








University at Buffalo
The State University of New York

School of Engineering and Applied Sciences

UB Engineering and Applied Sciences Dean's Quarterly Report #12 April 1, 2009 to June 30, 2009

1. Leadership 	2. Year -End Data 	3. Recognition 	1. Lab 	2. Events and Visits 
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1. Leadership: Batalama, Kofke, and Nagi



Three leadership appointments and reappointments occurred this past quarter.

Professor Stella Batalama has accepted the position of Associate Dean for Research in our school, and began her assignment on July 1, 2009. Professor Batalama has been a strong contributor to many SEAS activities, and has provided exceptional leadership for the EE Wireless Communication Group at UB. She received her PhD degree in Electrical Engineering from the University of Virginia in 1994. She joined UB's Department of Electrical Engineering as an assistant professor in 1995, was promoted to an associate professor in 2001, and to full professor in 2007. As a recognized expert in the field of Communications, she has been awarded more than \$2M in research awards from NSF and AFOSR; she spent a year as an acting director at the Rome Air Force Research Laboratory; and she serves in several roles in the IEEE Communications Division. In her role as Associate Dean, Stella will help the faculty and school increase our proposal success rate and encourage expanded research activities by interdisciplinary teams, as well as by individual investigators.



It is also a great pleasure to announce David Kofke's reappointment as CBE Department Chair, for a second three-year term, and Rakesh Nagi's reappointment as ISE Department Chair for a second three-year term. In my conversations with the faculty and staff in each department, I was continually and uniformly encouraged to reappoint David and Rakesh. Their accomplishments over the past three years have been significant and have greatly advanced their departments and the school; the potential for the future, under their leadership, is exciting.





2. Some Year-End Data

A. Enrollment and Quality of Students

Entering Student Admission and Quality Data for fall 2009 versus fall 2008

	Applications		Admits		Entering		Selectivity		Yield		Quality*		
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	
Year =	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	
Grad students	3222	3784	1584	1892	387	410	49.2%	50.0%	24.4%	21.7%	747	759	
Freshmen	2733	3274	1519	1748	446	561	55.6%	53.4%	29.4%	32.1%	1258	1245	
Transfers	744	768	242	257	120	177	32.5%	33.5%	49.6%	68.9%	3.08	3.23	
Entering Graduate student data is estimated for 2009.													
* SAT for freshmen; GRE for graduate students; GPA for Transfers (entering 2009 quality is an estimate)													
Average SAT in 2006 was 1198													

Entering Student Demographic Data for Fall 2009 versus Fall 2008

	Female		Domestic Out-of-State		International		African- or Hispanic-American	
	2008	2009	2008	2009	2008	2009	2008	2009
Year =	2008	2009	2008	2009	2008	2009	2008	2009
Grad students	22%	22%	19%	17%	92%	93%	2.0%	2.0%
Freshmen	8%	12%	5%	4%	11%	12%	6.0%	6.0%
Transfers	15%	18%	3%	1%	49%	59%	7.0%	4.0%

B. US News and World Report Ranking Data

UB School of Engineering US News Six-Year Analysis													
Year	Rank	Overall Score	Peer Assmt	Recruiter Assmt	GRE Avg Quant	Acceptance	PhD Stui Faculty	Natl Acad	Res Exp (M)	Res /Fac (K)	PhD Degrees	Total Grad. Students	Faculty
2009	54	40	2.7	2.9	755	32.90%	2.6	2.22%	\$ 62.6	\$ 485.3	64	1003	135
2008	52	38	2.8	3.0	760	30.30%	2.5	1.60%	\$ 51.9	\$ 432.3	62	1015	129
2007	61	35	2.8	2.8	757	33.60%	2.6	0.80%	\$ 48.7	\$ 423.7	52	991	120
2006	54	37	2.9	3.1	757	46.60%	2.7	0.90%	\$ 37.7	\$ 330.9	63	922	115
2005	56	35	2.9	2.9	762	32.00%	2.8	0.90%	\$ 34.5	\$ 307.9	51	1,125	114
2004	56	32	2.6	2.9	774	25.20%	2.5	0.90%	\$ 33.3	\$ 386.9	31	1,171	112
2003	59	32	2.7	3.0	752	42.20%	2.9	0.90%	\$ 40.1	\$ 413.7	42	1,091	110
AVG	56	36	2.78	2.95	760.33	34.98%	2.66	1.00%	\$ 41.0	\$ 382.6	50.2	1,053	116.

C. Philanthropy: Current status:

2008-09 Commitments: \$3,350,211 and Collections: \$3,319,310

Compared to 2007-08: Commitments \$3,853,125 and Collections \$2,889,844

More than 50% of the Dean's Advisory Council have made a major commitment to the new Engineering Building.

D. Research Funding

Over the past three years, SEAS has had a goal to increase proposal submissions with the goal of increasing our research funding. Reviewing the past three years of data shows that we are making excellent progress:

Proposal Growth

2006-07: 324 proposals submitted requesting \$137M

2007-08: 376 proposals submitted requesting \$144M

2008-09: 425 proposals submitted requesting \$312M

Research Growth

2007-08: SEAS received 89 awards for \$20.77M (with \$5.26M ICR)

2008-09: SEAS received 115 awards for \$35.79M (\$8.90M ICR)

E. Publications

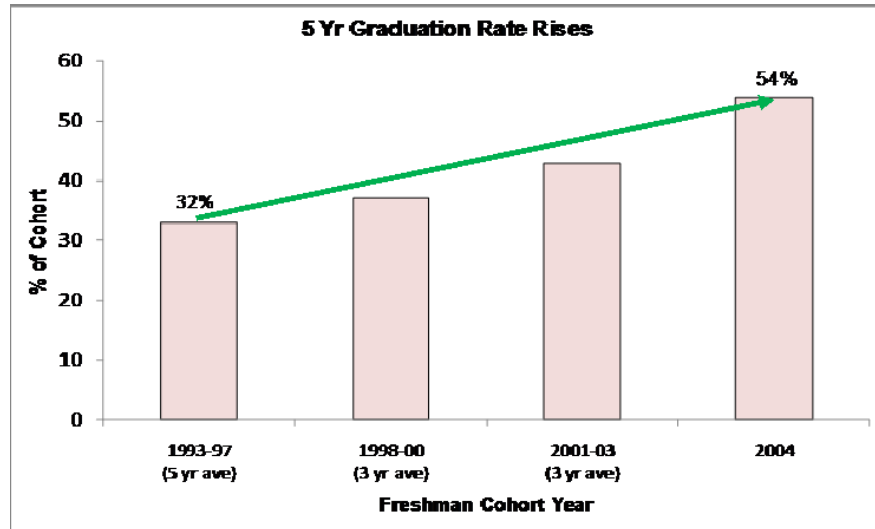
One benefit to the pain of the Digital Measures Faculty Reporting system is that it makes it easy to aggregate the collected information. Of note is that this past year (May 1, 2008 – May 1, 2009) our faculty members had over 500 peer-reviewed publications appear in print. We are in the process of proof-reading and verifying the data. Once completed, we will post the publications on our metrics website.

F. Course Evaluations

The collection of student evaluations of our courses went smoothly this spring. (The results should be sent to you shortly by your chairs.) Of interest is that the number of returned evaluations was significantly greater for the electronic method than for the paper method. Comparing spring 2009 and spring 2008 showed that 4457 student evaluations were returned electronically in spring 2009 versus 3907 returned by paper in spring 2008.

G. Undergraduate Graduation Rates

The following graph of our undergraduate student graduate rate, a result of the great work by Bill Wild, Mike Ryan and many others, is self-explanatory!



3. Faculty, Staff, Alumni, and Student Recognition

Over the past year SEAS has been fortunate to add to its list of significant awards:

- 2 UB Distinguished Professors: Alexandridis and Govindaraju
- 2 SUNY Excellence in Teaching, Chancellor's Awards: DesJardin and Pados
- 3 Sustained Scholar Awards: Bird, Andreadis, Nagi
- 2 Exceptional Young Scholar Awards: Yoon, Mosqueda
- 5 Young Investigator Awards: Corso, Rudra, Zhong, Demirbas, Yoon
- 1 Research Foundation Award: Filiatrault
- 1 SUNY Distinguished Professor: Mitin
- 1 IIE Baker Award: Batta
- 3 Chancellor's Awards for Student Excellence:
 - Bradley Cheetham, Jonathan Coles, Daniel Muffoletto
- 1 Morris Udall Scholar: Christopher Llop
- 1 Barry Goldwater Scholar: Claire Lochner
- 2 Distinguished Alumni Awards: Sharad Tak and Lester Gerhardt
- 1 Walter Cooke Award: Ravi Bansal



4. Laboratory Upgrade Work

As an outcome of our ABET visit in October 2008, we have a lot of work to do to upgrade our undergraduate laboratories. The estimated cost of the first year purchases of equipment by the six departments is approximately \$250,000 (not including installation), and the number of purchases is around 40 items. My goal is to make sure that we invest this money and effort each year for the next four years to make sure our undergraduate teaching labs are strong assets to our programs. To ensure we accomplish these upgrades, I have asked Todd Snyder, from CSEE, to be the Project Manager for our laboratories. I think most of you know Todd and are aware of his skills and his passion for laboratories.



5. Events and Visits

Below is a brief list of important External Events and Visits in which I was involved during the past quarter.

Date	Visit or Event	Location	Purpose
4/3	Maria Lehman, alumna and Dean's Advisory Council Member	Amherst	Discuss SEAS Advancement
4/6	Lunch with 5 Cleveland area UB SEAS alumni	Cleveland, OH	Discuss SEAS past, present, and future
4/6	Visit NASA's Glenn Research Lab with Drexel Johnson, UB alumnus	Cleveland, OH	Review research activities at Glenn Research Lab
4/8	Lunch with 4 UB Washington area SEAS alumni	Washington, DC	Discuss SEAS past, present, and future
4/9	Lunch with 2 UB Philadelphia area SEAS alumni	Philadelphia, PA	Discuss SEAS past, present, and future
4/14	Dean's Scholars tour of Buffalo's architecture	Buffalo	Enhancement to Dean's Scholars Program
4/15	Meeting with Dennis Elsenbeck, alumnus and DAC Chair	Amherst	Discuss National Grid support for SEAS
4/18	ASCE Regional Bridge and Concrete Canoe Competition	Buffalo	Banquet
4/24	New Building Groundbreaking	Amherst	Celebrate end of design phase for building

4/25	CSE Alumni Conference	Amherst	Present building update
4/28	Retired SEAS faculty lunch	Amherst	Presentation by Matt Ringuette
4/28	Dean's Scholars tour of Cameron Compressor	Cheektowaga	Enhancement to Dean's Scholars Program
4/29, 30	International Trade Delegation	City Hall and UB	Discuss business opportunities in WNY with trade representatives from 35 foreign countries
5/8	Dan Yankowski, Praxair	Amherst	Discuss Praxair support for UB SEAS
5/9	Commencement!	Amherst	Graduation
5/27	Lunch with 3 UB Chicago area SEAS alumni	Chicago, IL	Discuss SEAS past, present, and future
5/28	Lancaster High School	Lancaster, NY	Review final projects in Engineering Course
5/28	Gina Lee-Glauser, VPR, Syracuse University and UB alumna	Amherst	Discuss research collaborations
5/29	Meeting with Hormoz Monsouri, DAC member	Amherst	Discuss SEAS support
5/29	Medtech Science Committee	Rochester, NY	To discuss corporate involvement in MedTech, Inc.
6/1	Dr. M.D. Tiwari, Director, Indian Institute of Information Technology, Allahabad, India	Amherst	Discuss collaborative program possibilities
6/3	Tom Hook, President, Greatbatch Inc.	Alden, NY	Dedication of new R&D facility for Greatbatch
6/4	UB Business Partners Day	Buffalo	Workshops and lunch
6/9	Steve Holiday, CEO, National Grid	Buffalo	Announcement of \$250,000 gift to support BEAM and minority outreach programs
6/17	Robert Stall, MD, UB alumnus	Buffalo	Discuss collaborative programs in age-related engineering research
6/22	Chris Collins, Erie County Executive	Buffalo	Presentation of Six Sigma certifications to Erie County employees

6/30	Jim McLernon, UB SEAS alumnus	Amherst	Discussion and appreciation of UB SEAS investments
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If you would like more information on any of the topics in this quarterly, please contact me.

Sincerely,
Harvey