



## Old Dominion University Research Foundation

To: Distribution

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

Date: December 10, 2003

Subject: Annual Report of Sponsored Program Activity - June 30, 2003

Attached please find the Annual Report of Sponsored Program Activity for the fiscal year ended June 30, 2003. 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 current year's report is a schedule of proposals submitted and awards funded for the four most recent 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 3.11% to a level of \$33.5 million
- The average yearly increase for the past five fiscal periods is 11.92%
- The top five funding sources for the fiscal year were:

National Space and Aeronautics Administration	\$6.7 million
U.S. Department of the Navy	\$5.9 million
National Science Foundation	\$3.9 million
Virginia Department of Education	\$1.8 million
U.S. Department of the Air Force	\$1.5 million

These five agencies represent 59.1% 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	\$6.0 million
Biological Sciences	\$2.8 million
Center for Advanced Engineering Environments	\$1.7 million
Ocean, Earth and Atmospheric Sciences	\$1.7 million
Early Childhood, Speech Language Pathology and Special Education	\$1.6 million
Center for Bioelectrics	\$1.5 million
Center for Coastal Physical Oceanography	\$1.4 million
Electrical & Computer Engineering	\$1.2 million

- Proposal submissions during fiscal year 2003 increased 21.02% over fiscal year 2002 levels and represent an average yearly increase of 26.67% for the four year period since fiscal year 1999. Funding awarded remained relatively stable at \$32.2 million dollars for fiscal year 2003, versus \$32.4 million dollars in fiscal year 2002.

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 2003 for each college and other reporting units.

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

This chart indicates the growth in sponsored research from \$20.9 million for fiscal year 1998 to \$33.5 million dollars for fiscal year 2003. 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.

\* \* \*

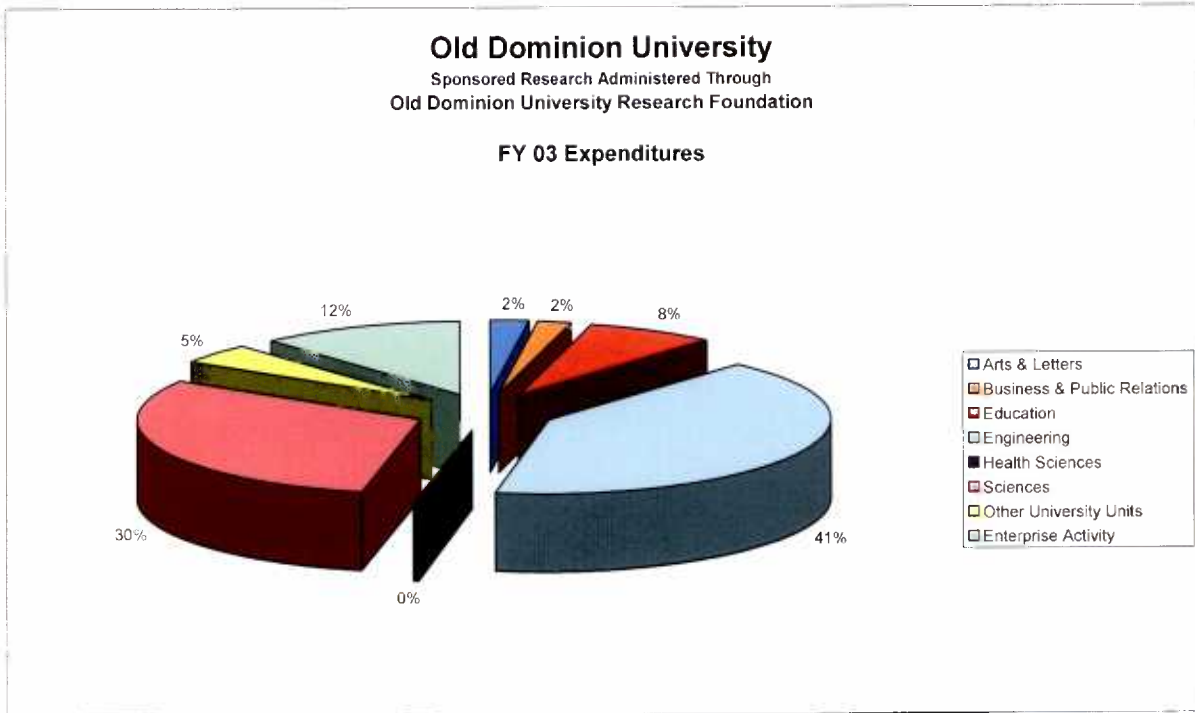


Chart A – Research Expenditures for University and Non-University Units

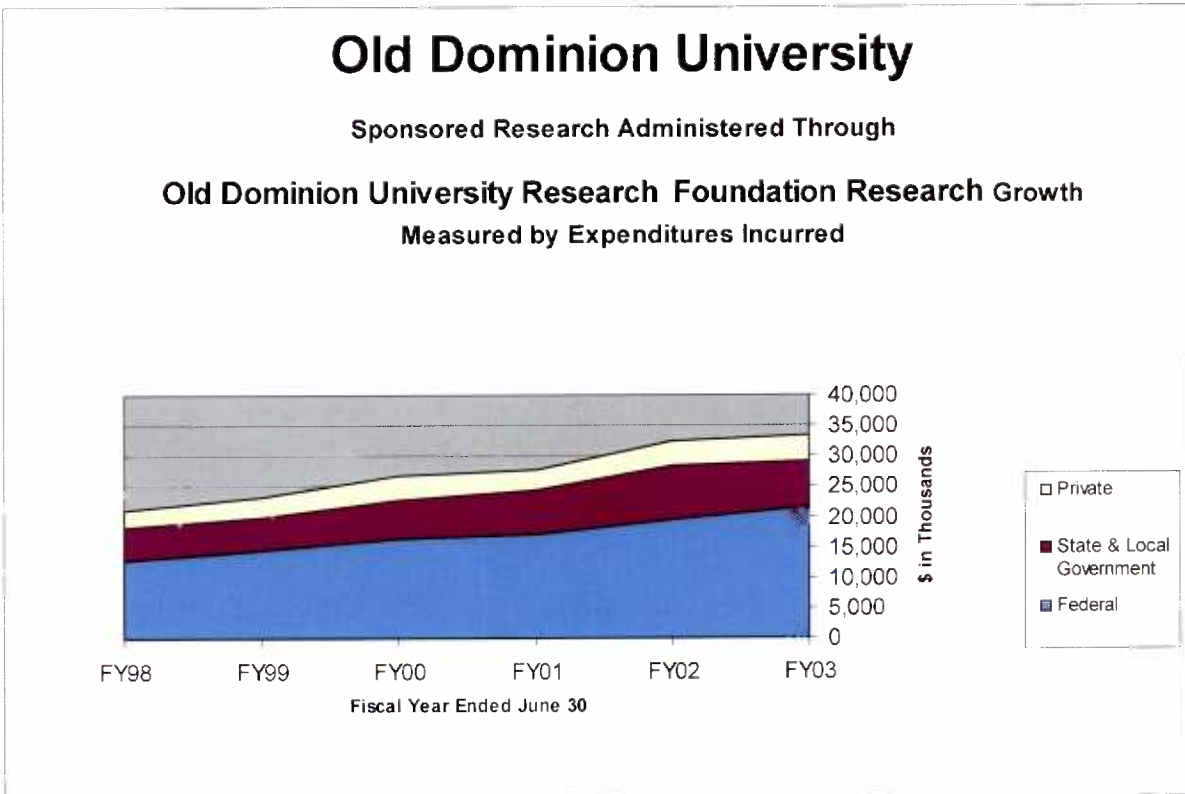


Chart B – Expenditures by Funding Source

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

**FISCAL YEAR ENDED JUNE 30, 2003**

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**SCHEDULE 1**

**Summary of Sponsored Program Activity  
University and Non-University Units  
Fiscal Year 2003 through Fiscal Year 1998**

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**  
(MEASURED BY EXPENDITURES INCURRED)  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1998**

	FY 03	FY 02	FY 01	FY 00	FY 99	FY 98
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**UNIVERSITY ACTIVITY**  
**COLLEGE OF ARTS & LETTERS**

Communication & Theatre Arts	\$ 800	\$ 500	\$ -	\$ 4,900	\$ 4,907	\$ 3,993
English	7,954	8,397	6,503	3,500	3,451	2,999
History	-	-	-	-	-	6,992
International Studies	-	-	-	40,500	(14,474)	53,456
Music	1,000	1,750	3,500	2,000	2,125	900
PLACE: Programs in Liberal Arts Continuing Ed.	-	-	-	4,936	4,755	3,369
Political Science & Geography	72,209	109,357	87,045	96,701	157,751	169,416
Social Science Research Center	367,952	481,919	111,683	85,227	15,100	-
Sociology & Criminal Justice	258,148	238,861	145,737	116,326	76,206	158,831
Sociology & Criminal Justice - SSRP	-	-	-	17,541	104,069	70,150
Dean's Office	-	-	11,573	40,543	63,377	15,978
<b>College Total</b>	<b>\$ 708,063</b>	<b>\$ 840,784</b>	<b>\$ 366,041</b>	<b>\$ 412,174</b>	<b>\$ 419,267</b>	<b>\$ 486,084</b>
% Change from prior year	-15.79%	129.70%	-11.19%	-1.69%	-13.75%	26.57%
Average yearly increase ( decrease)	9.13%					

**COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION**

Bank of America Entrepreneurial Center	\$ 476,622	\$ 342,992	\$ 391,247	\$ 204,874	\$ 243,824	\$ 185,129
Business Administration	9,612	-	-	-	-	-
Economics	10,363	10,937	10,506	12,100	10,053	-
Information Systems & Decision Sciences	16,553	-	-	(1,541)	11,542	-
International Maritime, Ports & Logistics Mgmt	-	-	4,288	2,711	-	-
Urban Studies/Public Administration	147,257	182,785	194,007	174,754	80,919	103,753
Dean's Office	-	-	25,588	74,894	69,150	9,136
<b>College Total</b>	<b>\$ 660,407</b>	<b>\$ 536,714</b>	<b>\$ 625,636</b>	<b>\$ 467,792</b>	<b>\$ 415,488</b>	<b>\$ 298,018</b>
% Change from prior year	23.05%	-14.21%	33.74%	12.59%	39.42%	-33.51%
Average yearly increase ( decrease)	24.32%					



**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**

(MEASURED BY EXPENDITURES INCURRED)

**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1998**

	FY 03	FY 02	FY 01	FY 00	FY 99	FY 98
<b>COLLEGE OF EDUCATION</b>						
Early Childhood, Speech Lang. Path. & Spec. Ed.	\$ 1,635,742	\$ 1,773,295	\$ 1,824,737	\$ 1,222,314	\$ 998,465	\$ 1,090,582
Educational Curriculum & Instruction	362,222	499,354	511,704	1,861	-	3,805
Educational Leadership & Counseling	77,381	2,904	240,326	-	15,443	49,557
Exercise Science, Phys. Ed. & Recreation	208,703	264,589	255,617	195,846	130,446	153,428
Occupational & Technical Studies	9,274	1,105	7,028	39,008	-	11,777
Dean's Office	252,101	333,628	59,369	85,251	55,874	88,215
<b>College Total</b>	<b>\$ 2,545,423</b>	<b>\$ 2,874,875</b>	<b>\$ 2,898,781</b>	<b>\$ 1,544,280</b>	<b>\$ 1,200,228</b>	<b>\$ 1,397,364</b>
% Change from prior year	-11.46%	-0.82%	87.71%	28.67%	-14.11%	71.61%
Average yearly increase (decrease)	16.43%					
<b>COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>						
Aerospace Engineering	\$ 387,791	\$ 543,542	\$ 497,030	\$ 445,815	\$ 648,424	\$ 863,789
Aerospace Engineering - SSRP	38,464	-	-	-	-	-
ARC: Applied Research Center	792,875	672,594	861,019	975,057	26,324	-
Center for Advanced Engineering Environments	1,725,872	797,010	265,652	-	-	-
Center for Bioelectronics	1,504,210	211,534	-	-	-	-
Civil & Environmental Engineering	438,657	599,739	689,040	731,030	524,119	626,084
Electrical & Computer Engineering	1,249,621	1,671,030	1,723,318	2,028,898	1,609,356	1,088,306
Electrical & Computer Engineering - SSRP	-	88,457	19,575	-	-	131,865
Engineering Management	216,006	444,869	347,642	274,796	248,703	278,742
Engineering Management - SSRP	-	-	-	18,489	-	8,911
Engineering Technology	246,826	288,547	154,504	105,954	286,628	144,715
Mechanical Engineering	879,806	994,519	1,072,492	1,442,478	1,307,003	1,382,208
TAC: Technology Applications Center	418,407	372,920	329,245	440,442	477,968	342,276
VMASC: Virginia Modeling, Analysis & Simulation Center	5,987,850	5,526,082	3,865,609	3,082,244	2,071,183	736,562
Dean's Office	-	-	-	12,000	3,560	23,228
<b>College Total</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>	<b>\$ 5,626,686</b>
% Change from prior year	13.72%	24.03%	3.01%	32.68%	28.02%	17.11%
Average yearly increase (decrease)	29.36%					

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**

(MEASURED BY EXPENDITURES INCURRED)

**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1998**

	FY 03	FY 02	FY 01	FY 00	FY 99	FY 98
<b>COLLEGE OF HEALTH SCIENCES</b>						
Community & Environmental Health	\$ 23,995	\$ 30,005	\$ -	\$ -	\$ -	\$ -
Dental Hygiene	24,803	20,020	6,253	52,032	6,418	340
Medical Laboratory & Radiation Sciences	-	-	-	-	-	-
Nursing	-	4,769	16,343	142,905	231,117	341,486
College Total	\$ 48,798	\$ 54,794	\$ 22,596	\$ 194,937	\$ 237,535	\$ 341,826
% Change from prior year	-10.94%	142.49%	-88.41%	-17.93%	-30.51%	74.28%
Average yearly increase ( decrease)	-17.14%					
<b>COLLEGE OF SCIENCES</b>						
Biological Sciences	\$ 2,808,340	\$ 2,635,952	\$ 2,310,278	\$ 2,519,898	\$ 1,646,505	\$ 1,013,539
Center for Biotechnology	171,324	247,945	433,969	334,480	241,460	217,690
Center for Coastal Physical Oceanography	996,744	999,936	889,089	985,653	1,034,787	774,328
Center for Coastal Physical Oceanography - SSRP	424,325	407,695	623,790	1,059,345	1,834,309	1,054,945
Center for Computational Science	274,551	-	-	-	-	-
Chemistry and Biochemistry	854,424	1,228,044	931,624	454,955	854,968	1,120,623
Chemistry and Biochemistry - SSRP	-	-	5,692	30,290	54,662	115,263
Computer Science	883,631	1,126,332	1,107,243	1,201,028	1,207,494	1,427,725
Mathematics and Statistics	218,899	262,215	265,145	189,869	145,963	102,588
Mathematics and Statistics - SSRP	339,386	265,383	146,356	99,394	97,748	125,362
Ocean, Earth & Atmospheric Sciences	1,473,918	1,753,036	1,671,306	1,812,085	1,499,835	1,127,838
Ocean, Earth & Atmospheric Sciences - SSRP	209,993	130,027	2,813	-	-	-
Physics	712,784	918,742	661,382	822,214	862,656	852,708
Psychology	828,486	1,058,649	634,556	652,182	346,566	306,318
Applied Marine Research Laboratory	-	-	39,357	825,265	766,429	1,562,550
College Total	\$ 10,196,605	\$ 11,033,956	\$ 9,722,600	\$ 11,026,658	\$ 10,593,382	\$ 9,801,477
% Change from prior year	-7.59%	13.49%	-11.83%	4.09%	8.08%	2.30%
Average yearly increase ( decrease)	0.81%					
<b>OTHER</b>						
College Total	\$ 1,545,615	\$ 1,497,912	\$ 902,955	\$ 267,575	\$ 156,188	\$ 226,835
% Change from prior year	1.86%	19.14%	3.89%	16.05%	11.26%	10.66%
Average yearly increase ( decrease)	12.55%					
<b>TOTAL - UNIVERSITY UNITS</b>						
College Total	\$ 29,591,496	\$ 29,049,878	\$ 24,383,735	\$ 23,470,619	\$ 20,225,356	\$ 18,178,290
% Change from prior year	1.86%	19.14%	3.89%	16.05%	11.26%	10.66%
Average yearly increase ( decrease)	12.55%					

**SCHEDULE 1**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY**

(MEASURED BY EXPENDITURES INCURRED)

**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1998**

	FY 03	FY 02	FY 01	FY 00	FY 99	FY 98
<b>NON-UNIVERSITY ACTIVITY</b>						
Association for Consortium Leadership	\$ 39,870	\$ 23,401	\$ 26,945	\$ 34,623	\$ 20,897	\$ 22,515
CASRM	-	-	460,031	1,220,203	227,002	273,656
Center for Public/Private Partnership	-	(11,710)	58,694	54,193	93,357	75,304
National University Teleconference Network	74,245	67,341	52,377	69,962	46,288	181,590
VA Tidewater Consortium for Higher Education	423,267	398,934	417,624	365,994	343,641	327,619
VA Space Grant Consortium	2,256,649	2,181,527	1,781,968	1,011,133	879,069	575,298
VA Consortium of Engineering and Science Universities	-	-	-	-	-	19,574
VA Commercial Space Flight Authority	1,101,743	767,751	615,878	402,204	1,283,758	1,243,758
The Eastern Shore Institute	-	-	-	-	22,682	65,902
eTech: Environmental Tech. Center	-	-	-	(357)	21,467	15,671
Total Non-University Activity	\$ 3,895,774	\$ 3,427,244	\$ 3,413,517	\$ 3,157,955	\$ 2,938,161	\$ 2,800,887
% Change from prior year	13.67%	0.40%	8.09%	7.48%	4.90%	28.92%
Average yearly increase ( decrease)	7.82%					
<b>GRAND TOTAL</b>	\$ 33,487,270	\$ 32,477,122	\$ 27,797,252	\$ 26,628,574	\$ 23,163,517	\$ 20,979,177
<b>% CHANGE FROM PRIOR YEAR</b>	3.11%	16.84%	4.39%	14.96%	10.41%	12.79%
Average yearly increase ( decrease)	11.92%					

**SCHEDULE 2**

**Summary of Sponsored Program Activity**

**Major Funding Source**

**Fiscal Year 2003 through Fiscal Year 1999**

**SCHEDULE 2**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY BY MAJOR FUNDING SOURCE**  
(MEASURED BY EXPENDITURES INCURRED)  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1999**

FUNDING SOURCE / AGENCY	FY03		FY02		FY01		FY00		FY99	
	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	\$ 6,682,671	20.0%	\$ 5,903,544	18.2%	\$ 4,637,529	16.7%	\$ 3,435,243	12.9%	\$ 3,785,030	16.3%
U.S. Department Of The Navy	5,852,293	17.5%	5,547,421	17.1%	5,185,443	18.7%	4,216,137	15.8%	3,347,476	14.5%
National Science Foundation	3,868,420	11.6%	3,251,050	10.0%	2,506,105	9.0%	3,410,557	12.8%	2,750,723	11.9%
U.S. Department Of The Air Force	1,540,902	4.6%	566,387	1.7%	620,933	2.2%	931,396	3.5%	520,369	2.2%
U.S. Department Of Education	1,074,471	3.2%	1,153,110	3.6%	1,261,665	4.6%	547,994	2.1%	579,626	2.5%
U.S. Department Of Energy	1,003,245	3.0%	1,289,008	4.0%	985,468	3.5%	1,070,736	4.0%	1,289,848	5.6%
National Oceanic & Atmospheric Administration	429,678	1.3%	365,631	1.1%	323,697	1.2%	344,264	1.3%	381,702	1.6%
U.S. Department Of The Army	294,269	0.9%	300,869	0.9%	363,022	1.3%	195,831	0.7%	157,480	0.7%
U.S. Department Of Health & Human Services	285,304	0.9%	330,211	1.0%	253,925	0.9%	646,927	2.4%	599,658	2.6%
U.S. Environmental Protection Agency	245,196	0.7%	387,124	1.2%	560,687	2.0%	1,084,644	4.1%	280,326	1.2%
U.S. Department Of The Interior	111,506	0.3%	220,573	0.7%	217,857	0.8%	282,501	1.1%	263,961	1.1%
U.S. Department Of Commerce	-	0.0%	16,885	0.1%	33,405	0.1%	36,783	0.1%	396,451	1.7%
Other Federal	147,739	0.4%	114,735	0.4%	88,340	0.3%	196,129	0.7%	170,700	0.7%
<b>SUBTOTAL FEDERAL</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>\$ 14,523,350</b>	<b>62.7%</b>
<b>STATE &amp; LOCAL GOVERNMENT AND AGREEMENTS WITH OTHER UNIVERSITIES</b>										
Virginia Department Of Education	\$ 1,811,076	5.4%	\$ 2,007,712	6.2%	\$ 2,045,412	7.4%	\$ 1,257,574	4.7%	\$ 1,006,528	4.3%
Virginia Department Of Environmental Quality	932,240	2.8%	942,489	2.9%	1,245,636	4.5%	1,468,782	5.5%	964,126	4.2%
University Of Houston	530,669	1.6%	1,025,780	3.2%	-	0.0%	-	0.0%	-	0.0%
Center Innovative Technology	482,502	1.4%	551,129	1.7%	967,072	3.5%	994,517	3.7%	1,264,811	5.5%
University Of New Mexico	365,542	1.1%	343,023	1.1%	42,137	0.2%	41,182	0.2%	43,842	0.2%
Virginia Grad Marine Science	327,039	1.0%	410,115	1.3%	281,838	1.0%	308,051	1.2%	305,514	1.3%
Old Dominion University	314,777	0.9%	334,623	1.0%	131,504	0.5%	-	0.0%	-	0.0%
Virginia Marine Resources Commission	283,710	0.8%	309,155	1.0%	281,567	1.0%	280,070	1.1%	267,825	1.2%
George Mason University	234,115	0.7%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Virginia General Assembly	225,350	0.7%	340,117	1.0%	241,646	0.9%	319,794	1.2%	310,752	1.3%
Virginia Department Of Health	182,984	0.5%	448,560	1.4%	208,804	0.8%	119,599	0.4%	84,248	0.4%
Maryland Department Of Natural Resources	161,560	0.5%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
City Of Norfolk	133,045	0.4%	189,542	0.6%	187,184	0.7%	134,754	0.5%	38,459	0.2%
College Of William And Mary	132,616	0.4%	240,997	0.7%	179,476	0.6%	144,570	0.5%	148,332	0.6%
State Council Of Higher Education For Virginia	118,787	0.4%	202,980	0.6%	44,408	0.2%	6,895	0.0%	-	0.0%
University Of Michigan	109,358	0.3%	113,826	0.4%	55,119	0.2%	17,872	0.1%	96,972	0.4%
University Of Maryland	87,483	0.3%	104,615	0.3%	140,287	0.5%	151,356	0.6%	24,921	0.1%
Commonwealth Technology Research Fund	57,946	0.2%	338,030	1.0%	-	0.0%	-	0.0%	-	0.0%
Hampton Roads Partnership	-	0.0%	97,605	0.3%	209,987	0.8%	144,472	0.5%	93,357	0.4%
Other State & Local	1,187,985	3.5%	964,046	3.0%	1,125,808	4.1%	925,107	3.5%	610,495	3.5%
<b>SUBTOTAL STATE &amp; LOCAL</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>	<b>\$ 5,460,182</b>	<b>23.6%</b>

**SCHEDULE 2**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF SPONSORED PROGRAM ACTIVITY BY MAJOR FUNDING SOURCE**  
(MEASURED BY EXPENDITURES INCURRED)  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1999**

FUNDING SOURCE / AGENCY	FY03		FY02		FY01		FY00		FY99	
	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>										
Science Applications International Corp.	\$ 593,023	1.8%	\$ 417,194	1.3%	\$ -	0.0%	\$ -	0.0%	\$ -	0.0%
Northrup Grumman	351,742	1.1%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
Lifenet Transplant Services	171,324	0.5%	247,945	0.8%	421,551	1.5%	297,173	1.1%	235,170	1.0%
Lawrence Livermore	150,861	0.5%	469,442	1.4%	484,994	1.7%	435,807	1.6%	128,663	0.6%
A. L. Philpott Manufacturing	139,261	0.4%	145,211	0.4%	170,820	0.6%	180,584	0.7%	181,156	0.8%
LAM Industry Memberships	115,891	0.3%	-	0.0%	-	0.0%	-	0.0%	-	0.0%
National Collegiate Athletic Association	105,831	0.3%	113,157	0.3%	112,803	0.4%	13,010	0.0%	-	0.0%
American Diabetes Association	99,592	0.3%	112,053	0.3%	41,001	0.1%	-	0.0%	-	0.0%
VMASC Memberships	98,499	0.3%	57,240	0.2%	86,481	0.3%	152,205	0.6%	136,857	0.6%
Vigyan, Inc.	90,498	0.3%	100,606	0.3%	-	0.0%	-	0.0%	-	0.0%
Space Explorers, Inc.	71,833	0.2%	95,807	0.3%	144,144	0.5%	71,790	0.3%	-	0.0%
Accurate Automation Corp.	30,592	0.1%	123,554	0.4%	27,779	0.1%	11,624	0.0%	19,417	0.1%
Other Private Sponsors	2,253,635	6.7%	2,183,741	6.7%	1,861,698	6.7%	2,752,644	10.3%	2,478,723	10.7%
<b>SUBTOTAL PRIVATE</b>	<b>\$ 4,272,562</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>\$ 3,179,986</b>	<b>13.7%</b>
<b>TOTAL</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>	<b>\$ 23,163,518</b>	<b>100.0%</b>

**SCHEDULE 3**

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

**University Units**

**Fiscal Year 2003 through Fiscal Year 2001**

**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 2003 THROUGH FISCAL YEAR 2001**

	Fiscal Year 2003			Fiscal Year 2002			Fiscal Year 2001			
	TOTAL DIRECT COSTS	TOTAL PROJECT 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%	\$ 11,138	\$ -	0.0%	3.9%
Department of Communication and Theatre Arts	800	800	0.0%	-	-	0.0%	-	-	0.0%	0.0%
Department of English	7,954	7,954	0.0%	8,397	-	0.0%	6,503	-	0.0%	0.0%
Department of International Studies	-	-	0.0%	-	-	0.0%	-	-	0.0%	0.0%
Department of Music	1,000	1,000	0.0%	1,750	-	0.0%	3,500	-	0.0%	0.0%
Department of Political Science & Geography	52,944	72,209	36.4%	91,658	17,699	19.3%	79,728	7,317	9.2%	9.2%
Department of Sociology & Criminal Justice	215,356	258,148	19.9%	180,755	58,106	32.1%	110,797	34,940	31.5%	31.5%
Social Science Research Center	345,272	22,680	6.6%	420,077	61,842	14.7%	101,036	10,587	10.5%	10.5%
<b>COLLEGE OF ARTS &amp; LETTERS</b>	<b>\$ 623,326</b>	<b>\$ 708,063</b>	<b>13.6%</b>	<b>\$ 703,137</b>	<b>\$ 137,647</b>	<b>19.6%</b>	<b>\$ 312,762</b>	<b>\$ 53,279</b>	<b>17.0%</b>	<b>17.0%</b>
<b>COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION</b>										
Dean's Office	\$ -	\$ -	0.0%	\$ -	\$ -	0.0%	\$ 23,693	\$ 1,895	8.0%	8.0%
Bank of America Entrepreneurial Center	476,622	476,622	0.0%	342,992	-	0.0%	391,247	-	0.0%	0.0%
Department of Business Administration	9,612	9,612	0.0%	-	-	0.0%	-	-	0.0%	0.0%
Department of Economics	9,421	10,363	10.0%	9,943	994	10.0%	9,551	955	10.0%	10.0%
Department of Information Systems / Decision Sciences	12,083	16,553	37.0%	-	-	0.0%	-	-	0.0%	0.0%
International Maritime, Ports and Logistics Management Institute	-	-	0.0%	-	-	0.0%	-	-	0.0%	0.0%
Center for Urban Studies & Public Administration	115,580	147,257	27.4%	146,048	36,737	25.2%	3,009	1,279	42.5%	42.5%
<b>COLLEGE OF BUSINESS &amp; PUBLIC ADMINISTRATION</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>\$ 582,550</b>	<b>\$ 43,086</b>	<b>25.1%</b>	<b>25.1%</b>
<b>COLLEGE OF EDUCATION</b>										
Dean's Office	\$ 238,957	\$ 13,144	5.5%	\$ 317,129	\$ 16,499	5.2%	\$ 20,473	\$ 3,071	15.0%	15.0%
Cooperative Education	-	-	0.0%	-	-	0.0%	-	-	0.0%	0.0%
Department of Early Childhood, Speech Pathology, Special Ed	1,541,750	1,635,742	6.1%	1,681,457	91,838	5.5%	1,733,359	91,378	5.3%	5.3%
Department of Educational Curriculum & Instruction	343,501	362,222	5.5%	461,886	37,468	8.1%	486,054	25,650	5.3%	5.3%
Department of Educational Leadership & Counseling	66,476	10,905	16.4%	2,525	379	15.0%	240,326	-	0.0%	0.0%
Department of Exercise Science, Physical Education & Recreation	198,166	10,537	5.3%	256,925	7,664	3.0%	242,555	13,062	5.4%	5.4%
Department of Occupational & Technical Studies	8,908	9,274	4.1%	1,023	82	8.0%	6,507	521	8.0%	8.0%
<b>COLLEGE OF EDUCATION</b>	<b>\$ 2,397,758</b>	<b>\$ 2,545,423</b>	<b>6.2%</b>	<b>\$ 2,720,945</b>	<b>\$ 153,930</b>	<b>5.7%</b>	<b>\$ 2,764,050</b>	<b>\$ 134,731</b>	<b>4.9%</b>	<b>4.9%</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 2003 THROUGH FISCAL YEAR 2001**

	Fiscal Year 2003			Fiscal Year 2002			Fiscal Year 2001		
	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>COLLEGE OF ENGINEERING</b>									
Dean's Office	\$ 332,238	\$ 55,553	0.0%	\$ 387,791	\$ 62,187	0.0%	\$ 430,544	\$ 66,486	0.0%
Department of Aerospace Engineering	29,223	9,241	16.7%	38,464	-	12.9%	-	-	15.4%
Department of Aerospace Engineering - SSRP	674,236	118,639	31.6%	792,875	108,822	16.7%	735,613	125,406	0.0%
Applied Research Center	1,503,113	222,759	17.6%	1,725,872	135,989	14.8%	1,359,889	54,383	19.3%
Center for Advanced Engineering Environments	1,220,043	284,167	14.8%	1,504,210	57,722	21.1%	211,534	-	37.5%
Center for Biometrics	366,964	71,693	19.5%	438,657	113,566	23.4%	558,049	130,991	23.5%
Department of Civil & Environmental Engineering	1,052,512	197,109	18.7%	1,249,621	344,584	26.0%	1,410,183	313,135	22.2%
Department of Electrical & Computer Engineering	-	-	0.0%	-	-	0.0%	19,575	-	0.0%
Department of Electrical & Computer Engineering - SSRP	186,998	29,008	15.5%	216,006	73,457	19.8%	289,057	58,585	20.3%
Department of Engineering Management	764,781	115,025	15.0%	879,806	150,042	17.8%	887,113	185,379	20.9%
Department of Mechanical Engineering	182,623	54,203	28.1%	246,826	41,701	16.9%	122,954	31,550	25.7%
Department of Engineering Technology	380,452	37,955	10.0%	418,407	63,178	20.4%	304,050	25,195	8.3%
Technology Applications Center	4,779,438	1,208,412	25.3%	5,987,850	1,055,713	23.6%	3,149,063	716,546	22.8%
Virginia Modeling, Analysis and Simulation Center	\$ 11,482,621	\$ 2,403,764	20.9%	\$ 13,886,385	\$ 2,206,961	22.1%	\$ 8,137,470	\$ 1,707,656	21.0%
<b>COLLEGE OF ENGINEERING</b>									
<b>COLLEGE OF HEALTH SCIENCES</b>									
School of Community & Environmental Health	\$ 19,643	\$ 4,352	22.2%	\$ 23,995	\$ 5,490	30.005%	\$ -	\$ -	0.0%
School of Dental Hygiene	21,236	3,567	16.8%	24,803	2,758	20.020%	5,349	904	16.9%
School of Nursing	-	-	0.0%	-	3,668	4.769	12,587	3,756	29.8%
<b>COLLEGE OF HEALTH SCIENCES</b>									
<b>COLLEGE OF SCIENCES</b>									
Department of Biological Sciences	\$ 2,310,985	\$ 497,355	21.5%	\$ 2,808,340	\$ 400,781	26.352%	\$ 1,888,121	\$ 422,157	22.4%
Center for Biotechnology	137,059	34,265	25.0%	171,324	49,589	28.936%	349,659	84,310	24.1%
Center for Computational Science	205,633	68,918	33.5%	274,551	237,899	86.709%	-	-	0.0%
Center for Coastal Physical Oceanography	747,861	248,883	33.3%	996,744	307,145	30.719%	687,769	201,320	29.3%
Center for Coastal Physical Oceanography - SSRP	323,023	101,302	31.4%	424,325	100,550	23.700%	452,279	171,511	37.9%
Department of Chemistry and Biochemistry	689,407	165,017	23.9%	854,424	243,141	28.457%	730,976	200,648	27.4%
Department of Chemistry and Biochemistry - SSRP	-	-	0.0%	-	-	0.0%	4,042	1,650	40.8%
Department of Computer Sciences	722,122	161,509	22.4%	883,631	237,718	26.939%	859,749	247,494	28.8%
Department of Mathematics & Statistics	170,968	47,931	28.0%	218,899	59,376	27.124%	208,061	57,084	27.4%
Department of Mathematics & Statistics - SSRP	269,354	70,032	26.0%	339,386	54,762	16.136%	116,156	30,200	26.0%
Department of Ocean, Earth & Atmospheric Sciences	1,147,461	326,457	28.5%	1,473,918	381,095	25.836%	1,288,624	382,682	29.7%
Department of Ocean, Earth & Atmospheric Sciences - SSRP	168,366	41,627	24.7%	209,993	94,676	45.131%	1,974	839	42.5%
Department of Physics	534,048	178,736	33.5%	712,784	228,027	32.130%	496,739	164,643	33.1%
Department of Psychology	669,541	158,945	23.7%	828,486	191,016	23.049%	535,515	99,041	18.5%
Applied Marine Research Laboratory	-	-	0.0%	-	-	0.0%	32,140	7,217	22.5%
<b>COLLEGE OF SCIENCES</b>									
	\$ 8,095,828	\$ 2,100,977	26.0%	\$ 10,196,805	\$ 2,219,305	21.722%	\$ 7,651,804	\$ 2,070,796	27.1%

**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 2003 THROUGH FISCAL YEAR 2001**

	Fiscal Year 2003			Fiscal Year 2002			Fiscal Year 2001		
	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>OFFICE OF RESEARCH AND OTHER UNIVERSITY ACTIVITY</b>									
Office of Research	\$ 1,037,437	\$ 127,255	12.3%	\$ 1,209,667	\$ 212,059	17.5%	\$ 723,018	\$ 112,120	15.5%
CHROME	77,618	4,538	6.0%	45,855	5,076	11.1%	-	-	0.0%
Library	1,111	466	41.9%	2,268	953	42.0%	1,214	510	42.0%
Distance Learning	241,185	31,054	12.9%	272,239	-	0.0%	-	-	0.0%
Student Services	5,815	-	0.0%	5,963	-	0.0%	20,969	1,466	7.0%
Engineering Center Management and Advising Center	-	1,021	0.0%	14,966	-	0.0%	13,081	2,424	18.5%
Other University Units	18,015	-	5.7%	1,023	82	8.0%	28,153	-	0.0%
<b>OFFICE OF RESEARCH AND OTHER</b>	<b>\$ 1,391,181</b>	<b>\$ 164,434</b>	<b>11.9%</b>	<b>\$ 1,279,742</b>	<b>\$ 218,170</b>	<b>17.0%</b>	<b>\$ 786,435</b>	<b>\$ 116,520</b>	<b>14.8%</b>
<b>TOTAL UNIVERSITY ACTIVITY</b>	<b>\$ 24,644,911</b>	<b>\$ 4,946,585</b>	<b>20.1%</b>	<b>\$ 24,066,785</b>	<b>\$ 4,983,093</b>	<b>20.7%</b>	<b>\$ 20,253,007</b>	<b>\$ 4,130,728</b>	<b>20.4%</b>
<b>OTHER ACTIVITIES: SEPARATE ENTITIES AND AFFILIATED UNITS</b>									
Virginia Commercial Space Flight Authority	\$ 1,030,538	\$ 71,205	6.9%	\$ 747,170	\$ 20,581	2.8%	\$ 591,745	\$ 24,133	4.1%
Virginia Space Grant Consortium	2,023,998	232,651	11.5%	1,929,864	251,663	13.0%	1,552,145	229,823	14.8%
Virginia Tidewater Consortium for Higher Education	392,213	31,054	7.9%	370,098	28,836	7.8%	389,892	27,732	7.1%
Center for Advanced Ship Repair & Maintenance	-	-	0.0%	-	-	0.0%	442,988	17,043	3.8%
National University Teleconference Network	74,233	12	0.0%	67,340	1	0.0%	52,375	2	0.0%
Center for Public/Private Partnership	-	-	0.0%	(11,710)	-	0.0%	58,694	-	0.0%
Association for Consortium Leadership	38,337	1,533	4.0%	22,501	900	4.0%	25,909	1,036	4.0%
<b>OTHER ENTITIES AND AFFILIATED UNITS</b>	<b>\$ 3,559,319</b>	<b>\$ 336,455</b>	<b>9.5%</b>	<b>\$ 3,129,263</b>	<b>\$ 301,981</b>	<b>9.7%</b>	<b>\$ 3,113,748</b>	<b>\$ 299,769</b>	<b>9.6%</b>
<b>GRAND TOTAL</b>	<b>\$ 28,204,230</b>	<b>\$ 5,283,040</b>	<b>18.7%</b>	<b>\$ 27,192,048</b>	<b>\$ 5,285,074</b>	<b>19.4%</b>	<b>\$ 23,366,755</b>	<b>\$ 4,430,497</b>	<b>19.0%</b>

SSRP= self supporting research program

**SCHEDULE 4**

**Sponsored Program Activity**

**Individual Project Listing**

**Fiscal Year 2003**



**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
 (MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2003**

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>ARTS AND LETTERS</b>													
English													
511001	CITY OF VIRGINIA BEACH	PEARSON, M.	-	103	-	-	-	103	-	-	-	103	SSRC
523601	CITY OF NORFOLK	PEARSON, M.	-	1,351	-	(10)	-	1,351	-	-	-	1,351	SSRC
523081	VA COMMISSION OF THE ARTS	RAISOR, P.	-	1,000	-	-	-	1,000	-	-	-	1,000	SSRC
523611	CITY OF NORFOLK	RAISOR, P.	-	5,000	-	-	-	5,000	-	-	-	5,000	SSRC
530111	VA COMMISSION OF THE ARTS	RAISOR, P.	-	250	-	-	-	250	-	-	-	250	SSRC
530112	VA COMMISSION OF THE ARTS	RAISOR, P.	-	250	-	-	-	250	-	-	-	250	SSRC
523631	CITY OF NORFOLK	ZEISLER, D.	-	7,954	-	(10)	-	7,954	-	-	-	7,954	0.00%
523631	CITY OF NORFOLK	ZEISLER, D.	-	1,000	-	-	-	1,000	-	-	-	1,000	0.00%
523631	CITY OF NORFOLK	ZEISLER, D.	-	1,000	-	-	-	1,000	-	-	-	1,000	0.00%
513371	Political Science and Geography	ALLEN, T.	11,687	3,481	-	-	-	15,168	6,371	-	-	21,539	SSRC
523881	GEORGE MASON UNIVERSITY	ALLEN, T.	24,524	6,110	5,444	1,360	-	37,438	12,867	-	-	50,305	SSRC
301591	US DEPT OF EDUCATION	DRAKE, C.	31	307	-	-	-	338	27	-	-	365	SSRC
36242			9,698	5,444	-	1,360	-	52,944	19,285	-	-	72,209	36.39%
320841	Sociology and Criminal Justice	WHITAKER, I.	1,905	60	-	1,775	-	3,740	157	-	-	3,897	SSRC
300871	NATL SCIENCE FOUNDATION	YANG, X.	70,620	30,891	-	110,105	-	211,616	42,635	-	-	254,251	SSRC
72525	US PUBLIC HEALTH SERVICE		30,851	-	-	111,880	-	215,356	42,792	-	-	258,148	19.87%
800	Communication and Theatre Arts	HANNA, C.	-	800	-	-	-	800	-	-	-	800	0.00%
800	CITY OF NORFOLK		-	800	-	-	-	800	-	-	-	800	0.00%
<b>Social Science Research Center</b>													
505141	VA EAST SHORE ECON EMPOW HOU	HARLOW, J.	-	-	-	762	-	762	153	-	-	915	SSRC
511661	ODU	HARLOW, J.	3,350	462	-	-	-	1,601	1,601	-	-	5,413	SSRC
514361	CITY OF NORFOLK	HARLOW, J.	24	-	-	180	-	204	11	-	-	215	SSRC
514672	VA DEPT OF EDUCATION	HARLOW, J.	-	-	-	1	-	1	-	-	-	1	SSRC
520701	ODU	HARLOW, J.	-	-	-	755	-	755	317	-	-	1,072	SSRC
521001	ODU	HARLOW, J.	24,690	624	-	49,059	-	74,373	1,787	-	-	76,160	SSRC
523561	CITY OF NORFOLK	HARLOW, J.	-	20	-	57	-	77	16	-	-	93	SSRC
523571	CITY OF VIRGINIA BEACH	HARLOW, J.	-	232	-	240	-	472	94	-	-	566	SSRC
523581	ODU	HARLOW, J.	-	(410)	-	85	-	(325)	(17)	-	-	(342)	SSRC
523591	ODU	HARLOW, J.	58,399	6,479	-	45,023	-	109,901	4,495	-	-	114,396	SSRC
523921	ODU	HARLOW, J.	-	-	-	484	-	484	204	-	-	688	SSRC
524043	VA DEPT OF EDUCATION	HARLOW, J.	12,151	3,482	-	-	-	15,633	1,094	-	-	16,727	SSRC
524091	CITY OF VIRGINIA BEACH	HARLOW, J.	-	-	-	1,405	-	1,405	309	-	-	1,714	SSRC
530061	ODU	HARLOW, J.	3,997	237	-	2,830	-	7,064	1,836	-	-	8,900	SSRC
530611	CITY OF VIRGINIA BEACH	HARLOW, J.	2,431	335	-	16	-	2,782	1,169	-	-	3,951	SSRC
530911	CITY OF NORFOLK	HARLOW, J.	328	231	-	554	-	1,113	78	-	-	1,191	SSRC
531331	ODU	HARLOW, J.	11,629	3,564	-	4,952	-	20,145	1,007	-	-	21,152	SSRC
533281	ODU	HARLOW, J.	4,212	-	-	-	-	4,212	1,263	-	-	5,475	SSRC
533291	EASTERN SHORE COMMUNITY COLLEGI	HARLOW, J.	2,802	292	-	-	-	3,094	465	-	-	3,559	SSRC
533301	ODU	HARLOW, J.	30,745	2,346	-	36,000	-	69,091	2,904	-	-	71,995	SSRC
533431	CITY OF NORFOLK	HARLOW, J.	813	33	-	-	-	846	186	-	-	1,032	SSRC
534039	NORFOLK STATE UNIVERSITY	HARLOW, J.	6,298	3,100	-	-	-	630	265	-	-	895	SSRC
534221	ODU	HARLOW, J.	-	-	-	7,132	-	7,132	470	-	-	7,602	SSRC
715771	EMPOWERMEN 2010 INC	HARLOW, J.	-	-	-	83	-	83	255	-	-	338	SSRC
724031	UMC COUNCIL OF MINISTRIES	HARLOW, J.	5,551	141	-	1,701	-	5,692	1,138	-	-	6,830	SSRC
730071	CITY OF VIRGINIA BEACH	HARLOW, J.	1,771	40	-	172	-	1,983	297	-	-	2,280	SSRC
730531	UMC COUNCIL OF MINISTRIES	HARLOW, J.	2,835	-	-	-	-	2,835	1,190	-	-	4,025	SSRC
733261	WESTAT INC	HARLOW, J.	172,656	21,208	-	151,408	-	345,272	22,680	-	-	367,952	6.57%
<b>TOTAL ARTS AND LETTERS</b>			<b>\$ 281,423</b>	<b>\$ 71,821</b>	<b>\$ 5,444</b>	<b>\$ 264,638</b>	<b>\$ 623,326</b>	<b>\$ 84,737</b>	<b>\$</b>	<b>\$</b>	<b>\$ 708,063</b>	<b>13.59%</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 2003**

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>														
514961	Bank of America Entrepreneurial Center	ACKERMAN, D.	(849)	-	-	-	(849)	-	-	(849)	-	-	3,562	
514962	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	-	-	-	3,562	3,562	-	-	3,562	-	-	(3,204)	
521741	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	(3,204)	-	-	-	(3,204)	-	-	(3,204)	-	-	1,492	
521742	PRIVATE SPONSORS	ACKERMAN, D.	3,204	-	-	-	3,204	-	-	3,204	-	-	2,858	
524242	PERSYS TECHNOLOGY	ACKERMAN, D.	1,492	-	-	-	1,492	-	-	1,492	-	-	2,024	
524243	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	2,858	-	-	-	2,858	-	-	2,858	-	-	1,020	
524251	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	2,024	-	-	-	2,024	-	-	2,024	-	-	89,989	
524252	ECHOSTORM LLC	ACKERMAN, D.	1,020	-	-	-	1,020	-	-	1,020	-	-	5,500	
524311	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	89,989	-	-	-	89,989	-	-	89,989	-	-	3,000	
524312	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	5,500	-	-	-	5,500	-	-	5,500	-	-	1,500	
524731	CENTER INNOVATIVE TECHNOLOGY	ACKERMAN, D.	-	3,000	-	-	3,000	-	-	3,000	-	-	5,000	
524732	PRIVOLING	ACKERMAN, D.	-	1,500	-	-	1,500	-	-	1,500	-	-	17,664	
530571	HAMPTON ROADS CHAMBER OF COMMERCE	ACKERMAN, D.	-	-	-	2,312	2,312	-	-	2,312	-	-	107,655	
572012	PRIVATE SPONSORS	ACKERMAN, D.	2,688	-	-	-	2,688	-	-	2,688	-	-	160,376	
572020	PRIVATE SPONSORS	ACKERMAN, D.	84,862	-	-	-	84,862	-	-	84,862	-	-	39,547	
572030	PRIVATE SPONSORS	ACKERMAN, D.	150,930	-	-	-	150,930	-	-	150,930	-	-	17,996	
572040	PRIVATE SPONSORS	ACKERMAN, D.	9,446	-	-	-	9,446	-	-	9,446	-	-	18,278	
731151	RESOURCE CONSULTANTS INC	ACKERMAN, D.	38,258	-	-	-	38,258	-	-	38,258	-	-	476,622	
532011	CENTER INNOVATIVE TECHNOLOGY	BYRUM, F.	15,836	-	-	-	15,836	-	-	15,836	-	-	12,083	
			412,898	57,850	-	5,874	476,622	-	-	476,622	-	-	4,470	0.00%
<b>Information Technology &amp; Decision Sciences</b>														
324121	* NATL SCIENCE FOUNDATION	MANN, J.	11,888	195	-	-	12,083	-	-	12,083	4,470	-	16,553	
			11,888	195	-	-	12,083	-	-	12,083	4,470	-	16,553	36.99%
<b>Business Administration</b>														
532311	BRADLEY UNIVERSITY	MARLETT, D.	9,220	392	-	-	9,612	-	-	9,612	-	-	9,612	0.00%
			9,220	392	-	-	9,612	-	-	9,612	-	-	9,612	0.00%
<b>Economics</b>														
762040	ARTHUR POLIZOS & ASSOC	SCHWARZ-MILLER,	8,035	1,386	-	-	9,421	-	-	9,421	942	-	10,363	
			8,035	1,386	-	-	9,421	-	-	9,421	942	-	10,363	10.00%
<b>Urban Studies / Public Administration</b>														
531531	* VA DEPT OF PROF & OCCUP REGULAT	GIBSON, P	4,763	319	-	-	5,082	-	-	5,082	2,134	-	7,216	
522681	CITY OF PORTSMOUTH	KIEFFER, J.	2,182	-	-	(495)	1,687	-	-	1,687	439	-	2,126	
522971	CITY OF PORTSMOUTH	KIEFFER, J.	6,090	2,546	-	1,865	10,501	-	-	10,501	2,730	-	13,231	
521771	CITY OF NORFOLK	KIEFFER, J.	89,384	3,884	-	-	93,228	-	-	93,228	24,240	-	117,468	
531531	* VA DEPT OF PROF & OCCUP REGULAT	LOMBARD, J.	4,762	320	-	-	5,082	-	-	5,082	2,134	-	7,216	
			107,191	7,019	-	1,370	115,580	-	-	115,580	31,677	-	147,257	
<b>TOTAL BUSINESS AND PUBLIC ADMINISTRATION</b>			<b>\$ 549,232</b>	<b>\$ 66,842</b>	<b>\$ -</b>	<b>\$ 7,244</b>	<b>\$ 623,318</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 623,318</b>	<b>\$ 37,089</b>	<b>\$ -</b>	<b>\$ 660,407</b>	<b>5.95%</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 2003**

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>EDUCATION</b>											
Dean's Office											
505002	VA DEPT OF EDUCATION	GRAVES, W.	1,550	23,245	-	12,243	-	37,038	-	-	37,038
504121	COLLEGE OF WILLIAM AND MARY	HEINE, P.	10,764	5,201	-	-	-	15,965	1,278	-	17,243
504131	COLLEGE OF WILLIAM AND MARY	HEINE, P.	9,362	2,375	-	-	-	11,737	-	-	11,737
773881	DEWITT WALLACE READERS DIGEST	HEINE, P.	-	5,534	-	-	-	5,534	830	-	6,364
511552	VA DEPT OF EDUCATION	MELO, M.	109,713	35,499	23,451	-	168,663	11,036	-	-	179,699
			131,409	71,854	23,451	12,243	238,957	13,144	-	-	252,101
											5.50%
<b>Educational Curriculum and Instruction</b>											
303281	US DEPT OF EDUCATION	ALLEN, D.	130,442	35,263	3,354	119,575	288,634	13,256	-	-	301,890
721631	AM COUNCIL OF TEACHERS OF RUSSIA	ALLEN, D.	1,373	7,987	-	4,584	13,944	982	-	-	14,926
521411	UNIV OF SOUTH FLORIDA	FRAZIER, W.	934	-	-	150	1,084	-	-	-	1,084
304531	VIRGINIA COMMONWEALTH UNIV	MCKINNEY, S.	8,525	-	-	-	8,525	682	-	-	9,207
320841	NATL SCIENCE FOUNDATION	MORGAN, R.	7,091	216	-	4,829	12,136	3,069	-	-	15,205
733241	NATL SCIENCE FOUNDATION	WOLFE, D.	8,875	281	-	8,272	17,428	732	-	-	18,160
	FIRST PRESBYTERIAN CHURCH	WOLFE, D.	1,745	-	-	5	1,750	-	-	-	1,750
			158,985	43,747	3,354	137,415	343,501	18,721	-	-	362,222
											5.45%
<b>Occupational and Technical Studies</b>											
320841	NATL SCIENCE FOUNDATION	NDABI, H.	4,440	140	-	4,139	8,719	366	-	-	9,085
723361	COUNCIL ON TECHNOLOGY TEACHERS	NDABI, H.	-	189	-	-	189	-	-	-	189
			4,440	329	-	4,139	8,908	366	-	-	9,274
											4.11%
<b>Exercise Science, Physical Education and Recreation</b>											
723251	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	3,234	27,587	-	563	31,384	-	-	-	31,384
723261	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	10,436	22,828	-	(241)	33,023	-	-	-	33,023
732961	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	1,222	20,377	-	-	21,599	-	-	-	21,599
732971	NATL COLLEGIATE ATHLETIC ASSOC	CASE, R.	19,825	19,825	-	-	19,825	-	-	-	19,825
708201	AMERICAN DIABETES ASSOCIATION	COLBERG, S.	15,764	7,699	-	16,223	39,686	4,769	-	-	44,455
705202	AMERICAN DIABETES ASSOCIATION	COLBERG, S.	14,716	3,990	8,913	21,750	49,369	5,768	-	-	55,137
324101	US DEPT OF AGRICULTURE	GOMEZ, E.	3,280	-	-	-	3,280	-	-	-	3,280
			48,652	102,306	8,913	38,295	198,166	10,537	-	-	208,703
											5.32%
<b>Early Childhood, Speech Language Pathology and Special Education</b>											
521381	UNIV OF SOUTH FLORIDA	ABRAHAMSEN, E.	-	687	-	-	687	-	-	-	687
514741	VA DEPT OF EDUCATION	GABLE, R.	17,062	142	4,105	-	21,309	1,204	-	-	22,513
520811	VA DEPT OF EDUCATION	GABLE, R.	-	-	-	211	211	17	-	-	228
523741	VA DEPT OF EDUCATION	GABLE, R.	164,694	51,388	-	-	216,082	15,125	-	-	231,207
531271	VA DEPT OF EDUCATION	GABLE, R.	49,303	57,862	-	-	107,165	8,575	-	-	115,760
533131	VA DEPT OF EDUCATION	GABLE, R.	3,421	3,616	-	11,459	18,496	563	-	-	19,059
593553	UNIV OF FLORIDA	LAMBERT, K.	164,200	51,235	-	-	215,435	15,081	-	-	230,516
593554	UNIV OF FLORIDA	RAYMER, A.	30,862	7,760	-	1,400	40,042	16,230	-	-	56,272
514671	VA DEPT OF EDUCATION	RAYMER, A.	1,626	66	-	-	1,692	710	-	-	2,402
520721	VA DEPT OF EDUCATION	TONELSON, S.	14,616	24	-	9,403	24,043	1,025	-	-	25,068
523741	VA DEPT OF EDUCATION	TONELSON, S.	1,129	3,163	-	192,306	196,598	301	-	-	196,899
524041	VA DEPT OF EDUCATION	TONELSON, S.	164,200	51,235	-	-	215,435	15,081	-	-	230,516
532351	VA DEPT OF EDUCATION	TONELSON, S.	230,804	56,051	3,470	188,025	478,350	20,080	-	-	498,430
521381	UNIV OF SOUTH FLORIDA	TONELSON, S.	-	686	4,415	-	4,415	-	-	-	4,415
521411	UNIV OF SOUTH FLORIDA	WATSON, S.	934	-	-	150	686	-	-	-	686
			842,871	283,935	11,990	402,954	1,541,750	93,992	-	-	1,635,742
											6.10%
<b>Educational Leadership &amp; Counseling</b>											
730131	ONEILL FOUNDATION	ERICKSON, K.	15,636	-	-	1	15,637	6,567	-	-	22,204
130731	NATL ASSOC FOR FOREIGN STUDENT A	JURGENS, J.	1,002	679	-	22,366	23,045	-	-	-	23,045
730131	NASA-LANGLEY RESEARCH CENTER	MCALIFFE, G.	-	-	-	-	1,737	730	-	-	2,467
721421	DEWITT WALLACE READERS DIGEST	MUNNERY, J.	24,055	-	-	1,000	25,055	3,608	-	-	28,663
			42,430	679	-	23,367	66,476	10,905	-	-	77,381
			1,228,787	502,850	47,708	618,413	2,397,758	147,665	-	-	2,545,423
											6.16%

**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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**FOR FISCAL YEAR 2003**

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			
<b>ENGINEERING AND TECHNOLOGY</b>												
Civil and Environmental Engineering												
203401	ARMY CORP/ENGR-NORFOLK	BASCO, D.	-	-	-	1,994	-	-	-	-	1,994	
210991	US ARMY	BASCO, D.	-	-	4	-	-	(38)	-	-	(34)	
732241	BEACH CONSULTANTS	BASCO, D.	2,110	-	-	2,110	-	169	-	-	2,279	
514991	CENTER INNOVATIVE TECHNOLOGY	ERTEN-UNAL, M.	2,822	-	-	2,822	-	-	-	-	2,822	
523701	CITY OF NEWPORT NEWS	ERTEN-UNAL, M.	6,636	326	-	1,432	8,394	2,183	-	-	10,577	
193411	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	9,409	530	-	4,142	9,939	2,584	-	-	12,523	ARC
514201	CITY OF NEWPORT NEWS	HARRELL, L.	-	-	-	345	-	144	-	-	5,882	
714561	HDR ENGINEERING INC	HARRELL, L.	-	-	-	345	-	144	-	-	489	
524351	VA TRANSPORTATION RESEARCH CENTER	ISHIBASHI, I.	3,475	486	-	3,475	5,342	1,992	-	-	7,334	
111841	NASA-LANGLEY RESEARCH CENTER	NGUYEN, D.	28,721	12,601	1,873	1,381	43,195	10,743	-	-	53,938	
311911	US ENVIRON PROTECTION AGENCY	SCHAFFRAN, G.	42,228	19,033	76,950	62,959	201,170	25,730	-	-	226,900	
514291	VA INST OF MARINE SCIENCE	SCHAFFRAN, G.	20,857	7,472	2,796	31,225	8,046	-	-	-	39,271	
514451	CENTER INNOVATIVE TECHNOLOGY	SCHAFFRAN, G.	(562)	-	-	-	(562)	-	-	-	(562)	
514991	CENTER INNOVATIVE TECHNOLOGY	YOON, J.	2,831	-	-	2,831	-	-	-	-	2,831	
524351	VA TRANSPORTATION RESEARCH CENTER	YOON, J.	31,276	4,374	12,428	48,078	17,925	-	-	-	66,003	
731121	BEACH CONSULTANTS	YOON, J.	3,817	-	-	3,825	-	306	-	-	4,131	
732241	BEACH CONSULTANTS	YOON, J.	2,110	-	-	2,110	-	169	-	-	2,279	
			155,830	44,822	78,923	87,489	366,964	71,693	-	-	438,657	19.54%
<b>Electrical and Computer Engineering</b>												
123191	NASA-LANGLEY RESEARCH CENTER	ALBIN, S.	52,316	3,210	-	5,140	60,666	15,268	-	-	75,934	
324451	NAVY ENGR LOGISTICS OFFICE	ASARI, V.	4,822	-	4,328	-	8,950	1,941	-	-	10,891	
504933	CENTER INNOVATIVE TECHNOLOGY	ASARI, V.	1,455	-	-	-	1,455	-	-	-	1,455	TAC
504934	SEACOM	ASARI, V.	2,134	-	-	529	2,663	692	-	-	3,355	TAC
104141	NASA-LANGLEY RESEARCH CENTER	BELFORE, L.	4,221	1,060	-	2,077	7,358	1,913	-	-	9,271	
722191	LOYOLA ENTERPRISES	BELFORE, L.	8,142	201	-	253	8,396	3,610	-	-	12,006	
132521	NASA-LANGLEY RESEARCH CENTER	ELSAVED-ALI	-	125	-	-	125	-	-	-	125	
112611	NASA-LANGLEY RESEARCH CENTER	ELSAVED-ALI, H.	-	2,793	-	20,544	23,337	-	-	-	23,337	
120331	NASA-LANGLEY RESEARCH CENTER	ELSAVED-ALI, H.	1,884	69	-	583	2,536	659	-	-	3,195	
301391	NATL SCIENCE FOUNDATION	ELSAVED-ALI, H.	45,912	5,576	6	51,494	21,624	73,118	-	-	73,118	
312811	NATL SCIENCE FOUNDATION	ELSAVED-ALI, H.	3,049	-	1,767	-	4,816	6,097	-	-	10,913	
363411	US DEPT OF ENERGY	ELSAVED-ALI, H.	45,738	14,988	6,577	67,313	34,852	102,165	-	-	102,165	ARC
363412	US DEPT OF ENERGY	ELSAVED-ALI, H.	16,836	3,337	6,289	26,462	8,472	34,934	-	-	34,934	
573764	CONTROLS CORP OF AMER	GERDIN, G.	-	-	-	7	-	-	-	-	23	
101831	NASA-LANGLEY RESEARCH CENTER	GONZALEZ, O.	62,894	3,952	-	-	66,846	17,379	-	-	84,225	
132161	NASA-LANGLEY RESEARCH CENTER	GONZALEZ, O.	126	-	-	126	-	32	-	-	158	
321761	NATL SCIENCE FOUNDATION	GONZALEZ, O.	16,850	-	-	-	16,850	7,078	-	-	23,928	
101831	NASA-LANGLEY RESEARCH CENTER	GRAY, W.	62,893	3,952	-	-	66,845	17,380	-	-	84,225	
132161	NASA-LANGLEY RESEARCH CENTER	GRAY, W.	125	-	-	-	125	33	-	-	158	
321761	NATL SCIENCE FOUNDATION	GRAY, W.	16,851	-	-	-	16,851	7,077	-	-	23,928	
113251	NASA-LANGLEY RESEARCH CENTER	JOSHI, R.	2,555	582	-	3,137	10,368	2,696	-	-	13,064	
122231	NASA-LANGLEY RESEARCH CENTER	JOSHI, R.	10,368	-	-	-	10,368	2,696	-	-	13,064	
203541	ARMY RESEARCH OFFICE	JOSHI, R.	19,157	3,348	2,500	25,005	20,817	17,022	-	-	34,458	
214981	AIR FORCE OFFICE SCI RES	JOSHI, R.	27,420	2,381	165,608	12,768	208,177	12,363	-	-	225,199	
500101	UNIVERSITY OF NEW MEXICO	JOSHI, R.	8,706	-	-	8,706	-	3,657	-	-	12,363	
514773	CENTER INNOVATIVE TECHNOLOGY	MCKENZIE, F.	4,388	-	-	-	4,388	-	-	-	4,388	TAC
514774	FOUNDATION FOR SPECIALIZED SUR	MCKENZIE, F.	4,289	-	-	2,600	6,889	1,801	-	-	8,690	TAC
524759	CENTER INNOVATIVE TECHNOLOGY	MCKENZIE, F.	3,384	328	-	-	3,712	-	-	-	3,712	TAC
524760	FOUNDATION FOR SPECIALIZED SUR	MCKENZIE, F.	3,474	-	-	-	3,474	1,459	-	-	4,933	TAC
2900351	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	-	-	-	(243)	-	-	-	-	(243)	
110981	NASA-LANGLEY RESEARCH CENTER	VAHALA, L.	3,443	2,037	-	17,298	22,778	1,425	-	-	24,203	
213971	AIR FORCE OFFICE SCI RES	VAHALA, L.	1,841	2,786	2,478	-	7,105	1,944	-	-	9,049	
351161	US DEPT OF ENERGY	VAHALA, L.	-	3,545	-	-	3,545	1,418	-	-	4,963	
103222	NASA-LANGLEY RESEARCH CENTER	ZAHORIAN, S.	-	3,488	-	20,696	24,184	-	-	-	24,184	
300861	NATL SCIENCE FOUNDATION	ZAHORIAN, S.	-	125	-	30,000	30,125	-	-	-	30,125	
301381	US DEPT OF EDUCATION	ZAHORIAN, S.	2,488	4,273	113,251	120,012	120,012	-	-	-	120,012	
322311	NATL SCIENCE FOUNDATION	ZAHORIAN, S.	3,508	2,488	71,125	397	75,030	1,474	-	-	76,504	
322661	NATL SCIENCE FOUNDATION	ZAHORIAN, S.	1,006	-	-	1,006	-	-	-	-	1,006	
392611	NATL SCIENCE FOUNDATION	ZAHORIAN, S.	32,224	2,624	88	34,936	49,573	14,637	-	-	49,573	
723521	VA MICROELECTRONICS CONSORTIUM	ZAHORIAN, S.	20,219	3,059	3,479	26,757	-	-	-	-	26,757	
			492,030	66,064	268,518	225,900	1,052,512	197,100	9	-	1,249,621	18.73%

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



SCHEDULE 4

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT  
(MEASURED BY EXPENDITURES INCURRED)  
FOR FISCAL YEAR 2003

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	SUPPLIES CONTRACTUAL GENERAL & TRAVEL	PROJECT DIRECT COST			PROJECT IDC AND FEES			TOTAL PROJECT COSTS	EFFECTIVE INDIRECT COST RATE	CENTER
					EQUIPMENT	SUBCONTRACTS CONSTRUCTION OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES				
<b>Mechanical Engineering</b>													
122221	NASA-LANGLEY RESEARCH CENTER	BAO, H.	23,505	771	-	24,276	-	6,311	-	-	30,587	-	
192891	NASA-LANGLEY RESEARCH CENTER	BAO, H.	-	27	-	-	(27)	-	-	-	-	-	TAC
524764	BIOMX	BAWAB, S.	502	-	-	502	-	211	-	-	713	-	
721141	NEWPORT NEWS SHIPBUILDING	BAWAB, S.	32,389	1,040	-	33,429	-	8,691	-	-	42,120	-	
103361	NASA-LANGLEY RESEARCH CENTER	HOU, G.	14,408	-	-	14,408	-	3,746	-	-	18,154	-	
103851	NASA-LANGLEY RESEARCH CENTER	HOU, G.	33,766	207	-	33,973	-	8,833	-	-	42,806	-	
514781	CENTER INNOVATIVE TECHNOLOGY	HOU, G.	3,562	-	-	3,562	-	-	-	-	3,562	-	TAC
514782	NOVA CHEMICALS INC	HOU, G.	15,812	277	-	16,089	-	4,183	-	-	20,272	-	TAC
524757	CENTER INNOVATIVE TECHNOLOGY	HOU, G.	1,339	-	-	1,339	-	-	-	-	1,339	-	TAC
524758	NOVA CHEMICALS INC	HOU, G.	6,300	-	-	6,300	-	1,638	-	-	7,938	-	TAC
112621	NASA-LANGLEY RESEARCH CENTER	HUANG, J.	8,554	1,930	-	10,484	21,380	-	-	-	32,864	-	
723101	CRAFT ENGINEERING ASSOCIATES	HUANG, J.	11,262	-	-	11,262	643	-	-	-	11,905	-	
724611	CRAFT ENGINEERING ASSOCIATES	HUANG, J.	11,262	-	-	11,262	643	-	-	-	11,905	-	
113381	NASA-MARSHALL SPACEFLIGHT CNTR	PRABHAKARAN, R.	163	-	-	163	-	68	-	-	231	-	
114241	NASA-LANGLEY RESEARCH CENTER	PRABHAKARAN, R.	28,147	-	-	28,147	-	7,319	-	-	35,466	-	
102051	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	53,339	1,796	-	55,135	-	14,335	-	-	69,470	-	
111961	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	6,003	678	-	6,681	16,452	-	-	-	24,870	-	
124491	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	40,983	40,983	-	81,966	-	10,656	-	-	92,622	-	
131841	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	26,051	379	-	26,430	-	6,872	-	-	33,302	-	
131941	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	5,191	2,720	-	7,911	235,969	-	-	-	245,967	-	
163632	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	19,969	1,149	-	21,118	1,000	-	-	-	22,118	-	
194141	NASA-LANGLEY RESEARCH CENTER	TIWARI, S.	21,320	2,646	3,330	27,296	1,296	-	-	-	28,592	-	
714771	VIGYAN INC	TIWARI, S.	13,808	3,727	-	17,535	-	5,389	-	-	22,924	-	
714772	VIGYAN INC	TIWARI, S.	36,878	16,753	-	53,631	-	13,843	-	-	67,474	-	
320841	NATL SCIENCE FOUNDATION	WILLIAMSON, K.	24,095	763	-	24,858	22,458	-	-	-	47,316	-	
			427,223	35,026	3,330	764,781	299,202	115,025	-	-	879,806	15.04%	
<b>Engineering Technology</b>													
523831	CENTER INNOVATIVE TECHNOLOGY	CONSIDINE, C.	2,937	-	-	2,937	-	-	-	-	2,937	-	TAC
720002	RESOURCE CONSULTANTS INC	CONSIDINE, C.	4,225	1,215	-	5,440	-	1,415	-	-	6,855	-	
723861	RESOURCE CONSULTANTS INC	CONSIDINE, C.	(2,243)	-	-	(2,243)	-	(563)	-	-	(2,806)	-	
723841	RESOURCE CONSULTANTS INC	CONSIDINE, C.	3,108	82	-	3,190	-	829	-	-	4,019	-	
790709	RESOURCE CONSULTANTS INC	CONSIDINE, C.	(816)	-	-	(816)	-	(213)	-	-	(1,029)	-	
733451	N VIEW	DEAN, A.	8,336	-	-	8,336	-	2,168	-	-	10,504	-	
101652	NASA-LANGLEY RESEARCH CENTER	KAUFFMANN, P.	1,256	38	-	1,294	2,303	-	-	-	3,597	-	
120241	NASA-LANGLEY RESEARCH CENTER	KAUFFMANN, P.	24,036	3,201	-	27,237	7,184	-	-	-	34,421	-	
131071	NASA-LANGLEY RESEARCH CENTER	KAUFFMANN, P.	11,519	-	-	11,519	-	2,965	-	-	14,484	-	
723801	AMSEC	KAUFFMANN, P.	2,968	-	-	2,968	1,000	-	-	-	3,968	-	
724661	AMSEC	KAUFFMANN, P.	23,291	518	-	23,809	-	6,191	-	-	30,000	-	
523831	CENTER INNOVATIVE TECHNOLOGY	KAUFFMANN, P.	652	-	-	652	-	-	-	-	652	-	TAC
720002	RESOURCE CONSULTANTS INC	KAUFFMANN, P.	4,225	1,216	-	5,441	-	1,414	-	-	6,855	-	
723861	RESOURCE CONSULTANTS INC	KAUFFMANN, P.	(748)	-	-	(748)	-	(95)	-	-	(843)	-	
723841	RESOURCE CONSULTANTS INC	KAUFFMANN, P.	345	9	-	354	-	92	-	-	446	-	
733451	N VIEW	KAUFFMANN, P.	8,337	-	-	8,337	-	2,167	-	-	10,504	-	
514790	MILLENNIUM BUILDING SYSTEMS LLC	LEWIS, V.	-	-	-	-	1,002	-	-	-	1,002	-	TAC
522652	CITY OF NORFOLK	LEWIS, V.	-	-	-	-	800	-	-	-	800	-	TAC
523831	CENTER INNOVATIVE TECHNOLOGY	LEWIS, V.	2,937	-	-	2,937	-	-	-	-	2,937	-	TAC
514791	CENTER INNOVATIVE TECHNOLOGY	LIN, C.	324	47	-	371	-	1,137	-	-	1,508	-	TAC
514792	TIDEWATER OCCUPATIONAL CENTER	LIN, C.	-	132	-	132	1,652	-	-	-	1,784	-	TAC
514793	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFA, M.	-	-	-	-	(2)	-	-	-	(2)	-	TAC
514794	SHERRY KINCHELOE	MOUSTAFA, M.	-	-	-	-	138	-	-	-	138	-	TAC
514797	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFA, M.	1,022	-	-	1,022	(2)	-	-	-	1,020	-	TAC
514798	NICHOLS FILTER	MOUSTAFA, M.	721	-	-	721	-	303	-	-	1,024	-	TAC
524753	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFA, M.	156	-	-	156	-	156	-	-	312	-	TAC
524754	MISSION SPECIFIC LTD	MOUSTAFA, M.	107	-	-	107	-	107	-	-	214	-	TAC
524765	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFA, M.	449	-	-	449	-	108	-	-	557	-	TAC
524766	MARK SCURA	MOUSTAFA, M.	257	-	-	257	-	-	-	-	257	-	TAC
524769	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFA, M.	1,119	-	-	1,119	-	-	-	-	1,119	-	TAC
524775	CENTER INNOVATIVE TECHNOLOGY	MOUSTAFA, M.	1,295	-	-	1,295	-	411	-	-	1,706	-	TAC
524776	DONNA HUDDLESTON	MOUSTAFA, M.	980	-	-	980	-	-	-	-	980	-	TAC
524780	CITY OF NORFOLK	MOUSTAFA, M.	581	-	-	581	-	581	-	-	1,162	-	TAC
524781	CITY OF NORFOLK	MOUSTAFA, M.	314	-	-	314	-	-	-	-	314	-	TAC
514768	RABATT INC	WELLS, S.	-	-	-	-	900	-	-	-	900	-	TAC
320091	NATL SCIENCE FOUNDATION	ZHOU, G.	13,618	1,093	-	14,711	-	6,176	-	-	20,887	-	
523881	GEORGE MASON UNIVERSITY	ZHOU, G.	8,175	2,037	1,815	12,027	454	-	-	-	16,770	-	
523881	UNIVERSITY OF MISSISSIPPI	ZHOU, G.	25,065	4,417	1,877	31,359	-	12,362	-	-	43,741	-	
713041	USRA - UNIV SPACE RES ASSOC	ZHOU, G.	4,414	5,033	-	9,447	-	2,457	-	-	11,904	-	
			153,778	17,704	5,193	192,623	15,948	51,753	2,450	-	246,826	28.14%	

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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			
<b>Engineering Management</b>												
105271	NASA-LANGLEY RESEARCH CENTER	DRYER, D.	2,300	-	-	8,039	10,339	598	-	10,937	-	TAC
112721	NASA-LANGLEY RESEARCH CENTER	DRYER, D.	-	-	-	648	648	-	-	648	-	TAC
314921	NATL SCIENCE FOUNDATION	DRYER, D.	8,835	-	-	32,829	41,764	2,297	-	44,061	-	TAC
514951	CENTER INNOVATIVE TECHNOLOGY	KAUFMANN, P.	2,823	-	-	-	2,823	-	-	2,823	-	TAC
130012	NASA-LANGLEY RESEARCH CENTER	KEATING, C.	8,391	1,663	-	-	10,054	2,614	-	12,668	-	TAC
524751	CENTER INNOVATIVE TECHNOLOGY	KEATING, C.	4,926	-	-	-	4,926	-	-	4,926	-	TAC
524752	KITCO FIBER OPTICS INC	KEATING, C.	1,030	-	-	-	1,030	268	-	1,298	-	TAC
531141	VA PORT AUTHORITY	KEATING, C.	13,820	-	-	-	13,820	3,583	-	17,413	-	TAC
720001	RESOURCE CONSULTANTS INC	KEATING, C.	6,910	-	-	-	6,910	1,797	-	8,707	-	TAC
720003	RESOURCE CONSULTANTS INC	KEATING, C.	472	-	-	-	472	123	-	595	-	TAC
531141	VA PORT AUTHORITY	ROGERS, R.	13,821	-	-	-	13,821	3,593	-	17,414	-	TAC
722741	TASC INC - NORTHRUP GRUMMON	ROGERS, R.	-	12,882	-	611	13,493	-	-	13,493	-	TAC
723791	TASC INC - NORTHRUP GRUMMON	ROGERS, R.	1,587	-	-	391	1,978	-	-	1,978	-	TAC
720003	RESOURCE CONSULTANTS INC	SOSA-POZA, A	2,901	-	-	-	2,901	754	-	3,655	-	TAC
514801	CENTER INNOVATIVE TECHNOLOGY	SOSA-POZA, A	3,500	-	-	-	3,500	-	-	3,500	-	TAC
514802	VIRGINIA DIE & MANUFACTURING INC	SOSA-POZA, A	1,483	-	-	-	1,483	386	-	1,869	-	TAC
524751	CENTER INNOVATIVE TECHNOLOGY	SOSA-POZA, A	7,088	-	-	-	7,088	-	-	7,088	-	TAC
524752	KITCO FIBER OPTICS INC	SOSA-POZA, A	1,481	-	-	-	1,481	385	-	1,866	-	TAC
720001	RESOURCE CONSULTANTS INC	SOSA-POZA, A	6,910	-	-	-	6,910	1,796	-	8,706	-	TAC
124161	NASA-LANGLEY RESEARCH CENTER	UNAL, R.	22,637	250	-	-	22,887	5,950	-	28,837	-	TAC
130012	NASA-LANGLEY RESEARCH CENTER	UNAL, R.	15,583	3,087	-	-	18,670	4,854	-	23,524	-	TAC
			126,498	17,862	-	42,618	186,998	29,008	-	216,006	15.51%	TAC
<b>TAC: Technology Applications Center</b>												
524773	CENTER INNOVATIVE TECHNOLOGY	BAYSAL, O.	-	-	-	4,000	4,000	-	-	4,000	-	TAC
524774	SOLO INC	BAYSAL, O.	-	-	-	8,000	8,000	2,080	-	10,080	-	TAC
514771	CENTER INNOVATIVE TECHNOLOGY	CORY, M.	32	3,154	-	(13)	3,173	-	-	3,173	-	TAC
514772	SOLO INC	CORY, M.	1,723	-	-	3,000	4,723	724	-	5,447	-	TAC
524235	CENTER INNOVATIVE TECHNOLOGY	CORY, M.	3,246	-	-	-	3,246	-	-	3,246	-	TAC
524236	BRUNSWICK BOX CO	CORY, M.	753	-	-	1,860	2,613	316	-	2,929	-	TAC
72381	M & G ELECTRONICS CORP	CORY, M.	-	-	-	-	-	-	-	10,450	-	TAC
724551	AVID MEDICAL	CORY, M.	-	-	-	-	-	-	-	1,000	-	TAC
723691	NOVA CHEMICALS INC	DUNLAP, C.	164	-	-	42	164	42	-	209	-	TAC
724541	NOVA CHEMICALS INC	DUNLAP, C.	164	-	-	-	164	42	-	209	-	TAC
524581	CENTER INNOVATIVE TECHNOLOGY	MCADORY, A.	15,957	2,689	-	-	18,646	-	-	18,646	-	TAC
724581	ADMINT01, LLC	MCADORY, A.	7,637	107	-	-	7,744	3,252	-	10,996	-	TAC
514787	CENTER INNOVATIVE TECHNOLOGY	PARKINSON, K.	-	26	-	1,433	1,459	-	-	1,459	-	TAC
514788	RICHARD HALL	PARKINSON, K.	-	-	-	967	967	-	-	967	-	TAC
514795	CENTER INNOVATIVE TECHNOLOGY	PARKINSON, K.	-	-	-	1,200	1,200	-	-	1,200	-	TAC
514796	EDWARD MATNEY	PARKINSON, K.	-	-	-	-	-	-	-	650	-	TAC
524755	CENTER INNOVATIVE TECHNOLOGY	PARKINSON, K.	-	-	-	1,300	1,300	-	-	1,300	-	TAC
524756	STALLINGS, JOANNE	PARKINSON, K.	-	-	-	200	200	-	-	200	-	TAC
722511	PENINSULA CUSTOM PLASTICS	PARKINSON, K.	-	-	-	-	-	-	-	3,500	-	TAC
730581	BAUER COMPRESSORS INC	PARKINSON, K.	-	-	-	-	-	-	-	3,200	-	TAC
730581	BAUER COMPRESSORS INC	PARKINSON, K.	-	-	-	-	-	-	-	3,000	-	TAC
730581	SYNERJECT LLC	PARKINSON, K.	-	-	-	-	-	-	-	9,905	-	TAC
514751	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	7,483	2,422	-	-	9,905	-	-	9,905	-	TAC
514777	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	(52)	-	-	(52)	-	-	(52)	-	TAC
514778	BAUER COMPRESSORS INC	ROBERTSON, J.	-	-	-	2,213	2,213	930	-	3,143	-	TAC
514799	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	-	-	3,000	3,000	-	-	3,000	-	TAC
514800	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	-	-	1,500	1,500	-	-	1,500	-	TAC
522983	COMMONWEALTH SUPPLY	ROBERTSON, J.	-	-	-	1,500	1,500	-	-	1,500	-	TAC
524221	CITY OF NORFOLK	ROBERTSON, J.	104,346	4,799	-	-	109,145	-	-	109,145	-	TAC
524239	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	-	-	415	415	-	-	415	-	TAC
524240	MISSION SPECIFIC LTD	ROBERTSON, J.	-	-	-	545	545	-	-	545	-	TAC
524571	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	12,539	2,690	-	-	15,229	-	-	15,229	-	TAC
524761	CENTER INNOVATIVE TECHNOLOGY	ROBERTSON, J.	-	-	-	19,598	19,598	-	-	19,598	-	TAC
524762	ENGEI TECHNOLOGIES INC	ROBERTSON, J.	-	14	-	13,065	13,079	3,401	-	16,480	-	TAC
720351	A L PHILPOTT MANUFACTURING	ROBERTSON, J.	3,203	615	-	-	3,818	-	-	3,818	-	TAC
724572	ELEC DEV LABS, EDL	ROBERTSON, J.	107,637	27,806	-	4,665	135,443	-	-	135,443	-	TAC
724691	A L PHILPOTT MANUFACTURING	ROBERTSON, J.	259,162	49,982	-	4,665	313,809	10,787	27,168	351,664	9.98%	TAC

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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	TOTAL PROJECT COSTS			
504905	Aerospace Engineering	ALBERTS, T.	-	(134)	-	-	-	(134)	-	-	-	(134)	TAC
514786	CENTER INNOVATIVE TECHNOLOGIES	ALBERTS, T.	-	-	-	(10)	-	-	-	-	-	(10)	TAC
122941	NASA-LANGLEY RESEARCH CENTER	ASH, R.	-	20,001	20,944	-	-	40,945	835	-	-	41,780	ARC
720641	ISTANBUL TECHNICAL UNIVERSITY	BAYSAL, O.	-	-	-	7,716	-	7,716	-	-	-	7,716	ARC
100121	NASA-LANGLEY RESEARCH CENTER	BRITCHER, C.	102,358	11,945	1,021	-	-	115,324	29,719	-	-	145,043	ARC
100122	NASA-LANGLEY RESEARCH CENTER	BRITCHER, C.	-	-	-	16,662	-	16,662	-	-	-	16,662	ARC
115101	NASA-LANGLEY RESEARCH CENTER	CROSS, J.	-	-	-	7,511	-	7,511	-	-	-	7,511	LFST
514783	CENTER INNOVATIVE TECHNOLOGY	KANDIL, O.	3,323	-	-	-	-	3,323	-	-	-	3,323	TAC
514784	EAGLE AERONAUTICS	KANDIL, O.	27,733	535	-	-	-	28,268	7,350	-	-	35,618	TAC
514779	CENTER INNOVATIVE TECHNOLOGY	MEI, C.	11,527	-	-	-	-	11,527	-	-	-	11,527	TAC
514780	AMAC INT	MEI, C.	41,251	-	-	-	-	41,251	10,725	-	-	51,976	TAC
115571	NASA-LANGLEY RESEARCH CENTER	NEWMAN, B.	20,004	11	-	-	-	20,015	2	-	-	20,017	TAC
524231	CENTER INNOVATIVE TECHNOLOGY	NEWMAN, B.	21,095	5,527	11,274	(4)	-	38,840	6,921	-	-	45,761	TAC
524232	AERO TECH RESEARCH	NEWMAN, B.	-	-	-	4	-	-	-	-	-	-	TAC
713001	AERO TECH RESEARCH	NEWMAN, B.	-	-	-	4	-	-	-	-	-	-	TAC
			227,291	37,885	33,239	33,823	-	332,238	55,553	-	-	387,791	16.72%
533381	Aerospace Engineering - SSRP	EIDSON, T.	10,270	-	-	-	-	10,270	4,313	-	-	14,583	SSRP
332391	UNIVERSITY OF TENNESSEE	MIKULAS, M.	17,374	1,579	-	-	-	18,953	4,928	-	-	23,881	SSRP
	JET PROPULSION LAB		27,644	1,579	-	-	-	29,223	9,241	-	-	38,464	31.62%
730901	ARC Applied Research Center	GUPTA, M.	11,906	1,906	-	273	-	14,085	5,915	-	-	20,000	ARC
111502	ALCOA INC	GUPTA, M.	18,224	7,820	-	-	-	26,044	6,772	-	-	32,816	ARC
112101	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	1,728	656	-	34,035	-	36,417	7,119	-	-	43,536	ARC
122241	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	54,024	-	-	-	-	54,024	14,046	-	-	68,070	ARC
132111	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	27,239	243	-	-	-	27,482	7,145	-	-	34,627	ARC
132861	NASA-LANGLEY RESEARCH CENTER	GUPTA, M.	1,386	-	-	-	-	1,386	-	-	-	1,386	ARC
210511	ARMY RESEARCH OFFICE	GUPTA, M.	-	1,488	-	-	-	1,488	-	-	-	1,488	ARC
293051	ARMY RESEARCH OFFICE	GUPTA, M.	31,806	15,233	-	6,851	-	53,890	28,781	-	-	82,671	ARC
311121	NATL SCIENCE FOUNDATION	GUPTA, M.	40,412	5,462	-	-	-	45,874	19,104	-	-	64,978	ARC
311122	NATL SCIENCE FOUNDATION	GUPTA, M.	8,490	-	-	-	-	8,490	2,123	-	-	10,613	ARC
311123	NATL SCIENCE FOUNDATION	GUPTA, M.	7,123	-	-	(3,325)	-	3,798	1,781	-	-	5,579	ARC
314841	NATL SCIENCE FOUNDATION	GUPTA, M.	54,063	-	-	-	-	54,063	-	-	-	54,063	ARC
314848	SOUTHEASTERN UNIV RESE ASSOC	GUPTA, M.	5,174	-	-	-	-	5,174	-	-	-	5,174	ARC
314849	LAM INDUSTRY MEMBERSHIPS	GUPTA, M.	107,174	6,592	2,125	-	-	115,891	-	-	-	115,891	ARC
524401	CENTER INNOVATIVE TECHNOLOGY	GUPTA, M.	-	6,734	-	23,266	-	30,000	-	-	-	30,000	ARC
530531	CENTER INNOVATIVE TECHNOLOGY	GUPTA, M.	19,502	312	-	-	-	19,814	-	-	-	19,814	ARC
532121	CENTER INNOVATIVE TECHNOLOGY	GUPTA, M.	4,856	2,673	-	-	-	7,529	-	-	-	7,529	ARC
591341	CENTER INNOVATIVE TECHNOLOGY	GUPTA, M.	93,043	10,575	-	(2)	-	103,616	-	-	-	103,616	ARC
730831	COLLEGE OF WILLIAM AND MARY	GUPTA, M.	30,627	-	-	-	-	30,627	12,863	-	-	43,490	ARC
732121	SOUTHEASTERN UNIV RESE ASSOC	GUPTA, M.	2,484	-	-	323	-	2,807	1,183	-	-	4,000	ARC
200761	ANATECH, LTD	LAROUISS, M.	22,513	5,600	3,612	-	-	31,725	11,807	-	-	43,532	ARC
	AIR FORCE OFFICE SCI RES		534,681	70,929	7,225	61,421	-	674,236	118,639	-	-	792,875	17.60%

\* 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 2003**

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		
721081	VMASC: Virginia Modeling and Simulation Center	BELFORE, L.	43,571	-	-	-	-	44,823	11,328	-	56,151	VMASC
295030	NAVY FISC - PHILADELPHIA	GROSEL, J.	76,069	8,984	1,252	-	-	85,053	22,114	-	107,167	VMASC
295032	NAVY FISC - PHILADELPHIA	GROSEL, J.	311,226	3,389	-	-	-	314,615	81,799	-	396,414	VMASC
295033	NAVY FISC - PHILADELPHIA	GROSEL, J.	(1,332)	-	-	-	-	(457)	(119)	-	(576)	VMASC
295034	NAVY FISC - PHILADELPHIA	GROSEL, J.	78,631	820	-	-	-	79,451	20,657	-	100,108	VMASC
295035	NAVY FISC - PHILADELPHIA	GROSEL, J.	96,183	33,739	-	-	-	129,922	33,779	-	163,701	VMASC
295036	NAVY FISC - PHILADELPHIA	GROSEL, J.	32,889	414	-	-	-	33,303	8,659	-	41,962	VMASC
295037	NAVY FISC - PHILADELPHIA	GROSEL, J.	341,963	15,199	-	-	-	357,162	92,862	-	450,024	VMASC
295038	NAVY FISC - PHILADELPHIA	GROSEL, J.	96,927	5,601	-	-	-	102,528	24,058	-	116,586	VMASC
295039	NAVY FISC - PHILADELPHIA	GROSEL, J.	60,810	4,655	-	-	-	65,465	17,020	-	82,485	VMASC
295040	NAVY FISC - PHILADELPHIA	GROSEL, J.	157,467	29,355	-	-	-	186,822	48,574	-	235,396	VMASC
295041	NAVY FISC - PHILADELPHIA	GROSEL, J.	170,067	-	-	-	-	170,067	44,217	-	214,284	VMASC
295042	NAVY FISC - PHILADELPHIA	GROSEL, J.	67,450	859	-	-	-	68,309	17,760	-	86,069	VMASC
295043	NAVY FISC - PHILADELPHIA	GROSEL, J.	266,339	19,866	-	-	-	286,205	74,413	-	360,618	VMASC
295044	NAVY FISC - PHILADELPHIA	GROSEL, J.	12,260	2,508	-	-	-	14,768	3,840	-	18,608	VMASC
295045	NAVY FISC - PHILADELPHIA	GROSEL, J.	20,463	1,939	-	-	-	22,402	5,825	-	28,227	VMASC
295046	NAVY FISC - PHILADELPHIA	GROSEL, J.	21,876	5,960	-	-	-	27,836	7,237	-	35,073	VMASC
295047	NAVY FISC - PHILADELPHIA	GROSEL, J.	41,946	5,517	-	-	-	47,463	12,340	-	59,803	VMASC
295048	NAVY FISC - PHILADELPHIA	GROSEL, J.	22,261	-	-	-	-	22,261	5,787	-	28,048	VMASC
295049	NAVY FISC - PHILADELPHIA	GROSEL, J.	41,354	-	-	-	-	41,354	10,752	-	52,106	VMASC
295050	NAVY FISC - PHILADELPHIA	GROSEL, J.	135,947	7,780	-	-	-	143,727	37,368	-	181,095	VMASC
295051	NAVY FISC - PHILADELPHIA	GROSEL, J.	181,138	3,022	-	-	-	184,160	47,881	-	232,041	VMASC
295132	NAVY FISC - PHILADELPHIA	GROSEL, J.	4,564	4,564	-	-	-	9,128	64,951	-	74,079	VMASC
295133	NAVY FISC - PHILADELPHIA	GROSEL, J.	56,868	2,991	-	-	-	59,859	15,544	-	75,403	VMASC
733401	SCIENCE APPLICATIONS INTL CORP	GROSEL, J.	24,241	1,332	-	-	-	25,573	6,649	-	32,222	VMASC
295023	NAVY FISC - PHILADELPHIA	LANG, T.	(5,451)	(7)	-	-	-	(5,451)	(2)	-	(9)	VMASC
295027	NAVY FISC - PHILADELPHIA	LANG, T.	-	-	-	-	-	-	(1,418)	-	(6,869)	VMASC
295028	NAVY FISC - PHILADELPHIA	LANG, T.	-	-	-	-	-	-	(109)	-	(109)	VMASC
230941	TRADOC COMMAND	LEATHRUM, J.	29,109	-	-	-	-	29,109	7,568	-	36,677	VMASC
721081	SCIENCE APPLICATIONS INTL CORP	LEATHRUM, J.	114,869	-	3,302	-	-	118,171	29,866	-	148,037	VMASC
733971	LOYOLA ENTERPRISES	LEATHRUM, J.	9,169	-	-	-	-	9,169	3,851	-	13,020	VMASC
100700	PRIVATE SPONSORS	LOFTIN, B.	76,541	21,958	-	-	-	98,499	-	-	98,499	VMASC
110561	NASA-JOHNSON SPACE FLIGHT CNTR	LOFTIN, B.	2,965	20	-	(4)	-	2,981	1,251	-	4,232	VMASC
120741	NASA-JOHNSON SPACE FLIGHT CNTR	LOFTIN, B.	12,037	-	-	-	-	12,037	3,129	-	15,166	VMASC
224501	ARMY MEDICAL RESEARCH COMMAND	LOFTIN, B.	51,452	3,603	-	20,932	-	75,987	14,348	-	90,335	VMASC
238001	NAVY FISC - PHILADELPHIA	LOFTIN, B.	34,163	-	-	-	-	34,163	14,348	-	48,511	VMASC
238002	NAVY FISC - PHILADELPHIA	LOFTIN, B.	30,745	-	-	-	-	30,745	12,913	-	43,658	VMASC
238003	NAVY FISC - PHILADELPHIA	LOFTIN, B.	18,791	-	-	-	-	18,791	7,892	-	26,683	VMASC
322311	NAVY FISC - PHILADELPHIA	LOFTIN, B.	3,508	-	71,126	397	-	75,031	1,473	-	76,504	VMASC
511521	NAVY FISC - PHILADELPHIA	LOFTIN, B.	195,831	27,725	63,111	150,108	-	436,775	93,894	-	530,669	VMASC
534271	EASTERN VIRGINIA MED AUTHORITY	LOFTIN, B.	11,732	-	-	-	-	11,732	4,927	-	16,659	VMASC
723281	ACS SYSTEMS	LOFTIN, B.	12,159	-	-	19,946	-	32,105	13,483	-	45,588	VMASC
273925	NAVY FISC - PHILADELPHIA	MCCLESKEY, K.	(534)	-	-	-	-	(534)	(139)	-	(673)	VMASC
273926	NAVY FISC - PHILADELPHIA	MCCLESKEY, K.	17,628	-	-	-	-	17,628	4,562	-	22,190	VMASC
273927	NAVY FISC - PHILADELPHIA	MCCLESKEY, K.	41,997	-	-	-	-	41,997	10,920	-	52,917	VMASC
273928	NAVY FISC - PHILADELPHIA	MCCLESKEY, K.	25,925	863	-	-	-	26,788	6,965	-	33,753	VMASC
273929	NAVY FISC - PHILADELPHIA	MCCLESKEY, K.	225,989	1,734	-	3,888	-	231,611	59,208	-	290,819	VMASC
273930	NAVY FISC - PHILADELPHIA	MCCLESKEY, K.	86,610	6,284	-	17,450	-	110,344	24,152	-	134,496	VMASC
731041	SCIENCE APPLICATIONS INTL CORP	MCCLESKEY, K.	111,207	-	-	-	-	111,207	46,707	-	157,914	VMASC
737001	COMPUTER SCIENCE CORPORATION	MCCLESKEY, K.	60,143	3,597	-	-	-	63,740	26,770	-	90,510	VMASC
788011	SCIENCE APPLICATIONS INTL CORP	MCCLESKEY, K.	115,778	1,400	-	-	-	117,178	30,466	-	147,644	VMASC
520861	COMMONWEALTH TECHNOLOGY RESE/	MIELKE, R.	26,157	341	2,475	-	-	30,973	-	-	30,973	VMASC
721081	SCIENCE APPLICATIONS INTL CORP	MIELKE, R.	39,610	1,138	-	-	-	40,748	10,299	-	51,047	VMASC
728651	INTELLIGENT DECISION SYSTEMS	MIELKE, R.	9,464	-	-	33,077	-	42,541	2,674	-	45,215	VMASC
201571	NAVAL AIR WARFARE CENTER TSD	PETTY, M.	-	-	-	-	-	-	-	-	-	VMASC
223851	COMOPTEVFOR	PETTY, M.	1,758	-	-	-	-	1,758	739	-	2,497	VMASC
223861	COMOPTEVFOR	PETTY, M.	523	-	-	-	-	523	220	-	743	VMASC
224511	NAVAL AIR WARFARE CENTER TSD	PETTY, M.	56,436	1,887	-	1,944	-	60,267	24,496	-	84,763	VMASC
230681	OFFICE OF NAVAL RESEARCH	PETTY, M.	86,054	4,263	-	-	-	90,320	37,934	-	128,254	VMASC
231461	COMOPTEVFOR	PETTY, M.	1,687	-	-	-	-	1,687	708	-	2,395	VMASC
231471	COMOPTEVFOR	PETTY, M.	537	-	-	-	-	537	225	-	762	VMASC
731731	GENERAL DYNAMICS	PETTY, M.	29,056	791	-	-	-	29,847	12,535	-	42,382	VMASC
520861	COMMONWEALTH TECHNOLOGY RESE/	PHILLIPS, M	26,188	340	2,475	-	-	29,973	-	-	29,973	VMASC
731732	GENERAL DYNAMICS	TOLK, A.	1,096	-	-	-	-	1,096	461	-	1,557	VMASC
			4,152,225	234,705	144,879	247,629	-	4,779,438	1,208,412	-	5,987,850	25.28%

\* 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 2003**

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>Center for Advanced Engineering Environments</b>												
111501	NASA-LANGLEY RESEARCH CENTER	NOOR, A.	591,521	40,434	6,953	630,103	1,268,011	196,808	-	1,465,819		
113281	NASA-LANGLEY RESEARCH CENTER	NOOR, A.	-	46	62,975	28,448	91,469	12	-	91,481		
113282	NASA-LANGLEY RESEARCH CENTER	NOOR, A.	5,671	-	-	-	5,671	1,475	-	7,146		
212151	OFFICE OF NAVAL RESEARCH	NOOR, A.	30,779	29,279	4,669	-	64,727	15,615	-	80,342		
521271	UNIVERSITY OF MISSISSIPPI	NOOR, A.	50,735	(16,703)	-	38,203	72,235	8,849	-	81,084		
			678,706	53,056	74,597	696,754	1,503,113	222,759	-	1,725,872		14.82%
<b>Center for Bioelectronics</b>												
220131	AIR FORCE OFFICE SCI RES	JOSHI, R.	44,472	14,989	4,525	162,304	226,290	42,298	-	268,588		CBE
230101	AIR FORCE OFFICE SCI RES	LAROUCSI, M.	-	26	-	-	26	11	-	37		CBE
723531	INNOVATEK INC	LAROUCSI, M.	20,816	3,948	4,070	-	28,834	10,401	-	39,235		CBE
200951	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	115,159	9,741	-	-	124,900	52,458	-	177,358		CBE
214981	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	19,054	1,654	115,083	8,872	144,663	11,829	-	156,492		CBE
220131	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	45,820	15,444	4,663	167,222	233,149	43,561	-	276,730		CBE
221031	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	-	-	111,169	-	111,169	-	-	111,169		CBE
221101	AIR FORCE OFFICE SCI RES	SCHOENBACH, K.	-	-	4,403	-	4,403	-	-	4,403		CBE
224191	OFFICE OF NAVAL RESEARCH	SCHOENBACH, K.	-	1,142	-	3,379	4,521	479	-	5,000		CBE
301991	NATL SCIENCE FOUNDATION	SCHOENBACH, K.	-	2,098	-	-	2,098	-	-	2,098		CBE
302261	NATL SCIENCE FOUNDATION	SCHOENBACH, K.	47,986	9,011	-	-	57,007	23,942	-	80,949		CBE
511511	UNIVERSITY OF NEW MEXICO	SCHOENBACH, K.	187,537	28,177	46,866	-	262,580	90,599	-	353,179		CBE
721201	INNOVATIVE SCIENTIFIC SOLUTION	SCHOENBACH, K.	19,179	947	-	-	20,126	8,453	-	28,579		CBE
733321	INST ELE & ELEC ENGINEERS	SCHOENBACH, K.	-	277	-	-	277	116	-	393		CBE
			500,033	87,454	286,376	346,180	1,220,043	284,167	-	1,504,210		23.29%
<b>TOTAL ENGINEERING</b>			<b>\$ 7,735,081</b>	<b>\$ 717,098</b>	<b>\$ 906,845</b>	<b>\$ 2,123,597</b>	<b>\$ 11,482,621</b>	<b>\$ 2,374,137</b>	<b>\$ 29,627</b>	<b>\$ 13,886,385</b>		<b>20.93%</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 2003**

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>HEALTH SCIENCES</b>																
Community and Environmental Health																
722421	FDN FOR PHYSICAL THERAPY	ECHTERNACH, J.	10,953	1,720	-	1,601	1,601	18,042	4,352	-	1,601	22,394	23,995	22.16%		
214631	NAVY PUBLIC WORKS CENTER	ENGLISH, J	10,953	1,720	-	6,970	19,643	4,352	-	-	-	-	-	-	-	
<b>Dental Hygiene</b>																
712591	AMERICAN DENTAL HYGIENE ASSOC	DARBY, M	-	1,020	-	-	1,020	153	-	-	1,173	5,176	5,176	16.80%		
722411	AMERICAN DENTAL HYGIENE ASSOC	DARBY, M	429	3,202	-	1,000	4,631	545	-	-	5,176	10,296	10,296	19.37%		
522641	EASTERN VIRGINIA MED AUTHORITY	MCCOMBS, G	3,995	900	3,345	-	8,240	2,056	-	-	10,296	20,596	20,596	19.37%		
721361	DIAMOND GEN DEV CORP	MCCOMBS, G	12	150	-	2,191	2,353	518	-	-	2,871	5,287	5,287	19.37%		
722401	AMERICAN DENTAL HYGIENE ASSOC	MCCOMBS, G	1,574	393	-	3,025	4,992	295	-	-	5,287	10,579	10,579	19.37%		
<b>TOTAL HEALTH SCIENCES</b>			<b>6,010</b>	<b>5,865</b>	<b>3,345</b>	<b>6,216</b>	<b>21,236</b>	<b>3,567</b>	<b>-</b>	<b>-</b>	<b>24,803</b>	<b>48,798</b>	<b>48,798</b>	<b>19.37%</b>		
			<b>\$ 16,963</b>	<b>\$ 7,385</b>	<b>\$ 3,345</b>	<b>\$ 13,186</b>	<b>\$ 40,879</b>	<b>\$ 7,919</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 48,798</b>	<b>\$ 48,798</b>	<b>\$ 48,798</b>	<b>19.37%</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 2003**

PROJECT NUMBER	SPONSORING AGENCY	PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR	PERSONNEL AND FRINGE BENEFITS	PROJECT DIRECT COSTS			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			
<b>Sciences</b>												
314651	NATL OCEANIC/ATMOS ADMIN	ASHFORD, J.	20,662	8,106	-	41,669	70,427	7,190	-	77,617	11.2%	77617
324351	NATL SCIENCE FOUNDATION	ASHFORD, J.	3,352	527	-	-	3,879	1,529	-	5,408	16.2%	5408
514302	MD DEPT OF NATURAL RESOURCES	ASHFORD, J.	53,209	995	-	78,894	133,098	22,766	-	155,864	11.7%	155864
721621	FALKLAND ISLANDS	ASHFORD, J.	-	-	-	2,763	2,763	1,161	-	3,924	142.1%	3924
731081	BRITISH ANTARCTIC SURVEY	ASHFORD, J.	14,382	18,858	3,500	-	36,740	6,674	-	43,414	119.2%	43414
523481	VA MARINE RESOURCES COMM	BOBKO, S.	11,453	814	-	-	12,267	3,067	-	15,334	134.5%	15334
303922	NATL MARINE FISHERIES SERV	BUTLER, M.	(488)	-	-	-	(488)	(127)	-	(615)	-100.0%	(615)
320451	NATL SCIENCE FOUNDATION	BUTLER, M.	58,919	17,081	-	-	76,000	19,760	-	95,760	128.3%	95760
321681	NATL OCEANIC/ATMOS ADMIN	BUTLER, M.	26,477	18,863	8,060	-	53,420	11,793	-	65,213	121.2%	65213
321682	NATL OCEANIC/ATMOS ADMIN	BUTLER, M.	3,836	2,290	-	-	6,126	1,592	-	7,718	125.8%	7718
514381	VA INST OF MARINE SCIENCE	BUTLER, M.	16,575	9,139	-	1,944	27,658	6,429	-	34,087	124.8%	34087
523511	FL FISH WILDLIFE CONSERV COMM	BUTLER, M.	5,905	5,890	-	11,578	23,373	6,123	-	29,496	126.1%	29496
512203	VA DEPT ENVIRON QUALITY	CARPENTER, K.	-	-	-	4,015	4,015	1,000	-	5,015	125.1%	5015
522003	VA DEPT ENVIRON QUALITY	CARPENTER, K.	49,432	2,770	-	-	52,202	13,051	-	65,253	124.8%	65253
522006	VA DEPT ENVIRON QUALITY	CARPENTER, K.	2,460	-	-	-	2,460	615	-	3,075	125.0%	3075
531963	VA DEPT ENVIRON QUALITY	CARPENTER, K.	26,344	9,943	-	-	36,287	-	-	36,287	100.0%	36287
704111	FAO OF THE UNITED NATIONS	CARPENTER, K.	(1,272)	-	-	1	(1,271)	(318)	-	(1,589)	-124.2%	(1589)
721891	FAO OF THE UNITED NATIONS	CARPENTER, K.	14,030	2,216	-	-	16,246	4,062	-	20,308	144.6%	20308
732061	FAO OF THE UNITED NATIONS	CARPENTER, K.	4,311	1,291	-	-	5,602	1,401	-	7,003	162.6%	7003
511331	UNIVERSITY OF MARYLAND	DAUER, D.	58,609	689	-	-	59,298	24,905	-	84,203	142.7%	84203
512205	VA DEPT ENVIRON QUALITY	DAUER, D.	2,132	-	12,067	8,559	21,964	2,141	-	10,700	48.7%	10700
515521	VA DEPT ENVIRON QUALITY	DAUER, D.	56,385	12,208	8,722	-	77,315	2,305	-	24,269	31.4%	24269
522004	VA DEPT ENVIRON QUALITY	DAUER, D.	60,787	2,074	-	-	62,861	17,149	-	80,010	127.3%	80010
522005	VA DEPT ENVIRON QUALITY	DAUER, D.	2,460	-	-	-	2,460	566	-	3,026	124.6%	3026
522006	VA DEPT ENVIRON QUALITY	DAUER, D.	449	-	-	-	449	112	-	561	124.9%	561
530501	VA DEPT ENVIRON QUALITY	DAUER, D.	16,647	3,515	-	-	20,162	5,041	-	25,203	124.8%	25203
531984	VA DEPT ENVIRON QUALITY	DAUER, D.	13,452	527	-	-	13,979	3,494	-	17,473	125.1%	17473
531985	VA DEPT ENVIRON QUALITY	DAUER, D.	42,026	595	-	-	42,621	954	-	43,575	102.2%	43575
344011	SMITHSONIAN INSTITUTION	DAY, F.	59,670	4,124	-	-	63,794	17,164	-	80,958	127.0%	80958
502311	UNIVERSITY OF VIRGINIA	DAY, F.	6,151	1,774	-	-	7,925	2,060	-	9,985	127.4%	9985
522001	VA DEPT ENVIRON QUALITY	DONAT, J.	180,931	109,592	-	-	290,513	69,615	-	360,328	124.0%	360328
531981	VA DEPT ENVIRON QUALITY	DONAT, J.	13,296	322	-	-	13,618	8,671	-	22,289	163.7%	22289
224433	OFFICE OF NAVAL RESEARCH	GORDON, A.	15,013	388	-	-	15,335	6,440	-	21,775	141.9%	21775
283811	OFFICE OF NAVAL RESEARCH	GORDON, A.	9,865	4,779	-	-	14,644	6,298	-	20,942	142.9%	20942
323641	NATL OCEANIC/ATMOS ADMIN	GORDON, A.	19,897	10,890	-	-	30,787	12,931	-	43,718	143.3%	43718
563668	VA DEPARTMENT OF HEALTH	GORDON, A.	45,429	1,536	-	-	46,965	-	-	46,965	100.0%	46965
352781	NATL SCIENCE FOUNDATION	HOLSINGER, J.	1,031	83	-	-	1,114	479	-	1,593	156.6%	1593
322021	NATL SCIENCE FOUNDATION	HYNES, W.	21,664	5,294	-	-	26,958	14,498	-	41,456	154.1%	41456
324561	US PUBLIC HEALTH SERVICE	HYNES, W.	-	5,071	-	(24)	5,047	2,170	-	7,217	142.8%	7217
330751	NATL MARINE FISHERIES SERV	JONES, C.	3,313	102	-	5,065	8,480	1,225	-	9,705	115.4%	9705
382281	NATL SCIENCE FOUNDATION	JONES, C.	15,831	124	-	-	15,955	6,861	-	22,816	143.0%	22816
380621	NATL SCIENCE FOUNDATION	JONES, C.	35,309	8,026	-	-	43,335	18,635	-	61,970	142.9%	61970
390622	NATL SCIENCE FOUNDATION	JONES, C.	3,093	1,500	-	-	4,593	1,148	-	5,741	127.3%	5741
394301	NATL SCIENCE FOUNDATION	JONES, C.	9,934	34,489	-	30,305	74,728	18,658	-	93,386	125.3%	93386
512211	VA MARINE RESOURCES COMM	JONES, C.	51,627	5,996	-	-	57,623	14,406	-	72,029	126.7%	72029
521841	VA MARINE RESOURCES COMM	JONES, C.	20,096	19,768	-	-	39,864	9,965	-	49,829	125.0%	49829
532181	VA MARINE RESOURCES COMM	JONES, C.	104,025	12,559	-	-	116,584	29,146	-	145,730	125.0%	145730
522006	VA DEPT ENVIRON QUALITY	JONES, C.	2,480	630	-	-	3,110	158	-	3,268	126.3%	3268
593362	VA DEPARTMENT OF HEALTH	MARSHALL, H.	9,321	139	-	-	9,460	615	-	10,075	106.6%	10075
713891	VA ENVIRONMENTAL ENDOWMENT	MARSHALL, H.	1,946	642	-	(16)	2,572	-	-	2,572	100.0%	2572
522002	VA DEPT ENVIRON QUALITY	MARSHALL, H.	51,535	5,048	-	-	56,583	14,145	-	70,728	124.1%	70728
531982	VA DEPT ENVIRON QUALITY	MARSHALL, H.	37,551	202	-	-	37,753	9,438	-	47,191	124.9%	47191
593364	VA DEPARTMENT OF HEALTH	MARSHALL, H.	73,768	20,487	-	-	94,255	126,569	-	220,824	234.3%	220824
320452	NATL SCIENCE FOUNDATION	RATZLAFF, R.	6,702	3,209	-	-	9,911	2,577	-	12,488	125.0%	12488
780461	JEFFRESS RESEARCH GRANTS PGM	RATZLAFF, R.	-	3,767	-	-	3,767	-	-	3,767	100.0%	3767
512961	STATE UNIVERSITY OF NEW JERSEY	REISS, C.	37,667	13,961	-	-	51,328	12,832	-	64,160	124.8%	64160
393141	US ENVIRON PROTECTION AGENCY	RESEARITS, W.	13,292	1,229	-	-	14,521	3,775	-	18,296	128.1%	18296
393401	NATL SCIENCE FOUNDATION	RESEARITS, W.	21,747	6,418	-	-	28,165	7,323	-	35,488	126.0%	35488
260091	US NAVY	SAVITZKY, A.	38,743	846	-	-	39,589	10,293	-	49,882	126.0%	49882
390791	NATL SCIENCE FOUNDATION	SAVITZKY, A.	2,343	-	-	-	2,343	1,008	-	3,351	144.7%	3351
390782	NATL SCIENCE FOUNDATION	SAVITZKY, A.	2,968	5,370	-	-	8,338	3,510	-	11,866	141.5%	11866
515681	VA DEPT GAME/INLAND FISH	SLATE, J.	546	-	-	-	546	-	-	546	100.0%	546
513641	VA WATER RESOURCE RES CTR	SLATE, J.	1,074	607	-	-	1,681	-	-	1,681	100.0%	1681
713201	JEFFRESS RESEARCH GRANTS PGM	SLATE, J.	8,871	2,148	-	-	11,019	-	-	11,019	100.0%	11019

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**FOR FISCAL YEAR 2003**

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
322021	NATL SCIENCE FOUNDATION	SONENSHINE, D.	9,284	5,510	2,269	-	17,063	6,213	23,276	-	68,695	TAC
722611	IPM TECHNOLOGIES, INC.	SONENSHINE, D.	15,388	11,699	25,930	4,301	57,318	11,377	68,695	-	518	TAC
792361	JEFFRESS RESEARCH GRANTS, PGM	SONENSHINE, D.	-	500	-	18	518	-	518	-	34,791	TAC
556389	EASTERN VIRGINIA MED AUTHORITY	SWANSON, J.	11,550	20,078	-	-	31,628	3,163	34,791	-	-	TAC
532671	HARVARD UNIVERSITY	WALLER, D.	2,561	-	-	-	2,561	-	-	-	-	-
721921	HARVARD UNIVERSITY	WALLER, D.	(11)	-	-	-	(11)	-	(11)	-	-	-
			1,528,021	487,840	98,277	196,847	2,310,985	497,355	2,808,340	-	21.52%	
<b>Chemistry and Biochemistry</b>												
300021	NATL SCIENCE FOUNDATION	COOPER, J.	27,284	4,745	-	-	32,029	13,452	45,481	-	-	TAC
514775	CENTER INNOVATIVE TECHNOLOGY	COOPER, J.	6,201	-	-	(37)	6,164	-	6,164	-	-	TAC
514776	MICRON OPTICAL SYS INC	COOPER, J.	7,963	-	-	-	7,963	1,361	9,324	-	-	TAC
524767	CENTER INNOVATIVE TECHNOLOGY	COOPER, J.	4,162	-	-	-	4,162	-	4,162	-	-	TAC
524768	MICRON OPTICAL SYS INC	COOPER, J.	3,796	-	-	-	3,796	1,594	5,390	-	-	TAC
511301	NATL SCIENCE FOUNDATION	DIAS, R.	-	-	13,315	-	13,315	-	13,315	-	-	TAC
511301	TEXAS A & M UNIVERSITY	DIAS, R.	3,289	-	-	-	3,289	855	4,144	-	-	TAC
224432	VA WATER RESOURCE RES CTR	DIAS, R.	-	2,269	-	230	2,300	-	2,300	-	-	TAC
315722	OFFICE OF NAVAL RESEARCH	DONAT, J.	21,415	-	-	1,944	23,359	8,994	32,353	-	-	TAC
320481	NATL SCIENCE FOUNDATION	DONAT, J.	4,088	551	-	-	4,639	1,949	6,588	-	-	TAC
512201	NATL SCIENCE FOUNDATION	DONAT, J.	64,236	13,199	-	-	77,435	32,523	109,958	-	-	TAC
522006	VA DEPT ENVIRON QUALITY	DONAT, J.	9,355	-	-	334	9,689	2,422	12,111	-	-	TAC
315721	NATL SCIENCE FOUNDATION	DONAT, J.	2,460	-	-	-	2,460	615	3,075	-	-	TAC
323411	NATL SCIENCE FOUNDATION	EDWARDS, R.	6,925	3,835	-	-	10,760	1,611	12,371	-	-	TAC
331931	NATL INSTITUTE-STANDARDS/TECH	EDWARDS, R.	2,309	-	-	750	3,059	7,675	10,734	-	-	TAC
301081	NATL SCIENCE FOUNDATION	EDWARDS, R.	6,953	-	-	176	7,129	2,485	9,614	-	-	TAC
503974	VA GRAD MARINE SCIENCE CONSORT	HANNIGAN, R.	7,257	5,568	-	27,737	40,258	1,723	41,981	-	-	TAC
503975	VA GRAD MARINE SCIENCE CONSORT	HANNIGAN, R.	31,479	3,058	-	-	34,537	8,962	43,500	-	-	TAC
312572	NATL OCEANIC/ATMOS ADMIN	HANNIGAN, R.	9,342	6,269	-	-	15,611	11,332	26,943	-	-	TAC
324521	NATL SCIENCE FOUNDATION	MINOR, E.	1,042	6,368	-	758	16,466	4,084	20,550	-	-	TAC
531432	MD DEPT OF NATURAL RESOURCES	MINOR, E.	1,216	1,216	-	-	2,432	946	3,378	-	-	TAC
312891	NATL SCIENCE FOUNDATION	MINOR, E.	9,960	2,310	-	-	12,270	-	12,270	-	-	TAC
313281	NATL SCIENCE FOUNDATION	MORPER, K.	47,251	7,058	3,119	-	57,428	22,809	80,237	-	-	TAC
313271	NATL SCIENCE FOUNDATION	MORPER, K.	1,808	7,328	2,387	-	11,523	3,837	15,360	-	-	TAC
324521	NATL SCIENCE FOUNDATION	MORPER, K.	1,043	4,302	-	-	5,345	4,302	9,647	-	-	TAC
730691	AMERICAN CHEMICAL SOCIETY	MORPER, K.	5,924	1,195	-	-	7,119	946	8,065	-	-	TAC
723381	AMERICAN CHEMICAL SOCIETY	MORPER, K.	15,000	1,195	-	-	16,195	2,252	18,447	-	-	TAC
220131	JEFFRESS RESEARCH GRANTS PGM	RADKIEWICZ, J.	4,459	15,000	-	-	19,459	-	19,459	-	-	TAC
324521	CAROLLO ENGINEERS	WILLIAMS, R.	15,859	2,555	-	-	18,414	7,733	26,147	-	-	TAC
220131	VIRGINIA ACADEMY OF SCIENCE	WILLIAMS, R.	44,472	1,004	4,525	(4)	50,422	42,298	92,720	-	-	TAC
394061	AIR FORCE OFFICE SCI RES	XU, N.	10,258	2,302	5,000	-	17,560	5,276	22,836	-	-	TAC
			347,954	117,915	29,346	194,192	689,407	165,017	854,424	-	23.94%	
<b>Mathematics and Statistics</b>												
320841	NATL SCIENCE FOUNDATION	ADAM, J.	13,315	421	-	12,411	26,147	1,099	27,246	-	-	TAC
210851	ARMY RESEARCH OFFICE	CHAGANTY, R.	26,171	6,327	2,556	-	35,054	13,649	48,703	-	-	TAC
110931	NASA-LANGLEY RESEARCH CENTER	HU, F.	15,168	2,163	-	-	17,331	4,506	21,837	-	-	TAC
113051	NASA-LANGLEY RESEARCH CENTER	KANEKO, H.	12,000	-	-	-	12,000	3,120	15,120	-	-	TAC
112131	NASA-LANGLEY RESEARCH CENTER	KEYES, D.	14,959	1,149	-	-	16,108	4,188	20,296	-	-	TAC
322661	NATL SCIENCE FOUNDATION	NOREN, R.	335	-	-	-	335	-	335	-	-	TAC
321281	NATL SCIENCE FOUNDATION	SCHOBBER, C.	25,690	4,228	-	216	30,134	12,555	42,689	-	-	TAC
131701	NASA-LANGLEY RESEARCH CENTER	TWEED, J.	1,004	-	-	-	1,004	262	1,266	-	-	TAC
193741	NASA-LANGLEY RESEARCH CENTER	TWEED, J.	29,359	3,496	-	-	32,855	8,542	41,397	-	-	TAC
			138,001	17,784	2,556	12,627	170,968	47,931	218,899	-	28.04%	
<b>Mathematics and Statistics - SSRP</b>												
112051	NASA-LANGLEY RESEARCH CENTER	DUNN, M.	107,608	-	-	-	107,608	27,978	135,586	-	-	SSRP
734081	NATL INSTITUTE OF AEROSPACE	DUNN, M.	14,021	-	-	-	14,021	3,646	17,667	-	-	SSRP
104241	NASA-LANGLEY RESEARCH CENTER	HEINBOCKEL, J.	145,152	2,573	-	-	147,725	38,408	186,133	-	-	SSRP
			266,781	2,573	-	-	269,354	70,032	339,386	-	26.00%	
<b>Center for Computational Science</b>												
313401	US DEPT OF ENERGY	KEYES, D.	59,050	8,261	-	972	68,283	28,271	96,554	-	-	CCS
313531	NATL SCIENCE FOUNDATION	KEYES, D.	27,061	8,659	3,000	-	38,720	15,003	53,723	-	-	CCS
710741	LAWRENCE LIVERMORE NATL LAB	KEYES, D.	82,432	16,198	-	-	98,630	25,644	124,274	-	-	CCS
			168,543	33,118	3,000	972	205,633	68,918	274,551	-	33.52%	

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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			
	Ocean, Earth and Atmospheric Sciences											
224431	OFFICE OF NAVAL RESEARCH	BURDIGE, D.	13,075	-	-	-	13,075	5,492	-	-	18,567	
263681	OFFICE OF NAVAL RESEARCH	BURDIGE, D.	29,283	3,779	-	1,944	35,006	13,886	-	-	48,892	
283612	OFFICE OF NAVAL RESEARCH	BURDIGE, D.	-	2,666	-	-	2,666	1,146	-	-	3,812	
320381	NATL SCIENCE FOUNDATION	BURDIGE, D.	38,184	34,725	4,468	1,944	79,321	30,622	-	-	109,943	
530211	UNIV OF TEXAS - ARLINGTON	BURDIGE, D.	8,286	-	-	-	8,286	2,785	-	-	11,071	
304191	US DEPT OF THE INTERIOR	CUTTER, G.	56,334	15,150	-	-	71,484	30,023	-	-	101,507	
312791	NATL SCIENCE FOUNDATION	CUTTER, G.	44,745	8,092	-	1,944	54,781	22,192	-	-	76,973	
320471	NATL SCIENCE FOUNDATION	CUTTER, G.	12,001	6,640	-	-	20,641	8,669	-	-	29,310	
324621	US DEPT OF THE INTERIOR	CUTTER, G.	2,157	860	-	156	2,993	4,250	-	-	7,243	
331111	NATL SCIENCE FOUNDATION	CUTTER, G.	5,375	-	-	-	5,375	2,258	-	-	7,633	
320381	NATL SCIENCE FOUNDATION	DARBY, D.	36,935	5,000	-	-	41,935	17,613	-	-	59,548	
320731	US DEPT OF THE INTERIOR	DARBY, D.	-	-	-	120	120	-	-	-	120	
392081	US DEPT OF ENERGY	DOBBS, F.	12,375	(240)	-	-	12,135	5,097	-	-	17,232	
503976	VA GRAD MARINE SCIENCE CONSORT	DOBBS, F.	1,884	240	-	142	2,266	892	-	-	3,158	
510891	UNIV MICH DEPT NAT RESOURCES	DOBBS, F.	71,088	26,800	-	-	97,888	11,470	-	-	109,358	
520231	VA GRAD MARINE SCIENCE CONSORT	DOBBS, F.	35,026	5,819	-	39,563	80,408	17,155	-	-	97,563	
531711	VA GRAD MARINE SCIENCE CONSORT	DOBBS, F.	4,520	-	-	-	4,520	721	-	-	5,241	
593091	UNIVERSITY OF MARYLAND	DOBBS, F.	-	2,310	-	-	2,310	970	-	-	3,280	
320341	NATL SCIENCE FOUNDATION	GARGETT, A.	28,829	3,251	2,950	1,166	36,196	13,474	-	-	49,670	
120911	NASA-LANGLEY RESEARCH CENTER	GROSCH, C.	13,775	1,050	-	-	13,775	3,582	-	-	17,357	
303430	NATL SCIENCE FOUNDATION	GROSCH, C.	2,839	1,083	983	389	3,889	1,633	-	-	5,522	
320341	NATL SCIENCE FOUNDATION	GROSCH, C.	9,610	1,083	983	389	12,065	4,491	-	-	16,556	
513331	UNIV OF ALASKA FAIRBANKS	GROSCH, C.	3,377	437	-	243	4,057	1,602	-	-	5,659	
330721	NATL SCIENCE FOUNDATION	GROSCH, C.	5,756	-	-	-	5,756	2,417	-	-	8,173	
330721	NATL SCIENCE FOUNDATION	HOFMANN, E.	16,212	-	-	-	16,212	6,809	-	-	23,021	
320341	NATL SCIENCE FOUNDATION	JOHANNESON, K.	9,610	1,083	983	389	12,065	4,491	-	-	16,556	
330721	NATL SCIENCE FOUNDATION	KLUNCK, J.	5,755	-	-	-	5,755	2,417	-	-	8,172	
312241	NATL SCIENCE FOUNDATION	KLUNCK, J.	29,427	17,517	-	-	46,944	12,206	-	-	59,150	
312571	NATL OCEANIC/TMOS ADMIN	MULHOLLAND, M.	39,070	25,828	-	1,944	66,842	16,889	-	-	83,841	
312572	NATL OCEANIC/TMOS ADMIN	MULHOLLAND, M.	14,608	9,960	-	1,186	25,754	6,387	-	-	32,141	
320472	NATL SCIENCE FOUNDATION	MULHOLLAND, M.	29,976	9,087	-	-	39,063	16,407	-	-	55,470	
330891	NATL SCIENCE FOUNDATION	MULHOLLAND, M.	-	10,000	-	-	10,000	-	-	-	10,000	
523351	VA WATER RESOURCE RES CTR	MULHOLLAND, M.	19,334	2,931	-	-	22,265	4,480	-	-	26,745	
531431	MD DEPT OF NATURAL RESOURCES	MULHOLLAND, M.	2,762	1,718	-	-	4,480	-	-	-	4,480	
720491	VA ENVIRONMENTAL ENDOWMENT	MULHOLLAND, M.	18,018	1,363	-	-	19,381	-	-	-	19,381	
502331	UNIVERSITY OF VIRGINIA	OERTEL, G.	2,201	-	-	-	2,201	573	-	-	2,774	
523881	GEORGE MASON UNIVERSITY	OERTEL, G.	6,175	2,037	1,815	454	12,481	4,289	-	-	16,770	
303430	NATL SCIENCE FOUNDATION	ROYER, T.	11,322	4,187	-	-	15,509	6,514	-	-	22,023	
513321	UNIV OF ALASKA FAIRBANKS	ROYER, T.	20,258	2,620	-	1,458	24,336	9,609	-	-	33,945	
251131	OFFICE OF NAVAL RESEARCH	SWIFT, D.	30,503	3,041	2,275	-	35,819	14,424	-	-	50,243	
372281	US DEPT OF ENERGY	SWIFT, D.	32,300	630	2,275	90,470	125,675	13,831	-	-	139,506	
330751	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A.	3,312	103	-	5,065	8,480	1,225	-	-	9,705	
522081	VA TECH	WHITECAR, R.	10,040	2,486	-	-	12,526	3,257	-	-	15,783	
532021	VA TECH	WHITECAR, R.	1,308	200	-	-	1,508	382	-	-	1,900	
711991	WEANACK LAND LTD	WHITECAR, R.	23,583	5,534	-	-	29,117	7,280	-	-	36,397	
			763,228	219,907	15,749	148,577	1,147,461	326,457	-	-	1,473,918	28.45%
	Ocean, Earth and Atmospheric Sciences - SSRP											
304199	US DEPT OF THE INTERIOR	DOBLIN, M.	1,566	2,403	-	-	3,969	1,665	-	-	5,634	SSRP
503976	VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	3,533	449	-	267	4,249	1,672	-	-	5,921	SSRP
520231	VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	5,004	831	-	5,652	11,487	2,451	-	-	13,938	SSRP
523931	YORK COUNTY VIRGINIA	DOBLIN, M.	1,111	294	-	-	1,405	1,405	-	-	1,405	SSRP
214871	OFFICE OF NAVAL RESEARCH	DOBLIN, M.	24,840	2,335	-	-	27,175	11,414	-	-	38,589	SSRP
503976	VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	16,134	2,305	-	1,369	21,808	8,585	-	-	30,393	SSRP
512331	UNIV OF NEW HAMPSHIRE	DOBLIN, M.	-	-	-	(36)	(36)	(15)	-	-	(51)	SSRP
521321	VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	15,053	11,027	2,168	45,667	73,935	10,954	-	-	84,889	SSRP
520231	VA GRAD MARINE SCIENCE CONSORT	DOBLIN, M.	10,007	1,662	-	11,304	22,973	4,901	-	-	27,874	SSRP
523931	YORK COUNTY VIRGINIA	DOBLIN, M.	1,112	294	-	-	1,406	1,406	-	-	1,406	SSRP
			80,350	21,605	2,168	64,243	168,366	41,627	-	-	209,993	24.72%

\* 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 2003**

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	SPECIAL FEES	TOTAL PROJECT COSTS		
Center for Coastal Physical Oceanography												
251901	OFFICE OF NAVAL RESEARCH	ATKINSON, L.	7,091	619	-	-	7,650	3,213	-	-	10,863	SSRP
303261	NATL OCEANIC/ATMOS ADMIN	ATKINSON, L.	17,052	-	9,324	12,916	39,294	-	-	-	39,294	SSRP
314521	NATL SCIENCE FOUNDATION	ATKINSON, L.	16,716	3,318	3,471	3,471	23,505	5,209	-	-	28,714	SSRP
314522	NATL SCIENCE FOUNDATION	ATKINSON, L.	105,752	31,095	-	-	136,847	35,581	-	-	172,428	SSRP
370865	NATL OCEANIC/ATMOS ADMIN	ATKINSON, L.	-	-	-	15,835	15,835	-	-	-	15,835	SSRP
320431	NATL SCIENCE FOUNDATION	AUSTIN, J.	18,641	1,416	-	-	20,057	8,423	-	-	28,480	SSRP
314571	NATL SCIENCE FOUNDATION	GARGETT, A.	26,997	1,559	11,827	1,944	42,267	11,969	-	-	54,236	SSRP
520651	NATL SCIENCE FOUNDATION	GARGETT, A.	7,004	421	-	-	7,425	3,119	-	-	10,544	SSRP
520651	STATE UNIVERSITY OF NEW JERSEY	GARGETT, A.	33,358	2,494	6,219	1,944	44,015	15,058	-	-	59,073	SSRP
300551	NASA-GODDARD SPACEFLIGHT CNTR	HOFMANN, E.	40,960	3,047	-	-	44,027	18,492	-	-	62,519	SSRP
304391	NATL SCIENCE FOUNDATION	HOFMANN, E.	26,180	1,073	-	-	27,253	11,446	-	-	38,699	SSRP
304391	NATL SCIENCE FOUNDATION	HOFMANN, E.	57,025	5,759	-	-	62,784	26,369	-	-	89,153	SSRP
304771	NATL SCIENCE FOUNDATION	HOFMANN, E.	16,610	17,194	-	-	33,804	14,197	-	-	48,001	SSRP
394081	NATL SCIENCE FOUNDATION	HOFMANN, E.	32,859	3,144	-	-	36,003	15,121	-	-	51,124	SSRP
504180	STATE UNIVERSITY OF NEW YORK	HOFMANN, E.	32,913	6,255	-	-	39,168	16,451	-	-	55,619	SSRP
514061	UNIVERSITY OF RHOD ISLAND	HOFMANN, E.	11,063	318	-	-	11,381	4,760	-	-	16,161	SSRP
213241	OFFICE OF NAVAL RESEARCH	KLINCK, J.	20,291	868	-	-	21,159	8,887	-	-	30,046	SSRP
722901	AMERICAN GEOPHYSICAL UNION	KLINCK, J.	3,879	-	-	578	4,457	-	-	-	4,457	SSRP
300571	NATL SCIENCE FOUNDATION	ROYER, T.	18,091	318	-	-	18,409	7,732	-	-	26,141	SSRP
322301	NATL SCIENCE FOUNDATION	ROYER, T.	3,654	-	8,683	-	12,337	1,535	-	-	13,872	SSRP
324021	NATL SCIENCE FOUNDATION	SAVIDGE, D.	4,784	-	-	-	4,784	2,009	-	-	6,793	SSRP
300051	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A	57,448	6,219	-	-	70,503	29,347	-	-	99,850	SSRP
300052	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A	2,957	-	-	-	2,957	739	-	-	3,696	SSRP
330471	NATL OCEANIC/ATMOS ADMIN	VALLE-LEVINSON, A	18,051	160	-	992	19,203	8,065	-	-	27,268	SSRP
382441	NATL SCIENCE FOUNDATION	VALLE-LEVINSON, A	-	2,321	-	-	2,321	975	-	-	3,296	SSRP
511811	VA INST OF MARINE SCIENCE	VALLE-LEVINSON, A	-	416	-	-	416	166	-	-	582	SSRP
			579,276	88,014	36,053	44,518	747,861	246,883	-	-	996,744	33.28%
Center for Coastal Physical Oceanography - SSRP												
110221	NASA-GODDARD SPACEFLIGHT CNTR	COTA, G.	72,241	5,861	3,054	-	81,156	32,707	-	-	113,863	SSRP
314441	NATL SCIENCE FOUNDATION	COTA, G.	120,102	24,826	-	-	145,028	37,708	-	-	182,736	SSRP
383761	NATL SCIENCE FOUNDATION	COTA, G.	417	586	-	812	1,915	823	-	-	2,738	SSRP
730441	SCIENCE APPLICATIONS INTL CORP	COTA, G.	-	6	-	-	6	2	-	-	8	SSRP
771864	NATL SPACE DEV AGENCY OF JAPAN	COTA, G.	26,190	-	-	-	26,190	6,810	-	-	33,000	SSRP
771865	NATL SPACE DEV AGENCY OF JAPAN	COTA, G.	2,920	2	-	-	2,922	760	-	-	3,682	SSRP
310801	NATL SCIENCE FOUNDATION	FRIEDRICH, M.	42,022	716	-	5,687	48,425	17,950	-	-	66,375	SSRP
123451	NASA-GODDARD SPACEFLIGHT CNTR	SMITH, E.	5,880	-	-	-	5,880	2,470	-	-	8,350	SSRP
724591	CONSORTIUM FOR OCEAN RESEDU	SMITH, E.	8	5,760	-	890	6,658	1,243	-	-	7,901	SSRP
292091	OFFICE OF NAVAL RESEARCH	WHEELS, G.	2,911	-	-	238	3,149	100	-	-	3,249	SSRP
510831	NATL OCEANIC/ATMOS ADMIN	WHEELS, G.	-	-	-	(135)	-	729	-	-	729	SSRP
582131	UNIVERSITY OF ILLINOIS	WHEELS, G.	1,829	-	3,054	7,492	11,375	101,302	-	-	112,677	SSRP
			274,520	37,957	3,054	7,492	323,023	101,302	-	-	424,325	31.36%

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**SCHEDULE 4**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SPONSORED PROGRAM ACTIVITY BY INDIVIDUAL PROJECT**  
(MEASURED BY EXPENDITURES INCURRED)  
**FOR FISCAL YEAR 2003**

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, TRAVEL	EQUIPMENT	SUBCONTRACTS, CONSTRUCTION, OTHER	TOTAL DIRECT COSTS	REIMBURSED INDIRECT COSTS	TOTAL SPECIAL FEES			
<b>Psychology</b>												
105252	NASA-LANGLEY RESEARCH CENTER	BALDWIN, C.	-	1,789	-	-	22,221	24,010	-	-	24,010	24,010
523491	CITY OF PORTSMOUTH	BALDWIN, C.	9,050	-	-	41	-	9,091	909	-	10,000	10,000
531781	CITY OF PORTSMOUTH	BALDWIN, C.	2,431	-	-	-	-	2,431	243	-	2,674	2,674
102452	NASA-LANGLEY RESEARCH CENTER	BLISS, J.	5,661	-	-	-	18,482	24,143	-	-	24,143	24,143
102492	NASA-LANGLEY RESEARCH CENTER	BLISS, J.	1,523	-	-	-	11,156	12,679	-	-	12,679	12,679
524237	CENTER INNOVATIVE TECHNOLOGY	BLISS, J.	15,877	1,277	-	-	-	17,154	-	-	17,154	TAC
524238	NEWPORT NEWS SHIPBUILDING	BLISS, J.	17,605	-	-	-	-	17,605	7,394	-	24,999	TAC
530241	UNIV OF NEW HAMPSHIRE - NTIC	BLISS, J.	3,666	-	-	-	-	3,666	1,539	-	5,205	5,205
732201	NEWPORT NEWS SHIPBUILDING	BLISS, J.	3,402	-	-	-	-	3,402	1,832	-	5,234	5,234
102522	NASA-LANGLEY RESEARCH CENTER	DAVIS, D.	91,725	1,018	-	22,729	2,315	103,691	26,358	-	130,049	130,049
103761	NASA-LANGLEY RESEARCH CENTER	DAVIS, D.	16,841	276	-	-	500	17,117	6,333	-	23,450	23,450
324121	NATL. SCIENCE FOUNDATION	DERLEGA, V.	3,010	60	-	-	-	3,070	1,831	-	4,901	4,901
723141	PLACEK SMALL GRANTS PROGRAM	DICKINSON, T.	3,403	956	-	-	224	4,361	-	-	4,361	4,361
732201	NEWPORT NEWS SHIPBUILDING	FREEMAN, F.	-	14	-	-	-	14	238	-	252	252
102482	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	818	2,330	-	-	80	3,228	819	-	4,047	4,047
111191	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	15,995	1,073	-	859	-	17,901	7,157	-	25,058	25,058
121341	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	3,488	1,173	-	-	-	4,661	1,958	-	6,619	6,619
131881	NASA-LANGLEY RESEARCH CENTER	FREEMAN, F.	16,840	8,142	-	3,379	-	24,962	10,493	-	35,455	35,455
505171	STATE UNIVERSITY OF NEW YORK	KELLEY, M.	-	-	-	-	-	-	-	-	-	-
515691	HAMPTON NEWPORT NEWS COMMUNIT	LEWIS, R.	46	3,204	-	-	-	3,250	-	-	3,250	3,250
515692	HAMPTON NEWPORT NEWS COMMUNIT	LEWIS, R.	9,028	179	-	-	1,500	10,707	-	-	10,707	10,707
723141	PLACEK SMALL GRANTS PROGRAM	LEWIS, R.	57,459	939	-	-	-	58,398	21,608	-	80,006	80,006
324121	NATL SCIENCE FOUNDATION	MAJOR, D.	8,679	-	-	-	-	8,679	3,646	-	12,325	12,325
202611	ARMY RESEARCH INSTITUTE	MCINTYRE, R.	33,088	1,010	-	-	22,536	56,634	14,320	-	70,954	70,954
304531	NATL SCIENCE FOUNDATION	MCNAMARA, D.	-	500	-	-	6,300	6,800	211	-	7,011	7,011
504539	UNIVERSITY OF MEMPHIS	MCNAMARA, D.	15,965	1,047	-	-	859	17,901	7,157	-	25,058	25,058
121341	NASA-LANGLEY RESEARCH CENTER	MIKULKA	2,430	-	-	-	-	2,430	243	-	2,673	2,673
531781	CITY OF PORTSMOUTH	MORROW, J.	16,066	680	-	-	-	16,746	1,875	-	18,621	18,621
504322	VA DIV OF MOTOR VEHICLES	PORTER, B.	3,581	5,500	-	-	21,587	30,668	3,067	-	33,735	33,735
521311	VA DIV OF MOTOR VEHICLES	PORTER, B.	13,546	717	-	-	-	14,263	1,426	-	15,689	15,689
523711	VA DIV OF MOTOR VEHICLES	PORTER, B.	3,047	369	-	2,900	-	6,316	342	-	6,658	6,658
533391	GEORGE MASON UNIVERSITY	SANCHES-HUCLES	1,899	60	-	-	1,770	3,729	157	-	3,886	3,886
320841	NATL SCIENCE FOUNDATION	SANCHES-HUCLES	12,879	211	-	-	-	13,090	4,843	-	17,933	17,933
324121	NATL SCIENCE FOUNDATION	SANCHES-HUCLES	55,191	6,280	-	2,323	13,695	77,469	25,809	-	103,278	103,278
111731	NASA-AMES RESEARCH LABORATORY	SCERBO, M.	16,479	1,079	-	-	886	18,444	7,375	-	25,819	25,819
121341	NASA-LANGLEY RESEARCH CENTER	SCERBO, M.	455,564	57,632	8,602	147,743	669,541	158,945	-	-	828,486	23.74%
<b>Physics</b>												
371131	NATL SCIENCE FOUNDATION	COOK, D.	-	-	3,100	-	-	3,100	-	-	3,100	3,100
350312	US DEPT OF ENERGY	DODGE, G.	47,473	5,009	4,946	-	-	57,428	22,042	-	79,470	79,470
311101	NATL SCIENCE FOUNDATION	HAVEY, M.	14,506	1,854	-	-	-	16,360	6,871	-	23,231	23,231
320161	NATO	HAVEY, M.	1,576	-	-	-	-	1,576	-	-	1,576	1,576
324421	NATL SCIENCE FOUNDATION	HAVEY, M.	1,609	-	-	-	-	1,609	-	-	1,609	1,609
350312	US DEPT OF ENERGY	HYDE-WRIGHT, C.	47,759	5,039	4,976	-	-	57,774	22,175	-	79,949	79,949
350312	US DEPT OF ENERGY	KLEIN, A.	47,759	5,039	4,976	-	-	57,774	22,175	-	79,949	79,949
704451	SOUTHEASTERN UNIV RESE ASSOC	KLEIN, A.	-	594	-	-	594	594	1	-	595	595
350312	US DEPT OF ENERGY	KUHN, S.	47,473	5,009	4,946	-	-	57,428	22,042	-	79,470	79,470
702062	VARIAN ASSOCIATES INC	MYNENI, G.	10,712	470	6,000	17,957	35,139	57,428	-	-	35,139	35,139
124380	NASA-LANGLEY RESEARCH CENTER	POPOVIC, T.	28,887	5,013	-	972	-	34,872	8,814	-	43,686	43,686
370651	US DEPT OF ENERGY	RADYUSHKIN, A.	19,680	3,277	-	-	-	22,957	9,643	-	32,600	32,600
342641	NATL SCIENCE FOUNDATION	ROBERTS, W.	3,949	3,718	-	-	-	7,667	372	-	8,039	8,039
234251	OFFICE OF NAVAL RESEARCH	SUKENIK, C.	-	3,949	-	-	-	3,949	1,659	-	5,608	5,608
323541	NATL SCIENCE FOUNDATION	SUKENIK, C.	-	1,062	-	-	-	1,062	-	-	1,062	1,062
350312	US DEPT OF ENERGY	ULMER, P.	47,759	5,039	4,976	-	-	57,774	22,175	-	79,949	79,949
124380	NASA-LANGLEY RESEARCH CENTER	VUSKOVIC, L.	28,886	5,014	-	972	-	34,872	8,814	-	43,686	43,686
133831	NASA-LANGLEY RESEARCH CENTER	VUSKOVIC, L.	3,300	2,542	-	-	-	5,842	1,542	-	7,384	7,384
703451	ACCURATE AUTOMATION CORP	VUSKOVIC, L.	15,359	4,248	2,750	-	-	22,357	8,235	-	30,592	30,592
350312	US DEPT OF ENERGY	WEINSTEIN, L.	47,758	5,040	4,976	-	-	57,774	22,175	-	79,949	79,949
			407,400	64,507	41,646	20,495	534,048	178,736	-	-	712,784	33.47%

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**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
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**FOR FISCAL YEAR 2003**

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	TOTAL PROJECT COSTS					
<b>Computer Sciences</b>															
732341	• LOS ALAMOS NATL LAB	BOLLEN, J.	5,186	1,170	-	-	6,336	-	634	-	-	6,970			
120911	• NASA-LANGLEY RESEARCH CENTER	GROSCH, C.	13,776	-	-	-	13,776	-	3,581	-	-	17,357			
303430	• NATL SCIENCE FOUNDATION	GROSCH, C.	2,859	1,050	-	-	3,889	-	1,633	-	-	5,522			
513321	• UNIV OF ALASKA FAIRBANKS	GROSCH, C.	3,377	437	-	243	4,057	-	1,602	-	-	5,659			
715591	• FACE CONSTRUCTION TECHNOLOGIES	GUPTA, A.	11,710	-	-	-	11,710	-	3,044	-	-	14,754			
354151	• NATL SCIENCE FOUNDATION	KEYES, D.	-	-	-	(8,109)	(8,109)	-	-	-	-	(8,109)			
781941	• LAWRENCE LIVERMORE NATL LAB	KEYES, D.	16,526	943	-	-	17,469	-	(2,852)	-	-	14,617			
304531	• NATL SCIENCE FOUNDATION	LEVINSTEIN, I.	7,091	216	-	4,829	12,136	-	3,069	-	-	15,205			
530161	• UNIVERSITY OF MEMPHIS	LEVINSTEIN, I.	37,631	1,349	-	-	38,980	-	16,372	-	-	55,352			
190111	• NASA-LANGLEY RESEARCH CENTER	MALY, K.	90,194	17,574	2,381	5,832	115,981	-	28,019	-	-	144,000			
313991	• NATL SCIENCE FOUNDATION	MALY, K.	73,105	22,645	-	2,592	98,342	-	40,215	-	-	138,557			
321331	• NATL SCIENCE FOUNDATION	MALY, K.	31,926	2,770	-	1,944	36,640	-	14,573	-	-	51,213			
520631	• UNIVERSITY OF VIRGINIA	MALY, K.	816	-	-	13	829	-	-	-	-	829			
721731	• ALLIANCE FOR INNOVATION IN SCI	MALY, K.	4,032	8,620	-	14,814	27,466	-	7,141	-	-	34,607			
721911	• LOS ALAMOS NATL LAB	MALY, K.	10,165	297	4,290	(1)	14,751	-	2,720	-	-	17,471			
734791	• ALLIANCE FOR INNOVATION IN SCI	MALY, K.	789	-	-	-	789	-	205	-	-	984			
220621	• SPACE AND NAVAL WARFARE SYSTEM	MORRIS, J.	-	-	-	(691)	(691)	-	-	-	-	(691)			
102551	• NASA-LANGLEY RESEARCH CENTER	MUKKAMALA, R.	3,949	451	-	(40)	4,360	-	1,133	-	-	5,493			
121521	• NASA-LANGLEY RESEARCH CENTER	MUKKAMALA, R.	43,515	705	-	1,944	46,164	-	11,498	-	-	57,662			
520371	• JAMES MADISON UNIVERSITY	MUKKAMALA, R.	39,448	5,887	-	1,944	47,279	-	-	-	-	47,279			
264141	• OFFICE OF NAVAL RESEARCH	OLARIU, S.	5,963	-	-	-	5,963	-	(5,357)	-	-	606			
524052	• JAMES MADISON UNIVERSITY	OLARIU, S.	15,116	1,656	-	-	16,772	-	-	-	-	16,772			
313401	• US DEPT OF ENERGY	POTHEN, A.	59,050	8,262	-	972	68,284	-	28,271	-	-	96,555			
381833	• US DEPT OF EDUCATION	POTHEN, A.	-	7,385	-	69,453	76,838	-	-	-	-	76,838			
732341	• LOS ALAMOS NATL LAB	POTHEN, A.	-	-	-	-	704	-	70	-	-	774			
524082	• JAMES MADISON UNIVERSITY	POTHEN, A.	574	1,241	-	-	1,815	-	-	-	-	1,815			
394051	• NATL SCIENCE FOUNDATION	WADAA, A.	4,173	3,000	-	-	7,173	-	3,013	-	-	10,186			
322681	• NATL SCIENCE FOUNDATION	WILSON, L.	335	-	-	-	335	-	-	-	-	335			
524062	• JAMES MADISON UNIVERSITY	WILSON, L.	11,337	1,241	-	-	12,578	-	-	-	-	12,578			
520631	• UNIVERSITY OF VIRGINIA	ZUBAIR, M.	817	-	-	12	829	-	-	-	-	829			
721911	• LOS ALAMOS NATL LAB	ZUBAIR, M.	10,166	297	4,290	(1)	14,752	-	2,720	-	-	17,472			
734791	• ALLIANCE FOR INNOVATION IN SCI	ZUBAIR, M.	790	-	-	-	790	-	205	-	-	995			
780051	• INTL BUSINESS MACHINES	ZUBAIR, M.	-	402	-	-	402	-	-	-	-	402			
			509,750	93,691	10,961	107,720	722,122	-	161,509	-	-	883,631	22.37%		
<b>Center for Biotechnology</b>															
712011	• LIFENET TRANSPLANT SERVICES	WOLFINBARGER, L.	89,594	5,003	-	-	94,597	-	23,649	-	-	118,246			
720522	• LIFENET TRANSPLANT SERVICES	WOLFINBARGER, L.	-	-	-	-	-	-	-	-	-	-			
730371	• LIFENET TRANSPLANT SERVICES	WOLFINBARGER, L.	21,231	-	-	-	21,231	-	5,308	-	-	26,539			
730381	• LIFENET TRANSPLANT SERVICES	WOLFINBARGER, L.	21,231	-	-	-	21,231	-	5,308	-	-	26,539			
			132,056	5,003	-	-	137,059	-	34,265	-	-	171,324	25.00%		
<b>TOTAL SCIENCES</b>			<b>\$ 5,651,444</b>	<b>\$ 1,247,546</b>	<b>\$ 251,412</b>	<b>\$ 945,476</b>	<b>\$ 8,095,828</b>	<b>\$ 2,100,977</b>	<b>\$ -</b>	<b>\$ 10,196,805</b>	<b>\$ 25.95%</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 2003**

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>Office of Research</b>												
200491	US JOINT FORCES COMMAND	SMITH, R.	5,253	-	-	-	5,253	-	-	-	5,253	ODURF
200492	US JOINT FORCES COMMAND	SMITH, R.	61,391	-	-	-	61,391	15,962	-	-	77,353	ODURF
200493	US JOINT FORCES COMMAND	SMITH, R.	21,150	-	-	-	21,150	5,489	-	-	26,649	ODURF
200494	US JOINT FORCES COMMAND	SMITH, R.	106,003	-	-	-	106,003	27,561	-	-	133,564	ODURF
200496	US JOINT FORCES COMMAND	SMITH, R.	123,277	-	-	-	123,277	32,053	-	-	155,330	ODURF
200497	US JOINT FORCES COMMAND	SMITH, R.	126,068	2,509	-	-	128,577	33,430	-	-	162,007	ODURF
200498	US JOINT FORCES COMMAND	SMITH, R.	135,478	-	-	-	135,478	6,000	-	-	141,478	ODURF
200499	US JOINT FORCES COMMAND	SMITH, R.	55,015	-	-	-	55,015	2,750	-	-	57,765	ODURF
200500	US JOINT FORCES COMMAND	SMITH, R.	51,590	-	-	-	51,590	2,500	-	-	54,090	ODURF
200501	US JOINT FORCES COMMAND	SMITH, R.	32,735	-	-	-	32,735	1,500	-	-	34,235	ODURF
201126	COMOPTVFOR	SMITH, R.	34,181	-	-	-	34,181	-	-	-	34,181	ODURF
201127	COMOPTVFOR	SMITH, R.	40,744	-	-	-	40,744	-	-	-	40,744	ODURF
201128	COMOPTVFOR	SMITH, R.	51,111	-	-	-	51,111	-	-	-	51,111	ODURF
201129	COMOPTVFOR	SMITH, R.	45,801	-	-	-	45,801	-	-	-	45,801	ODURF
201130	COMOPTVFOR	SMITH, R.	72,934	-	-	-	72,934	-	-	-	72,934	ODURF
201131	COMOPTVFOR	SMITH, R.	72,197	-	-	-	72,197	-	-	-	72,197	ODURF
			1,034,928	2,509	-	-	1,037,437	127,255	-	-	1,164,692	12.27%
<b>Office of Distance Learning</b>												
731101	NORTHROP GRUMMAN	CASIELLO, A.	202,423	4,603	34,159	-	241,185	31,054	-	-	272,239	12.88%
			202,423	4,603	34,159	-	241,185	31,054	-	-	272,239	12.88%
<b>Library</b>												
505241	UNIVERSITY OF VIRGINIA	HALECKI, J.	1,111	-	-	-	1,111	466	-	-	1,577	41.94%
			1,111	-	-	-	1,111	466	-	-	1,577	41.94%
<b>Student Services</b>												
510771	VA DEPT OF ACHOLIC BEV CONTROL	CURRY-WILLIAMS, A	-	-	-	18	18	-	-	-	18	-
514701	VA DEPT OF ACHOLIC BEV CONTROL	CURRY-WILLIAMS, A	164	1,441	-	-	1,605	-	-	-	1,605	-
721111	AMERICAN CANCER SOCIETY	CURRY-WILLIAMS, A	-	-	-	63	63	-	-	-	63	-
722891	NATL ASSOC FOR FOREIGN STUDENT A DODD, J.		3,759	-	-	-	3,759	-	-	-	3,759	-
531921	VA DEPT OF ACHOLIC BEV CONTROL	FOSS, J.	119	-	-	-	119	-	-	-	119	-
722891	NATL ASSOC FOR FOREIGN STUDENT A WASHINGTON, S.		251	-	-	-	251	-	-	-	251	-
			4,174	1,560	-	81	5,815	-	-	-	5,815	0.00%
<b>Chrom</b>												
120311	NASA-LANGLY RESEARCH CENTER	WILSON, E.	1,492	147	-	1,178	2,817	427	-	-	3,244	-
320643	NATL SCIENCE FOUNDATION	WILSON, E.	41,458	11,171	-	22,064	74,693	4,211	-	-	78,904	-
513551	STATE COUNCIL HIGHER ED IN VA	WILSON, E.	108	-	-	108	108	-	-	-	108	-
			43,058	11,318	-	23,242	77,618	4,638	-	-	82,256	5.98%
<b>Other University Units</b>												
721631	AM COUNCIL OF TEACHERS OF RUSSIAI HEYL, J		916	5,324	-	3,056	9,296	655	-	-	9,951	-
320941	NATL SCIENCE FOUNDATION	SHARPE, M	4,440	140	-	4,139	8,719	366	-	-	9,085	-
			5,356	5,464	-	7,195	18,015	1,021	-	-	19,036	5.67%
			\$ 1,291,050	\$ 25,454	\$ 34,159	\$ 30,518	\$ 1,381,181	\$ 164,434	\$ -	\$ -	\$ 1,545,615	11.91%
<b>TOTAL OTHER ACADEMIC UNITS</b>												
			\$ 16,753,980	\$ 2,638,996	\$ 1,248,913	\$ 4,003,022	\$ 24,644,911	\$ 4,916,958	\$ 29,627	\$ -	\$ 29,591,496	20.07%

\* 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 2003**

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>OTHER ACTIVITIES: SEPARATE ENTITIES AND AFFILIATED UNITS</b>											
Virginia Space Grant Consortium											
111942	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M	105,839	16,872	-	36,651	159,362	51,539	-	210,901	VSGC
111943	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M	49,647	12,487	-	101,463	163,597	26,097	-	189,694	VSGC
111945	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M	7,492	145	-	-	7,637	1,986	-	9,623	VSGC
111946	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M	28,431	941	-	-	30,372	7,897	-	38,269	VSGC
115531	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M	99,339	110,574	-	650,100	860,013	95,304	-	955,317	VSGC
115532	NATL SPACE GRANT FOUNDATION	SANDY, M	1,120	-	-	11,500	11,500	470	-	11,500	VSGC
115533	GA INSTITUTE OF TECHNOLOGY	SANDY, M	-	-	-	1,000	2,120	561	-	2,590	VSGC
115534	USRA - UNIV SPACE RES ASSOC	SANDY, M	-	2,159	-	24,000	26,159	628	-	26,720	VSGC
115535	NATL SPACE GRANT FOUNDATION	SANDY, M	-	2,417	-	20,000	22,417	628	-	23,045	VSGC
115536	NASA-GODDARD SPACEFLIGHT CNTR	SANDY, M	-	1,800	-	24,000	25,800	-	-	25,800	VSGC
115537	LOS ALAMOS NATL LAB	SANDY, M	-	2,723	-	4,000	6,723	-	-	6,723	VSGC
123501	NASA-LANGLEY RESEARCH CENTER	SANDY, M	16,265	750	-	25,701	42,716	4,424	-	47,140	VSGC
132121	NASA-LANGLEY RESEARCH CENTER	SANDY, M	5,956	539	-	6,495	6,495	1,889	-	8,194	VSGC
304151	US DEPT OF EDUCATION	SANDY, M	7,744	10,065	-	131,427	149,236	4,631	-	153,867	VSGC
320842	NATL SCIENCE FOUNDATION	SANDY, M	15,476	387	-	168,417	184,280	1,269	-	185,549	VSGC
360991	CENTER INNOVATIVE TECHNOLOGY	SANDY, M	-	22,069	-	344	22,413	5,738	-	28,151	VSGC
510601	GEORGE MASON UNIVERSITY	SANDY, M	7,329	1,925	-	87,296	95,342	14,045	-	109,387	VSGC
511561	STATE COUNCIL HIGHER ED IN VA	SANDY, M	-	727	-	118,679	118,679	-	-	118,679	VSGC
523751	GEORGE MASON UNIVERSITY	SANDY, M	8,620	751	-	12,370	12,370	3,216	-	15,586	VSGC
530191	COLLEGE OF CHARLESTON	SANDY, M	-	1,098	-	12,068	13,166	-	-	13,166	VSGC
530591	VA DEPT OF EDUCATION	SANDY, M	-	3,000	-	-	3,000	-	-	3,000	VSGC
531091	SPACE EXPLORERS INC	SANDY, M	11,692	38,909	-	8,075	58,676	13,157	-	71,833	VSGC
700321			385,950	230,338	-	1,427,710	2,023,998	232,651	-	2,256,649	11.49%
National University Teleconference Network											
100081	NATL UNIV TELCONFERENCE NETWORK	DOTOLO, L	-	-	-	139	139	12	-	151	NUTN
100084	NATL UNIV TELCONFERENCE NETWORK	SAVAGE, A	41,538	32,556	-	74,094	74,233	12	-	74,245	0.02%
Association for Consortium Leadership											
100082	PRIVATE DONATIONS	DOTOLO, L	4,753	33,584	-	-	38,337	1,533	-	39,870	4.00%
Virginia Tidewater Consortium for Higher Education											
100083	NATL UNIV TELCONFERENCE NETWORK	DOTOLO, L	-	1,768	-	-	1,768	-	-	1,768	VTC
320871	US DEPT OF EDUCATION	DOTOLO, L	292,476	40,131	2,258	-	304,865	24,208	-	329,073	VTC
380794	US DEPT OF EDUCATION	DOTOLO, L	76,889	8,691	-	-	85,580	6,848	-	92,426	VTC
			339,365	50,590	2,258	-	392,213	31,054	-	423,267	7.92%
Virginia Commercial Space Flight Authority											
120551	NASA-MARSHALL SPACEFLIGHT CNTR	REED, B	187,515	20,674	-	-	208,189	-	-	208,189	VCSFA
124261	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	29,549	2,174	4,075	3,142	38,940	13,324	-	52,264	VCSFA
124262	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	57,325	754	-	-	58,079	24,394	-	82,473	VCSFA
124263	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	1,790	-	-	-	1,790	747	-	2,527	VCSFA
124264	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	2,490	-	-	-	2,490	1,046	-	3,536	VCSFA
124265	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	21,756	96	-	29,900	51,752	9,177	-	60,929	VCSFA
124266	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	14,735	437	-	-	15,172	6,372	-	21,544	VCSFA
124267	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	29,930	963	-	82,500	113,393	12,976	-	126,369	VCSFA
124268	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	6,279	94	-	40,000	46,373	2,677	-	49,050	VCSFA
124269	NASA-GODDARD SPACEFLIGHT CNTR	REED, B	-	-	-	50,000	50,000	-	-	50,000	VCSFA
571674	VA GENERAL ASSEMBLY	REED, B	-	7,643	-	-	7,643	-	-	7,643	VCSFA
571675	VA GENERAL ASSEMBLY	REED, B	1,350	13,372	-	-	14,722	-	-	14,722	VCSFA
571676	VA GENERAL ASSEMBLY	REED, B	114,914	88,071	-	-	202,985	-	-	202,985	VCSFA
711202	PRIVATE SPONSORS	REED, B	-	39,883	-	-	39,883	-	-	39,883	VSFAI
712203	PRIVATE SPONSORS	REED, B	-	48,703	-	-	48,703	-	-	48,703	VCSFA
734821	PRIVATE SPONSORS	REED, B	1,172	-	-	72,690	73,862	492	-	74,354	VCSFA
			468,795	222,864	4,075	276,232	973,966	71,205	-	1,045,171	7.31%
Virginia Space Flight Academy											
711203	PRIVATE SPONSORS	REED, B	-	28,326	-	-	28,326	-	-	28,326	VSFAI
711209	PRIVATE SPONSORS	REED, B	-	17,900	10,346	-	28,246	-	-	28,246	VSFAI
			-	46,226	10,346	-	56,572	-	-	56,572	0.00%
<b>TOTAL OTHER ENTITIES</b>											
			\$ 1,220,401	\$ 616,158	\$ 16,679	\$ 1,706,081	\$ 3,559,319	\$ 336,455	\$ -	\$ 3,895,774	9.45%
<b>GRAND TOTAL</b>											
			\$ 17,974,381	\$ 3,255,154	\$ 1,265,692	\$ 5,709,103	\$ 28,204,230	\$ 5,253,413	\$ 29,627	\$ 33,487,270	18.73%

\* 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 2003**

SCHEDULE 5

OLD DOMINION UNIVERSITY RESEARCH FOUNDATION  
CENTER GENERATED PROJECTS REPORTED AS ACTIVITY  
OF AN ACADEMIC DEPARTMENT

(MEASURED BY EXPENDITURES INCURRED)

FOR FISCAL YEAR 2003

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					
<b>APPLIED RESEARCH CENTER (ARC):</b>														
CIVIL & ENVIRONMENTAL ENGR	193411	GUPTA, M.	9,409	530	-	-	-	9,939	2,584	-	-	12,523	ARC	
ELEC & COMPUTER ENGR	363411	ELSAIED-ALI, H.	45,738	14,998	6,577	-	-	67,313	34,852	-	-	102,165	ARC	
			55,147	15,528	6,577	-	-	77,252	37,436	-	-	114,688		
<b>TECHNOLOGY APPLICATIONS CENTER (TAC):</b>														
AEROSPACE ENGINEERING	504905	ALBERTS, T.	-	(134)	-	-	(134)	-	-	-	-	(134)	TAC	
AEROSPACE ENGINEERING	514786	ALBERTS, T.	-	-	-	-	(10)	(10)	-	-	-	(10)	TAC	
AEROSPACE ENGINEERING	514783	KANDIL, O.	3,323	-	-	-	-	3,323	-	-	-	3,323	TAC	
AEROSPACE ENGINEERING	514784	KANDIL, O.	27,733	535	-	-	-	28,268	7,350	-	-	35,618	TAC	
AEROSPACE ENGINEERING	514779	MEI, C.	11,527	-	-	-	-	11,527	-	-	-	11,527	TAC	
AEROSPACE ENGINEERING	514780	MEI, C.	41,251	-	-	-	-	41,251	10,725	-	-	51,976	TAC	
AEROSPACE ENGINEERING	524231	NEWMAN, B.	20,004	-	-	-	(4)	20,000	-	-	-	20,000	TAC	
AEROSPACE ENGINEERING	524232	NEWMAN, B.	21,095	5,527	11,274	-	1,944	39,840	6,921	-	-	46,761	TAC	
AEROSPACE ENGINEERING	713001	NEWMAN, B.	-	-	-	-	4	4	1	-	-	5	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	514775	COOPER, J.	6,201	-	-	-	(37)	6,164	-	-	-	6,164	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	514776	COOPER, J.	7,963	-	-	-	-	7,963	1,361	-	-	9,324	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	524767	COOPER, J.	4,162	-	-	-	-	4,162	-	-	-	4,162	TAC	
CHEMISTRY & BIOCHEMISTRY DEPT	524768	COOPER, J.	3,796	-	-	-	-	3,796	1,594	-	-	5,390	TAC	
ELEC & COMPUTER ENGR	504933	ASARI, V.	1,455	-	-	-	-	1,455	-	-	-	1,455	TAC	
ELEC & COMPUTER ENGR	504934	ASARI, V.	2,134	-	-	-	529	2,663	692	-	-	3,355	TAC	
ELEC & COMPUTER ENGR	573764	GERDIN, G.	-	-	-	-	7	7	7	9	-	23	TAC	
ELEC & COMPUTER ENGR	514773	MCKENZIE, F.	4,388	-	-	-	-	4,388	-	-	-	4,388	TAC	
ELEC & COMPUTER ENGR	514774	MCKENZIE, F.	4,289	-	-	-	2,600	6,889	1,801	-	-	8,690	TAC	
ELEC & COMPUTER ENGR	524759	MCKENZIE, F.	3,384	328	-	-	-	3,712	-	-	-	3,712	TAC	
ELEC & COMPUTER ENGR	524760	MCKENZIE, F.	3,474	-	-	-	-	3,474	1,459	-	-	4,933	TAC	
ENGINEERING TECHNOLOGY	523831	CONSIDINE, C.	2,937	-	-	-	-	2,937	-	-	-	2,937	TAC	
ENGINEERING TECHNOLOGY	523831	KAUFMANN, P.	652	-	-	-	-	652	-	-	-	652	TAC	
ENGINEERING TECHNOLOGY	514790	LEWIS, V.	-	-	-	-	1,002	1,002	-	-	-	1,002	TAC	
ENGINEERING TECHNOLOGY	522692	LEWIS, V.	-	-	-	-	800	800	-	-	1,700	2,500	TAC	
ENGINEERING TECHNOLOGY	523831	LEWIS, V.	2,937	-	-	-	-	2,937	-	-	-	2,937	TAC	
ENGINEERING TECHNOLOGY	514791	LIN, C.	324	47	766	-	-	1,137	-	-	-	1,137	TAC	
ENGINEERING TECHNOLOGY	514792	LIN, C.	-	132	735	-	-	2,519	74	750	-	3,343	TAC	
ENGINEERING TECHNOLOGY	514793	MOUSTAFA, M.	-	-	-	-	(2)	(2)	-	-	-	(2)	TAC	
ENGINEERING TECHNOLOGY	514794	MOUSTAFA, M.	-	-	-	-	138	138	58	-	-	196	TAC	
ENGINEERING TECHNOLOGY	514797	MOUSTAFA, M.	1,022	-	-	-	(2)	1,020	-	-	-	1,020	TAC	
ENGINEERING TECHNOLOGY	514798	MOUSTAFA, M.	721	-	-	-	1	722	303	-	-	1,025	TAC	
ENGINEERING TECHNOLOGY	524753	MOUSTAFA, M.	156	-	-	-	-	156	-	-	-	156	TAC	
ENGINEERING TECHNOLOGY	524754	MOUSTAFA, M.	107	-	-	-	-	107	-	-	-	107	TAC	
ENGINEERING TECHNOLOGY	524765	MOUSTAFA, M.	449	-	-	-	-	449	-	-	-	449	TAC	
ENGINEERING TECHNOLOGY	524766	MOUSTAFA, M.	257	-	-	-	-	257	108	-	-	365	TAC	
ENGINEERING TECHNOLOGY	524769	MOUSTAFA, M.	1,119	-	-	-	-	1,119	-	-	-	1,119	TAC	
ENGINEERING TECHNOLOGY	524775	MOUSTAFA, M.	1,295	-	-	-	-	1,295	-	-	-	1,295	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 2003**

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	
ENGINEERING TECHNOLOGY	524776	MOUSTAFA, M.	980	-	-	-	980	-	411	-	1,391	TAC
ENGINEERING TECHNOLOGY	524780	MOUSTAFA, M.	581	-	-	-	581	-	-	-	581	TAC
ENGINEERING TECHNOLOGY	524781	MOUSTAFA, M.	314	-	-	-	314	-	-	-	314	TAC
ENGINEERING TECHNOLOGY	514768	WELLS, S.	-	-	-	900	900	-	-	-	900	TAC
ENGR MANAGEMENT	524751	KEATING, C.	4,926	-	-	-	4,926	-	-	-	4,926	TAC
ENGR MANAGEMENT	524752	KEATING, C.	1,030	-	-	-	1,030	-	268	-	1,298	TAC
ENGR MANAGEMENT	514801	SOUSA-POZA, A.	3,500	-	-	-	3,500	-	-	-	3,500	TAC
ENGR MANAGEMENT	514802	SOUSA-POZA, A.	1,483	-	-	-	1,483	-	386	-	1,869	TAC
ENGR MANAGEMENT	524751	SOUSA-POZA, A.	7,088	-	-	-	7,088	-	-	-	7,088	TAC
ENGR MANAGEMENT	524752	SOUSA-POZA, A.	1,481	-	-	-	1,481	-	385	-	1,866	TAC
MECHANICAL ENGINEERING	524764	BAWAB, S.	502	-	-	-	502	-	211	-	713	TAC
MECHANICAL ENGINEERING	514781	HOU, G.	3,582	-	-	-	3,582	-	-	-	3,582	TAC
MECHANICAL ENGINEERING	514782	HOU, G.	15,812	277	-	-	16,089	-	4,183	-	20,272	TAC
MECHANICAL ENGINEERING	524757	HOU, G.	1,339	-	-	-	1,339	-	-	-	1,339	TAC
MECHANICAL ENGINEERING	524758	HOU, G.	6,300	-	-	-	6,300	-	1,638	-	7,938	TAC
PSYCHOLOGY	524237	BLISS, J.	15,877	1,277	-	-	17,154	-	-	-	17,154	TAC
PSYCHOLOGY	524238	BLISS, J.	17,605	-	-	-	17,605	-	7,394	-	24,999	TAC
PSYCHOLOGY	732201	BLISS, J.	3,402	958	-	-	4,360	-	1,832	-	6,192	TAC
PSYCHOLOGY	732201	DICKINSON, T.	3,403	958	-	-	4,361	-	1,831	-	6,192	TAC
			267,360	9,905	12,775	9,522	299,562	50,993	2,459		353,014	

<b>\$ 322,507 \$</b>	<b>25,433 \$</b>	<b>19,352 \$</b>	<b>9,522 \$</b>	<b>376,814 \$</b>	<b>88,429 \$</b>	<b>2,459 \$</b>	<b>467,702</b>
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**SCHEDULE 6**

**Selected Center Activity**

**Langley Full Scale Tunnel**

**Revenues and Expenditures**

**Fiscal Year 2003 through Fiscal Year 1999**

**SCHEDULE 6**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SELECTED CENTER ACTIVITY**  
**LANGLEY FULL SCALE TUNNEL**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 1999**

	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	\$ 1,104,304	\$ 986,148	\$ 947,040	\$ 678,096	\$ 391,850	\$ 364,400
EXPENDITURES						
Personnel & Fringe Benefits	679,187	664,386	524,662	271,844	170,693	191,356
Supplies, Contractual, General & Travel	245,497	260,518	244,977	160,314	163,493	302,269
Equipment	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	\$ 1,003,174	\$ 1,060,267	\$ 847,285	\$ 465,061	\$ 440,264	\$ 698,105
Net Revenue (Deficit)	\$ 101,130	\$ (74,119)	\$ 99,755	\$ 213,035	\$ (48,414)	\$ (333,705)
Cumulative Net (Deficit)	\$ (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 2003 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 2003 THROUGH FISCAL YEAR 2000**

	FY 03	PROPOSALS SUBMITTED		FY 00	FY 03	FY 02	FY 01	FY 00
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**UNIVERSITY ACTIVITY**

**COLLEGE OF ARTS & LETTERS**

	FY 03	FY 02	FY 01	FY 00	FY 03	FY 02	FY 01	FY 00
Art	\$ -	\$ -	\$ 20,820	\$ -	\$ -	\$ -	\$ -	\$ -
Communication & Theatre Arts	165,000	3,000	4,000	19,500	800	-	1,300	10,500
English	8,500	15,500	13,450	27,650	8,000	1,000	13,100	900
Foreign Languages & Literatures	-	415	-	-	-	415	-	-
International Studies	-	-	333,155	31,500	-	-	-	-
Music	-	7,000	1,000	21,400	1,000	-	4,750	2,500
Political Science & Geography	1,642,121	1,005,479	1,781,225	774,211	125,000	153,045	-	61,883
Social Science Research Center	849,272	2,864,259	218,489	1,139,389	663,568	628,354	261,872	174,534
Sociology & Criminal Justice	1,990,229	1,097,719	2,618,374	2,013,193	300,261	289,294	242,578	-
Dean's Office	-	2,700	-	27,728	-	-	22,028	55,599
<b>College Total</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	-6.82%	0.11%	23.08%	19.89%	2.47%	96.49%	78.36%	-8.55%
Average yearly increase ( decrease)	9.41%				57.10%			

**COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION**

Bank of America Entrepreneurial Center	\$ 223,500	\$ 189,000	\$ 45,000	\$ 150,000	\$ 252,000	\$ 10,000	\$ 145,000	\$ 125,000
Business Administration	41,161	190,000	-	-	10,350	-	-	-
Economics	85,494	8,519	-	95,488	-	-	-	7,000
Information Systems/Decision Science	956,119	-	-	-	-	-	-	-
Urban Studies/Public Administration	754,767	218,063	308,743	212,672	104,694	216,313	203,570	303,445
<b>College Total</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	240.34%	71.19%	-22.79%	91.61%	62.18%	-35.07%	-19.95%	72.09%
Average yearly increase ( decrease)	190.49%				11.26%			

**SCHEDULE 7**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF PROPOSAL AND AWARD ACTIVITY**  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 2000**

	PROPOSALS SUBMITTED			AWARDS FUNDED		
	FY 03	FY 02	FY 01	FY 03	FY 02	FY 01
<b>COLLEGE OF EDUCATION</b>						
Early Childhood, Speech Lang. Path. & Spec. Ed.	\$ 3,327,340	\$ 2,485,472	\$ 5,763,888	\$ 2,149,144	\$ 1,740,646	\$ 2,007,606
Educational Curriculum & Instruction	7,350,272	1,644,647	3,151,050	430,533	84,250	904,691
Educational Leadership & Counseling	2,185,385	651,383	1,481,075	24,689	35,000	165,000
Exercise Science, Phys. Ed. & Recreation	222,000	765,343	725,628	104,370	146,513	256,000
Foundations & Special Programs	149,617	-	-	-	-	-
Occupational & Technical Studies	493,765	124,251	31,150	26,550	28,043	-
Dean's Office	1,827,771	241,600	413,353	100,000	67,600	224,329
<b>College Total</b>	<b>\$ 15,556,150</b>	<b>\$ 5,912,696</b>	<b>\$ 11,566,144</b>	<b>\$ 2,835,286</b>	<b>\$ 2,102,052</b>	<b>\$ 3,557,626</b>
% Change from prior year	163.10%	-48.88%	84.08%	34.88%	-40.91%	148.26%
Average yearly increase ( decrease)	198.46%			98.17%		149.01%
<b>COLLEGE OF ENGINEERING &amp; TECHNOLOGY</b>						
Aerospace Engineering	\$ 2,852,394	\$ 11,663,509	\$ 6,722,334	\$ 1,676,857	\$ 733,018	\$ 2,181,686
ARC: Applied Research Center	1,986,887	5,704,109	15,062,184	683,824	329,143	1,211,739
Center for Advanced Engineering Environments	1,391,454	-	880,000	-	-	697,171
Center for Bioelectronics	1,335,332	-	-	1,950	-	-
Civil & Environmental Engineering	870,970	1,824,585	2,854,053	302,394	1,205,748	708,339
Electrical & Computer Engineering	9,948,721	14,025,662	10,479,000	3,430,228	3,081,093	1,419,147
Electrical & Computer Engineering - SSRP	-	45,273	218,910	-	-	109,455
Engineering Management	622,830	667,385	816,905	161,862	276,212	466,543
Engineering Technology	4,524,501	3,226,585	2,003,991	233,127	508,046	155,629
Mechanical Engineering	6,459,703	2,643,737	10,011,126	1,324,447	720,446	1,548,934
TAC: Technology Applications Center	487,482	862,037	70,443	569,152	409,270	202,943
VMASC: Virginia Modeling, Analysis & Simulation Center	40,968,974	4,814,027	14,966,417	4,708,099	5,215,624	3,535,817
Dean's Office	-	46,769	-	40,000	-	-
<b>College Total</b>	<b>\$ 71,449,248</b>	<b>\$ 45,523,678</b>	<b>\$ 64,085,363</b>	<b>\$ 13,131,940</b>	<b>\$ 12,478,600</b>	<b>\$ 12,237,403</b>
% Change from prior year	56.95%	-28.96%	182.60%	5.24%	1.97%	45.66%
Average yearly increase ( decrease)	45.11%			24.16%		25.81%

**SCHEDULE 7**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF PROPOSAL AND AWARD ACTIVITY**  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 2000**

	PROPOSALS SUBMITTED			AWARDS FUNDED		
	FY 03	FY 02	FY 01	FY 03	FY 02	FY 01
<b>COLLEGE OF HEALTH SCIENCES</b>						
Community & Environmental Health	\$ 20,000	\$ 156,738	\$ 49,507	\$ -	\$ 49,000	\$ -
Dental Hygiene	84,921	105,132	26,773	63,298	19,452	11,621
Medical Laboratory & Radiation Sciences	20,000	99,971	414,560	-	-	-
Nursing	1,642,361	1,912,528	2,108,072	-	-	21,012
Physical Therapy	26,548	1,347,154	-	-	5,000	-
Dean's Office	438,144	-	-	-	-	-
<b>College Total</b>	<b>\$ 2,231,974</b>	<b>\$ 3,621,523</b>	<b>\$ 2,598,912</b>	<b>\$ 63,298</b>	<b>\$ 73,452</b>	<b>\$ 32,633</b>
% Change from prior year	-38.37%	39.35%	1.64%	-13.82%	125.09%	-34.33%
Average yearly increase (decrease)	95.70%			65.38%		
<b>COLLEGE OF SCIENCES</b>						
Biological Sciences	\$ 4,122,726	\$ 11,341,384	\$ 12,444,796	\$ 2,429,749	\$ 2,628,968	\$ 2,789,130
Center for Biotechnology	53,078	-	483,900	53,078	88,794	428,168
Center for Coastal Physical Oceanography	5,901,887	1,390,633	11,322,289	974,668	1,115,507	1,331,923
Center for Coastal Physical Oceanography - SSRP	1,488,861	192,090	7,296,850	232,109	294,111	696,111
Chemistry and Biochemistry	10,159,913	8,727,432	17,125,148	287,169	1,294,708	1,233,371
Computer Science	6,435,362	4,578,087	11,001,006	953,999	1,375,932	961,190
Mathematics and Statistics	8,363,252	2,148,303	4,370,563	424,509	551,028	464,023
Mathematics and Statistics - SSRP	211,559	-	303,595	74,041	139,554	90,000
Ocean, Earth & Atmospheric Sciences	7,276,346	8,559,538	17,911,480	1,405,445	2,853,611	1,605,545
Ocean, Earth & Atmospheric Sciences - SSRP	655,933	185,566	336,269	168,512	182,737	5,000
Physics	3,236,560	14,742,991	3,584,371	778,749	786,020	762,929
Psychology	1,138,236	3,990,880	7,479,622	750,644	645,112	3,307,779
Dean's Office	19,417	1,138,780	173,653	-	-	-
<b>College Total</b>	<b>\$ 49,063,130</b>	<b>\$ 56,995,704</b>	<b>\$ 93,833,542</b>	<b>\$ 8,532,672</b>	<b>\$ 11,956,082</b>	<b>\$ 13,675,169</b>
% Change from prior year	-13.92%	-39.26%	112.58%	-28.63%	-12.57%	6.74%
Average yearly increase (decrease)	6.31%			-4.08%		
<b>OTHER</b>						
College Total	\$ 4,392,187	\$ 1,963,127	\$ 3,365,181	\$ 2,651,203	\$ 814,673	\$ 2,079,611
% Change from prior year	24.90%	-33.84%	124.33%	-0.15%	-11.56%	36.84%
Average yearly increase (decrease)	27.96%			14.59%		
<b>TOTAL - UNIVERSITY UNITS</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>
% Change from prior year	24.90%	-33.84%	124.33%	-0.15%	-11.56%	36.84%
Average yearly increase (decrease)	27.96%			14.59%		
<b>TOTAL</b>	<b>\$ 28,660,072</b>	<b>\$ 28,723,280</b>	<b>\$ 32,476,640</b>	<b>\$ 28,660,072</b>	<b>\$ 28,723,280</b>	<b>\$ 32,476,640</b>
% Change from prior year	-0.21%	0.22%	14.28%	-0.21%	-0.21%	14.28%
Average yearly increase (decrease)	14.59%			14.59%		
<b>College Total</b>	<b>\$ 49,063,130</b>	<b>\$ 56,995,704</b>	<b>\$ 93,833,542</b>	<b>\$ 49,063,130</b>	<b>\$ 56,995,704</b>	<b>\$ 93,833,542</b>
% Change from prior year	-13.92%	-39.26%	112.58%	-13.92%	-39.26%	112.58%
Average yearly increase (decrease)	6.31%			6.31%		
<b>College Total</b>	<b>\$ 4,392,187</b>	<b>\$ 1,963,127</b>	<b>\$ 3,365,181</b>	<b>\$ 4,392,187</b>	<b>\$ 1,963,127</b>	<b>\$ 3,365,181</b>
% Change from prior year	24.90%	-33.84%	124.33%	24.90%	-33.84%	124.33%
Average yearly increase (decrease)	27.96%			27.96%		

**SCHEDULE 7**  
**OLD DOMINION UNIVERSITY RESEARCH FOUNDATION**  
**SUMMARY OF PROPOSAL AND AWARD ACTIVITY**  
**FOR UNIVERSITY AND NON-UNIVERSITY UNITS**  
**FISCAL YEAR 2003 THROUGH FISCAL YEAR 2000**

	PROPOSALS SUBMITTED			AWARDS FUNDED				
	FY 03	FY 02	FY 01	FY 00	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	-	42,498	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	457,043	405,708	371,395	364,113
VA Space Grant Consortium	1,664,439	651,559	5,462,541	1,741,247	2,484,339	1,915,929	1,809,047	1,331,735
VA Commercial Space Flight Authority	100,000	4,333,140	500,859	364,983	547,752	1,218,465	596,157	364,983
<b>Total Non-University Activity</b>	<b>\$ 2,062,586</b>	<b>\$ 5,547,090</b>	<b>\$ 8,780,457</b>	<b>\$ 5,100,143</b>	<b>\$ 3,489,134</b>	<b>\$ 3,718,851</b>	<b>\$ 3,106,393</b>	<b>\$ 2,639,831</b>
% Change from prior year	-62.82%	-36.82%	72.16%	84.63%	-6.18%	19.72%	17.67%	-35.75%
Average yearly increase ( decrease)	-6.33%				-3.77%			
<b>GRAND TOTAL</b>	<b>#####</b>	<b>#####</b>	<b>#####</b>	<b>\$ 85,694,494</b>	<b>\$ 32,169,206</b>	<b>\$ 32,442,131</b>	<b>\$ 35,583,033</b>	<b>\$ 26,373,870</b>
<b>% CHANGE FROM PRIOR YEAR</b>	21.02%	-33.98%	121.22%	16.93%	-0.84%	-8.83%	34.92%	18.70%
Average yearly increase ( decrease)	26.67%				11.20%			