



## Old Dominion University Research Foundation

To: Distribution

From: Julian F. Facenda *Julian*  
Director of Finance

Date: January 15, 2005

Subject: Annual Report of Sponsored Program Activity - June 30, 2004

Attached please find the Annual Report of Sponsored Program Activity for the fiscal year ended June 30, 2004. This report measures sponsored program activity administered through Old Dominion University Research Foundation by the amount of expenditures (direct costs and indirect cost recoveries) incurred during the fiscal year. This report includes sponsored program activity administered by the Research Foundation for Old Dominion University and for certain independent entities affiliated with the university. The report also includes, as other research related activity, revenues and expenditures of the Langley Full Scale Tunnel.

Included in the report is a schedule of proposals submitted and awards funded for the fiscal year ended June 30, 2004 and the four previous fiscal years. Proposal activity is based upon the total dollar amount requested from sponsoring agencies exclusive of institutional or third party cost share amounts. Award activity reflects the dollar amount of actual funding committed during the reporting period.

Some key points to note are as follows:

- Sponsored program activity increased by 11.25% to a level of \$37.3 million
- The average yearly increase for the past five fiscal periods is 12.17%
- The top five funding sources for the fiscal year were:

National Space and Aeronautics Administration	\$8.0 million
U.S. Department of the Navy	\$6.1 million
National Science Foundation	\$4.4 million
Virginia Department of Education	\$2.2 million
U.S. Department of the Air Force	\$1.8 million

These five agencies represent 60.5% of total sponsored research activity

- University departments (including SSRP's) with activity exceeding \$1 million for the fiscal year were:

Virginia Modeling, Analysis and Simulation Center	\$6.8 million
Early Childhood, Speech Language Pathology and Special Education	\$2.1 million
Biological Sciences	\$1.8 million
Center for Bioelectronics	\$1.7 million
Ocean, Earth and Atmospheric Sciences	\$1.7 million
Center for Advanced Engineering Environments	\$1.6 million
Electrical & Computer Engineering	\$1.6 million
Center for Coastal Physical Oceanography	\$1.5 million
Chemistry & Biochemistry	\$1.3 million
Computer Science	\$1.2 million
Mechanical Engineering	\$1.2 million

- Proposal submissions during fiscal year 2004 increased 4.46% over fiscal year 2003 to \$158.2 million dollars. Awards funded during fiscal year 2004 increased 28.44% over fiscal year 2003 levels and represent an average yearly increase of 17.19% for the five year period since fiscal year 1999.

The following charts graphically depict current fiscal year research expenditures and the trend in research activity over the past six years:

#### **Chart A – Research Expenditures for University and Non-University Units**

This chart indicates percentage of total research expenditures for fiscal year 2004 for each college and other reporting units.

#### **Chart B – Expenditures by Funding Source**

This chart indicates the growth in sponsored research from \$23.1 million for fiscal year 1999 to \$37.3 million dollars for fiscal year 2004. This information represents expenditures incurred by funding source (Federal, State & Local, and Private Sponsors).

Should you have any questions concerning the enclosed report please do not hesitate to contact me at 683-4293 ext. 602.

\* \* \*

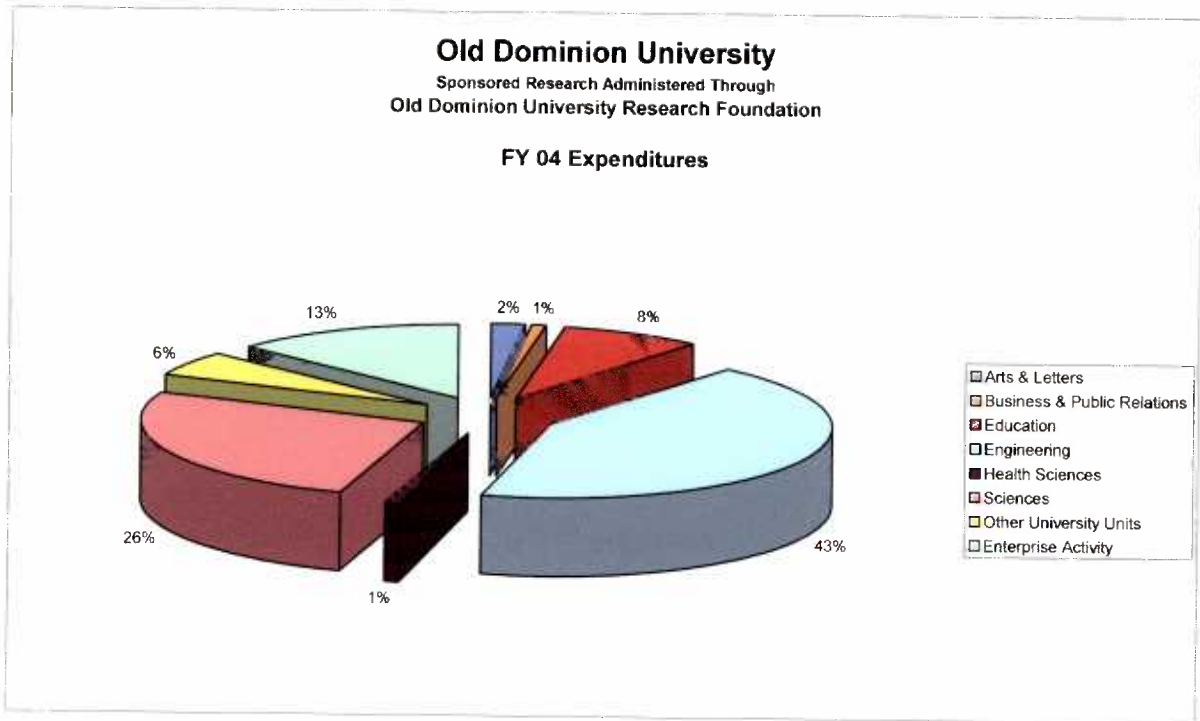


Chart A – Research Expenditures for University and Non-University Units

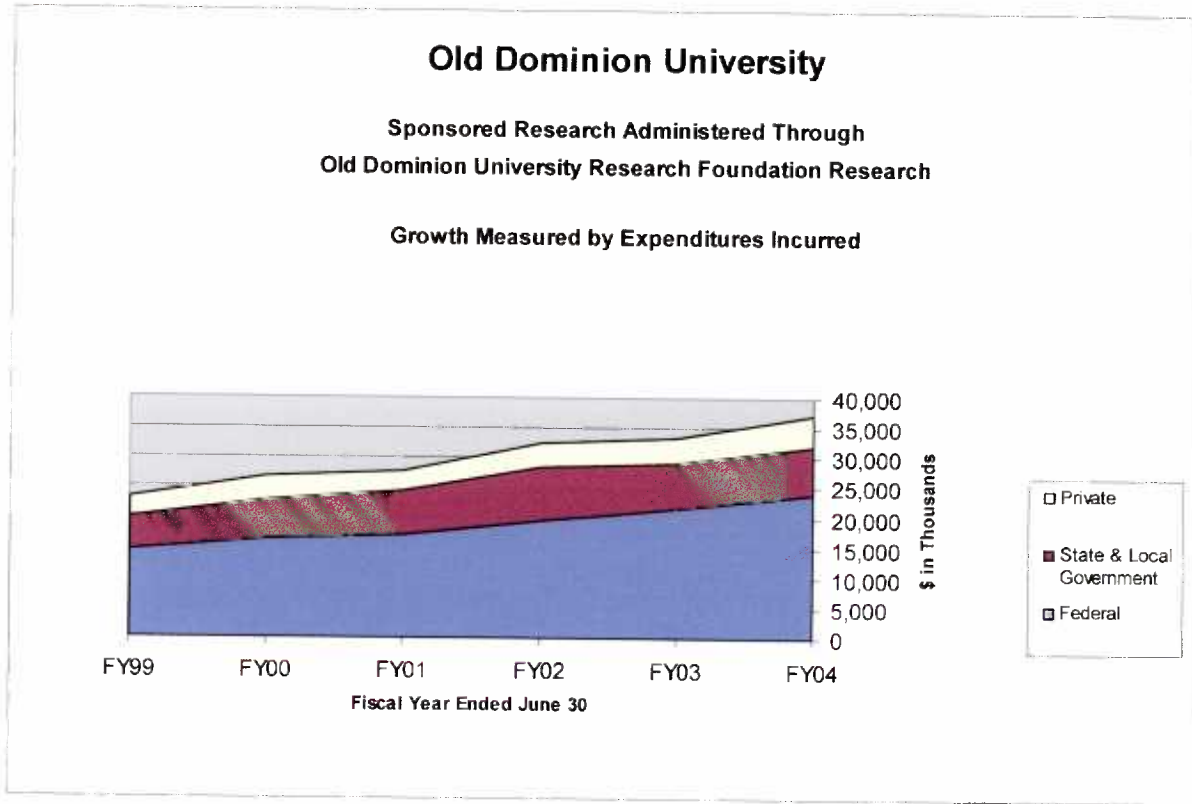


Chart B – Expenditures by Funding Source

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**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
ANNUAL REPORT OF SPONSORED PROGRAM ACTIVITY**

**FISCAL YEAR ENDED JUNE 30, 2004**

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Fiscal Year 2004 through Fiscal Year 2000

**SCHEDULE 1**

**Summary of Sponsored Program Activity**

**University and Non-University Units**

**Fiscal Year 2004 through Fiscal Year 1999**

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**  
(MEASURED BY EXPENDITURES INCURRED)

**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 1999**

UNIVERSITY ACTIVITY	FY 04	FY 03	FY 02	FY 01	FY 00	FY 99
<b>COLLEGE OF ARTS &amp; LETTERS</b>						
Communication & Theatre Arts	\$ 2,800	\$ 800	\$ 500	\$ -	\$ 4,900	\$ 4,907
English	3,526	7,954	8,397	6,503	3,500	3,451
History	-	-	-	-	-	-
International Studies	-	-	-	-	-	-
Music	-	1,000	1,750	3,500	40,500	(14,474)
PLACE: Programs in Liberal Arts Continuing Ed.	-	-	-	-	2,000	2,125
Political Science & Geography	74,398	72,209	109,357	87,045	4,936	4,755
Social Science Research Center	342,962	367,952	481,919	111,683	96,701	157,751
Sociology & Criminal Justice	269,502	258,148	238,861	145,737	85,227	15,100
Sociology & Criminal Justice - SSRP	-	-	-	-	116,326	78,206
Dean's Office	-	-	-	11,573	17,541	104,069
College Total	\$ 693,188	\$ 708,063	\$ 840,784	\$ 366,041	\$ 412,174	\$ 419,267
% Change from prior year	-2.10%	-15.79%	129.70%	-11.19%	-1.69%	-13.75%
Average yearly increase ( decrease)	13.07%					
<b>COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION</b>						
Bank of America Entrepreneurial Center	\$ 193,910	\$ 476,622	\$ 342,992	\$ 391,247	\$ 204,874	\$ 243,824
Business Administration	1,359	9,612	-	-	-	-
Economics	40,930	10,363	10,937	10,506	12,100	10,053
Information Systems & Decision Sciences	17,251	16,553	-	-	(1,541)	11,542
International Maritime, Ports & Logistics Mgmt	-	-	-	4,288	2,711	-
Urban Studies/Public Administration	80,610	147,257	182,785	194,007	174,754	80,919
Dean's Office	-	-	-	25,588	74,894	69,150
College Total	\$ 334,060	\$ 660,407	\$ 536,714	\$ 625,636	\$ 467,792	\$ 415,488
% Change from prior year	-49.42%	23.05%	-14.21%	33.74%	12.59%	39.42%
Average yearly increase ( decrease)	-3.92%					



**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**  
(MEASURED BY EXPENDITURES INCURRED)  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 1999**

	FY 04	FY 03	FY 02	FY 01	FY 00	FY 99
<b>COLLEGE OF EDUCATION</b>						
Early Childhood, Speech Lang. Path. & Spec. Ed.	\$ 2,101,127	\$ 1,635,742	\$ 1,773,295	\$ 1,824,737	\$ 1,222,314	\$ 998,465
Educational Curriculum & Instruction	181,483	362,222	499,354	511,704	1,861	-
Educational Leadership & Counseling	3,229	77,381	2,904	240,326	-	15,443
Exercise Science, Phys. Ed. & Recreation	174,842	208,703	264,589	255,617	195,846	130,446
Occupational & Technical Studies	139,291	9,274	1,105	7,028	39,008	-
Dean's Office	369,771	252,101	333,628	59,369	85,251	55,874
<b>College Total</b>	<b>\$ 2,969,743</b>	<b>\$ 2,545,423</b>	<b>\$ 2,874,875</b>	<b>\$ 2,896,781</b>	<b>\$ 1,544,280</b>	<b>\$ 1,200,228</b>
% Change from prior year	16.67%	-11.46%	-0.82%	87.71%	28.67%	-14.11%
Average yearly increase ( decrease)	29.49%					
<b>COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>						
Aerospace Engineering	\$ 334,695	\$ 387,791	\$ 543,542	\$ 497,030	\$ 445,815	\$ 648,424
Aerospace Engineering - SSRP	221,437	38,464	-	-	-	-
ARC: Applied Research Center	763,703	792,875	672,594	861,019	975,057	26,324
Center for Advanced Engineering Environments	1,627,211	1,725,872	797,010	285,652	-	-
Center for Bioelectronics	1,731,929	1,504,210	211,534	-	-	-
Civil & Environmental Engineering	626,272	438,657	599,739	689,040	731,030	524,119
Electrical & Computer Engineering	1,612,313	1,249,621	1,671,030	1,723,318	2,028,898	1,609,356
Electrical & Computer Engineering - SSRP	-	88,457	19,575	-	-	-
Engineering Management	508,009	216,006	444,869	347,642	274,796	248,703
Engineering Management - SSRP	-	-	-	-	18,489	-
Engineering Technology	289,129	246,826	288,547	154,504	105,954	286,628
Mechanical Engineering	1,178,826	879,806	994,519	1,072,492	1,442,478	1,307,003
TAC: Technology Applications Center	349,448	418,407	372,920	329,245	440,442	477,968
VMASC: Virginia Modeling, Analysis & Simulation Center	6,811,742	5,987,850	5,526,082	3,865,609	3,082,244	2,071,183
Dean's Office	13,299	-	-	-	12,000	3,560
<b>College Total</b>	<b>\$ 16,068,013</b>	<b>\$ 13,886,385</b>	<b>\$ 12,210,843</b>	<b>\$ 9,845,126</b>	<b>\$ 9,557,203</b>	<b>\$ 7,203,268</b>
% Change from prior year	15.71%	13.72%	24.03%	3.01%	32.68%	28.02%
Average yearly increase ( decrease)	24.61%					

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 1999**

	FY 04	FY 03	FY 02	FY 01	FY 00	FY 99
<b>COLLEGE OF HEALTH SCIENCES</b>						
Community & Environmental Health	\$ -	\$ 23,995	\$ 30,005	\$ -	\$ -	\$ -
Dental Hygiene	29,971	24,803	20,020	6,253	52,032	6,418
Nursing	268,250	-	4,769	16,343	142,905	231,117
Dean's Office	31,713	-	-	-	-	-
<b>College Total</b>	<b>\$ 329,934</b>	<b>\$ 48,798</b>	<b>\$ 54,794</b>	<b>\$ 22,596</b>	<b>\$ 194,937</b>	<b>\$ 237,535</b>
% Change from prior year	576.12%	-10.94%	142.49%	-88.41%	-17.93%	-30.51%
Average yearly increase ( decrease)	7.78%					
<b>COLLEGE OF SCIENCES</b>						
Biological Sciences	\$ 1,769,369	\$ 2,404,657	\$ 2,635,952	\$ 2,310,278	\$ 2,519,898	\$ 1,646,505
Center for Biotechnology	12,003	171,324	247,945	433,969	334,480	241,460
Center for Coastal Physical Oceanography	1,088,294	996,744	999,936	889,089	985,653	1,034,787
Center for Coastal Physical Oceanography - SSRP	383,753	424,325	407,695	623,790	1,099,345	1,834,309
Center for Computational Science	95,512	274,551	-	-	-	-
Chemistry and Biochemistry	1,262,936	1,258,107	1,228,044	931,624	454,955	864,968
Chemistry and Biochemistry - SSRP	-	-	-	5,692	30,290	54,662
Computer Science	1,218,125	863,631	1,126,332	1,107,243	1,207,494	1,207,494
Mathematics and Statistics	392,186	218,899	262,215	265,145	189,869	145,963
Mathematics and Statistics - SSRP	193,135	339,386	265,383	146,356	99,394	97,748
Ocean, Earth & Atmospheric Sciences	1,466,929	1,473,918	1,753,036	1,671,306	1,812,085	1,499,835
Ocean, Earth & Atmospheric Sciences - SSRP	216,500	209,993	130,027	2,813	-	-
Physics	810,355	712,784	918,742	661,382	822,214	862,656
Psychology	881,089	828,486	1,058,649	634,556	652,182	346,566
Applied Marine Research Laboratory	-	-	-	39,357	825,265	766,429
<b>College Total</b>	<b>\$ 9,790,186</b>	<b>\$ 10,196,805</b>	<b>\$ 11,033,956</b>	<b>\$ 9,722,600</b>	<b>\$ 11,026,658</b>	<b>\$ 10,593,382</b>
% Change from prior year	-3.99%	-7.59%	13.49%	-11.83%	4.09%	8.08%
Average yearly increase ( decrease)	-1.52%					
<b>OTHER</b>						
	\$ 2,084,291	\$ 1,545,615	\$ 1,497,912	\$ 902,955	\$ 267,575	\$ 156,188
<b>TOTAL - UNIVERSITY UNITS</b>	<b>\$ 32,269,415</b>	<b>\$ 29,591,496</b>	<b>\$ 29,049,878</b>	<b>\$ 24,383,735</b>	<b>\$ 23,470,619</b>	<b>\$ 20,225,356</b>
% Change from prior year	9.05%	1.86%	19.14%	3.89%	16.05%	11.26%
Average yearly increase ( decrease)	11.91%					

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**  
(MEASURED BY EXPENDITURES INCURRED)  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 1999**

	FY 04	FY 03	FY 02	FY 01	FY 00	FY 99
<b>NON-UNIVERSITY ACTIVITY</b>						
Association for Consortium Leadership	\$ 39,682	\$ 39,870	\$ 23,401	\$ 26,945	\$ 34,623	\$ 20,897
CASRM	-	-	-	460,031	1,220,203	227,002
Center for Public/Private Partnership	-	-	(11,710)	58,694	54,193	93,357
National University Teleconference Network	86,795	74,245	67,341	52,377	69,962	46,288
VA Tidewater Consortium for Higher Education	491,212	423,267	398,934	417,624	365,994	343,641
VA Space Grant Consortium	2,308,124	2,256,649	2,181,527	1,781,968	1,011,133	879,069
VA Commercial Space Flight Authority	2,059,009	1,101,743	767,751	615,878	402,204	1,283,758
The Eastern Shore Institute	-	-	-	-	-	22,682
eTech: Environmental Tech. Center	-	-	-	-	(357)	21,467
Total Non-University Activity	\$ 4,984,822	\$ 3,895,774	\$ 3,427,244	\$ 3,413,517	\$ 3,157,955	\$ 2,938,161
% Change from prior year	27.95%	13.67%	0.40%	8.09%	7.48%	4.90%
Average yearly increase ( decrease)						
<b>GRAND TOTAL</b>	\$ 37,254,237	\$ 33,487,270	\$ 32,477,122	\$ 27,797,252	\$ 26,628,574	\$ 23,163,517
<b>% CHANGE FROM PRIOR YEAR</b>	11.25%	3.11%	16.84%	4.39%	14.96%	10.41%
Average yearly increase ( decrease)	12.17%					

**SCHEDULE 2**

**Summary of Sponsored Program Activity**

**Major Funding Source**

**Fiscal Year 2004 through Fiscal Year 2000**

**SCHEDULE 2**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY BY MAJOR FUNDING SOURCE**  
(MEASURED BY EXPENDITURES INCURRED)  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2000**

FUNDING SOURCE / AGENCY	FY04		FY03		FY02		FY01		FY00	
	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total
<b>FEDERAL</b>										
National Aeronautics & Space Administration	\$ 7,982,818	21.4%	\$ 6,682,671	20.0%	\$ 5,903,544	18.2%	\$ 4,637,529	16.7%	\$ 3,435,243	12.9%
U.S. Department Of The Navy	6,055,427	16.3%	5,852,293	17.5%	5,547,421	17.1%	5,185,443	18.7%	4,216,137	15.8%
National Science Foundation	4,423,606	11.9%	3,868,420	11.6%	3,251,050	10.0%	2,506,105	9.0%	3,410,557	12.8%
U.S. Department Of The Air Force	1,858,902	5.0%	1,540,902	4.6%	566,387	1.7%	620,933	2.2%	931,396	3.5%
U.S. Department Of Energy	805,965	2.2%	1,003,245	3.0%	1,289,008	4.0%	985,468	3.5%	1,070,736	4.0%
U.S. Department Of Education	691,547	1.9%	1,074,471	3.2%	1,153,110	3.6%	1,281,685	4.6%	547,994	2.1%
U.S. Department Of Health & Human Services	429,375	1.2%	285,304	0.9%	330,211	1.0%	253,925	0.9%	646,927	2.4%
U.S. Environmental Protection Agency	416,480	1.1%	245,196	0.7%	387,124	1.2%	560,687	2.0%	1,084,644	4.1%
U.S. Department Of The Army	347,347	0.9%	294,269	0.9%	300,969	0.9%	363,022	1.3%	195,831	0.7%
National Oceanic & Atmospheric Administration	225,730	0.6%	429,878	1.3%	365,831	1.1%	323,697	1.2%	344,264	1.3%
U.S. Department Of The Interior	139,721	0.4%	111,506	0.3%	220,573	0.7%	217,857	0.8%	282,501	1.1%
U.S. Department Of Commerce	-	0.0%	-	0.0%	16,885	0.1%	33,405	0.1%	36,783	0.1%
Other Federal	429,043	1.2%	147,739	0.4%	114,735	0.4%	88,340	0.3%	196,129	0.7%
<b>SUBTOTAL FEDERAL</b>	<b>\$ 23,805,961</b>	<b>63.9%</b>	<b>\$ 21,535,894</b>	<b>64.3%</b>	<b>\$ 19,446,848</b>	<b>59.9%</b>	<b>\$ 17,058,096</b>	<b>61.4%</b>	<b>\$ 16,399,142</b>	<b>61.6%</b>
<b>STATE &amp; LOCAL GOVERNMENT AND AGREEMENTS WITH OTHER UNIVERSITIES</b>										
Old Dominion University - See Note	\$ 1,590,059	4.3%	\$ 314,777	0.9%	\$ 334,623	1.0%	\$ 131,504	0.5%	\$ -	0.0%
Virginia Department Of Education	925,090	2.5%	1,811,076	5.4%	2,007,712	6.2%	2,045,412	7.4%	1,257,574	4.7%
Virginia Department Of Environmental Quality	916,253	2.5%	932,240	2.8%	942,469	2.9%	1,245,636	4.5%	1,468,782	5.5%
Eastern Virginia Medical School	678,684	1.8%	61,746	0.2%	35,311	0.1%	40,044	0.1%	34,902	0.1%
University of New Mexico	479,782	1.3%	365,542	1.1%	343,023	1.1%	42,137	0.2%	41,182	0.2%
George Mason University	349,669	0.9%	234,115	0.7%	-	0.0%	-	0.0%	-	0.0%
Virginia Grad Marine Science	328,981	0.9%	327,039	1.0%	410,115	1.3%	281,838	1.0%	308,051	1.2%
Center Innovative Technology	279,784	0.8%	482,502	1.4%	551,129	1.7%	967,072	3.5%	994,517	3.7%
Virginia Marine Resources Commission	232,319	0.6%	283,710	0.8%	309,155	1.0%	281,567	1.0%	280,070	1.1%
Virginia General Assembly	214,274	0.6%	225,350	0.7%	340,117	1.0%	241,646	0.9%	319,794	1.2%
Virginia Department Of Health	184,283	0.5%	182,994	0.5%	448,560	1.4%	208,804	0.8%	119,599	0.4%
Newport News Public Schools	182,016	0.5%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
State Council of Higher Education for Virginia	171,401	0.5%	118,787	0.4%	202,980	0.6%	44,408	0.2%	6,895	0.0%
University of Tennessee	120,179	0.3%	14,583	0.0%	-	0.0%	-	0.0%	39,958	0.2%
State University of New Jersey	112,801	0.3%	123,233	0.4%	77,766	0.2%	84,704	0.3%	177,366	0.7%
University of Mississippi	109,237	0.3%	124,825	0.4%	43,760	0.1%	-	0.0%	-	0.0%
James Madison University	105,610	0.3%	89,207	0.3%	28,283	0.1%	-	0.0%	-	0.0%
Other State & Local	1,087,147	2.9%	1,987,068	5.9%	2,889,321	8.9%	1,773,113	6.4%	1,265,905	4.8%
<b>SUBTOTAL STATE &amp; LOCAL</b>	<b>\$ 8,077,569</b>	<b>21.7%</b>	<b>\$ 7,678,794</b>	<b>22.9%</b>	<b>\$ 8,964,324</b>	<b>27.6%</b>	<b>\$ 7,387,885</b>	<b>26.6%</b>	<b>\$ 6,314,595</b>	<b>23.7%</b>

**SCHEDULE 2**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY BY MAJOR FUNDING SOURCE**  
(MEASURED BY EXPENDITURES INCURRED)  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2000**

FUNDING SOURCE / AGENCY	FY04		FY03		FY02		FY01		FY00	
	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total
<b>PRIVATE AND OTHER SPONSORS</b>										
General Dynamics	\$ 793,748	2.1%	\$ 43,939	0.1%	\$ -	0.0%	\$ -	0.0%	\$ -	0.0%
Northrup Grumman	744,888	2.0%	351,742	1.1%	-	0.0%	-	0.0%	-	0.0%
Concurrent Technologies Corp	414,234	1.1%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Loyola Enterprises	217,431	0.6%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Science Applications International Corp.	201,056	0.5%	593,023	1.8%	417,194	1.3%	-	0.0%	-	0.0%
National Institute of Aerospace	159,760	0.4%	17,667	0.1%	-	0.0%	-	0.0%	-	0.0%
VMASC Memberships	129,857	0.3%	98,499	0.3%	57,240	0.2%	86,481	0.3%	152,205	0.6%
LAM Industry Memberships	118,273	0.3%	115,891	0.3%	-	0.0%	-	0.0%	-	0.0%
National Collegiate Athletic Association	112,769	0.3%	105,831	0.3%	113,157	0.3%	112,803	0.4%	-	0.0%
Vigyan, Inc.	77,908	0.2%	90,498	0.3%	100,606	0.3%	-	0.0%	-	0.0%
A. L. Philippot Manufacturing	60,936	0.2%	139,261	0.4%	145,211	0.4%	170,820	0.6%	-	0.0%
American Diabetes Association	58,854	0.2%	99,592	0.3%	112,053	0.3%	41,001	0.1%	180,584	0.7%
Lawrence Livermore	22,458	0.1%	150,861	0.5%	469,442	1.4%	484,994	1.7%	-	0.0%
Lifenet Transplant Services	12,003	0.0%	171,324	0.5%	247,945	0.8%	421,551	1.5%	435,807	1.6%
Other Private Sponsors	2,246,532	6.0%	2,294,454	6.9%	2,403,102	7.4%	2,033,621	7.3%	2,836,058	10.7%
<b>SUBTOTAL PRIVATE</b>	<b>\$ 5,370,707</b>	<b>14.4%</b>	<b>\$ 4,272,582</b>	<b>12.8%</b>	<b>\$ 4,065,950</b>	<b>12.5%</b>	<b>\$ 3,351,271</b>	<b>12.1%</b>	<b>\$ 3,914,837</b>	<b>14.7%</b>
<b>TOTAL</b>	<b>\$ 37,254,237</b>	<b>100.0%</b>	<b>\$ 33,487,270</b>	<b>100.0%</b>	<b>\$ 32,477,122</b>	<b>100.0%</b>	<b>\$ 27,797,252</b>	<b>100.0%</b>	<b>\$ 26,628,574</b>	<b>100.0%</b>

Note: Certain agencies require direct award to Old Dominion University. The following represents the expenditures by agency on projects passed through by the University.

Old Dominion University pass through from:										
Virginia Department Of Education	\$ 1,301,202	3.5%	-	0.0%	\$ -	0.0%	-	0.0%	\$ -	0.0%
Virginia Department Of Mental Health & Retardation	240,527	0.6%	293,229	0.9%	271,236	0.8%	-	0.0%	-	0.0%
Virginia Department Of Health	14,550	0.0%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Tidewater Community College	13,336	0.0%	19,788	0.1%	4,143	0.0%	-	0.0%	-	0.0%
Other ODU	20,444	0.1%	1,760	0.0%	59,244	0.2%	131,504	0.5%	-	0.0%
<b>Old Dominion University Total</b>	<b>\$ 1,590,059</b>	<b>4.3%</b>	<b>\$ 314,777</b>	<b>0.9%</b>	<b>\$ 334,623</b>	<b>1.0%</b>	<b>\$ 131,504</b>	<b>0.5%</b>	<b>\$ -</b>	<b>0.0%</b>

Note: Certain prior year amounts have been restated to be consistent with current year presentation.

**SCHEDULE 3**

**Comparison of Direct Cost, Indirect Cost and  
Effective Indirect Cost Rates**

**University Units**

**Fiscal Year 2004 through Fiscal Year 2002**

**SCHEDULE 3**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**REPORT OF SPONSORED PROGRAM ACTIVITY**  
**DIRECT COST, INDIRECT COST AND EFFECTIVE INDIRECT COST RATE**  
(MEASURED BY EXPENDITURES INCURRED)  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2002**

	Fiscal Year 2004			Fiscal Year 2003			Fiscal Year 2002		
	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	Effective Indirect Cost Rate
<b>UNIVERSITY ACTIVITY: ACADEMIC DEPARTMENTS AND RELATED UNITS</b>									
<b>COLLEGE OF ARTS AND LETTERS</b>									
Dean's Office	\$ -	\$ -	0.0%	\$ -	\$ -	0.0%	\$ -	\$ -	0.0%
Department of Communication and Theatre Arts	2,800	2,800	0.0%	800	-	0.0%	500	-	0.0%
Department of English	3,526	3,526	0.0%	7,954	-	0.0%	8,397	-	0.0%
Department of International Studies	-	-	0.0%	-	-	0.0%	-	-	0.0%
Department of Music	-	-	0.0%	1,000	-	0.0%	1,750	-	0.0%
Department of Political Science & Geography	52,635	74,398	41.3%	52,944	19,265	36.4%	91,658	17,699	19.3%
Department of Sociology & Criminal Justice	209,440	60,062	28.7%	215,356	42,792	19.9%	180,755	58,106	32.1%
Social Science Research Center	317,613	25,349	8.0%	345,272	22,680	6.6%	420,077	61,842	14.7%
<b>COLLEGE OF ARTS &amp; LETTERS</b>	<b>\$ 586,014</b>	<b>\$ 107,174</b>	<b>18.3%</b>	<b>\$ 623,326</b>	<b>\$ 84,737</b>	<b>13.6%</b>	<b>\$ 703,137</b>	<b>\$ 137,647</b>	<b>19.6%</b>
<b>COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION</b>									
Dean's Office	\$ -	\$ -	0.0%	\$ -	\$ -	0.0%	\$ -	\$ -	0.0%
Bank of America Entrepreneurial Center	193,910	-	0.0%	476,622	-	0.0%	342,992	-	0.0%
Department of Business Administration	1,359	1,359	0.0%	9,612	-	0.0%	-	-	0.0%
Department of Economics	38,345	2,585	6.7%	9,421	942	10.3%	9,943	994	10.3%
Department of Information Systems / Decision Sciences	12,592	4,659	37.0%	12,083	4,470	37.0%	-	-	0.0%
Center for Urban Studies & Public Administration	59,202	21,408	36.2%	115,580	31,677	27.4%	146,048	36,737	25.2%
<b>COLLEGE OF BUSINESS &amp; PUBLIC ADMINISTRATION</b>	<b>\$ 305,408</b>	<b>\$ 28,652</b>	<b>9.4%</b>	<b>\$ 623,318</b>	<b>\$ 37,089</b>	<b>6.0%</b>	<b>\$ 498,983</b>	<b>\$ 37,731</b>	<b>7.6%</b>
<b>COLLEGE OF EDUCATION</b>									
Dean's Office	\$ 351,798	17,973	5.1%	238,957	13,144	5.5%	317,129	16,499	5.2%
Department of Early Childhood, Speech Pathology, Special Ed	1,987,323	113,804	5.7%	1,541,750	93,992	6.1%	1,681,457	91,838	5.5%
Department of Educational Curriculum & Instruction	175,839	5,644	3.2%	343,501	18,721	5.5%	461,886	37,468	8.1%
Department of Educational Leadership & Counseling	2,931	298	10.2%	66,476	10,905	16.4%	2,525	379	15.0%
Department of Exercise Science, Physical Education & Recreation	170,322	4,520	2.7%	198,166	10,537	5.3%	256,925	7,664	3.0%
Department of Occupational & Technical Studies	138,781	510	0.4%	8,908	366	4.1%	1,023	82	8.0%
<b>COLLEGE OF EDUCATION</b>	<b>\$ 2,826,994</b>	<b>\$ 142,749</b>	<b>5.0%</b>	<b>\$ 2,397,758</b>	<b>\$ 147,665</b>	<b>6.2%</b>	<b>\$ 2,720,945</b>	<b>\$ 153,930</b>	<b>5.7%</b>
<b>COLLEGE OF ENGINEERING</b>									
Dean's Office	\$ 12,000	1,299	10.8%	332,238	-	0.0%	481,355	-	0.0%
Department of Aerospace Engineering	266,735	67,960	25.5%	29,223	55,553	16.7%	-	-	12.9%
Department of Aerospace Engineering - SSRP	164,997	221,437	34.2%	674,236	9,241	31.6%	-	-	0.0%
Applied Research Center	642,770	120,933	18.8%	118,639	792,875	17.6%	563,772	108,822	19.3%
Center for Advanced Engineering Environments	1,450,124	177,087	12.2%	1,503,113	1,725,872	14.8%	661,021	135,989	20.6%
Center for Biometrics	1,388,098	343,831	24.8%	1,220,043	284,167	23.3%	153,812	57,722	37.5%
Department of Civil & Environmental Engineering	555,985	70,287	12.6%	366,964	71,693	19.5%	486,173	113,566	23.4%
Department of Electrical & Computer Engineering	1,319,181	293,132	22.2%	1,052,512	197,109	18.7%	1,326,446	344,584	26.0%
Department of Electrical & Computer Engineering - SSRP	-	-	0.0%	-	-	0.0%	88,457	-	0.0%
Department of Engineering Management	373,088	134,921	36.2%	186,998	29,008	15.5%	371,412	73,457	19.8%
Department of Mechanical Engineering	1,064,527	114,299	10.7%	764,781	115,025	15.0%	844,477	150,042	17.8%
Department of Engineering Technology	224,480	64,649	28.8%	192,623	54,203	28.1%	246,846	41,701	16.9%
Technology Applications Center	299,903	349,448	16.5%	380,452	37,955	10.0%	309,742	63,178	20.4%
Virginia Modeling, Analysis and Simulation Center	5,375,705	1,436,037	26.7%	4,779,438	1,208,412	25.3%	4,470,369	1,055,713	23.6%
<b>COLLEGE OF ENGINEERING</b>	<b>\$ 13,137,593</b>	<b>\$ 2,930,420</b>	<b>22.3%</b>	<b>\$ 11,482,621</b>	<b>\$ 2,403,764</b>	<b>20.9%</b>	<b>\$ 10,003,882</b>	<b>\$ 2,206,961</b>	<b>22.1%</b>



**SCHEDULE 3**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**REPORT OF SPONSORED PROGRAM ACTIVITY**  
**DIRECT COST, INDIRECT COST AND EFFECTIVE INDIRECT COST RATE**  
(MEASURED BY EXPENDITURES INCURRED)  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2002**

	Fiscal Year 2004				Fiscal Year 2003				Fiscal Year 2002			
	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate	TOTAL DIRECT COSTS	TOTAL INDIRECT COSTS	TOTAL PROJECT COSTS	Effective Indirect Cost Rate
<b>COLLEGE OF HEALTH SCIENCES</b>	\$ 29,437	\$ 2,276	\$ 31,713	7.7%	\$ 19,643	\$ 4,352	\$ 23,995	22.2%	\$ 24,515	\$ 5,490	\$ 30,005	22.4%
Dean's Office	-	-	-	0.0%	21,236	3,567	24,803	16.8%	17,262	2,758	20,020	16.0%
School of Community & Environmental Health	23,929	6,042	29,971	25.2%	-	-	-	0.0%	-	-	-	0.0%
School of Dental Hygiene	218,244	50,006	268,250	22.9%	-	-	-	0.0%	3,668	1,101	4,769	30.0%
School of Nursing	271,610	58,324	329,934	21.5%	40,879	7,919	48,798	19.4%	45,445	9,349	54,794	20.6%
<b>COLLEGE OF HEALTH SCIENCES</b>	\$ 1,453,844	\$ 315,525	\$ 1,769,369	21.7%	\$ 1,985,788	\$ 418,869	\$ 2,404,657	21.1%	\$ 2,235,171	\$ 400,781	\$ 2,635,952	17.9%
Department of Biological Sciences	11,743	260	12,003	2.2%	137,059	34,265	171,324	25.0%	198,356	49,589	247,945	25.0%
Center for Biotechnology	67,216	28,296	95,512	42.1%	205,633	68,918	274,551	33.5%	-	-	-	0.0%
Center for Computational Science	751,092	271,012	1,022,104	36.1%	747,861	248,883	996,744	33.3%	762,037	237,899	999,936	31.2%
Center for Coastal Physical Oceanography	355,747	94,196	449,943	26.5%	323,023	101,302	424,325	31.4%	307,145	100,550	407,695	32.7%
Center for Coastal Physical Oceanography - SSRP	1,030,431	232,505	1,262,936	22.6%	1,014,604	243,503	1,258,107	24.0%	984,903	243,141	1,228,044	24.7%
Department of Chemistry and Biochemistry	955,306	262,819	1,218,125	27.5%	722,122	161,509	883,631	22.4%	888,614	237,718	1,126,332	26.8%
Department of Computer Sciences	321,665	70,321	392,186	21.9%	170,968	47,931	218,899	28.0%	202,839	59,376	262,215	29.3%
Department of Mathematics & Statistics	153,322	39,813	193,135	26.0%	269,354	70,032	339,386	26.0%	210,621	54,762	265,383	26.0%
Department of Mathematics & Statistics - SSRP	1,125,476	341,453	1,466,929	30.3%	1,147,461	326,457	1,473,918	28.5%	1,371,941	381,095	1,753,036	27.8%
Department of Ocean, Earth & Atmospheric Sciences	176,290	40,210	216,500	22.8%	168,366	41,627	209,993	24.7%	94,676	35,351	130,027	37.3%
Department of Ocean, Earth & Atmospheric Sciences - SSRP	604,677	205,678	810,355	34.0%	534,048	178,736	712,784	33.5%	690,715	228,027	918,742	33.0%
Department of Physics	711,216	169,873	881,089	23.9%	669,541	158,945	828,486	23.7%	867,633	191,016	1,058,649	22.0%
Department of Psychology	7,718,025	2,072,161	9,790,186	26.8%	\$ 8,095,828	\$ 2,100,977	\$ 10,196,805	26.0%	\$ 8,814,651	\$ 2,219,305	\$ 11,033,956	25.2%
<b>COLLEGE OF SCIENCES</b>	\$ 1,305,788	\$ 55,958	\$ 1,361,746	4.3%	\$ 1,037,437	\$ 127,255	\$ 1,164,692	12.3%	\$ 1,209,667	\$ 212,059	\$ 1,421,726	17.5%
<b>OFFICE OF RESEARCH AND OTHER UNIVERSITY ACTIVITY</b>	-	-	-	0.0%	77,618	4,638	82,256	6.0%	45,855	5,076	50,931	11.1%
Office of Research	-	-	-	0.0%	1,111	466	1,577	41.9%	2,268	953	3,221	42.0%
CHROME	598,039	83,041	681,080	13.9%	241,185	31,054	272,239	12.9%	-	-	-	0.0%
Library	5,920	-	5,920	0.0%	5,815	-	5,815	0.0%	5,963	-	5,963	0.0%
Distance Learning	35,036	509	35,545	1.5%	18,015	1,021	19,036	5.7%	14,966	-	14,966	0.0%
Student Services	1,944,783	139,508	2,084,291	7.2%	1,381,181	164,434	1,545,615	11.9%	1,023	82	1,105	8.0%
Engineering Center, Management and Advising Center	26,790,427	5,478,988	32,269,415	20.5%	\$ 24,644,911	\$ 4,946,585	\$ 29,591,496	20.1%	\$ 1,279,742	\$ 218,170	\$ 1,497,912	17.0%
Other University Units	-	-	-	0.0%	-	-	-	0.0%	-	-	-	0.0%
<b>OFFICE OF RESEARCH AND OTHER</b>	\$ 26,790,427	\$ 5,478,988	\$ 32,269,415	20.5%	\$ 24,644,911	\$ 4,946,585	\$ 29,591,496	20.1%	\$ 24,066,785	\$ 4,983,093	\$ 29,049,878	20.7%
<b>OTHER ACTIVITIES: SEPARATE ENTITIES AND AFFILIATED UNITS</b>	\$ 1,998,921	\$ 60,088	\$ 2,059,009	3.0%	\$ 1,030,538	\$ 71,205	\$ 1,101,743	6.9%	\$ 747,170	\$ 20,581	\$ 767,751	2.8%
Virginia Commercial Space Flight Authority	2,041,055	267,069	2,308,124	13.1%	2,023,998	232,651	2,256,649	11.5%	1,929,864	251,663	2,181,527	13.0%
Virginia Space Grant Consortium	454,947	36,265	491,212	8.0%	392,213	31,054	423,267	7.9%	370,098	28,836	398,934	7.8%
Virginia Tidewater Consortium for Higher Education	86,795	-	86,795	0.0%	74,233	12	74,245	0.0%	67,340	1	67,341	0.0%
National University Teleconference Network	-	-	-	0.0%	-	-	-	0.0%	-	-	-	0.0%
Center for Public/Private Partnership	38,156	1,526	39,682	4.0%	38,337	1,533	39,870	4.0%	22,501	-	(11,710)	0.0%
Association for Consortium Leadership	4,619,874	364,948	4,984,822	7.9%	\$ 3,559,319	\$ 336,455	\$ 3,895,774	9.5%	\$ 3,125,263	\$ 301,981	\$ 3,427,244	4.0%
<b>OTHER ENTITIES AND AFFILIATED UNITS</b>	\$ 31,410,301	\$ 5,843,936	\$ 37,254,237	18.6%	\$ 28,204,230	\$ 5,263,040	\$ 33,467,270	18.7%	\$ 27,192,048	\$ 5,285,074	\$ 32,477,122	19.4%
<b>GRAND TOTAL</b>												

SSRP = self supporting research program

**SCHEDULE 4**

**Sponsored Program Activity**

**Individual Project Listing**

**Fiscal Year 2004**

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER										
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			TOTAL PROJECT COSTS									
<b>ARTS AND LETTERS</b>																					
English																					
514021	CITY OF NORFOLK	PEARSON, M.	-	27	-	-	25	-	52	-	-	-	52	-	-	-	-	-	-	52	
523601	CITY OF NORFOLK	PEARSON, M.	-	-	-	-	149	-	149	-	-	-	149	-	-	-	-	-	-	149	
523081	VA COMMISSION OF THE ARTS	RAISOR, P.	-	-	-	-	(150)	-	(150)	-	-	-	(150)	-	-	-	-	-	-	(150)	
533151	VA COMMISSION OF THE ARTS	SILBERMAN, B.	-	1,000	-	-	1,000	-	1,000	-	-	-	1,000	-	-	-	-	-	-	1,000	
533871	CITY OF NORFOLK	SILBERMAN, B.	-	2,475	-	-	2,475	-	2,475	-	-	-	2,475	-	-	-	-	-	-	2,475	
			-	3,502	-	24	3,526	-	3,526	-	-	-	3,526	-	-	-	-	-	-	3,526	0.00%
<b>Political Science and Geography</b>																					
523881	* GEORGE MASON UNIVERSITY	ALLEN, T.	11,212	6,179	-	-	-	-	17,391	-	7,303	-	24,694	-	-	-	-	-	-	24,694	
540091	GEORGE MASON UNIVERSITY	ALLEN, T.	25,207	9,222	-	815	-	-	35,244	-	14,460	-	49,704	-	-	-	-	-	-	49,704	
			36,419	15,401	-	815	-	-	52,635	-	21,763	-	74,398	-	-	-	-	-	-	74,398	41.35%
<b>Sociology and Criminal Justice</b>																					
533361	VA CENTER ON AGING	PAYNE, B.	22,569	1,505	-	-	-	-	24,074	-	-	-	24,074	-	-	-	-	-	-	24,074	
320841	* NATL SCIENCE FOUNDATION	WHITAKER, I.	1,586	198	-	2,667	-	-	4,451	-	143	-	4,594	-	-	-	-	-	-	4,594	
320842	* NATL SCIENCE FOUNDATION	WHITAKER, I.	462	6	-	3,870	-	-	4,338	-	38	-	4,376	-	-	-	-	-	-	4,376	
320843	* NATL SCIENCE FOUNDATION	WHITAKER, I.	474	1	-	645	-	-	1,120	-	38	-	1,158	-	-	-	-	-	-	1,158	
300871	US PUBLIC HEALTH SERVICE	YANG, X.	85,352	57,131	-	2,583	-	-	175,457	-	59,843	-	235,300	-	-	-	-	-	-	235,300	
			110,443	58,841	-	2,583	-	-	209,440	-	60,062	-	269,502	-	-	-	-	-	-	269,502	28.68%
<b>Communication and Theatre Arts</b>																					
514031	CITY OF NORFOLK	HANNA, C.	-	800	-	-	-	-	800	-	-	-	800	-	-	-	-	-	-	800	
533161	VA COMMISSION OF THE ARTS	MARLOFF, M.	-	2,000	-	-	-	-	2,000	-	-	-	2,000	-	-	-	-	-	-	2,000	
			-	2,800	-	-	-	-	2,800	-	-	-	2,800	-	-	-	-	-	-	2,800	0.00%
<b>Social Science Research Center</b>																					
511661	ODU	HARLOW, J.	611	37	-	-	1,983	-	2,631	-	1,105	-	3,736	-	-	-	-	-	-	3,736	SSRC
524043	VA DEPT OF EDUCATION	HARLOW, J.	485	2,238	-	8,052	-	-	10,775	-	754	-	11,529	-	-	-	-	-	-	11,529	SSRC
530062	ODU	HARLOW, J.	1,963	260	-	-	-	-	2,223	-	578	-	2,801	-	-	-	-	-	-	2,801	SSRC
533281	ODU	HARLOW, J.	4,887	343	-	-	-	-	5,230	-	1,569	-	6,799	-	-	-	-	-	-	6,799	SSRC
533291	EASTERN SHORE COMM COLLEGE	HARLOW, J.	2,415	3,938	-	-	1,620	-	7,973	-	1,196	-	9,169	-	-	-	-	-	-	9,169	SSRC
533301	ODU	HARLOW, J.	48,206	6,601	-	99,300	-	-	154,107	-	3,990	-	158,097	-	-	-	-	-	-	158,097	SSRC
533431	CITY OF NORFOLK	HARLOW, J.	3,061	191	-	-	-	-	3,252	-	715	-	3,967	-	-	-	-	-	-	3,967	SSRC
534039	NORFOLK STATE UNIVERSITY	HARLOW, J.	838	-	-	-	-	-	838	-	352	-	1,190	-	-	-	-	-	-	1,190	SSRC
534221	ODU	HARLOW, J.	2,615	691	-	7,730	-	-	11,036	-	552	-	11,588	-	-	-	-	-	-	11,588	SSRC
540691	ODU	HARLOW, J.	11,256	187	-	3,236	-	-	14,679	-	734	-	15,413	-	-	-	-	-	-	15,413	SSRC
541381	UNIVERSITY OF KENTUCKY	HARLOW, J.	8,424	-	-	-	-	-	8,424	-	842	-	9,266	-	-	-	-	-	-	9,266	SSRC
541851	CITY OF PORTSMOUTH	HARLOW, J.	3,301	396	-	-	-	-	3,697	-	555	-	4,252	-	-	-	-	-	-	4,252	SSRC
544301	ODU	HARLOW, J.	12,761	1,636	-	-	-	-	14,397	-	6,047	-	20,444	-	-	-	-	-	-	20,444	SSRC
544361	ODU	HARLOW, J.	12,568	230	-	-	-	-	12,798	-	1,280	-	14,078	-	-	-	-	-	-	14,078	SSRC
544681	ODU	HARLOW, J.	18,421	1,109	-	11,660	-	-	31,190	-	1,559	-	32,749	-	-	-	-	-	-	32,749	SSRC
544701	ODU	HARLOW, J.	17,720	2,680	-	-	-	-	20,400	-	1,020	-	21,420	-	-	-	-	-	-	21,420	SSRC
544712	CITY OF NORFOLK	HARLOW, J.	2,228	175	-	-	-	-	2,403	-	529	-	2,932	-	-	-	-	-	-	2,932	SSRC
547331	ODU	HARLOW, J.	-	429	-	-	-	-	429	-	43	-	472	-	-	-	-	-	-	472	SSRC
547371	WESTAT INC.	HARLOW, J.	-	1,200	-	-	-	-	1,200	-	60	-	1,260	-	-	-	-	-	-	1,260	SSRC
733261	SQUARE ONE INC	HARLOW, J.	1,159	-	-	232	-	-	1,391	-	584	-	1,975	-	-	-	-	-	-	1,975	SSRC
734071	LITERACY PARTNERSHIP	HARLOW, J.	4,934	638	-	-	-	-	5,572	-	836	-	6,408	-	-	-	-	-	-	6,408	SSRC
744291	HARLOW, J.	HARLOW, J.	1,449	315	-	-	-	-	1,764	-	353	-	2,117	-	-	-	-	-	-	2,117	SSRC
320847	NATL SCIENCE FOUNDATION	VANDECAR, T.	1,205	-	-	(1)	-	-	1,204	-	96	-	1,300	-	-	-	-	-	-	1,300	SSRC
			160,507	23,294	-	133,812	-	-	317,613	-	25,349	-	342,962	-	-	-	-	-	-	342,962	7.98%
<b>TOTAL ARTS AND LETTERS</b>			<b>\$ 307,369</b>	<b>\$ 103,838</b>	<b>\$ 2,583</b>	<b>\$ 172,224</b>	<b>\$ 586,014</b>	<b>\$ 107,174</b>	<b>\$ 693,188</b>	<b>\$ 18,29%</b>											

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SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT  
(MEASURED BY EXPENDITURES INCURRED)  
FOR FISCAL YEAR 2004

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
<b>BUSINESS AND PUBLIC ADMINISTRATION</b>												
Bank of America Entrepreneurial Center												
321741	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	2,111	-	-	-	2,111	-	-	-	2,111	
521742	PRIVATE SPONSORS	ACKERMAN, D.	(27)	-	-	-	(27)	-	-	-	(27)	
524242	PERSYS TECHNOLOGY	ACKERMAN, D.	8	-	-	-	8	-	-	-	8	
524243	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	142	-	-	-	142	-	-	-	142	
572012	PRIVATE SPONSORS	ACKERMAN, D.	913	7,876	-	-	8,789	-	-	-	8,789	
572020	PRIVATE SPONSORS	ACKERMAN, D.	-	40,286	-	-	40,286	-	-	-	40,286	
572030	PRIVATE SPONSORS	ACKERMAN, D.	27,866	2,697	-	-	30,563	-	-	-	30,563	
572040	PRIVATE SPONSORS	ACKERMAN, D.	16,747	3,578	-	-	20,325	-	-	-	20,325	
731151	RESOURCE CONSULTANTS INC	ACKERMAN, D.	-	-	-	4	4	-	-	-	4	
740991	PRIVATE SPONSORS	ACKERMAN, D.	19,939	750	-	-	19,939	-	-	-	19,939	
532011	CENTER INNOVATIVE TECHNOLOGY	BYRUM, F.	4,572	-	-	-	4,572	-	-	-	4,572	
732191	NATIONAL DEFENSE UNIVERSITY	GORANSON, T.	67,198	-	-	-	67,198	-	-	-	67,198	
			138,719	55,187	-	4	193,910	-	-	-	193,910	0.00%
Information Technology & Decision Sciences												
324121	* NATL SCIENCE FOUNDATION	MANN, J.	11,719	873	-	-	12,592	-	4,659	-	17,251	
			11,719	873	-	-	12,592	-	4,659	-	17,251	37.00%
Business Administration												
740851	OUTSITE NETWORKS	LIU, Y.	-	1,359	-	-	1,359	-	-	-	1,359	
			-	1,359	-	-	1,359	-	-	-	1,359	0.00%
Economics												
320844	* NATL SCIENCE FOUNDATION	AGARWAL, V.	2,077	-	-	13,086	15,163	-	872	-	16,035	
320844	* NATL SCIENCE FOUNDATION	HOFLE, M.	1,955	-	-	12,316	14,271	-	822	-	15,093	
762040	ARTHUR POLLIZOS & ASSOC.	SCHWARZ-MILLER, A.	7,901	1,010	-	-	8,911	-	891	-	9,802	
			11,933	1,010	-	25,402	38,345	-	2,585	-	40,930	6.74%
Urban Studies / Public Administration												
531531	* VA DEPT PROF OCC REG	GIBSON, P.	19,201	4,949	2,188	1,104	27,442	-	10,143	-	37,585	
521771	CITY OF NORFOLK	KIEFER, J.	4,126	-	-	191	4,317	-	1,122	-	5,439	
531531	* VA DEPT PROF OCC REG	LOMBARD, J.	19,201	4,950	2,188	1,104	27,443	-	10,143	-	37,586	
			42,528	9,899	4,376	2,999	59,202	-	21,408	-	80,610	36.16%
			<b>\$ 204,899</b>	<b>\$ 68,328</b>	<b>\$ 4,376</b>	<b>\$ 27,805</b>	<b>\$ 305,408</b>	<b>\$ 28,652</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 334,060</b>	<b>9.38%</b>

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**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
<b>EDUCATION</b>												
Dean's Office												
505002	VA DEPT OF EDUCATION	GRAVES, W.	4,722	108,613	-	-	-	113,335	-	-	113,335	
504121	COLLEGE OF WILLIAM AND MARY	HEINE, P.	1,636	-	-	-	-	1,636	131	-	1,767	
504131	COLLEGE OF WILLIAM AND MARY	HEINE, P.	8,182	3,234	-	-	-	11,416	-	-	11,416	
773881	DEWITT WALLACE READERS DIGEST	HEINE, P.	2,175	9,477	-	-	-	11,652	-	-	13,400	
511552	VA DEPT OF EDUCATION	MELO, M.	144,623	67,145	1,991	-	-	213,759	1,748	-	229,653	
			161,338	188,469	1,991	-	-	351,798	17,973	-	369,771	5.11%
<b>Educational Curriculum and Instruction</b>												
303281	US DEPT OF EDUCATION	ALLEN, D.	30,778	16,964	-	49,537	-	97,279	3,819	-	101,098	
721631	* AMER COUNCIL TEACHERS RUSSIAN	ALLEN, D.	161	29	-	26	-	216	20	-	236	
514211	VIRGINIA COMMONWEALTH UNIV.	FRAZIER, W.	9,624	66	-	-	-	9,690	775	-	10,465	
721631	* AMER COUNCIL TEACHERS RUSSIAN	HEYL, J.	108	20	-	18	-	146	13	-	159	
144031	NASA-LANGLY RESEARCH CENTER	MCALUIFFE, G.	-	255	-	22,036	-	22,291	-	-	22,291	
320841	* NATL SCIENCE FOUNDATION	WOLFE, D.	7,389	923	-	12,425	-	20,737	665	-	21,402	
320842	* NATL SCIENCE FOUNDATION	WOLFE, D.	2,157	33	-	18,060	-	20,250	175	-	20,425	
320843	* NATL SCIENCE FOUNDATION	WOLFE, D.	2,211	5	-	3,014	-	5,230	177	-	5,407	
			52,428	18,295	-	105,116	-	175,839	5,644	-	181,483	3.21%
<b>Occupational and Technical Studies</b>												
241351	OFFICE OF SECRETARY OF DEFENSE	FREEMAN, M.	95,071	-	-	-	-	95,071	-	-	95,071	
320841	* NATL SCIENCE FOUNDATION	NDAHI, H.	3,697	462	-	6,217	-	10,376	333	-	10,709	
320842	* NATL SCIENCE FOUNDATION	NDAHI, H.	1,079	17	-	9,030	-	10,126	88	-	10,214	
320843	* NATL SCIENCE FOUNDATION	NDAHI, H.	1,105	3	-	1,507	-	2,615	89	-	2,704	
723361	COUNCIL ON TECH TEACHER EDUC	NDAHI, H.	-	812	-	(0)	-	812	-	-	812	
140661	NASA-LANGLY RESEARCH CENTER	OVERBAUGH, R.	-	228	-	19,553	-	19,781	-	-	19,781	
			100,952	1,522	-	36,307	-	138,781	510	-	139,291	0.37%
<b>Exercise Science, Physical Education and Recreation</b>												
541211	CITY OF VIRGINIA BEACH	CASE, R.	-	1,047	-	144	-	1,191	310	-	1,501	
732961	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	10,133	30,596	-	-	-	40,729	-	-	40,729	
732971	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	9,147	30,605	-	-	-	39,752	-	-	39,752	
745071	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	830	16,987	-	-	-	17,817	-	-	17,817	
745081	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	511	13,960	-	-	-	14,471	-	-	14,471	
705201	AMERICAN DIABETES ASSOCIATION	COLBERG, S.	1	1,926	-	275	-	2,202	289	-	2,491	
705202	AMERICAN DIABETES ASSOCIATION	COLBERG, S.	10,197	695	-	31,550	-	42,442	2,421	-	44,863	
742241	AMERICAN DIABETES ASSOCIATION	COLBERG, S.	10,000	-	-	-	-	10,000	1,500	-	11,500	
324101	US DEPT OF AGRICULTURE	GOMEZ, E.	1,718	-	-	-	-	1,718	-	-	1,718	
			42,537	95,816	-	31,969	-	170,322	4,520	-	174,842	2.65%

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
530401	Early Childhood, Speech Language Pathology and Special Education											
532741	NEWPORT NEWS PUBLIC SCHOOLS	CRISTOL, D.	105,635	34,789	6,228	28,355	175,007	7,009	-	182,016		
531271	* VA DEPT OF EDUCATION	GABLE, R.	7,299	1,084	-	-	8,383	587	-	8,970		
533131	VA DEPT OF EDUCATION	GABLE, R.	6,384	66,813	5,773	13	78,983	5,856	-	84,839		
533631	ODU	GABLE, R.	488,858	1,976	-	3,632	5,608	160	-	5,768		
541511	ODU	GABLE, R.	-	151,213	-	-	650,071	45,505	-	695,576		
541731	ODU	GABLE, R.	40,020	15,305	-	-	15,305	-	-	15,305		
545631	ODU	GABLE, R.	-	91,008	9,481	-	140,509	10,482	-	150,991		
545871	ODU	GABLE, R.	-	7,029	-	-	7,029	562	-	7,591		
523741	* VA DEPT OF EDUCATION	LAMBERT, K.	6,170	-	-	-	6,170	494	-	6,664		
593554	UNIV OF FLORIDA	RAYMER, A.	7,278	1,080	-	-	8,358	585	-	8,943		
523741	* VA DEPT OF EDUCATION	TONELSON, S.	33,724	5,343	-	-	39,067	16,408	-	55,475		
524041	VA DEPT OF EDUCATION	TONELSON, S.	4,608	2,034	3,785	-	8,358	585	-	8,943		
524042	VA DEPT OF EDUCATION	TONELSON, S.	649	17,569	-	62,422	72,849	465	-	73,314		
532351	VA DEPT OF EDUCATION	TONELSON, S.	1,679	8,995	-	313,692	331,910	1,275	-	333,185		
534231	ODU	TONELSON, S.	65,232	599	-	19,070	29,744	747	-	30,491		
534232	ODU	TONELSON, S.	169,699	21,138	-	102,572	168,403	5,266	-	173,669		
541121	ODU	TONELSON, S.	4,800	13,190	-	10,484	190,837	15,267	-	206,104		
541721	ODU	TONELSON, S.	-	13,898	379	-	28,474	1,439	-	29,913		
541291	UNIV OF FLORIDA	WATSON, S.	3,063	4,918	-	-	14,277	1,112	-	15,389		
			962,376	459,061	25,646	540,240	1,987,323	113,804	-	2,101,127		5.73%
	Educational Leadership & Counseling											
130731	NASA-LANGLEY RESEARCH CENTER	MCALLIFFE, G.	-	232	-	714	946	-	-	946		
721421	DEWITT WALLACE READERS DIGEST	NUNNERY, J.	1,985	-	-	-	1,985	298	-	2,283		
			1,985	232	-	714	2,931	298	-	3,229		10.17%
	<b>EDUCATION TOTAL</b>		<b>\$ 1,321,616</b>	<b>\$ 763,395</b>	<b>\$ 27,637</b>	<b>\$ 714,346</b>	<b>\$ 2,826,994</b>	<b>\$ 142,749</b>	<b>\$ -</b>	<b>\$ 2,969,743</b>		<b>5.05%</b>

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			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES				
<b>ENGINEERING AND TECHNOLOGY</b>													
Dean's Office													
524773	CENTER INNOVATIVE TECHNOLOGY	BAYSAL, O.	-	-	-	7,002	7,002	-	-	-	-	7,002	TAC
524774	SOLO INC	BAYSAL, O.	-	-	-	4,998	4,998	-	-	1,299	-	6,297	TAC
						12,000	12,000	-	-	1,299	-	13,299	10.83%
Civil and Environmental Engineering													
334881	* NATL SCIENCE FOUNDATION	AKAN, A.	3,076	154	-	-	3,230	-	-	1,357	-	4,587	
732241	* BEACH CONSULTANTS	BASCO, D.	604	-	-	296	900	-	-	72	-	972	
514991	* CENTER INNOVATIVE TECHNOLOGY	ERTEN-UNAL, M.	338	-	-	-	338	-	-	-	-	338	
330151	NATL SCIENCE FOUNDATION	HARRELL, L.	37,933	-	-	9,693	47,626	-	-	15,932	-	63,558	
111841	NASA-LANGLEY RESEARCH CENTER	NGUYEN, D.	20,061	8,566	(1,873)	-	26,754	-	-	7,443	-	34,197	
311911	US ENVIRON PROTECTION AGENCY	SCHAFFRAN, G.	11,912	22,965	335,788	31,167	401,832	-	-	14,648	-	416,480	
514291	VA INST OF MARINE SCIENCE	SCHAFFRAN, G.	937	-	-	-	937	-	-	48	-	985	
734731	MCKIM & CREED	SCHAFFRAN, G.	8,580	767	-	1,974	11,321	-	-	4,755	-	16,076	
514991	* CENTER INNOVATIVE TECHNOLOGY	YOON, J.	338	-	-	-	338	-	-	-	-	338	
534671	VA TRANSPORTATION RESEARCH COU	YOON, J.	35,414	6,630	-	12,983	55,027	-	-	23,111	-	78,138	
544811	VA TRANSPORTATION RESEARCH COU	YOON, J.	6,783	-	-	295	6,783	-	-	2,849	-	9,632	
732241	* BEACH CONSULTANTS	YOON, J.	604	-	-	-	604	-	-	72	-	676	
			126,580	39,082	333,915	56,408	555,985	-	-	70,287	-	626,272	12.64%

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			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS			
123191	Electrical and Computer Engineering										
723521	* NASA-LANGLEY RESEARCH CENTER	ALBIN, S.	78,688	4,636	-	704	84,028	21,847	105,875	TAC	
324451	* VA MICROELECTRONICS CONSORTIUM	ALBIN, S.	8,556	2,600	1,132	-	12,288	-	12,288	TAC	
534271	* NAVY ENGR LOGISTICS OFFICE	ASARI, V.	34,376	3,086	-	-	37,462	15,734	53,196	TAC	
744711	* EASTERN VIRGINIA MED. SCHOOL	BELORE, L.	23,258	2,057	-	745	26,060	2,231	28,291	TAC	
132521	* VERIZON	DHARAMSI, A.	-	7,477	2,428	-	9,905	-	9,905	TAC	
301391	* NASA-LANGLEY RESEARCH CENTER	ELSAYED-ALI, H.	33,404	7,190	3,696	18,349	18,349	-	18,349	TAC	
312811	* NATL SCIENCE FOUNDATION	ELSAYED-ALI, H.	8,153	595	44,589	-	44,290	17,050	61,340	TAC	
363412	* NATL SCIENCE FOUNDATION	ELSAYED-ALI, H.	72,454	7,225	5,377	-	53,337	3,674	57,011	TAC	
734083	* US DEPT OF ENERGY	ELSAYED-ALI, H.	8,409	50	-	-	85,056	33,465	118,521	TAC	
101831	* NATL INSTITUTE OF AEROSPACE	ELSAYED-ALI, H.	230	231	-	8,459	461	2,199	10,658	TAC	
132161	* NASA-LANGLEY RESEARCH CENTER	GONZALEZ, O.	47,865	2,860	-	-	50,725	120	51,925	TAC	
140414	* NASA-LANGLEY RESEARCH CENTER	GONZALEZ, O.	20,447	1,220	-	-	21,667	5,633	27,300	TAC	
321761	* NATL SCIENCE FOUNDATION	GONZALEZ, O.	17,866	389	-	-	18,255	7,667	25,922	TAC	
101831	* NASA-LANGLEY RESEARCH CENTER	GRAY, W.	47,865	2,860	-	-	50,725	120	51,925	TAC	
132161	* NASA-LANGLEY RESEARCH CENTER	GRAY, W.	20,448	1,220	-	-	21,668	5,634	27,302	TAC	
321761	* NATL SCIENCE FOUNDATION	GRAY, W.	17,866	388	-	-	18,254	7,667	25,921	TAC	
203541	* ARMY RESEARCH OFFICE	JOSHI, R.	26,598	1,371	1,947	(507)	29,409	11,534	40,943	TAC	
214981	* AIR FORCE OFFICE SCI RES	JOSHI, R.	45,607	4,915	6,040	7,665	64,227	21,259	85,486	TAC	
733971	* LOYOLA ENTERPRISES	LEATHRUM, J.	37,254	-	-	-	37,254	15,646	52,900	TAC	
733972	* LOYOLA ENTERPRISES	LEATHRUM, J.	39,307	-	-	-	39,307	16,509	55,816	TAC	
514774	* FOUNDATION FOR SPECIALIZED SUR	MCKENZIE, F.	-	-	-	190	190	80	270	TAC	
524759	* CENTER INNOVATIVE TECHNOLOGY	MCKENZIE, F.	2,159	-	-	-	2,159	-	2,159	TAC	
524760	* FOUNDATION FOR SPECIALIZED SUR	MCKENZIE, F.	2,210	-	-	-	2,210	928	3,138	TAC	
741451	* FOUNDATION FOR SPECIALIZED SUR	MCKENZIE, F.	14,440	-	-	-	14,440	6,065	20,505	TAC	
232631	* AIR FORCE OFFICE SCI RES	MCKENZIE, F.	41,226	11,453	-	4,516	57,195	22,125	79,320	TAC	
334881	* NATL SCIENCE FOUNDATION	MCKENZIE, F.	1,230	62	-	-	1,292	543	1,835	TAC	
534271	* EASTERN VIRGINIA MED. SCHOOL	MCKENZIE, F.	23,258	2,057	6,200	745	26,060	2,230	28,290	TAC	
540171	* EASTERN VIRGINIA MED. SCHOOL	MCKENZIE, F.	22,962	2,379	-	-	31,541	2,534	34,075	TAC	
110981	* NASA-LANGLEY RESEARCH CENTER	VAHALA, L.	14,267	6,688	-	21,386	42,291	5,448	47,739	TAC	
132581	* NASA-LANGLEY RESEARCH CENTER	VAHALA, L.	-	-	-	22,450	22,450	-	22,450	TAC	
132851	* NASA-LANGLEY RESEARCH CENTER	VAHALA, L.	22,563	1,221	-	-	23,784	6,184	29,968	TAC	
133911	* NASA-LANGLEY RESEARCH CENTER	VAHALA, L.	12,705	150	-	-	12,855	3,342	16,197	TAC	
213971	* AIR FORCE OFFICE SCI RES	VAHALA, L.	14,410	-	21,800	-	36,210	6,052	42,262	TAC	
240194	* AIR FORCE OFFICE SCI RES	VAHALA, L.	-	1,390	-	-	1,390	584	1,974	TAC	
351161	* US DEPT OF ENERGY	VAHALA, L.	1,501	5,064	-	-	6,565	2,937	9,502	TAC	
103222	* NASA-LANGLEY RESEARCH CENTER	ZAHORIAN, S.	1,787	4,069	-	18,532	22,601	-	22,601	TAC	
300861	* NATL SCIENCE FOUNDATION	ZAHORIAN, S.	6,019	625	-	47,809	50,221	-	50,221	TAC	
301381	* US DEPT OF EDUCATION	ZAHORIAN, S.	3,017	1,536	4,344	78,598	84,478	-	84,478	TAC	
322311	* NATL SCIENCE FOUNDATION	ZAHORIAN, S.	2,461	-	44,530	-	50,549	2,528	53,077	TAC	
322661	* NATL SCIENCE FOUNDATION	ZAHORIAN, S.	36,395	291	-	41,721	45,029	-	45,029	TAC	
334881	* NATL SCIENCE FOUNDATION	ZAHORIAN, S.	123	123	-	-	2,584	1,085	3,669	TAC	
392811	* NATL SCIENCE FOUNDATION	ZAHORIAN, S.	8,557	1,939	-	816	39,150	16,101	55,251	TAC	
723521	* VA MICROELECTRONICS CONSORTIUM	ZAHORIAN, S.	2,600	2,600	1,133	-	12,290	-	12,290	TAC	
			820,047	92,249	143,216	263,669	1,319,181	293,132	1,612,313	22.22%	

\* Represents split reporting of project activity between PI and Co-PI's.



**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS					
593746	Mechanical Engineering														
122221	ZORTMAN TOWERS INC	BAO, H.	1,507	287	-	547	-	-	-	547	-	-	547	-	TAC
514770	NASA-LANGLEY RESEARCH CENTER	BAO, H.				1,794				1,794			2,260		TAC
524763	WEB WISER WORLD	BAWAB, S.	1,783	339	-	601	-	-	-	601	-	-	601	-	TAC
524764	CENTER INNOVATIVE TECHNOLOGY	BAWAB, S.	682	(29)	-	2,093	-	-	-	2,093	-	-	2,093	-	TAC
524782	BIOMX	BAWAB, S.	1,321	(126)	-	554	-	-	-	554	-	-	787	-	TAC
721141	CITY OF NORFOLK	BAWAB, S.	1,230	62	-	1,321	-	-	-	1,321	-	-	1,321	-	TAC
334881	* NATL SCIENCE FOUNDATION	BAWAB, S.	6,010	241	-	1,292	-	-	-	1,292	-	-	1,835	-	TAC
514782	* NEWPORT NEWS SHIPBUILDING & DD	CHATURVEDI, S.	4,306	216	-	6,254	-	-	-	6,254	-	-	7,879	-	TAC
524757	NOVA CHEMICALS INC	HOU, G.	7,205	-	-	1,898	-	-	-	4,522	-	-	6,420	-	TAC
524758	NOVA CHEMICALS INC	HOU, G.	11,352	-	-	73	-	-	-	7,205	-	-	7,205	-	TAC
534806	NOVA CHEMICALS INC	HOU, G.	4,520	-	-	11,352	-	-	-	2,951	-	-	14,303	-	TAC
103361	NASA-LANGLEY RESEARCH CENTER	HOU, G.	7,246	-	-	4,520	-	-	-	1,175	-	-	5,695	-	TAC
103651	NASA-LANGLEY RESEARCH CENTER	HOU, G.	4,528	-	-	22,876	-	-	-	5,949	-	-	28,825	-	TAC
134601	NASA-LANGLEY RESEARCH CENTER	HOU, G.	90,728	1,977	-	7,246	-	-	-	1,864	-	-	9,130	-	TAC
112621	NASA-LANGLEY RESEARCH CENTER	HOU, G.	42,847	3,613	-	4,528	-	-	-	1,177	-	-	5,705	-	TAC
124491	NASA-LANGLEY RESEARCH CENTER	HUANG, J.	92,062	1,100	-	1,500	-	-	-	24,103	-	-	1,500	-	TAC
131841	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	16,163	1,224	-	108,868	-	-	-	132,971	-	-	132,971	-	TAC
131941	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	44,071	3,613	-	44,071	-	-	-	11,458	-	-	55,529	-	TAC
132501	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	337,822	1,100	-	433,497	-	-	-	24,876	-	-	458,373	-	TAC
194141	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	116,995	3,558	-	118,085	-	-	-	286	-	-	118,371	-	TAC
714772	VIGYAN, INC	TIWARI, S.	7,589	2,854	-	3,558	-	-	-	925	-	-	4,483	-	TAC
714773	VIGYAN, INC	TIWARI, S.	39,342	12,047	-	10,443	-	-	-	2,715	-	-	13,158	-	TAC
320841	* NATL SCIENCE FOUNDATION	WILLIAMSON, K.	20,062	2,506	-	51,389	-	-	-	13,361	-	-	64,750	-	TAC
320842	* NATL SCIENCE FOUNDATION	WILLIAMSON, K.	5,856	90	-	56,301	-	-	-	1,804	-	-	58,105	-	TAC
320843	* NATL SCIENCE FOUNDATION	WILLIAMSON, K.	6,001	14	-	54,966	-	-	-	476	-	-	55,442	-	TAC
333191	* NATL SCIENCE FOUNDATION	WILLIAMSON, K.	8,186	13,964	-	14,195	-	-	-	481	-	-	14,676	-	TAC
333192	NATL SCIENCE FOUNDATION	WILLIAMSON, K.	13,550	3,600	-	59,762	-	-	-	3,438	-	-	63,200	-	TAC
			377,913	44,092	-	27,514	-	-	-	11,556	-	-	39,070	-	
						3,600	-	-	-	900	-	-	4,500	-	
						642,522	-	-	-	114,299	-	-	1,176,826	-	
						1,064,527	-	-	-		-	-		-	10.74%

**SCHEDULE 4**  
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**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES					
573752	Engineering Technology	BUSCHAK, A.	-	-	-	30	-	-	-	30	-	-	30	TAC
534807	COMMUNITY TELEPLAY INC	CONSIDINE, C.	-	3,500	-	-	-	-	-	3,500	-	-	3,500	TAC
534808	CENTER INNOVATIVE TECHNOLOGY	CONSIDINE, C.	2,275	500	-	3	-	-	-	2,778	722	-	3,500	TAC
234211	ENGINEERING AND ENVIRONMENT	CONSIDINE, C.	1,373	156	-	-	-	-	-	1,529	398	-	1,927	TAC
720002	* ADVANCED TECHNOLOGY INST	CONSIDINE, C.	-	-	-	117	-	-	-	117	30	-	147	TAC
723841	RESOURCE CONSULTANTS INC	CONSIDINE, C.	5,700	-	-	729	-	-	-	6,429	1,671	-	8,100	TAC
533771	* VA DEPT MINES, MINERAL & ENERGY	DEAN, A.	4,338	-	-	-	-	-	-	4,338	1,128	-	5,466	TAC
733451	* N VIEW	DEAN, A.	2,049	-	-	-	-	-	-	2,049	533	-	2,582	TAC
533771	* VA DEPT MINES, MINERAL & ENERGY	FLORY, I.	7,592	-	-	-	-	-	-	7,592	1,974	-	9,566	TAC
131071	NASA-LANGLEY RESEARCH CENTER	KAUFFMANN, P.	1,588	-	-	-	-	-	-	1,588	413	-	2,001	TAC
723841	RESOURCE CONSULTANTS INC	KAUFFMANN, P.	633	-	-	81	-	-	-	714	186	-	900	TAC
733451	* N VIEW	KAUFFMANN, P.	2,049	-	-	-	-	-	-	2,049	533	-	2,582	TAC
534797	CENTER INNOVATIVE TECHNOLOGY	LEWIS, V.	-	-	-	2,000	-	-	-	2,000	-	-	2,000	TAC
534798	ARMOROCK SYSTEMS INC	LEWIS, V.	7,592	-	-	2,000	-	-	-	7,592	1,974	-	9,566	TAC
533771	* VA DEPT MINES, MINERAL & ENERGY	MOHIELDIN, T.	-	-	-	-	-	-	-	-	43	-	43	TAC
524754	MISSION SPECIFIC LTD	MOUSTAFI, M.	1,153	-	-	-	-	-	-	1,153	-	-	1,153	TAC
524765	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFI, M.	411	-	-	-	-	-	-	412	173	-	585	TAC
524766	MARK SCURA	MOUSTAFI, M.	1,787	-	-	1	-	-	-	1,787	-	-	1,787	TAC
524769	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFI, M.	1,163	-	-	(3)	-	-	-	1,160	489	-	1,649	TAC
524770	NORFOLK TENT COMPANY	MOUSTAFI, M.	1,068	-	-	20	-	-	-	1,068	9	-	1,077	TAC
524776	DONNA HUDDLESTON	MOUSTAFI, M.	502	-	-	-	-	-	-	502	-	-	502	TAC
524780	CITY OF NORFOLK	MOUSTAFI, M.	23,505	4,600	-	-	-	-	-	28,105	2,810	8,333	39,248	TAC
524781	CITY OF NORFOLK	PETERSON, W.	284	2,019	-	-	-	-	-	2,303	-	-	2,303	TAC
734941	GREEN VIRGINIA ETHANOL PROJECT	VERMA, A.	26,167	5,743	-	-	-	-	-	31,910	8,297	-	40,207	TAC
534795	CENTER INNOVATIVE TECHNOLOGY	VERMA, A.	67,296	7,666	-	-	-	-	-	74,962	19,490	-	94,452	TAC
534796	NEWPORT NEWS SHIPBUILDING & DD	WELLS, S.	5,122	272	-	69	-	-	-	5,394	18	-	5,412	TAC
234211	* ADVANCED TECHNOLOGY INST	ZHOU, G.	3,737	-	-	-	-	-	-	3,737	2,266	-	6,003	TAC
514768	RABATT INC	ZHOU, G.	8,883	5,516	-	11,135	-	-	-	25,534	10,724	-	36,258	TAC
320091	NATL. SCIENCE FOUNDATION	ZHOU, G.	-	-	-	-	-	-	-	-	-	-	-	TAC
523881	GEORGE MASON UNIVERSITY	ZHOU, G.	-	-	-	-	-	-	-	-	-	-	-	TAC
523981	UNIVERSITY OF MISSISSIPPI	ZHOU, G.	-	-	-	-	-	-	-	-	-	-	-	TAC
			176,267	32,031	-	16,182	-	-	-	224,480	56,316	8,333	289,129	28.80%

\* Represents split reporting of project activity between PI and Co-PI's.

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS				
<b>Engineering Management</b>														
514991	* CENTER INNOVATIVE TECHNOLOGY	KAUFMANN, P.	338	-	-	-	338	-	-	-	-	338	-	TAC
524751	* CENTER INNOVATIVE TECHNOLOGY	KEATING, C.	678	-	-	-	678	-	-	-	-	678	-	TAC
524752	* KITCO FIBER OPTICS INC	KEATING, C.	1,863	-	-	-	1,863	484	-	-	-	2,347	-	TAC
720001	* NASA-LANGLEY RESEARCH CENTER	KEATING, C.	7,284	449	-	-	7,733	2,010	-	-	-	9,743	-	
720002	* RESOURCE CONSULTANTS INC	KEATING, C.	-	-	-	-	-	-	-	-	-	-	-	
733711	* RESOURCE CONSULTANTS INC	KEATING, C.	1,554	-	-	-	1,554	404	-	-	-	1,958	-	
741191	* CONCURRENT TECHNOLOGIES CORP	KEATING, C.	240,319	7,641	-	-	247,960	104,143	-	-	-	352,103	-	
741191	* CONCURRENT TECHNOLOGIES CORP	KEATING, C.	41,644	8,648	-	-	50,292	11,839	-	-	-	62,131	-	
140453	* SENTRA HOSPITALS	MUN, N.	2,457	668	-	-	3,125	813	-	-	-	3,938	-	
720003	* SENTRA HOSPITALS	RABADI, A.	2,457	668	-	-	3,125	812	-	-	-	3,937	-	
720003	* NASA-LANGLEY RESEARCH CENTER	RABADI, G.	22,394	2,135	-	-	24,529	6,378	-	-	-	30,907	-	
514802	* RESOURCE CONSULTANTS INC	SOSA-POZA, A.	9,547	-	-	-	9,547	2,482	-	-	-	12,029	-	
524751	* VIRGINIA DIE & MANUFACTURING	SOSA-POZA, A.	2,964	-	-	-	2,964	771	-	-	-	3,735	-	TAC
524752	* CENTER INNOVATIVE TECHNOLOGY	SOSA-POZA, A.	2,680	-	-	-	2,680	697	-	-	-	3,377	-	TAC
720001	* RESOURCE CONSULTANTS INC	SOSA-POZA, A.	-	-	-	1	1	-	-	-	-	1	-	TAC
124161	* RESOURCE CONSULTANTS INC	UNAL, R.	1,363	-	-	-	1,363	354	-	-	-	1,717	-	TAC
130012	* NASA-LANGLEY RESEARCH CENTER	UNAL, R.	13,528	833	-	-	14,361	3,734	-	-	-	18,095	-	TAC
			352,045	21,042	-	1	373,088	134,921	-	-	-	508,009	-	36.16%
<b>TAC: Technology Applications Center</b>														
514772	SOLO INC	CORY, M.	-	-	-	2	-	-	-	-	-	3,752	-	TAC
524236	BRUNSWICK BOX CO	CORY, M.	-	-	-	2,104	2,104	-	-	-	-	9,946	-	TAC
524779	CENTER INNOVATIVE TECHNOLOGY	CORY, M.	829	8,594	-	12,764	22,187	867	-	-	-	22,187	-	TAC
524783	AMADAS INDUSTRIES	CORY, M.	-	52	16,945	540	17,537	22	-	-	-	17,559	-	TAC
533771	MULLER MARTINI	CORY, M.	-	-	-	-	-	-	-	-	-	3,450	-	TAC
534791	* VA DEPT MINES, MINERAL & ENERGY	LAPLACA, J.	2,169	-	-	2,169	564	-	-	-	-	2,733	-	TAC
534792	CENTER INNOVATIVE TECHNOLOGY	LAPLACA, J.	-	-	-	1,450	1,450	315	-	-	-	1,450	-	TAC
534793	TOTS INC	LAPLACA, J.	-	-	-	750	750	450	-	-	-	1,515	-	TAC
534794	CENTER INNOVATIVE TECHNOLOGY	LAPLACA, J.	-	-	-	1,450	1,450	315	-	-	-	1,515	-	TAC
534800	J SWEENEY	LAPLACA, J.	1,416	-	-	1,416	450	-	-	-	-	1,416	-	TAC
534802	CENTER INNOVATIVE TECHNOLOGY	LAPLACA, J.	507	-	-	38	545	229	-	-	-	1,006	-	TAC
534803	NOAH MOFFETT	LAPLACA, J.	19,560	3,937	-	2,499	25,996	9,869	-	-	-	43,265	-	TAC
534804	SELF DEFENSE TECHNOLOGIES	LAPLACA, J.	1,700	-	-	1,700	788	527	-	-	-	1,700	-	TAC
541834	CITY OF NORFOLK	LAPLACA, J.	1,254	-	-	1,254	750	218	-	-	-	2,531	-	TAC
522695	CITY OF NORFOLK	LAPLACA, J.	794	-	-	(6)	788	4,500	-	-	-	4,500	-	TAC
524221	CENTER INNOVATIVE TECHNOLOGY	PARKINSON, K.	2,348	-	-	-	-	-	-	-	-	2,591	-	TAC
524761	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	243	-	2,025	2,025	-	-	-	-	2,025	-	TAC
524762	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	-	-	6,762	6,762	1,758	-	-	-	8,520	-	TAC
524777	ENGEDI TECHNOLOGIES INC	ROBERTSON, J.	1,902	-	-	1,902	1,902	592	-	-	-	2,002	-	TAC
524778	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	1,309	-	-	101	1,410	112,666	-	-	-	112,666	-	TAC
534781	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	107,079	5,587	-	-	112,666	-	-	-	-	2,000	-	TAC
534809	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	-	-	2,000	2,000	-	-	-	-	2,000	-	TAC
534810	COMMONWEALTH SUPPLY	ROBERTSON, J.	-	-	-	1,000	1,000	-	-	-	-	1,000	-	TAC
541835	CITY OF NORFOLK	ROBERTSON, J.	-	-	-	1,000	1,000	-	-	-	-	1,000	-	TAC
724572	ELEC DEV LABS EDL	ROBERTSON, J.	-	-	-	518	518	217	-	-	-	735	-	TAC
724691	A. L. PHILPOTT MANUFACTURING	ROBERTSON, J.	4,762	(205)	-	-	4,557	-	-	-	-	4,557	-	TAC
740202	SOC PREVENT CRUELTY TO ANIMALS	ROBERTSON, J.	5,040	4,811	9,151	7,993	26,995	995	-	-	-	33,090	-	TAC
740582	A. L. PHILPOTT MANUFACTURING	ROBERTSON, J.	56,379	-	-	-	56,379	-	-	-	-	56,379	-	TAC
			207,048	23,019	26,096	43,740	299,903	16,270	33,275	-	-	349,448	-	16.52%

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST			PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS				TOTAL SPECIAL FEES
Aerospace Engineering												
504924	OCEANA SENSORS TECHNOLOGIES	ALBERTS, T.	-	-	-	-	62	62	16	-	78	TAC
100121	NASA-LANGLEY RESEARCH CENTER	BRITCHER, C.	107,080	9,841	6,528	-	-	123,449	30,399	-	153,848	TAC
100122	NASA-LANGLEY RESEARCH CENTER	BRITCHER, C.	-	-	-	19,909	1	19,909	-	-	19,909	LFST
514783	NASA-LANGLEY RESEARCH CENTER	CROSS, J.	7,882	-	-	-	1	7,882	-	-	7,882	TAC
514784	CENTER INNOVATIVE TECHNOLOGY	KANDIL, O.	14,986	-	-	-	1	14,987	3,896	-	18,883	TAC
741461	EAGLE AERONAUTICS	KANDIL, O.	24,460	-	-	-	-	24,460	6,360	-	30,820	TAC
514779	EAGLE AERONAUTICS	KANDIL, O.	1,670	-	-	-	-	1,670	-	-	1,670	TAC
514780	CENTER INNOVATIVE TECHNOLOGY	MEI, C.	7,807	-	-	-	-	7,807	2,030	-	9,837	TAC
524232	AMAC INT	NEWMAN, B.	-	-	-	-	16,710	16,710	4,344	-	21,054	TAC
741110	AERO TECH RESEARCH	NEWMAN, B.	19,373	6,163	-	-	(1)	25,535	10,725	-	36,260	TAC
744891	ATHENA TECHNOLOGIES INC.	NEWMAN, B.	24,263	-	-	-	-	24,263	10,190	-	34,453	TAC
			207,521	16,004	6,528	36,682	266,735	67,960	-	-	334,695	25.48%
Aerospace Engineering - SSRP												
533361	UNIVERSITY OF TENNESSEE	EIDSON, T.	83,933	700	-	-	-	84,633	35,546	-	120,179	SSRP
332991	JER PROPULSION LABORATORY	MIKULAS, M.	64,529	-	-	-	-	64,529	16,777	-	81,306	SSRP
734082	NATL INSTITUTE OF AEROSPACE	MIKULAS, M.	15,835	-	-	-	-	15,835	4,117	-	19,952	SSRP
			164,297	700	-	-	-	164,997	56,440	-	221,437	34.21%
ARC: Applied Research Center												
111502	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	-	679	-	-	-	679	176	-	855	ARC
112101	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	-	-	-	24,554	-	24,554	-	-	24,554	ARC
122241	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	27,258	-	-	-	-	27,258	7,087	-	34,345	ARC
132111	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	77,888	2,782	-	1,911	-	82,581	20,974	-	103,555	ARC
132661	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	30,927	1,049	-	-	-	31,976	-	-	31,976	ARC
293051	ARMY RESEARCH OFFICE	GUPTA, M.	101,670	19,468	4,243	-	-	125,381	51,880	-	177,261	ARC
311121	NATL SCIENCE FOUNDATION	GUPTA, M.	5,413	4,691	-	-	-	10,104	4,244	-	14,348	ARC
311122	NATL SCIENCE FOUNDATION	GUPTA, M.	4,246	-	-	-	-	4,246	1,061	-	5,307	ARC
314641	NATL SCIENCE FOUNDATION	GUPTA, M.	57,649	2,816	-	-	-	60,465	-	-	60,465	ARC
314648	SOUTHEASTERN UNIV RESE ASSOC	GUPTA, M.	32,418	3,581	6,695	-	-	42,694	-	-	42,694	ARC
314849	LAM INDUSTRY MEMBERSHIPS	GUPTA, M.	103,867	14,406	-	-	-	118,273	-	-	118,273	ARC
532121	CENTER INNOVATIVE TECHNOLOGY	GUPTA, M.	-	9	-	-	-	9	-	-	9	ARC
534611	CENTER INNOVATIVE TECHNOLOGY	GUPTA, M.	-	30,000	-	-	-	30,000	-	-	30,000	ARC
730831	SOUTHEASTERN UNIV RESE ASSOC	GUPTA, M.	-	-	-	1,032	-	1,032	434	-	1,466	ARC
733751	SIEMENS AUTOMOTIVE INC.	GUPTA, M.	5,638	-	-	-	-	5,638	2,368	-	8,006	ARC
734131	SIEMENS AUTOMOTIVE INC.	GUPTA, M.	45,338	3,841	-	-	-	49,179	20,655	-	69,834	ARC
734911	ALCOA INC	GUPTA, M.	17,968	2,884	-	273	-	21,125	8,872	-	29,997	ARC
742431	PHILLIP MORRIS	GUPTA, M.	7,576	-	-	-	-	7,576	3,182	-	10,758	ARC
200761	AIR FORCE OFFICE SCI RES	LAROUISS, M.	-	-	-	(0)	-	-	-	-	-	ARC
			517,856	86,206	10,938	27,770	642,770	120,993	-	-	763,703	18.81%

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST			PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
				SUPPLIES CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS CONSTRUCTION OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
234861	VMASC: Virginia Modeling and Simulation Center	DRYER, D.	15,506	50	-	-	15,556	6,533	-	22,089	VMASC	
314921	NAVAL SEA SYSTEMS COMMAND	DRYER, D.	6,663	198	-	-	6,861	1,784	-	8,645	VMASC	
737002	NATL SCIENCE FOUNDATION	DRYER, D.	23,306	642	-	-	23,948	10,058	-	34,006	VMASC	
295044	COMPUTER SCIENCE CORP.	GROSEL, J.	20,442	986	-	-	21,428	5,571	-	26,999	VMASC	
295045	NAVY FISC - PHILADELPHIA	GROSEL, J.	72,526	-	-	-	72,526	18,857	-	91,383	VMASC	
295046	NAVY FISC - PHILADELPHIA	GROSEL, J.	97,952	-	-	-	119,928	31,181	-	151,109	VMASC	
295047	NAVY FISC - PHILADELPHIA	GROSEL, J.	213,988	-	-	-	266,803	69,369	-	336,172	VMASC	
295049	NAVY FISC - PHILADELPHIA	GROSEL, J.	51,172	1,843	-	-	53,015	13,784	-	66,799	VMASC	
295050	NAVY FISC - PHILADELPHIA	GROSEL, J.	512,945	29,974	-	-	542,919	141,159	-	684,078	VMASC	
295051	NAVY FISC - PHILADELPHIA	GROSEL, J.	680,390	83,926	-	-	764,316	198,722	-	963,038	VMASC	
295052	NAVY FISC - PHILADELPHIA	GROSEL, J.	49,022	6,199	-	-	55,221	14,357	-	69,578	VMASC	
295053	NAVY FISC - PHILADELPHIA	GROSEL, J.	67,214	2,309	-	-	69,523	18,076	-	87,599	VMASC	
295054	NAVY FISC - PHILADELPHIA	GROSEL, J.	107,043	542	-	-	107,585	27,972	-	135,557	VMASC	
295055	NAVY FISC - PHILADELPHIA	GROSEL, J.	17,972	655	-	-	18,627	4,843	-	23,470	VMASC	
733401	SCIENCE APPLICATIONS INTL CORP	GROSEL, J.	14,280	547	-	2,639	17,466	4,542	-	22,008	VMASC	
230841	TRADOC COMMAND	LEATHRUM, J.	6,691	-	-	-	6,691	1,740	-	8,431	VMASC	
733971	LOYOLA ENTERPRISES	LEATHRUM, J.	37,254	-	-	-	37,254	15,647	-	52,901	VMASC	
733972	LOYOLA ENTERPRISES	LEATHRUM, J.	39,306	-	-	-	39,306	16,508	-	55,814	VMASC	
100700	PRIVATE DONATIONS	LOFTIN, B.	90,560	2,706	-	-	129,857	-	-	129,857	VMASC	
224501	ARMY MED RES COMMAND	LOFTIN, B.	14,654	-	-	-	74,793	-	-	74,793	VMASC	
234921	OFFICE OF NAVAL RESEARCH	LOFTIN, B.	21,281	3,551	-	57,588	87,233	20,430	-	107,663	VMASC	
238001	NAVY FISC - PHILADELPHIA	LOFTIN, B.	18,949	-	-	-	18,949	7,959	-	26,908	VMASC	
238002	NAVY FISC - PHILADELPHIA	LOFTIN, B.	49,161	1,389	-	-	50,550	21,231	-	71,781	VMASC	
238003	NAVY FISC - PHILADELPHIA	LOFTIN, B.	51,354	325	-	-	51,679	21,705	-	73,384	VMASC	
238004	NAVY FISC - PHILADELPHIA	LOFTIN, B.	67,843	-	-	-	67,843	28,410	-	96,253	VMASC	
238005	NAVY FISC - PHILADELPHIA	LOFTIN, B.	109,763	5,279	-	-	115,042	48,318	-	163,360	VMASC	
238006	NAVY FISC - PHILADELPHIA	LOFTIN, B.	1,945	-	-	13,350	15,295	817	-	16,112	VMASC	
238007	NAVY FISC - PHILADELPHIA	LOFTIN, B.	79,740	12,936	-	-	92,676	38,924	-	131,600	VMASC	
246001	NAVY FISC - PHILADELPHIA	LOFTIN, B.	19,448	-	-	-	19,448	5,057	-	24,505	VMASC	
246002	NAVY FISC - PHILADELPHIA	LOFTIN, B.	25,483	4,865	-	-	30,348	7,890	-	38,238	VMASC	
246003	NAVY FISC - PHILADELPHIA	LOFTIN, B.	186,382	14,437	-	-	200,819	52,213	-	253,032	VMASC	
246004	NAVY FISC - PHILADELPHIA	LOFTIN, B.	124,552	13,913	-	-	138,465	36,001	-	174,466	VMASC	
246005	NAVY FISC - PHILADELPHIA	LOFTIN, B.	36,462	903	-	-	37,365	9,715	-	47,080	VMASC	
246006	NAVY FISC - PHILADELPHIA	LOFTIN, B.	22,439	13,890	-	-	36,329	9,446	-	45,775	VMASC	
246007	NAVY FISC - PHILADELPHIA	LOFTIN, B.	6,505	1,505	-	-	8,010	2,083	-	10,093	VMASC	
246008	NAVY FISC - PHILADELPHIA	LOFTIN, B.	5,228	2,037	-	-	7,265	1,889	-	9,154	VMASC	
322311	NATL SCIENCE FOUNDATION	LOFTIN, B.	6,019	-	-	44,529	50,548	2,528	-	53,076	VMASC	
534271	* EASTERN VIRGINIA MED. SCHOOL	LOFTIN, B.	162,802	14,394	-	5,216	182,412	15,614	-	198,026	VMASC	
540171	* EASTERN VIRGINIA MED. SCHOOL	LOFTIN, B.	172,212	17,843	-	-	236,551	19,006	-	255,557	VMASC	
740081	MYLIC-LLC	LOFTIN, B.	29,324	-	-	-	29,324	12,316	-	41,640	VMASC	

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
731041	SCIENCE APPLICATIONS INTL CORP	MCCLESKEY, K.	89,384	15,723	-	105,107	44,145	-	149,252	-	VMASC	
731042	SCIENCE APPLICATIONS INTL CORP	MCCLESKEY, K.	17,468	-	-	17,468	7,336	-	24,804	-	VMASC	
731736	GENERAL DYNAMICS	MCCLESKEY, K.	20,147	-	-	20,147	8,462	-	28,609	-	VMASC	
731738	GENERAL DYNAMICS	MCCLESKEY, K.	20,768	48,000	-	68,768	28,882	-	97,650	-	VMASC	
737001	COMPUTER SCIENCE CORP.	MCCLESKEY, K.	(1,544)	(0)	-	(1,544)	(648)	-	(2,192)	-	VMASC	
731734	GENERAL DYNAMICS	MCCLESKEY, K.	27,879	12,938	-	40,817	17,143	-	57,960	-	VMASC	
520861	* COMMONWEALTH TECHNOLOGY RESEA	MIELKE, R.	7,758	(53)	10,078	28,112	-	-	28,112	-	VMASC	
740941	INTELLIGENT DECISION SYSTEMS	MIELKE, R.	48,218	455	-	48,673	20,442	-	69,115	-	VMASC	
224511	NAVAL AIR WARFARE CENTER TSD	PETTY, M.	10,709	-	-	10,709	4,498	-	15,207	-	VMASC	
230681	OFFICE OF NAVAL RESEARCH	PETTY, M.	14,669	71	-	14,740	6,191	-	20,931	-	VMASC	
232631	AIR FORCE OFFICE SCI RES	PETTY, M.	133,984	37,222	-	185,862	71,907	-	257,789	-	VMASC	
233471	COMMANDER OP TEST & EVAL FORCE	PETTY, M.	82,567	1,093	-	83,660	35,137	-	118,797	-	VMASC	
532631	CENTER INNOVATIVE TECHNOLOGY	PETTY, M.	-	-	-	38,450	-	-	38,450	-	VMASC	
731731	GENERAL DYNAMICS	PETTY, M.	19,823	322	-	19,859	8,341	-	28,200	-	VMASC	
731733	GENERAL DYNAMICS	PETTY, M.	54,929	520	-	55,771	23,424	-	79,195	-	VMASC	
520861	* COMMONWEALTH TECHNOLOGY RESEA	PHILLIPS, M.	7,757	(53)	10,077	28,110	-	-	28,110	-	VMASC	
243001	NAVY FISC - PHILADELPHIA	PHILLIPS, M.	55	-	-	42,064	10,523	-	52,587	-	VMASC	
238008	NAVY FISC - PHILADELPHIA	SOKOLOWSKI, J.	119,652	16,521	11,723	147,896	57,193	-	205,089	-	VMASC	
731735	GENERAL DYNAMICS	SOKOLOWSKI, J.	33,411	951	-	34,362	25,938	-	60,299	-	VMASC	
740541	ARION SYSTEMS INC	SOKOLOWSKI, J.	3,722	968	-	4,690	1,970	-	6,660	-	VMASC	
532921	GEORGE MASON UNIVERSITY	TOLK, A.	59,476	10,512	-	69,988	29,395	-	99,383	-	VMASC	
731732	GENERAL DYNAMICS	TOLK, A.	63,025	8,912	-	71,937	34,905	-	106,842	-	VMASC	
731737	GENERAL DYNAMICS	TOLK, A.	57,022	345	-	57,367	24,094	-	81,461	-	VMASC	
741601	GENERAL DYNAMICS	TOLK, A.	17,582	-	-	17,582	7,384	-	24,966	-	VMASC	
742321	NETWORLD EXCHANGE INC	TOLK, A.	14,748	1,116	-	15,864	6,663	-	22,527	-	VMASC	
745271	NETWORLD EXCHANGE INC	TOLK, A.	1,087	-	1,087	1,087	457	-	1,544	-	VMASC	
			4,259,874	475,453	125,609	5,375,705	1,436,037	514,769	6,811,742	-	26.71%	

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
Center for Advanced Engineering Environments													
111501	NASA-LANGLEY RESEARCH CENTER	NOOR, A.	363,469	27,175	147,241	572,665	1,110,550	101,568	-	1,212,118	-	1,212,118	CAEE
140151	NASA-LANGLEY RESEARCH CENTER	NOOR, A.	64,715	5,665	15,840	-	86,220	18,299	-	104,519	-	104,519	CAEE
141641	NASA-LANGLEY RESEARCH CENTER	NOOR, A.	72,798	-	-	32,232	105,030	25,427	-	130,457	-	130,457	CAEE
212151	OFFICE OF NAVAL RESEARCH	NOOR, A.	67,071	15,567	3,014	-	85,652	21,486	-	107,138	-	107,138	CAEE
521271	UNIVERSITY OF MISSISSIPPI	NOOR, A.	39,112	531	-	23,029	62,672	10,307	-	72,979	-	72,979	CAEE
			607,165	48,938	166,095	627,926	1,450,124	177,087	-	1,627,211	-	1,627,211	12.21%
Center for Bioelectronics													
220131	* AIR FORCE OFFICE SCI RES	JOSHI, R.	65,863	26,772	873	244,939	338,447	38,907	-	377,354	-	377,354	CBE
230101	AIR FORCE OFFICE SCI RES	LAROSSI, M.	41,219	13,377	17,917	-	72,513	22,930	-	95,443	-	95,443	CBE
723531	INNOVATEK INC	LAROSSI, M.	2,060	1,314	-	857	4,231	1,777	-	6,008	-	6,008	CBE
733801	CFD RESEARCH CORP	LAROSSI, M.	18,552	998	10,524	-	30,074	8,211	-	38,285	-	38,285	CBE
734621	MICROENERGY TECHNOLOGIES INC	LAROSSI, M.	30,438	6,300	-	-	36,738	15,430	-	52,168	-	52,168	CBE
745771	CLOROX CO.	LAROSSI, M.	-	614	-	-	614	258	-	872	-	872	CBE
200951	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	24,215	(8)	-	(98)	24,109	10,126	-	34,235	-	34,235	CBE
220131	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	67,860	27,583	899	252,362	348,704	40,086	-	388,790	-	388,790	CBE
302261	NATL SCIENCE FOUNDATION	SCHOENBACH, K.	37,370	11,418	10,558	-	59,346	20,491	-	79,837	-	79,837	CBE
511511	UNIVERSITY OF NEW MEXICO	SCHOENBACH, K.	278,232	46,394	18,813	-	343,439	136,343	-	479,782	-	479,782	CBE
721201	INNOVATIVE SCIENTIFIC SOLUTION	SCHOENBACH, K.	45,535	10,432	3,108	-	59,075	23,506	-	82,581	-	82,581	CBE
733321	INST ELE & ELEC ENGINEERS	SCHOENBACH, K.	-	717	-	379	1,096	460	-	1,556	-	1,556	CBE
740141	ULTRAVIOLET SCIENCES INC	SCHOENBACH, K.	9,857	6,525	-	938	16,382	6,880	-	23,262	-	23,262	CBE
741411	STEVENS INSTITUTE OF TECH	SCHOENBACH, K.	3,034	4,727	-	938	8,699	3,653	-	12,352	-	12,352	CBE
214981	* AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	31,893	3,415	4,197	5,326	44,631	14,773	-	59,404	-	59,404	CBE
			655,928	160,578	66,889	504,703	1,388,098	343,831	-	1,731,929	-	1,731,929	24.77%
			\$ 8,472,541	\$ 1,039,394	\$ 879,286	\$ 2,746,372	\$ 13,137,593	\$ 2,898,812	\$ 41,608	\$ 16,068,013		\$ 16,068,013	22.31%

TOTAL ENGINEERING

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES		
<b>HEALTH SCIENCES</b>											
Dean's Office											
331371	* US DEPT HLTH/HUMAN SERV	PLITCHA, S.	22,645	3,194	982	2,616	29,437	2,276	-	31,713	7.73%
			22,645	3,194	982	2,616	29,437	2,276	-	31,713	7.73%
<b>Dental Hygiene</b>											
722411	AMERICAN DENTAL HYGIENE ASSOC.	DARBY, M.	-	564	-	(25)	539	85	-	624	
732421	AMERICAN DENTAL HYGIENE ASSOC.	DARBY, M.	1,363	1,725	-	550	3,638	463	-	4,101	
522641	EASTERN VIRGINIA MED. SCHOOL	MCCOMBS, G.	10,230	74	-	-	10,304	4,328	-	14,632	
712601	AMERICAN DENTAL HYGIENE ASSOC.	MCCOMBS, G.	-	-	-	71	71	-	-	71	
722401	AMERICAN DENTAL HYGIENE ASSOC.	MCCOMBS, G.	1,266	3,010	-	-	4,276	641	-	4,917	
732541	AMERICAN DENTAL HYGIENE ASSOC.	SHUMAN, D.	195	194	-	-	389	58	-	447	
732411	AMERICAN DENTAL HYGIENE ASSOC.	TOLLE, L.	610	2,502	-	1,600	4,712	467	-	5,179	
			13,664	8,069	-	2,196	23,929	6,042	-	29,971	25.25%
<b>Nursing</b>											
331371	* US DEPT HLTH/HUMAN SERV	BENJAMIN-COLEMAN, I	22,646	3,194	982	2,616	29,438	2,276	-	31,714	
331371	* US DEPT HLTH/HUMAN SERV	GARZON, L.	33,969	4,791	1,474	3,923	44,157	3,415	-	47,572	
331371	* US DEPT HLTH/HUMAN SERV	RUTLEDGE, C.	33,969	4,791	1,473	3,924	44,157	3,415	-	47,572	
533311	UNIFORM SERVICES UNIVERSITY HS	TERNUS, M.	52,993	44,388	-	3,111	100,492	40,900	-	141,392	
			143,577	57,164	3,929	13,574	218,244	50,006	-	268,250	22.91%
<b>TOTAL HEALTH SCIENCES</b>			<b>\$ 179,886</b>	<b>\$ 68,427</b>	<b>\$ 4,911</b>	<b>\$ 18,386</b>	<b>\$ 271,610</b>	<b>\$ 58,324</b>	<b>\$ -</b>	<b>\$ 329,934</b>	<b>21.47%</b>



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**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER		
				SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS					
514302	MD DEPT. OF NATURAL RESOURCES	ASHFORD, J.	1,567	-	-	-	1,567	-	-	-	658	-	2,225		
731081	BRITISH ANTARCTIC SURVEY	ASHFORD, J.	1,287	-	-	8,656	9,943	-	-	-	3,067	-	13,010		
320451	NATL. SCIENCE FOUNDATION	BUTLER, M.	44,588	21,705	-	-	66,293	-	-	-	17,236	-	83,529		
321681	NATL OCEANIC/ATMOS ADMIN	BUTLER, M.	33,287	6,910	-	-	40,197	-	-	-	7,243	-	47,440		
321682	NATL OCEANIC/ATMOS ADMIN	BUTLER, M.	(3,836)	(2,290)	-	-	(6,126)	-	-	-	(1,593)	-	(7,719)		
340121	NATL OCEANIC/ATMOS ADMIN	BUTLER, M.	13,389	6,263	2,200	-	21,852	-	-	-	5,110	-	26,962		
522003	VA DEPT ENVIRON QUALITY	CARPENTER, K.	-	-	-	2,242	2,242	-	-	-	561	-	2,803		
522006	VA DEPT ENVIRON QUALITY	CARPENTER, K.	-	-	-	540	540	-	-	-	135	-	675		
531983	VA DEPT ENVIRON QUALITY	CARPENTER, K.	10,833	4,044	-	-	14,877	-	-	-	2,097	-	16,974		
531986	VA DEPT ENVIRON QUALITY	CARPENTER, K.	1,316	-	-	-	1,316	-	-	-	329	-	1,645		
721891	FAO OF THE UNITED NATIONS	CARPENTER, K.	-	(100)	-	-	(100)	-	-	-	(25)	-	(125)		
732061	FAO OF THE UNITED NATIONS	CARPENTER, K.	14,843	4,506	-	-	19,349	-	-	-	4,837	-	24,186		
741392	WORLD CONSERVATION UNION	CARPENTER, K.	5,221	-	-	-	5,221	-	-	-	1,305	-	6,526		
745531	FAO OF THE UNITED NATIONS	CARPENTER, K.	1,353	-	-	-	1,353	-	-	-	338	-	1,691		
341581	US PUBLIC HEALTH SERVICE	COOPER, R.	7,929	4,693	10,856	747	24,225	-	-	-	1,010	-	25,235		
511331	UNIVERSITY OF MARYLAND	DAUER, D.	2,553	-	-	-	2,553	-	-	-	1,072	-	3,625		
522004	VA DEPT ENVIRON QUALITY	DAUER, D.	4,030	-	-	12,948	16,978	-	-	-	4,245	-	21,223		
522005	VA DEPT ENVIRON QUALITY	DAUER, D.	-	-	-	12,918	12,918	-	-	-	117	-	13,035		
522006	VA DEPT ENVIRON QUALITY	DAUER, D.	-	-	-	540	540	-	-	-	135	-	675		
530501	VA DEPT ENVIRON QUALITY	DAUER, D.	-	11	-	5,940	5,951	-	-	-	1,488	-	7,439		
531984	VA DEPT ENVIRON QUALITY	DAUER, D.	-	-	-	10,444	10,444	-	-	-	2,611	-	13,055		
531985	VA DEPT ENVIRON QUALITY	DAUER, D.	-	-	-	2,115	2,115	-	-	-	19,128	-	113,131		
531986	VA DEPT ENVIRON QUALITY	DAUER, D.	71,805	20,083	-	-	58,098	-	-	-	1,301	-	59,399		
541421	VA DEPT ENVIRON QUALITY	DAUER, D.	1,317	-	-	-	1,317	-	-	-	329	-	1,646		
541422	VA DEPT ENVIRON QUALITY	DAUER, D.	2,161	321	-	-	2,482	-	-	-	621	-	3,103		
541425	VA DEPT ENVIRON QUALITY	DAUER, D.	68,573	769	-	-	69,342	-	-	-	17,335	-	86,677		
541426	VA DEPT ENVIRON QUALITY	DAUER, D.	48,745	1,003	8,844	-	58,592	-	-	-	1,114	-	59,706		
344011	SMITHSONIAN INSTITUTION	DAY, F.	3,082	-	-	-	3,082	-	-	-	771	-	3,853		
344012	SMITHSONIAN INSTITUTION	DAY, F.	34,290	9,891	23,174	-	67,355	-	-	-	11,487	-	78,842		
502311	UNIVERSITY OF VIRGINIA	DAY, F.	12,514	158	-	-	12,672	-	-	-	3,295	-	15,967		
224433	OFFICE OF NAVAL RESEARCH	GORDON, A.	4,988	2,097	-	-	7,085	-	-	-	1,842	-	8,927		
3236641	NATL OCEANIC/ATMOS ADMIN	GORDON, A.	51,006	14,460	-	-	11,296	-	-	-	4,744	-	16,040		
340122	NATL OCEANIC/ATMOS ADMIN	GORDON, A.	1,510	1,874	-	-	65,466	-	-	-	27,496	-	92,962		
542541	VA DEPARTMENT OF HEALTH	GORDON, A.	2,754	-	-	-	3,384	-	-	-	880	-	4,264		
593368	VA DEPARTMENT OF HEALTH	GORDON, A.	(409)	-	-	(0)	(409)	-	-	-	275	-	3,029		
740751	JEFFRESS RESEARCH GRANTS PGM.	HARGRAVE, B.	4,306	4,688	-	-	8,994	-	-	-	-	-	(409)		
322021	NATL SCIENCE FOUNDATION	HYNES, W.	25,969	18,750	4,850	4,595	54,164	-	-	-	18,782	-	72,946		
531712	VA GRAD MARINE SCIENCE CONSORT	HYNES, W.	1,818	-	-	-	1,818	-	-	-	764	-	2,582		
390621	NATL SCIENCE FOUNDATION	JONES, C.	31,282	2,398	16,261	-	49,941	-	-	-	14,482	-	64,423		
394301	NATL SCIENCE FOUNDATION	JONES, C.	21,541	64,798	-	40,381	126,720	-	-	-	36,262	-	162,982		
512961	STATE UNIVERSITY OF NEW JERSEY	JONES, C.	11,881	11,279	-	(3)	23,157	-	-	-	5,790	-	28,947		
521841	VA MARINE RESOURCES COMM	JONES, C.	46,376	7,194	-	-	53,570	-	-	-	13,393	-	66,963		

**SCIENCES**

Biological Sciences

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
522002	VA DEPT ENVIRON QUALITY	MARSHALL, H.	502	-	-	-	5,208	5,710	1,428	-	7,138	-	-
522006	* VA DEPT ENVIRON QUALITY	MARSHALL, H.	38,925	1,346	-	-	540	40,271	10,068	-	50,339	675	-
531982	VA DEPT ENVIRON QUALITY	MARSHALL, H.	1,316	-	-	-	-	1,316	329	-	1,645	-	-
541423	VA DEPT ENVIRON QUALITY	MARSHALL, H.	30,404	190	-	-	-	30,594	7,649	-	38,243	-	-
593364	VA DEPARTMENT OF HEALTH	MARSHALL, H.	41,777	2,288	-	-	-	44,065	-	-	44,065	-	-
593365	VA DEPARTMENT OF HEALTH	MARSHALL, H.	85,700	26,810	7,477	-	-	119,987	11,251	-	131,238	-	-
740751	* JEFFRESS RESEARCH GRANTS PGM	OSGOOD, C.	4,306	4,687	-	-	-	8,993	-	-	8,993	-	-
320452	NATL SCIENCE FOUNDATION	RATZLAFF, R.	17,983	5,428	-	-	-	23,411	6,087	-	29,498	-	-
514381	VA INST OF MARINE SCIENCE	RATZLAFF, R.	5,455	4,143	-	-	-	9,598	2,399	-	11,997	-	-
393401	NATL SCIENCE FOUNDATION	RESETARITS, W.	12,101	287	-	-	-	12,388	3,221	-	15,609	-	-
390791	NATL SCIENCE FOUNDATION	SAVITZKY, A.	(213)	(3)	-	-	-	(216)	(93)	-	(309)	-	-
390792	NATL SCIENCE FOUNDATION	SAVITZKY, A.	213	3	-	-	-	216	93	-	309	-	-
515681	VA DEPT GAME/INLAND FISH	SAVITZKY, A.	-	-	-	-	-	-	-	-	-	-	-
713201	JEFFRESS RESEARCH GRANTS PGM	SLATE, J.	461	619	-	-	-	1,080	-	-	1,080	-	-
322021	* NATL SCIENCE FOUNDATION	SONENSHINE, D.	11,129	8,036	2,078	-	1,970	23,213	8,049	-	31,262	-	-
532031	NORTH CAROLINA STATE UNIV	SONENSHINE, D.	15,582	6,161	-	-	2,941	24,684	9,132	-	33,816	-	-
722611	IPM TECHNOLOGIES	SONENSHINE, D.	37,728	15,301	3,860	-	6,132	63,021	22,272	-	85,293	-	-
733501	IPM TECHNOLOGIES	SONENSHINE, D.	545	116	4,520	-	-	5,181	278	-	5,459	-	-
556389	EASTERN VIRGINIA MED. SCHOOL	SWANSON, J.	1,410	10,193	550	-	634	12,787	1,160	-	13,947	-	-
532671	HARVARD UNIVERSITY	WALLER, D.	-	-	-	-	(11)	(11)	-	-	(11)	-	-
			958,099	291,598	84,670	-	119,477	1,453,844	315,525	-	1,769,369	-	21.70%

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS					
514776	Chemistry and Biochemistry														
524767	MICRON OPTICAL SYS INC	COOPER, J.	-	-	-	554	233	-	-	787	-	-	6,602	TAC	
524768	CENTER INNOVATIVE TECHNOLOGY	COOPER, J.	6,602	-	-	6,602	-	-	-	6,602	-	-	8,550	TAC	
300021	MICRON OPTICAL SYS INC	COOPER, J.	6,021	-	-	6,021	-	-	-	2,529	-	-	17,928	TAC	
312831	NATL SCIENCE FOUNDATION	COOPER, J.	7,485	2,564	3,659	13,708	4,220	-	-	21,663	-	-	21,663		
511301	NATL SCIENCE FOUNDATION	DIAS, R.	-	3,558	21,663	3,558	925	-	-	4,483	-	-	4,483		
224432	TEXAS A & M UNIVERSITY	DIAS, R.	-	3,558	21,663	3,558	925	-	-	4,483	-	-	4,483		
320481	OFFICE OF NAVAL RESEARCH	DONAT, J.	13,446	-	-	13,446	5,647	-	-	19,093	-	-	19,093		
522001	NATL SCIENCE FOUNDATION	DONAT, J.	33,558	3,033	-	36,591	15,368	-	-	51,959	-	-	51,959		
531981	VA DEPT ENVIRON QUALITY	DONAT, J.	(3,837)	(830)	-	1,324	(836)	-	-	(4,179)	-	-	675		
531986	VA DEPT ENVIRON QUALITY	DONAT, J.	198,619	97,837	-	540	70,506	-	-	366,962	-	-	366,962		
541422	VA DEPT ENVIRON QUALITY	DONAT, J.	1,316	-	-	1,316	329	-	-	1,645	-	-	1,645		
301081	VA DEPT ENVIRON QUALITY	DONAT, J.	1,842	36,615	-	38,457	9,614	-	-	48,071	-	-	48,071		
503974	NATL SCIENCE FOUNDATION	HANNIGAN, R.	-	(2,507)	-	(2,507)	-	-	-	(2,507)	-	-	(2,507)		
503975	VA GRAD MARINE SCIENCE CONSORT	HANNIGAN, R.	6,623	6,870	-	(254)	(1,888)	-	-	(2,142)	-	-	(2,142)		
312572	VA GRAD MARINE SCIENCE CONSORT	HANNIGAN, R.	2,804	1,484	-	13,493	4,638	-	-	18,131	-	-	18,131		
324521	NATL OCEANIC/ATMOS ADMIN	MINOR, E.	49,633	19,281	800	4,288	1,115	-	-	5,403	-	-	5,403		
531432	NATL SCIENCE FOUNDATION	MINOR, E.	-	3,200	-	69,714	28,944	-	-	98,658	-	-	98,658		
711152	MD DEPT. OF NATURAL RESOURCES	MINOR, E.	2,112	1,198	-	3,200	-	-	-	3,200	-	-	3,200		
312891	AMERICAN CHEMICAL SOCIETY	MOPPER, K.	50,900	13,531	1,325	65,756	27,061	-	-	92,817	-	-	92,817		
313261	NATL SCIENCE FOUNDATION	MOPPER, K.	2,896	3,040	12,568	18,504	2,493	-	-	20,997	-	-	20,997		
313271	NATL SCIENCE FOUNDATION	MOPPER, K.	-	2,633	-	2,633	-	-	-	2,633	-	-	2,633		
324522	NATL SCIENCE FOUNDATION	MOPPER, K.	8,190	1,639	-	9,829	4,128	-	-	13,957	-	-	13,957		
332941	NATL SCIENCE FOUNDATION	MOPPER, K.	20,709	766	-	21,475	9,019	-	-	30,494	-	-	30,494		
711231	AMERICAN CHEMICAL SOCIETY	RADKIEWICZ, J.	5,000	314	-	5,314	-	-	-	5,314	-	-	5,314		
730691	JEFFRESS RESEARCH GRANTS PGM.	RADKIEWICZ, J.	8,741	613	-	9,354	-	-	-	9,354	-	-	9,354		
715610	CAROLLO ENGINEERS	WILLIAMS, R.	15,154	314	-	15,468	-	-	-	15,468	-	-	15,468		
220131	AIR FORCE OFFICE SCI RES	XU, N.	65,864	26,772	873	244,939	38,907	-	-	377,355	-	-	377,355		
394061	US PUBLIC HEALTH SERVICE	XU, N.	3,548	1,027	-	4,575	1,921	-	-	6,496	-	-	6,496		
540841	UNIV TEXAS HEALTH SCIENCE CTR	XU, N.	7,098	164	-	7,262	-	-	-	7,262	-	-	7,262		
			514,324	223,116	40,888	1,030,431	232,505	-	-	1,262,936	-	-	1,262,936	22.56%	

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PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER		
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS					
<b>Mathematics and Statistics</b>															
320841	* NATL SCIENCE FOUNDATION	ADAM, J.	11,086	1,385	-	18,642	31,113	998	-	32,111	-	-	-	-	-
320842	* NATL SCIENCE FOUNDATION	ADAM, J.	3,236	50	-	27,090	30,376	263	-	30,639	-	-	-	-	-
320843	* NATL SCIENCE FOUNDATION	ADAM, J.	3,316	8	-	4,520	7,844	265	-	8,109	-	-	-	-	-
210651	* ARMY RESEARCH OFFICE	CHAGANTY, R.	27,508	4,829	-	-	32,337	13,582	-	45,919	-	-	-	-	-
131831	* NASA-LANGLEY RESEARCH CENTER	DEANGELES, G.	46,811	1,044	-	848	48,703	12,442	-	61,145	-	-	-	-	-
110931	* NASA-LANGLEY RESEARCH CENTER	HU, F.	8,563	2,378	-	-	10,941	2,845	-	13,786	-	-	-	-	-
140231	* NASA-LANGLEY RESEARCH CENTER	HU, F.	22,272	3,582	-	-	25,854	6,722	-	32,576	-	-	-	-	-
113051	* NASA-LANGLEY RESEARCH CENTER	KANEKO, H.	2,310	-	-	(630)	1,680	437	-	2,117	-	-	-	-	-
112131	* NASA-LANGLEY RESEARCH CENTER	KEYES, D.	-	193	-	-	193	50	-	243	-	-	-	-	-
391731	* NATL SCIENCE FOUNDATION	LI, W.	-	3,549	-	(183)	3,366	1,414	-	4,780	-	-	-	-	-
131831	* NASA-LANGLEY RESEARCH CENTER	NEALY, J.	46,811	1,044	-	848	48,703	12,442	-	61,145	-	-	-	-	-
322661	* NATL SCIENCE FOUNDATION	NOREN, R.	1,005	97	-	13,907	15,009	-	-	15,009	-	-	-	-	-
321281	* NATL SCIENCE FOUNDATION	SCHOBBER, C.	5,439	7,184	-	-	12,623	5,301	-	17,924	-	-	-	-	-
131701	* NASA-LANGLEY RESEARCH CENTER	TWEED, J.	51,197	1,726	-	-	52,923	13,760	-	66,683	-	-	-	-	-
			229,554	27,069	-	65,042	321,665	70,521	-	392,186	-	-	-	-	21.92%
<b>Mathematics and Statistics - SSRP</b>															
112051	* NASA-LANGLEY RESEARCH CENTER	DUNN, M.	-	-	-	(29)	(29)	-	-	(29)	-	-	-	-	SSRP
734081	* NATL INSTITUTE OF AEROSPACE	DUNN, M.	101,062	-	-	(5)	101,057	26,276	-	127,333	-	-	-	-	SSRP
104241	* NASA-LANGLEY RESEARCH CENTER	HEINBOCKEL, J.	39,012	285	-	-	39,012	10,143	-	49,155	-	-	-	-	SSRP
131831	* NASA-LANGLEY RESEARCH CENTER	HEINBOCKEL, J.	12,766	285	-	231	13,282	3,394	-	16,676	-	-	-	-	SSRP
			152,840	285	-	197	153,322	39,813	-	193,135	-	-	-	-	25.97%
<b>Center for Computational Science</b>															
313931	* NATL SCIENCE FOUNDATION	KEYES, D.	13,782	-	-	-	13,782	5,788	-	19,570	-	-	-	-	CCS
710741	* LAWRENCE LIVERMORE NATL LAB	KEYES, D.	3,576	-	-	-	3,576	930	-	4,506	-	-	-	-	CCS
313401	* US DEPT OF ENERGY	RULE, J.	47,600	2,258	-	-	49,858	21,578	-	71,436	-	-	-	-	CCS
			64,958	2,258	-	-	67,216	28,296	-	95,512	-	-	-	-	42.10%

\* Represents split reporting of project activity between PI and Co-PI's

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					EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
324351	Ocean, Earth and Atmospheric Sciences	ASHFORD, J.	22,766	111	-	-	-	22,877	9,608	-	32,485		
324541	NATL SCIENCE FOUNDATION	ASHFORD, J.	26,452	2,249	-	-	-	28,701	12,054	-	40,755		
224431	OFFICE OF NAVAL RESEARCH	BURDIGE, D.	22,545	2,611	-	-	-	25,156	10,565	-	35,721		
263681	OFFICE OF NAVAL RESEARCH	BURDIGE, D.	15,931	1,749	-	-	-	17,680	7,426	-	25,106		
320381	NATL SCIENCE FOUNDATION	BURDIGE, D.	21,755	9,304	-	-	-	31,059	13,045	-	44,104		
511302	TEXAS A & M UNIVERSITY	BURDIGE, D.	2,728	681	-	-	-	3,409	-	-	3,409		
513641	VA WATER RESOURCE RES CTR	BURDIGE, D.	3,938	3,425	-	-	-	7,363	-	-	7,363		
530211	UNIV TX, ARLINGTON	BURDIGE, D.	17,617	-	-	-	-	17,617	7,399	-	25,016		
304191	US DEPT OF THE INTERIOR	CUTTER, G.	35,360	28,635	-	-	-	64,195	26,962	-	91,157		
312791	NATL SCIENCE FOUNDATION	CUTTER, G.	32,360	19,731	-	-	-	52,091	21,879	-	73,970		
320471	NATL SCIENCE FOUNDATION	CUTTER, G.	27,818	34,230	-	-	-	62,048	26,060	-	88,108		
331111	NATL SCIENCE FOUNDATION	CUTTER, G.	11,019	-	-	-	-	11,019	4,628	-	15,647		
340481	* HAMPTON UNIVERSITY	CUTTER, G.	186	17	-	-	-	203	85	-	288		
745251	NATL SCIENCE FOUNDATION	DARBY, D.	2,277	2,277	-	-	-	4,554	931	-	5,485		
320361	NATL SCIENCE FOUNDATION	DARBY, D.	20,454	3,847	-	-	-	24,301	10,206	-	34,507		
340481	* NATL SCIENCE FOUNDATION	DARBY, D.	18,432	1,659	-	-	-	20,091	8,439	-	28,530		
503976	* VA GRAD MARINE SCIENCE CONSORT	DOBBS, F.	2,392	701	-	-	-	3,093	1,299	-	4,392		
510891	UNIV MICH DEPT NAT RESOURCES	DOBBS, F.	29,458	11,332	-	-	-	40,790	4,841	-	45,631		
520231	* VA GRAD MARINE SCIENCE CONSORT	DOBBS, F.	14,661	7,428	-	-	-	22,089	9,278	-	31,367		
531711	VA GRAD MARINE SCIENCE CONSORT	DOBBS, F.	22,726	3,161	-	-	-	25,887	2,363	-	28,250		
541171	* UNIV MICH DEPT NAT RESOURCES	DOBBS, F.	5,191	28	-	-	-	5,219	647	-	5,866		
320341	* NATL SCIENCE FOUNDATION	GARGETT, A.	42,413	1,280	-	-	-	43,693	18,351	-	62,044		
120911	* NASA-LANGLEY RESEARCH CENTER	GROSCH, C.	10,634	-	-	-	-	10,634	2,765	-	13,399		
142591	* NASA-LANGLEY RESEARCH CENTER	GROSCH, C.	6,836	-	-	-	-	6,836	1,778	-	8,614		
303430	* NATL SCIENCE FOUNDATION	GROSCH, C.	2,661	746	-	-	-	3,407	1,431	-	4,838		
320341	* NATL SCIENCE FOUNDATION	GROSCH, C.	14,138	427	-	-	-	14,565	6,117	-	20,682		
513321	* UNIV OF ALASKA FAIRBANKS	GROSCH, C.	3,780	494	-	-	-	4,274	1,795	-	6,069		
330721	* NATL OCEANIC/ATMOS ADMIN	HOFMANN, E.	7,004	-	-	-	-	7,004	2,942	-	9,946		
324561	NATL MARINE FISHERIES SERV	JONES, C.	13,989	2,063	-	-	-	16,052	(4,616)	-	(2,608)		
330751	* NATL SCIENCE FOUNDATION	JONES, C.	-	2,050	-	-	-	2,050	3,396	-	33,608		
390622	NATL SCIENCE FOUNDATION	JONES, C.	28,893	5,302	-	-	-	34,195	14,362	-	48,557		
515761	VA GRAD MARINE SCIENCE CONSORT	JONES, C.	-	(118)	-	-	-	(118)	(29)	-	(147)		
532071	VA MARINE RESOURCES COMM	JONES, C.	98,739	13,700	-	-	-	112,439	28,110	-	140,549		
532181	VA MARINE RESOURCES COMM	JONES, C.	11,793	8,170	-	-	-	19,963	2,043	-	21,996		
534691	VA MARINE RESOURCES COMM	JONES, C.	14,138	427	-	-	-	14,565	6,117	-	20,682		
320341	* NATL SCIENCE FOUNDATION	KLINCK, J.	7,004	-	-	-	-	7,004	2,942	-	9,946		
330721	* NATL OCEANIC/ATMOS ADMIN	KLINCK, J.	7,004	427	-	-	-	7,431	6,117	-	13,548		
312241	NATL SCIENCE FOUNDATION	MULHOLLAND, M.	27,731	7,870	-	-	-	35,601	9,256	-	44,857		
312571	NATL OCEANIC/ATMOS ADMIN	MULHOLLAND, M.	16,166	2,958	-	-	-	19,124	4,972	-	24,096		
320472	NATL SCIENCE FOUNDATION	MULHOLLAND, M.	29,198	16,053	-	-	-	45,251	19,005	-	64,256		
523351	VA WATER RESOURCE RES CTR	MULHOLLAND, M.	2,762	(27)	-	-	-	2,735	-	-	2,735		
531431	MD DEPT. OF NATURAL RESOURCES	MULHOLLAND, M.	2,762	2,193	-	-	-	4,955	4,955	-	9,910		
720491	VA ENVIRONMENTAL ENDOWMENT	MULHOLLAND, M.	15,815	2,485	-	-	-	18,300	-	-	18,300		
312572	* NATL OCEANIC/ATMOS ADMIN	MULLHOLLAND, M.	4,387	2,321	-	-	-	6,708	1,744	-	8,452		

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**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
3040101	NATL SCIENCE FOUNDATION	NOFFKE, N.	6,340	800	-	-	-	7,140	2,989	-	10,139		
502331	UNIVERSITY OF VIRGINIA	OERTEL, G.	4,972	76	-	-	-	5,048	1,313	-	6,361		
523881	* GEORGE MASON UNIVERSITY	OERTEL, G.	3,737	2,059	-	-	-	5,796	2,435	-	8,231		
303430	* NATL SCIENCE FOUNDATION	ROYER, T.	22,683	2,963	-	-	-	25,646	10,771	-	36,417		
513321	* UNIV OF ALASKA FAIRBANKS	ROYER, T.	4,619	-	-	-	-	4,619	1,986	-	6,605		
251131	OFFICE OF NAVAL RESEARCH	SWIFT, D.	4,458	3,022	-	-	-	8,283	3,141	-	11,424		
372281	US DEPT OF ENERGY	SWIFT, D.	13,990	2,084	-	803	-	30,214	3,395	-	33,609		
330751	* NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A.	1,887	3,740	-	14,140	-	5,627	1,463	-	28,222		
544641	CENTER INNOVATIVE TECHNOLOGY	VALLE-LEVINSON, A.	10,490	5,098	-	-	-	24,169	4,053	-	7,090		
522081	VA TECH	WHITTEGAR, R.	-	624	8,581	-	-	624	162	-	786		
544051	VA TECH	WHITTEGAR, R.	706	780	-	-	-	1,486	371	-	1,857		
711991	WEANACK LAND LTD	WHITTEGAR, R.	801,404	223,735	8,581	91,756	1,125,476	341,453	-	-	1,466,929	30.34%	
<b>Ocean, Earth and Atmospheric Sciences - SSRP</b>													
304199	US DEPT OF THE INTERIOR	DOBLIN, M.	32,192	2,008	-	-	-	34,200	14,364	-	48,564		SSRP
503976	* VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	4,486	1,315	-	7,997	-	13,798	2,436	-	16,234		SSRP
520231	* VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	2,095	1,061	-	8,057	-	11,213	1,325	-	12,538		SSRP
523931	* YORK COUNTY, VA	DOBLIN, M.	-	29	-	66	-	95	-	-	95		SSRP
532261	UNIVERSITY OF DELAWARE	DOBLIN, M.	5,271	932	-	-	-	6,203	2,605	-	8,808		SSRP
541171	* UNIV MICH DEPT NAT RESOURCES	DOBLIN, M.	5,038	27	-	-	-	5,065	627	-	5,692		SSRP
214871	OFFICE OF NAVAL RESEARCH	DRAKE, L.	6,816	491	-	-	-	7,307	3,069	-	10,376		SSRP
503976	* VA GRAD MARINE SCIENCE CONSORT	DRAKE, L.	23,025	6,749	-	41,051	-	70,825	12,506	-	83,331		SSRP
541171	* UNIV MICH DEPT NAT RESOURCES	DRAKE, L.	4,189	2,122	-	16,114	-	22,425	2,651	-	25,076		SSRP
520231	* VA GRAD MARINE SCIENCE CONSORT	DRAKE, L.	-	28	-	66	-	94	-	-	94		SSRP
523931	* YORK COUNTY, VA	DRAKE, L.	88,150	14,789	-	73,351	176,290	40,210	-	-	216,500	22.81%	

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**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
Center for Coastal Physical Oceanography													
314522	NATL SCIENCE FOUNDATION	ATKINSON, L.	14,052	13,405	-	261	27,718	7,139	-	34,857	-	-	SSRP
314523	NATL SCIENCE FOUNDATION	ATKINSON, L.	162,219	24,596	-	3,978	186,815	48,572	-	235,387	-	-	SSRP
370865	NATL OCEANIC/ATMOS ADMIN	ATKINSON, L.	-	-	-	-	-	-	-	-	-	-	SSRP
320431	NATL SCIENCE FOUNDATION	AUSTIN, J.	13,011	1,808	-	-	14,819	6,224	-	21,043	-	-	SSRP
341141	NATL SCIENCE FOUNDATION	AUSTIN, J.	1,946	339	-	-	2,285	960	-	3,245	-	-	SSRP
541561	SKIDAWAY INST. OF OCEANOGRAPHY	AUSTIN, J.	-	1,546	3,260	-	4,806	649	-	5,455	-	-	SSRP
314571	NATL SCIENCE FOUNDATION	GARGETT, A.	27,883	3,289	-	2,529	33,701	13,092	-	46,793	-	-	SSRP
322571	NATL SCIENCE FOUNDATION	GARGETT, A.	11,487	3,402	2,609	-	17,498	6,253	-	23,751	-	-	SSRP
520651	STATE UNIVERSITY OF NEW JERSEY	GARGETT, A.	52,521	6,531	-	-	59,052	24,802	-	83,854	-	-	SSRP
111971	NASA-GODDARD SPACEFLIGHT CNTR	HOFMANN, E.	23,567	3,228	-	-	26,795	11,254	-	38,049	-	-	SSRP
300551	NATL SCIENCE FOUNDATION	HOFMANN, E.	23,821	5,573	-	-	29,394	12,345	-	41,739	-	-	SSRP
304391	NATL SCIENCE FOUNDATION	HOFMANN, E.	33,539	1,251	-	-	34,790	14,611	-	49,401	-	-	SSRP
304771	NATL SCIENCE FOUNDATION	HOFMANN, E.	50,047	5,620	-	-	55,667	23,380	-	79,047	-	-	SSRP
394081	NATL SCIENCE FOUNDATION	HOFMANN, E.	2,967	682	-	-	2,967	1,246	-	4,213	-	-	SSRP
514061	UNIV OF RHODE ISLAND	HOFMANN, E.	58,953	1,649	-	-	59,635	25,047	-	84,682	-	-	SSRP
703471	JOHNS-HOPKINS UNIV	HOFMANN, E.	61,229	1,766	-	-	62,878	26,409	-	89,287	-	-	SSRP
213241	OFFICE OF NAVAL RESEARCH	KLINCK, J.	12,716	1,174	-	-	13,890	5,834	-	19,724	-	-	SSRP
334151	NATL SCIENCE FOUNDATION	KLINCK, J.	2,966	1,871	-	-	2,966	1,246	-	4,212	-	-	SSRP
300571	NATL SCIENCE FOUNDATION	ROYER, T.	16,415	258	-	-	16,673	7,003	-	23,676	-	-	SSRP
322301	NATL SCIENCE FOUNDATION	ROYER, T.	20,745	1,214	1,000	-	22,959	9,223	-	32,182	-	-	SSRP
324021	NATL SCIENCE FOUNDATION	SAVIDGE, D.	2,126	-	-	-	2,126	893	-	3,019	-	-	SSRP
330051	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A.	-	2,029	-	-	2,029	-	-	2,029	-	-	SSRP
300051	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A.	31,241	25,374	2,890	3,005	62,510	24,830	-	87,340	-	-	SSRP
300052	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A.	-	60	-	399	399	-	-	399	-	-	SSRP
702631	CONSORTIUM FOR OCEAN RES/EDU	WEST-VALLE, A.	-	1,462	-	350	1,462	60	-	1,522	-	-	SSRP
741621	CONSORTIUM FOR OCEAN RES/EDU	WEST-VALLE, A.	1,462	1,104	-	-	2,566	2,916	-	5,482	-	-	SSRP
			624,913	103,869	11,788	10,522	751,092	271,012	-	1,022,104	-	-	36.08%
Center for Coastal Physical Oceanography - SSRP													
110221	NASA-GODDARD SPACEFLIGHT CNTR	COTA, G.	82,354	3,626	-	-	85,980	36,111	-	122,091	-	-	SSRP
133551	NASA-GODDARD SPACEFLIGHT CNTR	COTA, G.	-	1,871	73,750	-	75,621	487	-	76,108	-	-	SSRP
314441	NATL SCIENCE FOUNDATION	COTA, G.	102,412	24,041	-	-	126,453	32,878	-	159,331	-	-	SSRP
383761	NATL SCIENCE FOUNDATION	COTA, G.	228	5,647	-	358	6,233	2,680	-	8,913	-	-	SSRP
730441	SCIENCE APPLICATIONS INTL CORP	COTA, G.	3,955	-	-	7	3,962	1,030	-	4,992	-	-	SSRP
734021	JAPAN AEROSPACE EXPLORE AGENCY	COTA, G.	6,349	-	-	(0)	6,349	1,651	-	8,000	-	-	SSRP
771865	NAT SPACE DEV AGENCY OF JAPAN	COTA, G.	3,427	-	-	-	3,427	891	-	4,318	-	-	SSRP
310801	NATL SCIENCE FOUNDATION	FRIEDRICHS, M.	28,226	149	-	-	28,375	11,917	-	40,292	-	-	SSRP
311671	JER PROPULSION LABORATORY	FRIEDRICHS, M.	13,512	925	-	-	14,437	6,063	-	20,500	-	-	SSRP
123451	NASA-GODDARD SPACEFLIGHT CNTR	SMITH, E.	-	218	-	1,162	1,162	488	-	1,650	-	-	SSRP
724591	CONSORTIUM FOR OCEAN RES/EDU	SMITH, E.	573	218	-	40	831	-	-	831	-	-	SSRP
741621	CONSORTIUM FOR OCEAN RES/EDU	SMITH, E.	1,462	1,105	-	350	2,917	-	-	2,917	-	-	SSRP
			242,498	37,582	73,750	1,917	355,747	94,196	-	449,943	-	-	26.48%

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COST				PROJECT IDC AND FEES				TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER	
				SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES						
Psychology															
105252	NASA-LANGLEY RESEARCH CENTER	BALDWIN, C.	-	6,301	-	-	18,000	24,301	-	-	-	24,301	-	-	-
340011	US PUBLIC HEALTH SERVICE	BALDWIN, C.	2,657	-	-	-	-	2,657	-	-	-	1,116	-	-	-
531781	CITY OF PORTSMOUTH	BALDWIN, C.	176	-	-	-	121	297	-	-	-	29	-	-	TAC
524238	NEWPORT NEWS SHIPBUILDING & DD	BLISS, J.	-	-	-	-	1	1	-	-	-	1	-	-	TAC
732201	NEWPORT NEWS SHIPBUILDING & DD	BLISS, J.	-	-	-	-	3,058	3,058	-	-	-	423	-	-	-
102452	NASA-LANGLEY RESEARCH CENTER	BLISS, J.	28,052	3,224	-	-	9,532	12,756	-	-	-	12,756	-	-	-
130971	NASA-LANGLEY RESEARCH CENTER	BLISS, J.	20,631	2,005	-	-	9,532	30,057	-	-	-	12,624	-	-	-
530241	UNIV NEW HAMPSHIRE, NITC	BLISS, J.	20,631	2,145	-	-	1,419	24,195	-	-	-	9,566	-	-	-
103761	NASA-LANGLEY RESEARCH CENTER	DAVIS, D.	56,343	6,129	-	-	-	62,472	-	-	-	16,243	-	-	-
324121	NATL SCIENCE FOUNDATION	DAVIS, D.	16,602	1,236	-	-	1,755	17,838	-	-	-	6,600	-	-	-
723141	WAYNE F PLACEK SMALL GRNT	DERLEGA, V.	3,217	-	-	-	1,755	4,972	-	-	-	4,972	-	-	-
732201	NEWPORT NEWS SHIPBUILDING & DD	DICKINSON, T.	-	-	-	-	3,058	3,058	-	-	-	422	-	-	-
742091	NORTHROP GRUMMAN	DICKINSON, T.	4,738	473	-	-	2,194	7,405	-	-	-	1,355	-	-	-
121341	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	3	1,505	-	-	756	2,264	-	-	-	634	-	-	-
131981	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	5,362	2,301	-	-	756	7,663	-	-	-	2,294	-	-	-
141181	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	8,815	1,890	-	-	653	11,358	-	-	-	2,783	-	-	-
232631	AIR FORCE OFFICE SCI RES	GASKINS, R.	30,920	8,590	-	-	3,386	42,896	-	-	-	16,594	-	-	-
505171	STATE UNIVERSITY OF NY	KELLEY, M.	22,191	1,985	-	-	-	24,176	-	-	-	10,154	-	-	-
523951	STATE UNIVERSITY OF NY	KELLEY, M.	33,493	-	-	-	(0)	33,493	-	-	-	14,067	-	-	-
515692	HAMPTON NEWPORT NEWS COMMUNIT	LEWIS, R.	-	-	-	-	-	-	-	-	-	-	-	-	-
540131	VA DEPARTMENT OF HEALTH	LEWIS, R.	6,360	-	-	-	-	6,360	-	-	-	-	-	-	-
723141	WAYNE F PLACEK SMALL GRNT	LEWIS, R.	9,650	-	-	-	5,265	14,915	-	-	-	-	-	-	-
324121	NATL SCIENCE FOUNDATION	MAJOR, D.	56,644	4,219	-	-	-	60,863	-	-	-	22,519	-	-	-
521211	EASTERN VIRGINIA MED. SCHOOL	MAJOR, D.	21,004	-	-	-	-	21,004	-	-	-	5,461	-	-	-
121341	NASA-LANGLEY RESEARCH CENTER	MIKULKA	3	1,505	-	-	756	2,264	-	-	-	634	-	-	-
531781	CITY OF PORTSMOUTH	MORROW, J.	176	-	-	-	121	297	-	-	-	30	-	-	-
544561	VA DMV	PORTER, B.	575	300	-	-	-	875	-	-	-	88	-	-	-
523711	VA DMV	PORTER, B.	14,221	24,374	-	-	-	40,833	-	-	-	3,860	-	-	-
533391	GEORGE MASON UNIVERISTY	PORTER, B.	6,645	(62)	-	-	-	6,583	-	-	-	658	-	-	-
534401	VA DMV	PORTER, B.	10,448	434	-	-	4,700	15,582	-	-	-	1,558	-	-	-
534951	VA DMV	PORTER, B.	14,794	12,446	-	-	4,700	29,714	-	-	-	2,971	-	-	-
320841	NATL SCIENCE FOUNDATION	PORTER, B.	1,581	197	-	-	2,658	4,436	-	-	-	142	-	-	-
320842	NATL SCIENCE FOUNDATION	SANCHES-HUCLES, J.	462	6	-	-	3,870	4,338	-	-	-	38	-	-	-
320843	NATL SCIENCE FOUNDATION	SANCHES-HUCLES, J.	474	1	-	-	645	1,120	-	-	-	38	-	-	-
324121	NATL SCIENCE FOUNDATION	SANCHES-HUCLES, J.	12,696	945	-	-	13,684	13,641	-	-	-	5,047	-	-	-
111731	NASA-AMES RESEARCH LABORATORY	SCERBO, M.	46,560	4,553	-	-	778	64,797	-	-	-	21,467	-	-	-
121341	NASA-LANGLEY RESEARCH CENTER	SCERBO, M.	4	1,551	-	-	19,920	23,333	-	-	-	652	-	-	-
132361	NASA-LANGLEY RESEARCH CENTER	SCERBO, M.	-	4,067	-	-	745	8,987	-	-	-	3,775	-	-	-
244661	OFFICE OF NAVAL RESEARCH	SCERBO, M.	8,975	12	-	-	26,060	26,060	-	-	-	2,230	-	-	-
534271	EASTERN VIRGINIA MED. SCHOOL	SCERBO, M.	23,258	2,057	-	-	9,299	47,310	-	-	-	3,801	-	-	-
540171	EASTERN VIRGINIA MED. SCHOOL	SCERBO, M.	34,442	3,569	-	-	99,549	711,216	-	-	-	169,873	-	-	-
			502,172	97,958	-	-	881,089	881,089	-	-	-	23,685	-	-	-



**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
350312	* US DEPT OF ENERGY	DODGE, G.	48,204	4,625	2,298	-	55,127	22,188	-	77,315	-	34.01%	CENTER
311101	NATL SCIENCE FOUNDATION	HAVEY, M.	-	626	-	-	626	263	-	889	-		
320161	NORTH ATLANTIC TREATY ORGANIS	HAVEY, M.	-	1,969	-	-	1,969	-	-	1,969	-		
324421	NATL SCIENCE FOUNDATION	HAVEY, M.	-	6,783	-	-	6,783	-	-	6,783	-		
341151	NATL SCIENCE FOUNDATION	HAVEY, M.	15,319	6,392	9,867	-	31,578	9,119	-	40,697	-		
350312	* US DEPT OF ENERGY	HYDE-WRIGHT, C.	48,495	4,653	2,312	-	55,460	22,322	-	77,782	-		
350312	* US DEPT OF ENERGY	KLEIN, A.	48,495	4,653	2,312	-	55,460	22,322	-	77,782	-		
350312	* US DEPT OF ENERGY	KUHN, S.	48,203	4,626	2,298	-	55,127	22,189	-	77,316	-		
742791	FORSCHUNGSZENTRUM KARLSRUHE	MYNENI, G.	-	20	-	-	20	5	-	25	-		
124380	* NASA-LANGLEY RESEARCH CENTER	POFOVIC, T.	-	42	-	1,000	1,042	271	-	1,313	-		
370661	US DEPT OF ENERGY	RADYUSHKIN, A.	24,870	2,192	19,462	-	46,524	11,366	-	57,890	-		
234251	OFFICE OF NAVAL RESEARCH	SUKENIK, C.	-	7,018	20,085	-	27,103	2,948	-	30,051	-		
323541	NATL SCIENCE FOUNDATION	SUKENIK, C.	-	4,501	-	-	4,501	-	-	4,501	-		
330851	NATL SCIENCE FOUNDATION	SUKENIK, C.	35,400	19,193	701	-	55,294	22,929	-	78,223	-		
350312	* US DEPT OF ENERGY	ULMER, P.	48,495	4,653	2,312	-	55,460	22,322	-	77,782	-		
124380	* NASA-LANGLEY RESEARCH CENTER	VUSKOVIC, L.	-	42	-	1,001	1,043	272	-	1,315	-		
133931	NASA-LANGLEY RESEARCH CENTER	VUSKOVIC, L.	51,665	13,444	-	124	65,233	16,960	-	82,193	-		
133951	NASA-LANGLEY RESEARCH CENTER	VUSKOVIC, L.	22,011	1,742	-	-	23,753	6,176	-	29,929	-		
145731	NASA-LANGLEY RESEARCH CENTER	VUSKOVIC, L.	3,011	3,540	-	-	6,551	1,703	-	8,254	-		
703451	ACCURATE AUTOMATION CORP	VUSKOVIC, L.	-	-	-	563	563	1	-	564	-		
350312	* US DEPT OF ENERGY	WEINSTEIN, L.	48,495	4,653	2,312	-	55,460	22,322	-	77,782	-		
			442,663	95,367	63,959	2,688	604,677	205,678	-	810,355	-		

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	PROJECT DIRECT COST			PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER	
					EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS			
Computer Sciences													
732341	* LOS ALAMOS NATL LAB	BOLLEN, J.	30,043	7,259	-	-	37,302	3,730	-	41,032	-	-	41,032
741541	* RAYTHEON AIRCRAFT COMPANY	BOLLEN, J.	3,697	-	-	-	3,697	961	-	4,658	-	-	4,658
742551	* INFO SYS SUPPORT ISS	BOLLEN, J.	4,571	-	-	-	4,571	-	-	4,571	-	-	4,571
120911	* NASA-LANGLEY RESEARCH CENTER	GROSCH, C.	10,634	-	-	-	10,634	2,765	-	13,399	-	-	13,399
142591	* NASA-LANGLEY RESEARCH CENTER	GROSCH, C.	6,835	-	-	-	6,835	1,777	-	8,612	-	-	8,612
303430	* NATL SCIENCE FOUNDATION	GROSCH, C.	2,661	746	-	-	3,407	1,431	-	4,838	-	-	4,838
513321	* UNIV OF ALASKA FAIRBANKS	GROSCH, C.	3,780	494	-	-	4,274	1,795	-	6,069	-	-	6,069
715591	* FACE CONSTRUCTION TECHNOLOGIES	GUPTA, A.	3,556	-	-	-	3,556	8,967	-	12,523	-	-	12,523
530161	* UNIV OF MEMPHIS	LEVINSTEIN, I.	50,423	6,601	-	-	57,024	23,950	-	80,974	-	-	80,974
190111	* NASA-LANGLEY RESEARCH CENTER	MALY, K.	51,085	4,607	14,336	-	70,028	1,071	-	71,099	-	-	71,099
241951	* DEFENSE TECH INFORMATION CTR	MALY, K.	3,820	300	-	-	4,120	1,071	-	5,191	-	-	5,191
313991	* NATL SCIENCE FOUNDATION	MALY, K.	118,725	29,743	14,026	-	162,494	62,356	-	224,850	-	-	224,850
321331	* NATL SCIENCE FOUNDATION	MALY, K.	54,874	9,645	-	-	64,519	27,098	-	91,617	-	-	91,617
734791	* ALLIANCE FOR INNOVATION IN SCI	MALY, K.	2,045	-	-	-	2,045	1,033	-	3,078	-	-	3,078
741541	* RAYTHEON AIRCRAFT COMPANY	MALY, K.	5,547	-	-	-	5,547	1,443	-	6,990	-	-	6,990
742861	* ANDREW W. MELLON FOUNDATION	MALY, K.	1,590	-	-	-	1,590	-	-	1,590	-	-	1,590
121521	* NASA-LANGLEY RESEARCH CENTER	MUKKAMALA, R.	29,734	627	-	-	30,361	7,894	-	38,255	-	-	38,255
132951	* NASA-LANGLEY RESEARCH CENTER	MUKKAMALA, R.	10,000	-	-	-	10,000	2,600	-	12,600	-	-	12,600
520371	* JAMES MADISON UNIVERSITY	MUKKAMALA, R.	40,199	2,310	-	-	42,509	-	-	42,509	-	-	42,509
741541	* RAYTHEON AIRCRAFT COMPANY	NELSON, M.	3,698	-	-	-	3,698	961	-	4,659	-	-	4,659
742551	* INFO SYS SUPPORT ISS	NELSON, M.	4,571	-	-	-	4,571	-	-	4,571	-	-	4,571
742862	* ANDREW W. MELLON FOUNDATION	NELSON, M.	2,012	10	-	-	2,022	-	-	2,022	-	-	2,022
524062	* JAMES MADISON UNIVERSITY	OLARIU, S.	22,139	3,100	-	-	25,239	-	-	25,239	-	-	25,239
313401	* US DEPT OF ENERGY	POTHEN, A.	47,599	2,257	-	-	49,856	-	-	49,856	-	-	49,856
381833	* NATL SCIENCE FOUNDATION	POTHEN, A.	64,970	5,496	-	-	70,466	21,577	-	92,043	-	-	92,043
732341	* LOS ALAMOS NATL LAB	POTHEN, A.	3,338	6,855	-	-	10,193	29,596	-	39,789	-	-	39,789
734291	* LAWRENCE LIVERMORE NATL LAB	POTHEN, A.	10,529	807	-	-	11,336	415	-	11,751	-	-	11,751
524062	* JAMES MADISON UNIVERSITY	WADAA, A.	16,605	2,113	-	-	18,718	5,310	-	24,028	-	-	24,028
322661	* NATL SCIENCE FOUNDATION	WILSON, L.	1,005	97	-	-	1,102	-	-	1,102	-	-	1,102
524062	* JAMES MADISON UNIVERSITY	WILSON, L.	16,605	2,326	-	-	18,931	-	-	18,931	-	-	18,931
241951	* DEFENSE TECH INFORMATION CTR	ZUBAIR, M.	3,820	300	-	-	4,120	-	-	4,120	-	-	4,120
333791	* NATL SCIENCE FOUNDATION	ZUBAIR, M.	10,456	9,820	-	-	20,276	1,071	-	21,347	-	-	21,347
734791	* ALLIANCE FOR INNOVATION IN SCI	ZUBAIR, M.	2,045	-	-	-	2,045	8,516	-	10,561	-	-	10,561
741541	* RAYTHEON AIRCRAFT COMPANY	ZUBAIR, M.	5,547	-	-	-	5,547	1,033	-	6,580	-	-	6,580
742861	* ANDREW W. MELLON FOUNDATION	ZUBAIR, M.	1,589	8	-	-	1,597	1,442	-	3,039	-	-	3,039
745041	IBM	ZUBAIR, M.	5,000	-	-	-	5,000	-	-	5,000	-	-	5,000
780051	IBM	ZUBAIR, M.	1,450	-	-	-	1,450	-	-	1,450	-	-	1,450
			655,347	99,305	28,362	-	783,014	262,819	-	1,045,833	-	-	1,045,833
Center for Biotechnology													
712011	LIFENET TRANSPLANT SERVICES	WOLFINBARGER, L.	11,334	409	-	-	11,743	260	-	12,003	-	-	12,003
730381	LIFENET TRANSPLANT SERVICES	WOLFINBARGER, L.	11,334	409	-	-	11,743	260	-	12,003	-	-	12,003
<b>TOTAL SCIENCES</b>			<b>\$ 5,288,256</b>	<b>\$ 1,217,340</b>	<b>\$ 323,535</b>	<b>\$ -</b>	<b>\$ 6,829,131</b>	<b>\$ 2,072,161</b>	<b>\$ -</b>	<b>\$ 8,901,292</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,901,292</b>
													<b>26.85%</b>

\* Represents split reporting of project activity between PI and Co-PI's.

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER			
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			TOTAL PROJECT COSTS		
Office of Research														
734084	NATL INSTITUTE OF AEROSPACE	CREEDON, J.	-	1,280	-	-	-	1,280	-	537	-	1,817	-	ODURF
200492	US JOINT FORCES COMMAND	SMITH, R.	49	-	-	-	-	49	-	13	-	62	-	ODURF
200496	US JOINT FORCES COMMAND	SMITH, R.	16,211	-	-	-	-	16,211	-	4,215	-	20,426	-	ODURF
200497	US JOINT FORCES COMMAND	SMITH, R.	37,643	598	-	-	-	38,241	-	9,943	-	48,184	-	ODURF
200498	US JOINT FORCES COMMAND	SMITH, R.	9,687	-	-	-	-	9,687	-	-	-	9,687	-	ODURF
200499	US JOINT FORCES COMMAND	SMITH, R.	48,696	-	-	-	-	48,696	-	2,500	-	51,196	-	ODURF
200500	US JOINT FORCES COMMAND	SMITH, R.	145,237	2,111	-	-	-	147,348	-	6,000	-	153,348	-	ODURF
200501	US JOINT FORCES COMMAND	SMITH, R.	154,846	-	-	-	-	154,846	-	6,000	-	160,846	-	ODURF
200502	US JOINT FORCES COMMAND	SMITH, R.	146,396	-	-	-	-	146,396	-	6,000	-	152,396	-	ODURF
200503	US JOINT FORCES COMMAND	SMITH, R.	81,570	5,814	-	-	-	87,384	-	5,000	-	92,384	-	ODURF
200504	US JOINT FORCES COMMAND	SMITH, R.	114,143	-	-	-	-	114,143	-	5,500	-	119,643	-	ODURF
200505	US JOINT FORCES COMMAND	SMITH, R.	66,930	657	-	-	-	67,587	-	3,000	-	70,587	-	ODURF
200506	US JOINT FORCES COMMAND	SMITH, R.	76,259	-	-	-	-	76,259	-	4,000	-	80,259	-	ODURF
200507	US JOINT FORCES COMMAND	SMITH, R.	58,023	-	-	-	-	58,023	-	3,250	-	61,273	-	ODURF
201129	COMMANDER OP TEST & EVAL FORCE	SMITH, R.	102,195	-	-	-	-	102,195	-	-	-	102,195	-	ODURF
201130	COMMANDER OP TEST & EVAL FORCE	SMITH, R.	114,574	-	-	-	-	114,574	-	-	-	114,574	-	ODURF
201131	COMMANDER OP TEST & EVAL FORCE	SMITH, R.	122,869	-	-	-	-	122,869	-	-	-	122,869	-	ODURF
			1,295,328	10,460	-	-	-	1,305,788	-	55,958	-	1,361,746	-	4.29%
Office of Distance Learning														
731101	NORTHROP GRUMMAN	CASIELLO, A.	288,567	5,914	32,633	270,925	598,039	83,041	-	83,041	-	681,080	-	13.89%
			288,567	5,914	32,633	270,925	598,039	83,041	-	83,041	-	681,080	-	
International Programs														
511851	VA DEPT OF EDUCATION	JOHNSON, S.	-	8,047	-	-	8,047	-	-	-	-	8,047	-	ODURF
511855	VA DEPT OF EDUCATION	JOHNSON, S.	-	3,200	-	-	3,200	-	-	-	-	3,200	-	ODURF
511856	VA DEPT OF EDUCATION	JOHNSON, S.	-	673	-	-	673	-	-	-	-	673	-	ODURF
			-	11,920	-	-	11,920	-	-	-	-	11,920	-	0.00%
Student Services														
514701	VA DEPT OF ABC	CURRY-WILLIAMS, M.	-	467	-	172	639	-	-	-	-	639	-	ODURF
722891	NATIONAL ASSOC. FOREIGN STUDENT	DODD, J.	(12)	-	-	-	(12)	-	-	-	-	(12)	-	ODURF
531921	VA DEPT OF ABC	FOSS, J.	-	4,307	-	-	4,307	-	-	-	-	4,307	-	ODURF
731441	AMERICAN CANCER SOCIETY	FOSS, J.	-	1,036	-	(50)	986	-	-	-	-	986	-	ODURF
			(12)	5,810	-	122	5,920	-	-	-	-	5,920	-	0.00%
Institutional Services														
320841	* NATL SCIENCE FOUNDATION	SHARPE, M.	3,697	462	-	6,217	10,376	333	-	333	-	10,709	-	ODURF
320842	* NATL SCIENCE FOUNDATION	SHARPE, M.	1,079	17	-	9,080	10,126	87	-	87	-	10,213	-	ODURF
320843	* NATL SCIENCE FOUNDATION	SHARPE, M.	1,105	2	-	1,507	2,614	89	-	89	-	2,703	-	ODURF
			5,881	481	-	16,754	23,116	509	-	509	-	23,625	-	2.20%
			\$ 1,589,764	\$ 34,585	\$ 32,633	\$ 287,801	\$ 1,944,783	\$ 139,508	\$ -	\$ 2,084,291	\$ -	\$ 2,084,291	\$ -	7.17%
			\$ 17,364,331	\$ 3,295,307	\$ 1,274,961	\$ 4,855,828	\$ 26,790,427	\$ 5,437,380	\$ 41,608	\$ 32,269,415	\$ -	\$ 32,269,415	\$ -	20.45%

\* Represents split reporting of project activity between PI and Co-PIs.

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST					PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
<b>OTHER ACTIVITIES: SEPARATE ENTITIES AND AFFILIATED UNITS</b>												
Virginia Space Grant Consortium												
111943	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M.	151,879	16,085	-	33,994	201,958	70,545	-	272,503	-	VSGC
111944	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M.	57,212	13,263	-	106,825	177,300	29,599	-	206,899	-	VSGC
111945	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M.	5,487	1,188	-	70,548	77,223	1,735	-	78,958	-	VSGC
111946	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M.	85,981	9,360	-	95,341	24,789	120,130	-	120,130	-	VSGC
115531	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M.	120,890	115,346	-	753,200	989,436	99,219	-	1,088,655	-	VSGC
115533	GA INSTITUTE OF TECHNOLOGY	SANDY, M.	-	-	-	-	-	(0)	-	-	-	VSGC
115534	USRA (UNIV. SPACE RES.ASSOC.	SANDY, M.	-	-	-	6,000	6,000	-	-	6,000	-	VSGC
115535	NATL SPACE GRANT FOUNDATION	SANDY, M.	-	400	-	7,857	8,257	198	-	8,455	-	VSGC
115536	JER PROPULSION LABORATORY	SANDY, M.	-	(1,750)	-	(18,416)	(20,166)	166	-	(20,000)	-	VSGC
115537	LOS ALAMOS/NATL LAB	SANDY, M.	-	-	-	1,000	1,000	277	-	1,277	-	VSGC
115538	UNIVERSITY OF ALABAMA	SANDY, M.	-	200	-	5,434	5,634	166	-	5,800	-	VSGC
132121	NASA-LANGLEY RESEARCH CENTER	SANDY, M.	10,811	2,751	-	53,321	66,883	12,626	-	79,509	-	VSGC
145301	NASA-OTHER INSTALLATIONS	SANDY, M.	-	1,550	-	32,000	33,550	403	-	33,953	-	VSGC
304151	US DEPT OF EDUCATION	SANDY, M.	-	1,158	-	-	1,158	301	-	1,459	-	VSGC
320842	* NATL SCIENCE FOUNDATION	SANDY, M.	1,079	17	-	9,030	10,126	87	-	10,213	-	VSGC
320843	* NATL SCIENCE FOUNDATION	SANDY, M.	1,105	2	-	1,507	2,614	89	-	2,703	-	VSGC
345321	JER PROPULSION LABORATORY	SANDY, M.	-	400	-	4,000	4,400	104	-	4,504	-	VSGC
523751	SSTATE COUNCIL HIGHER ED IN VA	SANDY, M.	-	-	-	171,401	171,401	-	-	171,401	-	VSGC
530191	GEORGE MASON UNIVERSITY	SANDY, M.	3,704	629	-	87,274	91,607	13,347	-	104,954	-	VSGC
530192	GEORGE MASON UNIVERSITY	SANDY, M.	12,727	182	-	-	12,909	5,422	-	18,331	-	VSGC
540681	COLLEGE OF CHARLESTON, SC	SANDY, M.	645	9,355	-	-	10,000	-	-	10,000	-	VSGC
541441	GEORGE MASON UNIVERSITY	SANDY, M.	13,354	25	-	9,902	23,281	5,619	-	28,900	-	VSGC
542691	VA DEPT OF EDUCATION	SANDY, M.	-	4,000	-	-	4,000	-	-	4,000	-	VSGC
542701	VA DEPT BLIND VISION IMPAIRED	SANDY, M.	-	2,000	-	-	2,000	-	-	2,000	-	VSGC
700321	SPACE EXPLORERS, INC	SANDY, M.	4,826	867	-	20,000	21,400	364	-	21,764	-	VSGC
745331	LOS ALAMOS/NATL LAB	SANDY, M.	-	1,400	-	36,000	38,050	533	-	38,583	-	VSGC
745341	NATL SPACE GRANT FOUNDATION	SANDY, M.	469,700	180,478	-	1,390,877	2,041,055	267,069	-	2,308,124	-	13.08%
National University Teleconference Network												
100084	NAT UNIV TELCONFERENCE NETWORK	SAVAGE, A.	43,812	42,983	-	-	86,795	-	-	86,795	-	NUTN
Association for Consortium Leadership												
100082	PRIVATE DONATIONS	DOTOLO, L.	43,812	42,983	-	-	86,795	-	-	86,795	-	0.00%
Virginia Tidewater Consortium for Higher Education												
320871	US DEPT OF EDUCATION	DOTOLO, L.	-	38,156	-	-	38,156	1,526	-	39,682	-	ACL
320872	US DEPT OF EDUCATION	DOTOLO, L.	93,587	24,904	-	-	118,491	9,479	-	127,970	-	
320873	US DEPT OF EDUCATION	DOTOLO, L.	284,347	50,116	-	-	334,463	26,758	-	361,221	-	
100083	NAT UNIV TELCONFERENCE NETWORK	DOTOLO, L.	-	350	-	-	350	28	-	378	-	VTC
TOTAL												
			377,934	77,013	-	-	454,947	36,265	-	491,212	-	7.97%

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES			EFFECTIVE INDIRECT COST RATE	CENTER	
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			TOTAL PROJECT COSTS
120551	Virginia Commercial Space Flight Authority	REED, B.	193,851	20,569	-	-	214,420	-	-	214,420	-	VCSCFA
124261	NASA-MARSHALL SPACEFLIGHT CNTR	REED, B.	3,229	273	-	-	33,467	1,471	-	34,938	-	VCSCFA
124262	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	10,283	-	-	29,965	10,283	4,319	-	14,602	-	VCSCFA
124265	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	1,619	24	-	-	1,643	690	-	2,333	-	VCSCFA
124266	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	1,218	26	-	-	1,244	522	-	1,766	-	VCSCFA
124267	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	4,028	100	-	-	4,128	1,734	-	5,862	-	VCSCFA
124268	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	157	-	-	-	157	66	-	223	-	VCSCFA
124269	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	9,749	368	-	-	10,117	4,249	-	14,366	-	VCSCFA
140341	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	-	-	-	325,000	325,000	-	-	325,000	-	VCSCFA
140342	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	4,135	-	-	578,851	582,986	1,737	-	584,723	-	VCSCFA
140343	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	19,134	772	-	184,338	204,244	7,391	-	211,635	-	VCSCFA
140344	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	17,625	-	35,150	-	52,775	7,402	-	60,177	-	VCSCFA
140345	NASA-GODDARD SPACEFLIGHT CNTR	REED, B.	66,431	-	-	-	66,431	27,901	-	94,332	-	VCSCFA
571676	VA GENERAL ASSEMBLY	REED, B.	8,454	7,299	-	-	15,753	-	-	15,753	-	VCSCFA
571677	VA GENERAL ASSEMBLY	REED, B.	152,426	46,095	-	-	198,521	-	-	198,521	-	VCSCFA
734821	COMPUTER SCIENCE CORP.	REED, B.	5,034	-	-	109,981	115,015	2,606	-	117,621	-	VCSCFA
742051	LOCKHEED/MARTIN	REED, B.	11,058	2,009	-	-	13,067	-	-	13,067	-	VCSCFA
742052	MICROCOSM INC	REED, B.	8,978	-	-	-	8,978	-	-	8,978	-	VCSCFA
742053	LOCKHEED/MARTIN	REED, B.	4,284	251	-	-	4,535	-	-	4,535	-	VCSCFA
742054	KT ENGINEERING	REED, B.	9,790	-	-	-	9,790	-	-	9,790	-	VCSCFA
711202	PRIVATE SPONSORS	REED, B.	-	36,501	-	-	36,501	-	-	36,501	-	VSAFI
			531,483	114,287	35,150	1,228,135	1,909,055	60,088	-	1,969,143	-	3.15%
	Virginia Space Flight Academy											
711203	PRIVATE SPONSORS	REED, B.	-	57,071	-	-	57,071	-	-	57,071	-	VSAFI
711204	PRIVATE SPONSORS	REED, B.	-	26,001	-	-	26,001	-	-	26,001	-	VSAFI
711209	PRIVATE SPONSORS	REED, B.	-	6,794	-	-	6,794	-	-	6,794	-	VSAFI
			-	89,866	-	-	89,866	-	-	89,866	-	0.00%
<b>TOTAL OTHER ENTITIES</b>			<b>\$ 1,422,929</b>	<b>\$ 542,783</b>	<b>\$ 35,150</b>	<b>\$ 2,619,012</b>	<b>\$ 4,619,874</b>	<b>\$ 364,948</b>	<b>\$ -</b>	<b>\$ 4,984,822</b>	<b>\$ 7,900</b>	
<b>GRAND TOTAL</b>			<b>\$ 18,787,260</b>	<b>\$ 3,838,090</b>	<b>\$ 1,310,111</b>	<b>\$ 7,474,840</b>	<b>\$ 31,410,301</b>	<b>\$ 5,802,328</b>	<b>\$ 41,608</b>	<b>\$ 37,254,237</b>	<b>\$ 18,61%</b>	

\* Represents split reporting of project activity between PI and Co-PI's.

**SCHEDULE 5**

**Center Generated Activity Reported as  
Activity of an Academic Department**

**Fiscal Year 2004**

**SCHEDULE 5**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**CENTER GENERATED PROJECTS REPORTED AS ACTIVITY**  
**OF AN ACADEMIC DEPARTMENT**  
(MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

DEPARTMENT	PROJECT NUMBER	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS	CENTER
<b>SOCIAL SCIENCE RESEARCH CENTER (SSRC):</b>			575	300	-	-	875	88	-	963	SSRC
PSYCHOLOGY	544561	PORTER, B.	575	300	-	-	875	88	-	963	
<b>TECHNOLOGY APPLICATIONS CENTER (TAC):</b>											
DEAN, ENGINEERING & TECH	524773	BAYSAL, O.	-	-	-	7,002	7,002	-	-	7,002	TAC
DEAN, ENGINEERING & TECH	524774	BAYSAL, O.	-	-	-	4,998	4,998	-	-	6,297	TAC
ELEC & COMPUTER ENGR	514774	MCKENZIE, F.	-	-	-	190	190	-	-	270	TAC
ELEC & COMPUTER ENGR	524759	MCKENZIE, F.	2,159	-	-	-	2,159	-	-	2,159	TAC
ELEC & COMPUTER ENGR	524760	MCKENZIE, F.	2,210	-	-	-	2,210	-	-	3,138	TAC
ELEC & COMPUTER ENGR	741451	MCKENZIE, F.	14,440	-	-	-	14,440	-	-	20,505	TAC
MECHANICAL ENGINEERING	593746	BAO, H.	-	-	-	547	547	-	-	547	TAC
MECHANICAL ENGINEERING	514770	BAWAB, S.	-	-	-	601	601	-	-	601	TAC
MECHANICAL ENGINEERING	524763	BAWAB, S.	1,783	339	-	(29)	2,093	-	-	2,093	TAC
MECHANICAL ENGINEERING	524764	BAWAB, S.	682	-	-	(128)	554	-	-	787	TAC
MECHANICAL ENGINEERING	524782	BAWAB, S.	1,321	-	-	-	1,321	-	-	1,321	TAC
MECHANICAL ENGINEERING	514782	HOU, G.	-	-	-	73	73	-	-	92	TAC
MECHANICAL ENGINEERING	524757	HOU, G.	7,205	-	-	-	7,205	-	-	7,205	TAC
MECHANICAL ENGINEERING	524758	HOU, G.	11,352	-	-	-	11,352	-	-	14,303	TAC
MECHANICAL ENGINEERING	534806	HOU, G.	4,520	-	-	-	4,520	-	-	5,695	TAC
ENGINEERING TECHNOLOGY	573752	BLISCHAK, A.	-	-	-	30	30	-	-	30	TAC
ENGINEERING TECHNOLOGY	534807	CONSIDINE, C.	-	3,500	-	-	3,500	-	-	3,500	TAC
ENGINEERING TECHNOLOGY	534808	CONSIDINE, C.	2,275	500	-	3	2,778	722	-	3,500	TAC
ENGINEERING TECHNOLOGY	534797	LEWIS, V.	-	-	-	2,000	2,000	-	-	2,000	TAC
ENGINEERING TECHNOLOGY	534798	LEWIS, V.	-	-	-	2,000	2,000	-	-	2,000	TAC
ENGINEERING TECHNOLOGY	524754	MOUSTAF, M.	-	-	-	-	-	43	-	43	TAC
ENGINEERING TECHNOLOGY	524765	MOUSTAF, M.	1,153	-	-	-	1,153	-	-	1,153	TAC
ENGINEERING TECHNOLOGY	524766	MOUSTAF, M.	411	-	-	1	412	173	-	585	TAC
ENGINEERING TECHNOLOGY	524769	MOUSTAF, M.	1,787	-	-	-	1,787	-	-	1,787	TAC
ENGINEERING TECHNOLOGY	524770	MOUSTAF, M.	1,163	-	-	(3)	1,160	489	-	1,649	TAC
ENGINEERING TECHNOLOGY	524776	MOUSTAF, M.	-	-	-	20	20	9	-	29	TAC
ENGINEERING TECHNOLOGY	524780	MOUSTAF, M.	1,068	-	-	-	1,068	-	-	1,068	TAC
ENGINEERING TECHNOLOGY	524781	MOUSTAF, M.	502	-	-	-	502	-	-	502	TAC
ENGINEERING TECHNOLOGY	734941	PETERSON, W.	23,505	4,600	-	-	28,105	2,810	8,333	39,248	TAC
ENGINEERING TECHNOLOGY	534795	VERMA, A.	284	2,019	-	-	2,303	-	-	2,303	TAC
ENGINEERING TECHNOLOGY	534796	VERMA, A.	26,167	5,743	-	-	31,910	8,297	-	40,207	TAC
ENGINEERING TECHNOLOGY	514768	WELLS, S.	-	-	-	69	69	18	-	87	TAC
ENGR MANAGEMENT	524751	KEATING, C.	678	-	-	-	678	-	-	678	TAC
ENGR MANAGEMENT	524752	KEATING, C.	1,863	-	-	-	1,863	484	-	2,347	TAC
ENGR MANAGEMENT	514802	SOUSA-POZA, A.	2,964	-	-	-	2,964	771	-	3,735	TAC
ENGR MANAGEMENT	524751	SOUSA-POZA, A.	975	-	-	-	975	-	-	975	TAC
ENGR MANAGEMENT	524752	SOUSA-POZA, A.	2,680	-	-	-	2,680	697	-	3,377	TAC
TECHNOLOGY APPLICATION CENTE	514772	CORY, M.	-	-	-	2	2	-	-	3,750	TAC
TECHNOLOGY APPLICATION CENTE	524236	CORY, M.	-	-	-	2,104	2,104	867	-	3,752	TAC
TECHNOLOGY APPLICATION CENTE	524779	CORY, M.	829	8,594	-	12,764	22,187	-	-	9,946	TAC
TECHNOLOGY APPLICATION CENTE	524779	CORY, M.	-	-	-	-	-	-	-	22,187	TAC

**SCHEDULE 5**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**CENTER GENERATED PROJECTS REPORTED AS ACTIVITY**  
**OF AN ACADEMIC DEPARTMENT**  
(MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2004**

DEPARTMENT	PROJECT NUMBER	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PROJECT DIRECT COST				PROJECT IDC AND FEES				TOTAL PROJECT COSTS	CENTER
			PERSONNEL AND FRINGE BENEFITS	SUPPLIES, CONTRACTUAL, GENERAL, & TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES	TOTAL PROJECT COSTS		
TECHNOLOGY APPLICATION CENTE	524783	CORY, M.	-	52	16,945	540	17,537	22	-	17,559	TAC	
TECHNOLOGY APPLICATION CENTE	740281	CORY, M.	-	-	-	-	-	-	3,450	3,450	TAC	
TECHNOLOGY APPLICATION CENTE	533771	LAPLACA, J.	2,169	-	-	-	2,169	-	-	2,733	TAC	
TECHNOLOGY APPLICATION CENTE	534791	LAPLACA, J.	-	-	-	1,450	1,450	-	-	1,450	TAC	
TECHNOLOGY APPLICATION CENTE	534792	LAPLACA, J.	-	-	-	750	750	315	450	1,515	TAC	
TECHNOLOGY APPLICATION CENTE	534793	LAPLACA, J.	-	-	-	1,450	1,450	-	-	1,450	TAC	
TECHNOLOGY APPLICATION CENTE	534794	LAPLACA, J.	-	-	-	750	750	315	450	1,515	TAC	
TECHNOLOGY APPLICATION CENTE	534799	LAPLACA, J.	1,416	-	-	1,416	1,416	-	-	1,416	TAC	
TECHNOLOGY APPLICATION CENTE	534800	LAPLACA, J.	507	-	-	38	545	229	232	1,006	TAC	
TECHNOLOGY APPLICATION CENTE	534802	LAPLACA, J.	19,560	3,937	-	2,499	25,996	9,869	7,400	43,265	TAC	
TECHNOLOGY APPLICATION CENTE	534803	LAPLACA, J.	1,700	-	-	-	1,700	-	-	1,700	TAC	
TECHNOLOGY APPLICATION CENTE	534804	LAPLACA, J.	1,254	-	-	-	1,254	527	750	2,531	TAC	
TECHNOLOGY APPLICATION CENTE	541834	LAPLACA, J.	794	-	-	(6)	788	-	218	1,006	TAC	
TECHNOLOGY APPLICATION CENTE	522695	PARKINSON, K.	-	-	-	-	-	-	4,500	4,500	TAC	
TECHNOLOGY APPLICATION CENTE	524221	ROBERTSON, J.	2,348	243	-	-	2,591	-	-	2,591	TAC	
TECHNOLOGY APPLICATION CENTE	524761	ROBERTSON, J.	-	-	-	2,025	2,025	-	-	2,025	TAC	
TECHNOLOGY APPLICATION CENTE	524762	ROBERTSON, J.	-	-	-	6,762	6,762	1,758	-	8,520	TAC	
TECHNOLOGY APPLICATION CENTE	524777	ROBERTSON, J.	1,902	-	-	-	1,902	-	-	1,902	TAC	
TECHNOLOGY APPLICATION CENTE	524778	ROBERTSON, J.	1,309	-	-	101	1,410	592	-	2,002	TAC	
TECHNOLOGY APPLICATION CENTE	534781	ROBERTSON, J.	107,079	5,587	-	-	112,666	-	-	112,666	TAC	
TECHNOLOGY APPLICATION CENTE	534809	ROBERTSON, J.	-	-	-	2,000	2,000	-	-	2,000	TAC	
TECHNOLOGY APPLICATION CENTE	534810	ROBERTSON, J.	-	-	-	1,000	1,000	-	-	1,000	TAC	
TECHNOLOGY APPLICATION CENTE	541835	ROBERTSON, J.	-	-	-	1,000	1,000	-	-	1,000	TAC	
TECHNOLOGY APPLICATION CENTE	724572	ROBERTSON, J.	-	-	-	518	518	217	-	735	TAC	
TECHNOLOGY APPLICATION CENTE	724691	ROBERTSON, J.	4,762	(205)	-	-	4,557	-	-	4,557	TAC	
TECHNOLOGY APPLICATION CENTE	740202	ROBERTSON, J.	5,040	4,811	9,151	7,993	26,995	995	5,100	33,090	TAC	
TECHNOLOGY APPLICATION CENTE	740582	ROBERTSON, J.	56,379	-	-	-	56,379	-	-	56,379	TAC	
AEROSPACE ENGINEERING	504924	ALBERTS, T.	-	-	-	62	62	16	-	78	TAC	
AEROSPACE ENGINEERING	514783	KANDIL, O.	7,882	-	-	-	7,882	-	-	7,882	TAC	
AEROSPACE ENGINEERING	514784	KANDIL, O.	14,986	-	-	1	14,987	3,896	-	18,883	TAC	
AEROSPACE ENGINEERING	741461	KANDIL, O.	24,460	-	-	-	24,460	6,360	-	30,820	TAC	
AEROSPACE ENGINEERING	514779	MEI, C.	1,670	-	-	-	1,670	-	-	1,670	TAC	
AEROSPACE ENGINEERING	514780	MEI, C.	7,807	-	-	-	7,807	2,030	-	9,837	TAC	
AEROSPACE ENGINEERING	524232	NEWMAN, B.	-	-	-	16,710	16,710	4,344	-	21,054	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	514776	COOPER, J.	-	-	-	554	554	233	-	787	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	524767	COOPER, J.	6,602	-	-	-	6,602	-	-	6,602	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	524768	COOPER, J.	6,021	-	-	-	6,021	2,529	-	8,550	TAC	
PSYCHOLOGY	524238	BLISS, J.	-	-	-	1	1	-	-	1	TAC	
PSYCHOLOGY	732201	BLISS, J.	-	-	-	3,058	3,058	423	-	3,481	TAC	
PSYCHOLOGY	732201	DICKINSON, T.	-	-	-	3,058	3,058	422	-	3,480	TAC	
			369,623	39,720	26,096	84,558	539,997	63,786	41,608	645,391		

<b>\$ 390,198 \$</b>	<b>40,020 \$</b>	<b>26,096 \$</b>	<b>84,558 \$</b>	<b>540,872 \$</b>	<b>63,874 \$</b>	<b>41,608 \$</b>	<b>646,354</b>
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**SCHEDULE 6**

**Selected Center Activity**

**Langley Full Scale Tunnel**

**Revenues and Expenditures**

**Fiscal Year 2004 through Fiscal Year 1999**

TENTATIVE SCHEDULE 6  
 OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
 SELECTED CENTER ACTIVITY  
 LANGLEY FULL SCALE TUNNEL  
 FISCAL YEAR 2004 THROUGH FISCAL YEAR 1999

	Fiscal Year 2004	Fiscal Year 2003	Fiscal Year 2002	Fiscal Year 2001	Fiscal Year 2000	Fiscal Year 1999	Cumulative Through FY 1998
<b>UNIVERSITY ACTIVITY: LANGLEY FULL SCALE TUNNEL</b>							
REVENUES	\$ 722,674	\$ 1,104,304	\$ 986,148	\$ 947,040	\$ 678,096	\$ 391,850	\$ 364,400
EXPENDITURES							
Personnel & Fringe Benefits	424,989	679,187	664,386	524,662	271,844	170,693	191,356
Supplies, Contractual, General & Travel	301,783	245,497	260,518	244,977	160,314	163,493	302,269
Equipment	33,019	78,490	31,545	52,845	23,717	61,489	49,415
Subcontracts, Construction & Other	-	-	7,430	24,801	9,186	44,589	155,065
Administrative & Management Fees	-	-	96,388	-	-	-	-
Total Expenditures	\$ 759,791	\$ 1,003,174	\$ 1,060,267	\$ 847,285	\$ 465,061	\$ 440,264	\$ 698,105
Net Revenue (Deficit)	\$ (37,117)	\$ 101,130	\$ (74,119)	\$ 99,755	\$ 213,035	\$ (48,414)	\$ (333,705)
Cumulative Net (Deficit)	\$ (79,435)	\$ (42,318)	\$ (143,448)	\$ (69,329)	\$ (169,084)	\$ (382,119)	\$ (333,705)

**SCHEDULE 7**

**Sponsored Program Activity**

**Proposals Submitted and Awards Funded**

**University and Non-University Units**

**Fiscal Year 2004 through Fiscal Year 2000**

SCHEDULE 7

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SUMMARY OF PROPOSAL AND AWARD ACTIVITY  
FOR UNIVERSITY AND NON-UNIVERSITY UNITS  
FISCAL YEAR 2004 THROUGH FISCAL YEAR 2000

	PROPOSALS SUBMITTED				AWARDS FUNDED				
	FY 04	FY 03	FY 02	FY 01	FY 04	FY 03	FY 02	FY 01	FY 00
<b>UNIVERSITY ACTIVITY</b>									
<b>COLLEGE OF ARTS &amp; LETTERS</b>									
Art	\$ 9,000	\$ 165,000	\$ 3,000	\$ 20,820	\$ -	\$ -	\$ -	\$ -	\$ -
Communication & Theatre Arts	11,000	8,500	15,500	4,000	19,500	800	1,300	1,300	10,500
English	-	-	-	-	27,650	8,000	1,000	13,100	900
Foreign Languages & Literatures	-	-	415	-	-	-	415	-	-
International Studies	-	-	-	333,155	31,500	-	-	-	-
Music	6,000	-	7,000	1,000	21,400	1,000	-	4,750	2,500
Political Science & Geography	492,440	1,642,121	1,005,479	1,781,225	774,211	125,000	153,045	61,883	61,883
Social Science Research Center	995,369	849,272	2,864,259	218,489	1,139,389	663,568	628,354	261,872	174,534
Sociology & Criminal Justice	2,924,458	1,990,229	1,097,719	2,618,374	2,013,193	300,261	289,294	242,578	-
Womens Studies	72,248	-	-	-	-	-	-	-	-
Dean's Office	180,000	-	2,700	-	27,728	-	-	22,028	55,599
<b>College Total</b>	<b>\$ 4,690,515</b>	<b>\$ 4,655,122</b>	<b>\$ 4,996,072</b>	<b>\$ 4,990,513</b>	<b>\$ 4,054,571</b>	<b>\$ 1,098,629</b>	<b>\$ 1,072,108</b>	<b>\$ 545,628</b>	<b>\$ 305,916</b>
% Change from prior year	0.76%	-6.82%	0.11%	23.08%	19.89%	2.47%	96.49%	78.96%	-8.55%
Average yearly increase ( decrease)	7.74%								
<b>COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION</b>									
Bank of America Entrepreneurial Center	\$ 885	\$ 223,500	\$ 189,000	\$ 45,000	\$ 150,000	\$ 252,000	\$ 10,000	\$ 145,000	\$ 125,000
Business Administration	62,931	41,161	190,000	-	-	10,350	-	-	-
Economics	91,527	85,494	8,519	-	95,488	-	-	-	7,000
Information Systems/Decision Science	107,589	956,119	-	-	-	-	-	-	-
Urban Studies/Public Administration	646,309	754,767	218,063	308,743	212,672	104,684	216,313	203,570	303,445
<b>College Total</b>	<b>\$ 929,241</b>	<b>\$ 2,061,041</b>	<b>\$ 605,582</b>	<b>\$ 353,743</b>	<b>\$ 458,160</b>	<b>\$ 367,044</b>	<b>\$ 226,313</b>	<b>\$ 348,570</b>	<b>\$ 435,445</b>
% Change from prior year	-54.91%	240.34%	71.19%	-22.79%	91.61%	62.18%	-35.07%	-19.95%	72.09%
Average yearly increase ( decrease)	57.72%								

**SCHEDULE 7**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF PROPOSAL AND AWARD ACTIVITY**  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2000**

	PROPOSALS SUBMITTED				AWARDS FUNDED					
	FY 04	FY 03	FY 02	FY 01	FY 00	FY 04	FY 03	FY 02	FY 01	FY 00
<b>COLLEGE OF EDUCATION</b>										
Early Childhood, Speech Lang. Path. & Spec. Ed.	\$ 2,086,717	\$ 3,327,340	\$ 2,485,472	\$ 5,763,888	\$ 1,436,403	\$ 1,705,867	\$ 2,149,144	\$ 1,740,646	\$ 2,007,606	\$ 698,731
Educational Curriculum & Instruction	2,018,768	7,350,272	1,644,647	3,151,050	2,121,598	333,144	430,533	84,250	904,691	492,291
Educational Leadership & Counseling	73,483	2,185,385	651,383	1,481,075	859,882	-	24,689	35,000	165,000	-
Exercise Science, Phys. Ed. & Recreation	1,026,613	222,000	765,343	725,628	445,000	221,500	104,370	146,513	256,000	145,000
Foundations & Special Programs	-	149,617	-	-	-	5,752	-	-	-	-
Occupational & Technical Studies	176,236	493,765	124,251	31,150	1,340,501	161,236	26,550	28,043	-	49,013
Dean's Office	2,085,946	1,827,771	241,600	413,353	79,729	9,275	100,000	67,600	224,329	48,000
<b>College Total</b>	<b>\$ 7,467,763</b>	<b>\$ 15,556,150</b>	<b>\$ 5,912,696</b>	<b>\$ 11,566,144</b>	<b>\$ 6,283,113</b>	<b>\$ 2,436,774</b>	<b>\$ 2,835,286</b>	<b>\$ 2,102,052</b>	<b>\$ 3,557,626</b>	<b>\$ 1,433,035</b>
% Change from prior year	-51.99%	163.10%	-48.88%	84.08%	261.05%	-14.06%	34.88%	-40.91%	148.26%	149.01%
Average yearly increase (decrease)	65.82%					64.68%				
<b>COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>										
Aerospace Engineering	\$ 642,432	\$ 2,852,394	\$ 11,663,509	\$ 6,722,334	\$ 3,364,250	\$ 2,543,574	\$ 1,676,857	\$ 733,018	\$ 2,181,686	\$ 435,685
Aerospace Engineering - SSRP	50,000	-	-	-	-	99,607	-	-	-	-
ARC: Applied Research Center	2,576,647	1,986,887	5,704,109	15,062,184	2,795,983	1,060,892	683,824	329,143	1,211,739	1,148,493
Center for Advanced Engineering Environments	4,297,020	1,391,454	-	880,000	-	721,309	-	-	697,171	-
Center for Bioelectrics	1,294,435	1,335,332	-	-	-	130,774	1,950	-	-	-
Civil & Environmental Engineering	208,512	870,970	1,824,585	2,854,053	287,962	187,740	302,394	1,205,748	708,339	-
Electrical & Computer Engineering	5,799,680	9,948,721	14,025,662	10,479,000	6,386,750	1,145,416	3,430,228	3,081,093	1,419,147	407,262
Electrical & Computer Engineering - SSRP	-	-	45,273	218,910	598,027	-	-	-	109,455	-
Engineering Management	956,463	622,830	667,385	816,905	1,162,022	489,628	161,862	276,212	466,543	412,883
Engineering Technology	2,898,223	4,524,501	3,226,585	2,003,991	621,458	363,905	233,127	508,046	155,629	6,832
Mechanical Engineering	2,095,450	6,459,703	2,643,737	10,011,126	3,430,147	681,400	1,324,447	720,446	1,548,934	1,017,229
TAC: Technology Applications Center	238,193	487,482	862,037	70,443	672,950	332,383	569,152	409,270	202,943	392,950
VMASC: Virginia Modeling, Analysis & Simulation Center	53,408,642	40,968,974	4,814,027	14,966,417	3,345,782	12,379,409	4,708,099	5,215,624	3,535,817	2,967,274
Dean's Office	107,499	-	46,769	-	12,000	90,000	40,000	-	-	12,000
<b>College Total</b>	<b>\$ 74,573,196</b>	<b>\$ 71,449,248</b>	<b>\$ 45,523,678</b>	<b>\$ 64,085,363</b>	<b>\$ 22,677,331</b>	<b>\$ 20,226,037</b>	<b>\$ 13,131,940</b>	<b>\$ 12,478,600</b>	<b>\$ 12,237,403</b>	<b>\$ 8,401,435</b>
% Change from prior year	4.37%	56.95%	-28.96%	182.60%	-11.00%	54.02%	5.24%	1.97%	45.66%	25.81%
Average yearly increase (decrease)	38.54%					40.57%				

**SCHEDULE 7**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF PROPOSAL AND AWARD ACTIVITY**  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2000**

	PROPOSALS SUBMITTED				AWARDS FUNDED					
	FY 04	FY 03	FY 02	FY 01	FY 00	FY 04	FY 03	FY 02	FY 01	FY 00
<b>COLLEGE OF HEALTH SCIENCES</b>										
Community & Environmental Health	\$ 256,490	\$ 20,000	\$ 156,738	\$ 49,507	\$ 103,050	\$ -	\$ -	\$ 49,000	\$ -	\$ -
Dental Hygiene	353,565	84,921	105,132	26,773	57,762	36,443	63,298	19,452	11,621	49,696
Medical Laboratory & Radiation Sciences	20,000	20,000	99,971	414,560	2,375,064	-	-	-	-	-
Nursing	1,679,723	1,642,361	1,912,528	2,108,072	21,000	382,699	-	-	21,012	-
Physical Therapy	78,424	26,548	1,347,154	-	-	-	-	5,000	-	-
Dean's Office	22,022	438,144	-	-	-	36,000	-	-	-	-
<b>College Total</b>	<b>\$ 2,410,224</b>	<b>\$ 2,231,974</b>	<b>\$ 3,621,523</b>	<b>\$ 2,598,912</b>	<b>\$ 2,556,876</b>	<b>\$ 455,142</b>	<b>\$ 63,298</b>	<b>\$ 73,452</b>	<b>\$ 32,633</b>	<b>\$ 49,696</b>
% Change from prior year	7.99%	-38.37%	39.35%	1.64%	453.08%	619.05%	-13.82%	125.09%	-34.33%	183.85%
Average yearly increase ( decrease)	84.27%					499.92%				
<b>COLLEGE OF SCIENCES</b>										
Biological Sciences	\$ 9,277,206	\$ 4,122,726	\$ 11,341,384	\$ 12,444,796	\$ 6,634,617	\$ 2,263,554	\$ 2,429,749	\$ 2,628,968	\$ 2,789,130	\$ 2,647,551
Center for Biotechnology	8,360,148	53,078	-	483,900	442,999	1,675,964	55,078	88,794	428,168	441,912
Center for Coastal Physical Oceanography	3,396,609	5,901,887	1,390,633	11,322,289	7,094,696	1,675,964	974,668	1,115,507	1,331,923	2,311,176
Center for Coastal Physical Oceanography - SSRP	1,140,238	1,488,861	192,090	7,296,850	1,507,174	442,776	232,109	294,111	696,111	523,599
Center for Computational Sciences	113,204	-	-	-	-	-	-	-	-	-
Chemistry and Biochemistry	11,040,398	10,159,913	8,727,432	17,125,148	6,734,672	1,110,138	287,169	1,294,708	1,233,371	975,237
Computer Science	1,017,498	6,435,362	4,578,087	11,001,006	3,137,310	1,621,618	953,999	1,375,932	961,190	684,869
Mathematics and Statistics	447,463	8,363,252	2,148,303	4,370,563	3,669,324	341,468	424,509	551,028	464,023	281,274
Mathematics and Statistics - SSRP	447,463	211,559	-	303,595	51,166	53,680	74,041	139,554	90,000	51,166
Ocean, Earth & Atmospheric Sciences	13,312,239	7,276,346	8,559,538	17,911,480	6,271,566	953,634	1,405,445	2,853,611	1,605,545	1,413,101
Ocean, Earth & Atmospheric Sciences - SSRP	2,108,012	655,933	185,586	336,269	789,976	130,624	168,512	182,737	5,000	91,541
Physics	3,039,940	3,236,560	14,742,991	3,584,371	3,551,629	1,222,912	778,749	786,020	762,929	815,628
Psychology	3,229,028	1,138,236	3,990,880	7,479,622	4,255,285	926,945	750,644	645,112	3,307,779	2,574,501
Dean's Office	28,560	19,417	1,138,780	173,653	-	-	-	-	-	-
<b>College Total</b>	<b>\$ 56,510,543</b>	<b>\$ 49,063,130</b>	<b>\$ 56,995,704</b>	<b>\$ 93,633,542</b>	<b>\$ 44,140,404</b>	<b>\$ 10,743,313</b>	<b>\$ 8,532,672</b>	<b>\$ 11,956,082</b>	<b>\$ 13,675,169</b>	<b>\$ 12,811,555</b>
% Change from prior year	15.18%	-13.92%	-39.26%	112.58%	12.66%	25.91%	-28.63%	-12.57%	6.74%	25.63%
Average yearly increase ( decrease)	8.85%					1.07%				
<b>OTHER</b>										
College Total	\$ 2,480,046	\$ 4,392,187	\$ 1,963,127	\$ 3,365,181	\$ 423,896	\$ 1,557,932	\$ 2,651,203	\$ 814,673	\$ 2,079,611	\$ 296,957
<b>TOTAL - UNIVERSITY UNITS</b>	<b>\$ 149,061,528</b>	<b>\$ 149,408,852</b>	<b>\$ 119,618,382</b>	<b>\$ 180,793,398</b>	<b>\$ 80,594,351</b>	<b>\$ 36,300,854</b>	<b>\$ 28,680,072</b>	<b>\$ 28,723,280</b>	<b>\$ 32,476,640</b>	<b>\$ 23,734,039</b>
% Change from prior year	-0.23%	24.90%	-33.84%	124.33%	14.28%	26.57%	-0.15%	-11.56%	36.84%	31.05%
Average yearly increase ( decrease)	22.27%					20.09%				

**SCHEDULE 7**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF PROPOSAL AND AWARD ACTIVITY**  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2004 THROUGH FISCAL YEAR 2000**

	PROPOSALS SUBMITTED				AWARDS FUNDED					
	FY 04	FY 03	FY 02	FY 01	FY 00	FY 04	FY 03	FY 02	FY 01	FY 00
<b>NON-UNIVERSITY ACTIVITY</b>										
CASRM	\$ -	\$ -	\$ -	\$ 289,396	\$ 30,000	\$ -	\$ -	\$ 136,251	\$ 289,396	\$ 530,000
Center for Public/Private Partnership	-	-	-	40,398	45,000	-	-	42,498	40,398	45,000
National University Teleconference Network	-	-	-	-	4,000	-	-	-	-	4,000
VA Tidewater Consortium for Higher Education	-	298,147	519,893	2,487,263	2,914,913	-	-	405,708	371,395	364,113
VA Space Grant Consortium	3,680,968	1,664,439	651,559	5,462,541	1,741,247	-	-	1,915,929	1,809,047	1,331,735
VA Commercial Space Flight Authority	5,481,559	100,000	4,333,140	500,859	364,983	-	-	1,218,465	596,157	364,983
Total Non-University Activity	\$ 9,162,527	\$ 2,052,586	\$ 5,547,090	\$ 8,780,457	\$ 5,100,143	\$ -	\$ 3,489,134	\$ 3,718,851	\$ 3,106,393	\$ 2,639,831
% Change from prior year	344.23%	-62.82%	-36.82%	72.16%	84.63%		-6.18%	19.72%	17.67%	-35.75%
Average yearly increase ( decrease)	46.34%									
<b>GRAND TOTAL</b>	\$ 158,224,055	\$ 151,471,438	\$ 125,165,472	\$ 189,573,855	\$ 85,694,494	\$ 41,317,964	\$ 32,169,206	\$ 32,442,131	\$ 35,583,033	\$ 26,373,870
% CHANGE FROM PRIOR YEAR	4.46%	21.02%	-33.98%	121.22%	16.93%	28.44%	-0.84%	-8.83%	34.92%	18.70%
Average yearly increase ( decrease)	23.18%					17.19%				