



Texas A&M University

College of

Geosciences

Space Needs Assessment



Council for the Built Environment

Office of

Facilities Coordination

February 2010

Campus Wide Space Needs Assessment

Office of Facilities Coordination
Texas A&M University



Units to be Assessed



- **Agriculture & Life Sciences**
 - Academic Units
 - AgriLife Research
 - AgriLife Extension
 - Texas Forest Service
 - Texas Veterinary Medical Diagnostic Laboratory
- **Architecture**
- **Bush School of Government & Public Service**
- **Mays Business School**
- **Education & Human Development**
- **Dwight Look College of Engineering**
 - Academic Units
 - Texas Engineering Experiment Station
 - Texas Engineering Extension Service
 - Texas Transportation Institute
- **Geosciences**
- **Liberal Arts**
- **Science**
- **Veterinary Medicine & Biomedical Sciences**

Provost Request
•Academic Support Units



Geosciences

Square Feet

Normalized Need:	(6,375)
• Phase I Gain	+ 2,375
Post Phase I Need	(4,000)
• Phase II Gain	+4,621
Post Phase II Need	621
• Fall 2008 SNAPS	(47,957)



Geosciences



Summary

Space Needs

- Space Management Practices
- Quality vs Quantity
 - Priority on Renovations
- IODP Renovations
 - Odyssey/NSF priority
- GERG Status
- Storage Cost
 - Research Support
 - Riverside Campus
- Building Design
 - O&M efficiencies difficult

Fire & Life Safety

Facility Condition

Department Detail

COMPUTED SPACE NEEDS **DRAFT** Fall 2008

Summary By Unit **Geosciences**

PG Department/User Name	Assignable Area			Actual of Computed	Headcount Personnel
	CURRENT Area	Computed NEED	Difference		
3 Dean's Office	16,195	17,507	-1,312		40
8 Geochemical & Environmental Res Grp	22,341	29,499	-7,158		33
13 Geography	25,590	25,936	-346		90
18 Geology & Geophysics	72,803	90,203	-17,400		124
23 Atmospheric Sciences	30,090	30,230	-140		100
28 Oceanography	58,432	74,849	-16,417		121
33 IODP: Integrated Ocean Drilling Pgm	87,067	89,708	-2,641		151
38 Sea Grant	6,111	8,666	-2,545		15
44 APPENDIX: Personnel Summary	0	0	0		0
47 APPENDIX: Personnel Detail List	0	0	0		0
67 APPENDIX: Special Use Request	0	0	0		0
71 APPENDIX: Space Inventory	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
Total	318,629	366,586	-47,957	86.9%	674
Adjustments					
Plus Classrooms	536	0	0		0
Less:	0	0	0		0
Adjusted Total	319,165	366,586	-47,421		674



Geosciences

Faculty Reinvestment
Council for the Built Environment

Phase I Report

May 2006

College	Department	Assignable Area		Total & Phase I	Total Current	Actual Cost
		Current	Net New			
Geosciences		4,448	2,375	7,499	6,823	\$ 142,167
Butler space to Science	Geography	660	(660)	0	0	\$ -
DPC Addition Expansion	Geography	0	6,823	6,823	6,823	\$ 126,123
GERG West to TCE		3,788	(3,788)	0	0	\$ -
O+M Renovation			3,175	3,175	3,175	\$ 16,044

Phase II

Faculty Reinvestment Space Status

Council for the Built Environment (CBE)

Space Assignments by Year

#	College	CBE post phase 1 assessed need	YEAR					TOTAL Assignable Area	Assignable SF Remaining Need
			2006	2007	2008	2009	2010		
	Geosciences	4,000	-	4,621	-	-	-	4,621	(621)
23	Teague		-	1,831	-	-	-	1,831	
24	ILSB Partnership		-	-	-	-	-	-	
25	DPC Annex		-	2,790	-	-	-	2,790	



Geosciences

Square Feet

Normalized Need: (6,375)

- Phase I Gain + 2,375

Post Phase I Need (4,000)

- Phase II Gain +4,621

Post Phase II Need 621

- Fall 2008 SNAPS (47,957)



Planning Horizon



Fall 2015

- CBE engages Colleges
 - ✓Discuss Strategic Priorities
 - ✓Impact on Space Needs
 - ✓Planning Horizon: 5 Years

Feb/March 2010

Fall 2008

- Current Space Needs Assessment
 - Post Faculty Reinvestment
 - Establishes the Planning Standards
 - Basis future projections



Geosciences



Department Detail

COMPUTED SPACE NEEDS

DRAFT Fall 2008
Geosciences

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Facility Condition Analysis (FCA)

College of Geosciences

Texas A&M University

Building #	Building Name	Year Built	GSF	Replacement Cost	Total Project Cost *	FCNI **	Assigned GSF	% Assigned GSF	Share of Project Cost
105	TRAILER HOUSE @ Tereco		1,394	n/a	n/a	n/a	1,394	100.00	n/a
108	TRAILER HOUSE @ Tereco		978	n/a	n/a	n/a	978	100.00	n/a
109	TRAILER HOUSE @ Tereco		366	n/a	n/a	n/a	366	100.00	n/a
443	OCEANOGRAPHY & METEOROLOGY BUILDING	1973	180,316	70,357,000	\$41,487,549	0.59	173,201	96.05	\$6,223,132
445	TEAGUE RESEARCH CENTER	1966	63,515	23,801,000	\$12,385,156	0.52	3,841	6.05	\$1,857,773
490	HALBOUTY GEOSCIENCES BUILDING	1931	120,874	43,180,000	\$13,974,186	0.32	114,908	95.06	\$2,096,128
517	DPC ANNEX	1966	26,220	7,296,000	\$5,642,335	0.77	11,834	45.13	\$846,350
1597	IODP HAZMAT CONTAINMENT		85,075	n/a	n/a	n/a	30	0.04	n/a
1601	INTEGRATED OCEAN DRILLING BUILDING	1986	86,576	21,473,000	\$16,025,325	0.75	77,391	89.39	\$2,403,799
3003	OCEANOGRAPHY BUILDING	n/a	n/a	n/a	n/a	n/a	3,256	n/a	n/a
3050	GERG MAIN OFFICE BUILDING	1980	16,393	6,396,000	\$1,956,289	0.31	9,928	60.56	n/a
3051	GERG EAST LAB & OFFICE BUILDING	1999	9,654	3,596,000	\$511,356	0.14	6,468	67.00	n/a
3053	GERG PORTABLE BUILDING	1999	693	180,000	\$12,882	0.07	693	100.00	n/a
3054	GERG WAREHOUSE	1999	5,530	687,000	\$155,679	0.23	4,860	87.88	n/a
3055	GERG SOLVENT SHED	1999	293	36,000	\$1,150	0.03	196	66.89	n/a
3056	GERG GAS SHED	1999	293	36,000	\$1,150	0.03	196	66.89	n/a
3400	UNIVERSITY SERVICES BLDG	1982	153,000	32,072,000	\$4,400,303	0.14	16,909	11.05	\$660,045
7003	OFFICE BLDG		3,746	n/a	n/a	n/a	179	4.78	n/a
8031	IODP/OCEANOGRAPHY BLDG		30,389	n/a	n/a	n/a	26,023	85.63	n/a
8032	OCEAN DRILLING TEST FACILITY		520	n/a	n/a	n/a	520	100.00	n/a
8512	WAREHOUSE		9,838	n/a	n/a	n/a	2,921	29.69	n/a
8516	WAREHOUSE		12,587	n/a	n/a	n/a	4,829	38.36	n/a

* Includes capital renewal, deferred maintenance and plant adaptation for the next ten years

** Facility condition needs index (total project cost / replacement cost)

**Fire and Life Safety Report for College of Geosciences Facilities
February 10, 2010**

Acronyms: FAS – Fire alarm system
FCA – Facility condition analysis
SFM – State Fire Marshal

0105, 0108, 0109 - Trailer Houses (3) @ Tereco

- Old FAS – Very little coverage; no sprinkler
- Items on FCA List – None

0108 - Trailer House @ Tereco

- Old FAS – Very little coverage; no sprinkler
- Items on FCA List – None

0109 - Trailer House @ Tereco

- Old FAS – Very little coverage; no sprinkler
- Items on FCA List – None

0443 - Oceanography & Meteorology Building

- Fully Sprinkled, good FAS, SFM approved compliance; needs some exit sign and emergency lighting upgrade
- Items on FCA List – Exit signs and Emergency light upgrade; fire rating compromises (penetrations)

0445 - Teague Research Center

- Not sprinkled; good FAS; Has general FLS minor issues – hardware, door ratings not code compliant, needs exit signs and emergency lighting upgrade
- Items on FCA List – Sprinkler system

0490 - Halbouty Geosciences Building

- Not sprinkled; needs FAS replacement; exit signage and emergency lights
- Items on FCA List – Exit signs; FAS; Sprinkler; Elevator Lobby Enclosure

0517 - DPC Annex

- Not sprinkled; Fairly new FAS; needs exit sign and emergency lighting upgrade
- Items on FCA List – Fire Sprinkler & Exit Signage

1597 - IODP Hazmat Containment

- Small 20 sqft building – For core samples – not occupied; equipped with detector and Hawkeye – no concerns from FLS standpoint
- Items on FCA List – None

1601 - Integrated Ocean Drilling Building

- Only sprinkler is a water curtain between shop and office areas.
- 2 separate fire alarm systems - Old system needs to be replaced or added to new system installed with the addition a few years ago.
- Items on FCA List – Fire alarm; exit signs; sprinkler

2914 - 2700 Earl Rudder Fwy South, Suite 1800

- Leased Property – No information

3003 - OCEANOGRAPHY BUILDING

- Galveston Campus

3050 - GERG Main Office Building

- Off Graham Road; Labs & offices – old FAS
- Items on FCA List – FAS

3051 - GERG East Lab & Office Building

- Off Graham Road;
- Labs & offices – old FAS
- Items on FCA List – Sprinkler

3053 - GERG Portable Building

- Off Graham Road
- No sprinkler or FAS
- Items on FCA List –None

3054 - GERG Warehouse

- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – Sprinkler & emergency lights

3055 - GERG SOLVENT SHED

- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – None

3056 - GERG GAS SHED

- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – None

3400 - UNIVERSITY SERVICES BLDG

- ½ of building without active sprinkler coverage
- Very old FAS
- Items on FCA List – Emergency Shower; Fire Alarm System; Exit signs

8031 - IODP/OCEANOGRAPHY BLDG

- Riverside facility – no sprinkler, FAS, emergency light/exit sign
- Items on FCA List – None

8032 - OCEAN DRILLING TEST FACILITY

- Riverside facility – no sprinkler, FAS, emergency light/exit sign
- Items on FCA List – None

8512 - WAREHOUSE

- Riverside facility – no sprinkler, FAS, emergency light/exit sign
- Non-occupied facility
- Items on FCA List – None

8516 - WAREHOUSE

- Riverside facility – no sprinkler, FAS, emergency light/exit sign
- Non-occupied facility
- Items on FCA List – None