

# Record expected in research expenditures

## University officials say Texas A&M will exceed \$245 million

University News Service  
 Research expenditures at Texas A&M for fiscal year 1988 are expected to exceed \$245 million — a record amount. University officials expressed confidence Monday that A&M will for the first time be ranked among the top 10 institutions in the annual fall listings of the National Science Foundation.

Figures from the fiscal year that ended Aug. 31 show an increase of about \$26 million in 1986-87 for A&M and its associated research agencies of the A&M System.

Although still officially considered preliminary, the figures are expected to vary little from the initial tabulations when completed, University officials said.

The A&M figures that will be included in forthcoming NSF compilations are based on the most current period for which national comparative figures are complete — the 1987 fiscal year, in A&M's case.

Because NSF normally does not include research expenditures in areas outside of science and technology, institutions may not have all of their research dollars counted in the figures compiled by NSF officials said.

A&M administrators said that the University should retain the position it has

held for more than a decade as the research leader in the South and Southwest.

Officials also said that the institution had risen dramatically in its volume of industry-sponsored research, moving to a national ranking of ninth in the 1986-87 fiscal year (with \$13.4 million) from 20th the previous year (\$7.9 million).

During that same two-year period, graduate enrollment in science and engineering fields at A&M rose from 17th nationally to 14th, and overall graduate enrollment at the University this fall set a new record of 7,500. Officials viewed the developments as further evidence of A&M's growing commitment to graduate education.

The \$245 million in research expenditures in the past fiscal year, when adjusted with a standard multiplier effect, resulted in an economic impact generated by the A&M System of at least \$750 million during 1987-88, A&M President William H. Mobley said.

Each additional million dollars in research typically creates an average of five new faculty or professional positions, six technical or clerical positions and support for 10 graduate students, Mobley said. Last year's increase translates into nearly 300 new jobs and sup-

port for a similar number of graduate students, he said.

"We are obviously proud to be a national leader in research," Mobley said. "In addition to being a vital element of the higher education process, research can be a significant economic factor for our state and nation as exemplified by the some three-quarters of a billion dollars attributed to our volume when the multiplier effect is added.

"More importantly, however, the institution's position near the top in research volume means that we are busily creating and adding to new knowledge in keeping with the mandate of research universities. Learning for its own sake is justification enough, but this new expertise will be needed to keep Texas and the U.S. competitive in a global village situation."

University officials say expenditures for the fiscal year just ended include \$206.6 million in sponsored grants and contracts from federal, state and private organizations.

speaker in a series of speeches on the Japanese economy.

Barney said the primary reason why Japanese products are dominating U.S. and Japanese markets is their superior quality.

"In the sixties, Japanese products were laughed at, but now they are the best in the world," Barney said. "Since then, one product after another has become extremely successful on the consumer market. VCR's and CD players are all Japanese now. There are virtually no consumer electronics products nowadays that are not made in Japan."

He said even though the Japanese

product may be more expensive, the consumer is willing to pay the extra cost.

"You take a General Motors car and a Honda and there's no comparison," he said. "Despite the fact that the cost of Japanese products is becoming more expensive than their U.S. counterparts, the fact is we like their products and they like their products better. We still have a ways to go to catch up."

Only understanding their culture better and improving the quality of our own products can reverse this trend, Barney said.

"We have to make something the

Japanese will want more than their own products," he said. "We must come up with the awesome product. We must out-Japanese the Japanese. We can only do this by drastically improving our quality."

Barney said he does not expect Japan to stay on top of the economic world for long. He said he expects its position to be overtaken by other Asian countries.

"I predict in ten years, Korea will be the rising economic power in the world," he said. "In 20 years, China will be moving from communism to capitalism."

## Professor: U.S. can work with Japan

By Richard Tijerina  
 Staff Writer

United States and Japanese trade relations are steadily growing apart, and the United States must act soon to counter this economic trend, management professor Jay Barney said Monday.

In a speech given to the MSC Students Conference On National Affairs, Barney said the only way to resolve this disturbing trend is through improved quality of American products and an understanding of Japanese culture and management systems.

Barney was the third and final

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# Researchers find disease fault of felines

By Jacquelyn Smith  
 Reporter

Researchers are beginning to unravel a medical "whodunit" that seems to leave cats holding the bag.

"Cat scratch disease," or CSD, has left veterinarians and physicians puzzled for years, Dr. John R. August said.

August, a veterinarian and head of small animal medicine and surgery in the Texas A&M Veterinary Medical Center, said the disease has been recognized for years, but that the bacteria that cause the disease were discovered only recently in people who have the illness.

"It's a historic disease and physicians have known about it for years, but it's only been identified in the last four years," he said.

CSD is a bacterial infection that is transmitted to humans, especially chil-

dren, through cat scratches — cats carry the bacteria on their claws.

The disease is not contagious, and the CSD bacteria live only two or three weeks.

Although CSD isn't life-threatening, August said some of its symptoms are similar to those of more serious diseases such as brucellosis, mononucleosis, syphilis, toxoplasmosis, tuberculosis, tularemia and several kinds of cancer.

Symptoms of CSD include fever, headaches, loss of appetite, tender or painful muscles, inflamed lymph glands and a pus-filled blister at the site of the scratch.

"Most people who get the symptoms of the disease have a rather mild case that comes and goes by itself without treatment," August said.

Physical reactions to CSD usually be-

**"It's one of those diseases that's been a mystery right up until the mid-1980s. Finally the mystery has been solved."**

**Dr. John R. August,**  
 head of small animal medicine and surgery  
 Texas Veterinary Medical Center at Texas A&M

because when people finally realize they are sick, the disease is usually in its latter stages and the bacteria are beginning to die, August said.

A skin test using purified pus from infected lymph nodes is used to diagnosis the disease.

"The test is a sensitive procedure, and at this time is relatively painless and has no side effects," he said.

August said investigators do not know whether the bacterium they are dealing with previously has been identified, but it is known that the organism thrives at a temperature slightly below normal human body temperature.

Subsequently, researchers have found that the Texas nine-banded armadillo is an ideal candidate for use in tests to determine how the bacteria behave because

the armadillo's normal body temperature allows the bacteria to thrive.

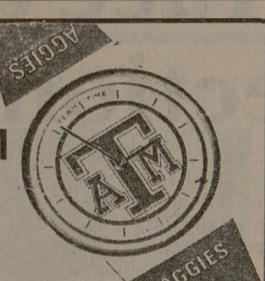
August said an active research program has not yet been established at A&M.

In the past, bites and scratches from dogs, rabbits, monkeys, porcupines, thorns and splinters were thought to cause CSD. But, researchers now have an increased interest in culturing bacteria from cats' mouths because cats were involved in 99 percent of the reported CSD cases, August said.

"It's one of those diseases that's been a mystery right up until the mid-1980s," he said. "Finally the mystery has been solved."

No vaccine for cats is available, but August said a vaccine is not necessary because the disease is sporadic.

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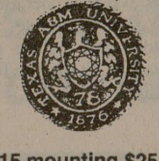
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1.78	4,965	10,000	.60	795	1,500			.73	1,850	3,200	1.22	2,250	5,000	1.10	3,275	5,300
1.61	5,325	11,500	.58	850	1,600					1.18	2,250	4,500	1.06	3,875	7,600	
1.51	3,875	7,000	.57	795	1,500					1.11	2,750	5,400	1.06	2,675	4,900	
1.43	5,550	12,000	.55	695	1,400					.89	1,850	4,000	1.02	2,275	3,900	
1.24 w/GIA report	2,500	5,000	.56	695	1,400					1.11	2,750	5,400	1.04	1,275	2,200	
1.18	2,325	4,600	.55	695	1,400					.89	1,850	4,000	.89	1,750	3,300	
1.17	2,750	5,000	.51	1,250	2,500					.70	1,395	2,780	.82	1,795	3,590	
1.11	2,350	4,600	.55	795	1,500					.65	1,195	2,390	.79	1,575	2,900	
1.11	3,950	8,000	.55	895	1,700					.63	895	1,600	.74	1,895	3,600	
1.09	2,195	4,000	.53	595	1,000					.62	1,275	2,400	.72	795	1,600	
1.09	2,750	5,000	.53	695	1,400					.58	1,195	2,000	.72	1,650	3,300	
1.09	3,850	7,000	.53	795	1,500					.58	995	1,800	.71	2,130	4,200	
1.05 w/GIA report	2,950	2,950	.52	875	1,600					.58	995	1,800	.71	2,095	4,100	
1.04	2,150	4,000	.52	795	1,500					.57	1,225	1,400	.70	1,795	3,300	
1.03	2,850	6,000	.52	795	1,500					.53	1,225	1,400	.70	2,250	4,400	
1.03	2,195	4,000	.56	895	1,700					.51	1,095	2,200	.64	1,250	2,400	
1.03	3,875	8,000	.51	795	1,500					.41	795	1,400	.61	1,385	2,700	
1.04	1,495	3,000	.50	695	1,300					.28	312	600	.61	975	1,800	
1.01	1,895	4,000	.50	795	1,500					.50	1,050	2,000	.55	850	1,700	
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1.01	2,105	4,000	.48	695	1,400					.28	312	600	.61	975	1,800	
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.93	1,595	3,000	.47	695	1,400								.50	825	1,600	
.92	1,850	4,000	.46	650	1,200								.49	795	1,500	
.92	1,650	3,200	.46	595	1,100								.47	795	1,300	
.91	3,195	6,000	.44	595	1,100								.45	795	1,500	
.90	1,750	3,100	.44	495	1,000								.41	650	1,300	
.89	1,350	2,600	.43	575	1,200								.39	795	1,500	
.89	895	1,700	.39	275	500								.35	495	900	
.88	1,340	2,600	.37	375	600								.25	250	500	
.85	1,685	3,000	.36	335	600								.23	275	500	
.85	2,150	4,000	.34	335	600								.18	195	400	
.83	1,595	3,000	.33	275	500								.11	110	200	
.81	2,250	4,600	.30	335	600											
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.75	1,195	1,900	.19	165	300											
.75	1,375	2,200	.18	155	300											
.75	1,305	2,600	.16	118	200											
.74	1,480	2,800	.15	111	200											
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.73	1,125	2,200	.10	78	140											
.72	1,395	2,600	.09	63	120											
.71	1,150	2,600	.08	55	110											
.71	1,395	2,700	.07	48	90											
.71	1,395	2,700	.06	45	90											
.71	1,050	2,100	.05	41	80											
.70	1,295	2,700	.04	35	70											
.70	795	1,400	.03	30	60											
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