	6/30/98		
Private Equity Composite	5.48	7.65	15.70	15.70	11.68	13.38	9.01	12.62	11/30/90	14,649,728	18.30
Chatham Custom PE Benchmark	2.47	5.13	9.44	9.44	6.27	8.01	6.08		11/30/90		
Value Added	3.01	2.53	6.26	6.26	5.42	5.38	2.93		11/30/90		
Cash Transition Account	0.17	0.81	1.36	1.36	0.68	0.43	0.40	1.14	7/31/04	3,118,327	3.90
Total Fund Composite	1.02	2.29	10.03	10.03	7.36	8.19	5.87	9.85	3/31/91	80,057,156	100.00
Policy Index	0.21	1.27	8.36	8.36	6.04	7.06	4.94	7.79	3/31/91		
Value Added	0.80	1.03	1.66	1.66	1.33	1.12	0.94	2.06	3/31/91		