

**MINUTES**  
**UNIVERSITY OF HOUSTON SYSTEM**  
**BOARD OF REGENTS**  
**ACADEMIC AND STUDENT SUCCESS COMMITTEE**

Tuesday, January 29, 2013 – The members of the Academic and Student Success Committee of the University of Houston System convened at 11:04 a.m. on Tuesday, January 29, 2013, at the Hilton University of Houston Hotel, Waldorf Astoria Ballroom, E, Second Floor, 4800 Calhoun, Houston, Texas, with the following members participating:

ATTENDANCE –

Present

Jacob M. Monty, Chair  
Roger F. Welder, Vice Chair  
Gage A. Raba, Student Regent

Absent

Nandita V. Berry, Member  
Mica Mosbacher, Member  
Nelda Luce Blair, Ex Officio

Welcome W. Wilson, Jr.

(Appointed as an alternate committee member for this committee meeting)

In accordance with a notice being timely posted with the Secretary of State and there being a quorum in attendance, the Chair of the Committee, Jacob M. Monty, called the meeting to order and moved to the first item on the agenda, Item B, approval of the minutes.

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AGENDA ITEMS

**Action and Information Items:**

1. Approval of Minutes – Item B

On motion of Regent Welder, seconded by Regent Wilson Jr., and by a unanimous vote of the members present, the following minutes from the meeting listed below were approved:

- August 14, 2012, Academic and Student Success Committee Meeting

2. Introduction of the Interim Senior Vice Chancellor for Academic Affairs, University of Houston System and Senior Vice President for Academic Affairs and Provost, – University of Houston, Item C – A&SS-C

On behalf of Chancellor Khator, Dr. Rathindra Bose, Vice Chancellor for Research and Technology Transfer, introduced Dr. Paula Myrick Short as the new Interim Senior Vice Chancellor for Academic Affairs, University of Houston System and Senior Vice President for Academic Affairs and Provost, University of Houston. The effective date of this appointment was January 2, 2013.

Dr. Short joined the University of Houston in 2012 as a Distinguished Professor in the College of Education and Director of the Institute for Policy, Research and Evaluation. Previously, Dr. Short served as Vice Chancellor for Academic Affairs for the Tennessee Board of Regents; an Associate Vice President for Academic Affairs for the University of Missouri System and Department Head for the University of Missouri-Columbia, where she led the department to its first-ever ranking (#15) in *U.S. News & World Report*. Dr. Short has also been the recipient of various national awards for her research and leadership.

Dr. Short received a Ph.D. in Administration from the University of North Carolina at Chapel Hill; and is a highly regarded administrator who is recognized as a national leader on the impact of higher education reform on student success and completion and the role of organizational culture in academic quality in higher education.

Dr. Bose introduced Dr. Short to the board, who thanked everyone for their warm welcome and Chancellor Khator for giving her the opportunity to stand-in during this important time.

This item was presented for information only and required no committee action.

The next item was taken out of order and presented by Dr. Bose.

3. Introduction of the Interim Senior Vice President for Academic Affairs and Provost, University of Houston-Downtown – University of Houston-Downtown, Item M – A&SS-M

Dr. Bose introduced Mr. Ed Hugetz, who was appointed as the Interim Senior Vice President for Academic Affairs and Provost for the University of Houston-Downtown. This appointment was effective on January 7, 2013.

Mr. Hugetz has served the University of Houston for 34 years in various academic and administrative roles. He joined the University of Houston-Clear Lake in 1978 as an assistant professor and progressed through the rank and tenure process to become full professor with tenure in the College of Humanities and Fine Arts; and served for a time as Interim Senior Vice President and Provost.

As an administrator with the UH System, Mr. Hugetz played an instrumental role under the leadership of Chancellor Bill Hobby in facilitating the creation of the UH System at Sugar Land as a system center. He guided the transition of the University of Houston-Cinco Ranch into a system center and worked to create a UH System presence at Lone Star College-University Center. He recently served as Associate Vice Chancellor of Planning and University Outreach for the UH System and Associate Vice President of Planning and Outreach for the University of Houston.

Mr. Hugetz has played a key role in the merger of KUHF-FM and KUHT-TV to create a single Houston Public Media. This newly combined public media arm of the UH System serves one of the largest media markets in the country and is one of the first mergers of its kind to address efficiency and streamline public media offerings.

Mr. Hugetz is an established documentary filmmaker, whose focus has centered on Texas history and social documentaries. In 1978, he founded the KUHT-TV series, *The Territory*, one of the longest running showcases of independent documentary films in the nation, as well as others.

On behalf of Chancellor Khator, UHD President Bill Flores and the UHS community, Dr. Bose congratulated Mr. Hugetz on his new appointment.

Mr. Hugetz stated he had spent 17 years with the University of Houston working with so many wonderful individuals over the years. He was looking forward to this new challenge and opportunity and thanked everyone for their continued support.

Following Dr. Bose's introduction of Dr. Short and Mr. Hugetz, Regent Monty congratulated both of them on their new appointments and stated the Board looked forward to working with them in their new roles.

This item was presented for information only and required no committee action.

After the presentation of the above items, the agenda was taken out of order and Item L was then presented.

4. Residential Experience and Housing Master Plan at the University of Houston – University of Houston, Item L – A&SS-L

Dr. Richard Walker, Vice Chancellor for Student Affairs, introduced this item which addressed the residential experience and the Housing Master Plan at the University of Houston. This presentation was presented in two parts. The first part focused on the residential experience at the university; and the second part dealt with the Housing Master Plan. Below is a summary of Dr. Walker's remarks.

- This fall the university will be adding approximately 2,000 new beds to the university's housing system bringing our housing capacity to 8,006 beds which will make the University of Houston the second largest residential, public institution in the State of Texas only behind Texas A&M.
- In five (5) short years, the university has doubled their housing capacity.
- The university has been strategic in their efforts to have students live on campus because of understanding the important role a residential experience plays in student life and in student success.
- Cougar Village I and Cougar Village II have been specifically designed to focus on a student's first years' experience while Cougar Place has been targeted on the student's second years' experience.
- It was also planned to integrate academic and student affairs services into the residential life program.
- The tutoring center is located in Cougar Village I and there has been a tremendous increase in students utilizing tutoring services.
- Classrooms are located in Cougar Village I and interactive classrooms are being created in Cougar Village II and Cougar Place.

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- Additionally, the university is currently in their third year of Faculty-in-Residence program and there are currently five (5) faculty families living on campus. This program will be expanded next year.
- The Honors College has had a wonderful relationship with Student Affairs over the past three (3) years with the living and learning community for honors students in Cougar Village I.
- The living and learning community is being expanded this fall to include ten (10) new academic-based communities and five (5) new theme-based communities.
- With the plan of opening 2,000 new beds this fall, the university is working on new marketing strategies to include the use of videos for the outreach of students as well as parents.

Dr. Walker introduced two students from the University of Houston, Ms. Delisa Calvin and Mr. Jerrod King, who made brief presentations to the committee. Mr. King was a junior business major, vice chairman of the Student Housing and Residential Life Advisory Board and a member of the Residence Hall Executive Board. Ms. Calvin was a junior dance major. Both students briefly addressed the committee concerning their residential life experience on campus and introduced two short marketing videos which described various students' experiences on campus.

Mr. King stated the reason why he had decided to move on campus was to get involved and to make long-term relationships. He became a part of many things once he moved on campus. Mr. King mentioned that he was now a part of the Food Advisory Committee, the Housing Advisory Committee, a Residential Housing Associate, and an officer of the National Association of Black Accountants (NABA). By joining NABA (which he would not have done if he hadn't lived on campus), he has built networks and friendships. He has also received a two-year internship with a Big Four accounting firm. For him, he believes that living on campus was the best thing that he could have done – he has built long-term friendships that will last forever. The short video presented by Mr. King showed the sentiments of other students living on campus.

The next student presenter, Ms. Calvin decided to live on campus to become more independent. Her family lives in Sugar Land which is approximately 40 minutes from campus, but she felt commuting back and forth from school and to work would take her away from studying and learning how to live on her own. Living on campus has taught her how to figure things out on her own and not to be so dependent on others. Ms. Calvin has learned that things are not as easy as they seem. She stated that she has always watched her mother pay bills and it appeared so easy until she started paying bills on her own. She has now learned to manage her money and figure things out for herself. By living on campus, she feels more a part of everything that happens on campus; there is always something to do; and she feels part of a community. If she didn't live on campus, Ms. Calvin said, "It would feel like a community college versus a large university." The video clip introduced by Ms. Calvin shared why students live on campus and how they felt about recent changes that had taken place in student housing.

Following the video presentations presented by Mr. King and Ms. Calvin, a powerpoint presentation on the Housing Master Plan was addressed. Dr. Walker stated the University of Houston's housing occupancy goal was to reach a target of 10,000 beds which would be 25% of the student population. This target would allow us to become designated as a residential campus by Carnegie. In 2006, the consulting firm of Brailsford & Dunlavey assisted the university in developing a Housing Master Plan and as a result of this plan, Calhoun Lofts was developed. This past fall, Brailsford & Dunlavey

were retained to help us develop the next phase of the university's Housing Master Plan, specifically, to assist the university in examining the following:

- Market and Survey Analysis
- Analysis of the Life Expectancy of the Quads and Moody Towers
- Financial Modeling
- Capital Budgeting and Phasing Process (specifically as it relates to building capacity of reaching 10,000)

Brailsford & Dunlavey completed their work in December 2012 and they will be working over the next several months reviewing their recommendations as well as make decisions regarding the university's Housing Master Plan as we move forward. However, Dr. Walker felt it was important to share with the committee their initial findings and recommendations of their work. Dr. Walker introduced Mr. Jeff Turner, Senior Vice President and Ms. Katie Karp, Program Manager from Brailsford & Dunlavey to give their reports.

Mr. Turner and Ms. Karp addressed the Housing Master Plan and below is a brief summary of their remarks.

- Brailsford & Dunlavey's work with the university began in 1998 with the Campus Recreation and Wellness Center, housing projects, and the University Center.
- The firm's scope of work started in August 2012 and an update of what was completed in 1998.
- The data compiled starts with the students. Over 3,000 students participated in their process, research, surveys, open forums, and focus groups.
- The goal was to have 10,000 beds with the focus being on freshmen, sophomore, transfer students and international student experience as well as graduate students.
- Student housing should continue to be integrated into the campus residential district with adjacencies and connections to the academic core/resources.
- A mix of housing unit types are appropriate in order to serve residents by classification.
- The FYRE and Faculty-in-Resident programs should continue to be supported; and housing should be financially self-supporting.

A Market Analysis Summary was presented and the key findings are outlined below.

- Availability of housing is very important in majority of students' decision to attend the University of Houston;
- 90% of on-campus residents are satisfied with their current housing;
- Housing is perceived by students to be expensive as compared to the off-campus market.
- The average off-campus rent is \$816/student (including utilities)
- Rate comparison to the University of Houston
  - Efficiency
    - Partnership Apts: 16% below market
    - Lofts: 7% above market
  - 1 Bedroom
    - Partnership Apts: 26% below market
    - Lofts: 11% above market
  - 2 Bedroom
    - Partnership Apts: 12% below market
    - Lofts: 15% above market

- 3 Bedroom
  - Partnership Apts: 20% below market
  - Lofts: N/A

A Demand Analysis Summary was presented and the key findings are outlined below.

- Current market demand for 7,878 beds for Fall 2013 (1,870 net new)
- Market demand for 8,360 beds by 2020
- To obtain goal of 10,000 students by 2020:
  - Enrollment growth of 3% per year
  - Freshman live-on campus requirement
    - Capture rate of 60% of freshmen (43% of FTICs currently live on campus)
- Success breeds success:
  - Tier One Status
  - Opening of new residence halls in 2013
  - Housing Master Plan to enhance residential experience.

The benefits of living on-campus were addressed as follows:

- Academic Impact
  - Students living in residence halls are more likely to participate in campus learning communities beyond the classroom setting, enriching their student experience.
  - Students living on campus tend to have higher GPA and higher retention rates than off-campus counterparts.
  - On-campus students are timelier in graduation and tend to earn advanced degrees.
- Social and Personal Development
  - Students living on campus participate in more campus activities, take advantage of campus resources and are more involved in leadership experiences.
  - Programs and services provide students with valuable life skills, such as effective communication, tolerance and understanding, decision making, and critical thinking.
- Convenience and Time Management
  - Living on campus helps students maintain a more balanced and healthy lifestyle than off-campus counterparts.

Ms. Karp gave a brief outline of the Housing Master Plan and below is a brief summary of her comments on this issue.

- The demand of 8,360 on-campus beds by 2020 is based on the demographic characteristics of today's students, but these demographics can and will change with the University's Tier One goals, with recruiting a higher caliber of student and different type of student who would be more interested in living on campus.
- The opening of new residence halls this Fall will generate more interest in living on campus and creating a Housing Master Plan to strategically improve facility conditions and programs that will only enhance the residential experience.
- As part of the Housing Master Plan, Brailsford & Dunlavey categorized recommendations into Capital Project Pipeline which are projects that are currently being planned; Short Term Recommendations over the next seven (7) years; and Long Term Recommendations that look beyond 2020.
- In terms of the Capital Project Pipeline, the following was addressed:
  - Opening of Cougar Village II (1,143 beds) – to strengthen the freshmen year experience;
  - Opening of Cougar Place Replacement (798 beds);

- Housing and Residence Life will be conducting a number of Minor Capital Plan Improvements to the Lofts, Cougar Village and Moody Towers;
- Renovation of Bayou Oaks at approximately \$2 million that will upgrade nine (9) of the fraternity townhouses as well as a general refresh of the facility as Bayou Oaks is transitioning back to the University of Houston Management; and
- They have worked with Housing and Residence Life to strengthen the marketing strategy and incorporating their marketing analysis data so they can target student demographics to showcase the benefits of living on campus; the benefits of living in our new halls; benefits of living in existing inventory as well as marketing not only the students but the parents re the benefits of living on-campus versus living off-campus. This not only considers costs but safety, convenience as well as academic success.
- Short Term Recommendations were given:
  - They have worked to identify strategic capital plan investments. The industry standard is for approximately 5% of the revenue to go into capital improvements annually.
  - What the University of Houston Housing and Residence Life Program can afford is currently approximately 2% of their revenues to go into capital investments in order to establish a financially self-supporting model by 2018.
  - Because we are trying to become a self-supporting auxiliary by 2018, no new projects can be developed until 2019 when we are back into good standing.
  - The first phase of the Housing Master Plan's new construction plans for 730 apartment-style beds (1, 2, and 4 bedroom configurations). A location has been identified as outlined in the Housing Master Plan directly across the street from Calhoun Lofts and the parking garage.
  - The next phase calls for the replacement of the Quads. A cost benefit analysis was conducted of the renovation versus new construction of the Quads. It was found that the variance in project costs to be insignificant so they recommended new construction and replacement on the Quads site that would be for approximately 800 beds in full, suite-style configuration.
- Long Term Recommendations – 2021 and Beyond:
  - A cost benefit analysis was also conducted of the renovation versus the replacement of Moody Towers. With the code upgrades and mechanical system requirements needed there, it was found that the variance in project costs to be insignificant so new construction and replacement was also recommended on the Moody Towers site. There would be 750 apartment-style beds in 2 and 4 bedrooms configurations.

The Sophomore Year Experience and International Students' issues were discussed and below is a brief summary of these topics.

- 82% of the University of Houston sophomore students expressed interest in a Sophomore Year Experience program center around academic pursuits.
- Current research confirms that sophomores have some of the highest expectations and strongest needs of any group of students on campus.
- Research also indicates that sophomores receive the least attention of any class.
- Many schools are developing programs aimed at sophomores designed to provide a support structure as they begin to assume greater responsibility for their academic pursuits and their own lives.

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- The introduction of a new phase one project across from Calhoun Lofts as well as the replacement of Moody Towers will provide for two upper level housing neighborhoods; and this would be the extent of the Housing Master Plan to reach 8,360 beds by 2020.
- Housing international students would be considered at Bayou Oaks in order to strengthen the International program there.
- 71% of international students indicated that the availability of housing was important in their decision to attend the University of Houston.
- What attracts international students to on-campus housing:
  - Low-cost housing (54% of international students pay <\$400/month/student)
  - In-unit kitchen
  - Convenient location – proximate to campus and retail
  - Flexible lease terms
  - Ability to choose own roommate(s)
  - No meal plan requirement
- Bayou Oaks would provide all of these amenities.

Ms. Karp stated that if we are going to strive to attain 10,000 on-campus residents by 2020 and institute a freshman live-on requirement, we will need to be looking at alternative development strategies including public/private partnerships as well as alternative means. We will need approximately 1,600 additional beds by 2020 and we will look to fulfill this by partnership opportunities.

A brief discussion followed this presentation. A complete copy of Brailsford & Dunlavey's powerpoint presentation may be found at the following link for reference.

<https://v3.boardbook.org/Viewer/itemdownload.aspx?ik=33351247> .

This item was presented for information only and required no committee action.

Regent Monty moved to the next action item on the agenda, Item D.

5. Approval of University of Houston Honorary Degrees – University of Houston, Item D – A&SS-D

Dr. Paula Myrick Short requested the committee's consideration of four (4) individuals to be honored with Honorary Degrees. Dr. Short briefly reviewed the eligibility and the process for the selection of these nominees bringing brought forward for approval. This award is first and foremost bestowed on individuals whose fields are in public service, the arts and sciences, the professions - business, religion and philanthropy. The key thing is that these recipients must be individuals that are truly distinctive, who have served with great distinction with exceptional contributions to the University of Houston. The process occurs with a formal request for nominations that are distributed through a memo to key groups across the university and nominations are called for at any time. An internal committee is established through the Provost's office made up of University of Houston individuals and academic leaders, who review these nominations and make recommendations to the chancellor.

The four (4) individuals who were nominated and recommended by the Chancellor for 2013 were as follows:

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- (a) Belle Griggs Johnson – Ms. Johnson received her B.S. in Elementary Education from the University of Houston in 1951. In 1993, she and her husband established the Belle Griggs Johnson Endowed Book Fund for the Arts which support the acquisition of books, serials, visual and sound recordings related to art, drama, literature and music. Ms. Johnson served on the University of Houston Art Committee for many years, and in this role, she helped select much of the public art that adorns the buildings and grounds of the University of Houston today. She has served as chair of the University of Houston Libraries’ capital campaign to raise \$20 million to expand and renovate the M.D. Anderson Library.
- (b) Edith Irby Jones – In 1948, Ms. Jones was the very first African American student to attend the University of Arkansas School of Medicine and completed her residency in internal medicine at the Baylor College of Medicine. In 1962, Ms. Jones set up a private practice in the inner city of Houston which continues to thrive today. She has been a towering presence in the Third Ward in Houston, Texas for over 50 years. Ms. Jones is known throughout the nation for her groundbreaking work in leading and advancing women and minorities in the health care professions.
- (c) James Parsons – Mr. Parsons is a native Houstonian who holds a BA degree in Theater from the University of Houston. He is well known for his role as Sheldon Cooper in the television show *The Big Bang Theory* for which he has won both an Emmy and a Golden Globe Award. and apart from television, Mr. Parsons has acted in both featured films and on Broadway.
- (d) Welcome W. Wilson, Sr. – Mr. Wilson, Sr. is a proud alumnus from the University of Houston and was Chairman of the Board of Regents of the University of Houston System for three (3) years ending in 2010. Mr. Wilson, Sr. now serves as Chairman of the UH Drive to Tier One on behalf of Chancellor Renu Khator. He has been a Texas real estate developer for over 50 years. His first project in 1957 was Jamaica Beach in Galveston, Texas. He has been inducted into the Texas Business Hall of Fame; named Entrepreneur of the Year by the Houston Technology Center; and in April 2012, he received the Lifetime Achievement Award from the Houston Business Journal.

On motion of Regent Welder, seconded by Regent Wilson, Jr., and by a unanimous vote of the committee members present, the approval of the University of Houston Honorary degrees was approved by the committee.

6. Approval of Master of Science in Industrial Design degree at the University of Houston – University of Houston, Item E – A&SS-E

Dr. Short introduced this item requesting approval for a Master of Science in Industrial Design from the Gerald D. Hines College of Architecture at the University of Houston. This proposed degree is focused on the design of products and the improvement of their look and feel and their functionality. It is a 36 credit hour master’s program and it would be the first of its kind in the State of Texas. In support of the university’s Tier One goals, it’s a program through which the college can distinguish itself nationally. While there is a growing need for industrial designers who can manage product interface, interaction, and service design for a variety of industries

including housewares, communications, furniture, transportation, healthcare, entertainment, and information technology, there is an increasing need for designers who are capable of research and interdisciplinary product development, such as smart computing, medical and healthcare products and systems. The Texas Workforce Commission estimates that the demand for industrial designers in the State of Texas will increase 12% faster than the national average over the next ten years; and as the only program in Texas, we believe we can capture that market.

On motion of Regent Welder, seconded by Regent Wilson, Jr., and by a unanimous vote of the committee members present, the approval of the Master of Science in Industrial Design degree at the University of Houston was approved by the committee.

7. Approval of Master of Athletic Training degree at the University of Houston, University of Houston, Item F – A&SS-F

Dr. Paula Short requested committee approval of the Master of Athletic Training degree at the University of Houston. This is a 53 credit hour program that includes both coursework and intensive clinical experiences. It will be housed in the University of Houston's Department of Health and Human Performance and prepares students to prevent, diagnose, and mediate the effects of common sports injuries; and the athletic trainers often work under the supervision of a physician. This program is part of our growing portfolio here at the University of Houston for programs in the health sciences and it will focus on preventive medicine and aligns with national trends and the demand for healthcare services. It is estimated that of the 700 students who are currently enrolled in our exercise science, at least 5% (a conservative estimate) will matriculate into this proposed Master of Athletic Training program. The Bureau of Labor Statistics states employment demand for licensed athletic trainers is expected to grow by 37% over the next decade, well above the growth averages for all professions. No other university in the region offers the degree, however, it is offered at Stephen F. Austin State University in Nacogdoches and at the Texas Tech University Health Sciences Center in Lubbock. Graduates of the program will be eligible to sit for the National Athletic Trainers Association's (NATA) Certification Exam. The department will seek accreditation by the Commission on Accreditation of Athletic Training Education (CAATE).

On motion of Regent Welder, seconded by Regent Wilson, Jr., and by a unanimous vote of the committee members present, the approval of the Master of Athletic Training degree at the University of Houston was approved by the committee.

8. Approval of Bachelor of Arts in Communication with a concentration in Integrated Communication degree at the University of Houston, Item G – A&SS-G

Dr. Paula Short stated this was a 120 hour Bachelor of Arts in Communication with a concentration in Integrated Communication degree at the University of Houston that allows students who complete this degree to gain proficiency in all of our university's communication fields which includes advertising, public relations and corporate communication and to obtain a holistic understanding of communication programs across this complex organization. Increasingly, many professionals are being sought out who have skills that bring together all of the various modes of communication within an organization that would include being able to understand media, social media, print media,

all types of public relations and marketing those types of things. The graduates of this program will be very employable in a wide range of organizations including Fortune 500 companies, small businesses and non-profits. It will be housed in the Valenti School of Communication within the College of Liberal Arts and Social Sciences; and it is projected to have approximately 335 students enrolled in the program by its fifth year. It will be the first of its kind in Houston and the program will utilize existing faculty resources, including five tenured faculty and four full time instructional faculty.

On motion of Regent Welder, seconded by Regent Wilson, Jr., and by a unanimous vote of the committee members present, the approval of Bachelor of Arts in Communication with a concentration in Integrated Communication degree at the University of Houston was approved by the committee.

9. Approval of Bachelor of Arts in World Cultures and Literature degree at the University of Houston, Item H – A&SS-H

Dr. Short presented this item before the committee. This degree in World Cultures and Literature is an undergraduate degree. It is a 120 hour degree program that will have 27 hours in a foreign language. It will also include a world/regional studies and it will allow the student to acquire strong analytical and communication skills. Many of the fastest-growing economies in the world are in non-speaking English countries, so job prospects for our graduates who are multi-lingual and culturally competent are expected to grow. Employers are looking for translators and interpreters, so this is also an area in which our students would find themselves very marketable; and according to the Bureau of Labor Statistics, translators and interpreters, one job classification that aligns with the proposed degree program, is expected to grow by 42% over the next decade. It will also provide a degree option for students who are now pursuing minor studies in languages where our degree is not offered and they can combine it with this degree and their interest in that minor area and receive this degree. It is anticipated that 80 students will be enrolled by the fifth year. Numerous degrees were eliminated in foreign language because of low enrollment so this is one way to recapture that and make sure we offer our students every opportunity to be multi-lingual and understand multiple cultures around the world.

On motion of Regent Welder, seconded by Regent Wilson, Jr., and by a unanimous vote of the committee members present, the approval of Bachelor of Arts in World Cultures and Literature degree at the University of Houston was approved by the committee.

At the conclusion of the approval of the last action item presented, Regent Monty called for a motion to place all five (5) action items presented to the committee on the Board of Regents' Consent Docket Agenda for final Board approval at the January 30, 2013 Board meeting.

On motion of Regent Welder, seconded by Regent Wilson, Jr., and by a unanimous vote of the committee members present the following five (5) action items will be placed on the Board of Regents' Consent Docket Agenda for final approval at the January 30, 2013 Board meeting as listed below.

1. Approval of University of Houston Honorary Degrees – University of Houston;

2. Approval of Master of Science in Industrial Design degree at the University of Houston – University of Houston;
3. Approval of Master of Athletic Training degree at the University of Houston – University of Houston;
4. Approval of Bachelor of Arts in Communication with a concentration in Integrated Communication degree at the University of Houston – University of Houston; and
5. Approval of Bachelor of Arts in World Cultures and Literature degree at the University of Houston – University of Houston.

Regent Monty stated the remaining three (3) items presented were for information only and required no committee action.

10. Update on UHS Programs and Enrollment in Northwest Houston – University of Houston System, Item I – A&SS-I

Dr. Marshall Schott, Associate Vice Chancellor for Outreach and Programs, introduced this item to the committee. In 2009, the former Hewlett Packard campus was sold to Lone Star College. At that time, Lone Star College acquired approximately 1.5 million square feet of real estate. In 2010, a motion was brought before the Board of Regents to give us the opportunity to negotiate for lease space to develop a University Center operation at this campus in collaboration with Lone Star College. The University of Houston has collaborated with a number of other universities to gain program approval, academic program authority in Northwest Houston through a consortium of university systems. These universities include the Texas A&M System, the Texas State System, University of Houston System, and Texas Southern University, so all academic programs that are delivered are negotiated between our systems and those results were forwarded to the Coordinating Board for approval. This is a unique, innovative twist that has allowed us to better serve this market which many people regard as the largest, underserved populations in the State of Texas.

The University of Houston and the University of Houston-Downtown (UHD) formally began offering courses and programs at Lone Star College's University Park campus in 2010. The UHD footprint includes a Welcome Center of approximately 2,700 square feet in Building 12. UHD also has another 25,000 square feet of instructional space that includes 13 classrooms and in the Fall 2012, they offered 95 courses at the campus in Northwest Houston. It is important to note that a third of those classes were offered as hybrids.

There has been significant enrollment growth at UHD since 2010. The enrollment there went from 1,084 in Fall 2010 to 1,536 in Fall 2012 and represents an enrollment increase of approximately 42%. UHD currently has a significant academic program portfolio at Northwest which includes programs in teacher education, math, science, applied technology degrees, business administration, and criminal justice and they also have graduate degrees in teacher education, security management and criminal justice. There are currently four (4) additional degrees approved/pending that have gone before the university consortium and submitted to the Coordinating Board so we have program authority for UHD to initiate program delivery at a future date.

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The University of Houston also has a Welcome Center of 2,300 square feet in Building 12 on the second floor. Our building is strategically located between the parking garage and the community college so every student who parks and goes to Lone Star walks by our Welcome Center. UH currently has 25,000 square feet, 11 classrooms, and offered 85 courses in Fall 2012. Approximately half or 45% of the courses offered at the campus are delivered in a hybrid/distance learning format.

The enrollment growth at UH-Northwest has been significant. It has grown 260% from 365 in Fall 2010 to 1,362 in Fall 2012. UH currently has high demand programs in communication, psychology, consumer science, supply chain/logistics, organizational leadership and mechanical engineering technology. UH also offers graduate programs in human resources, project management, administration, and business administration. There are currently three (3) graduate programs that have been approved in geoscience, petroleum engineering, and public administration.

It is worth noting that Lone Star College has approved the construction of an energy and advanced manufacturing institute on that campus and we expect mechanical engineering technology to continue to grow significantly because that will be the hub site for Lone Star College's 85,000 students.

The reason this item was presented to the committee was due to the fact that UH is currently out of space and a request will be brought to the Finance and Administration Committee to add another 16,000 square feet of space at UH-Northwest to accommodate program growth. We had to cancel classes in Spring of 2013 due to the lack of space and we do not have lab facilities for mechanical engineering technology. The university has a fairly urgent need to continue the build-out expansion at UH-Northwest. A brief discussion followed.

This item was presented for information only and required no committee action.

The remaining two information items were presented by Dr. Rathindra Bose, Vice Chancellor for Research and Technology Transfer.

11. Presentation of Annual Research Report – University of Houston System, Item J – A&SS-J; and
12. Programs for Proposed Multidisciplinary Research and Engineering Building – University of Houston, Item K – A&SS-K.

Dr. Bose presented the above two (2) items to the committee in a powerpoint presentation. The first report included performance in the areas of research proposals, awards, expenditures and royalty income; while the second item addressed the research programs and facilities to be housed in the proposed Multidisciplinary Research and Engineering Building. Below is a brief summary of Dr. Bose's remarks regarding these two (2) items.

- There was a significant increase in Federal awards - \$69.4 million in FY2012, vs. \$49.8 million in FY2008.
- University of Houston is nationally ranked #38, National Academy Members – 12 NAS/NAE members associated with the University of Houston.
- University of Houston is nationally ranked #53 in doctorates awarded.
- There were eight (8) NSF CAREER Award recipients in FY2012.

## University of Houston System

- University of Houston is nationally ranked #34 in royalty revenue.
  - Ranked No. 11 among U.S. public institutions; and
  - Ranked No. 1 in ROI among Texas institutions.
- A summary of accomplishments for FY2012 were addressed and include:
  - Proposals Submitted: \$500.9 million – 1,172 projects
  - Awards Received: \$106.9 million – 786 projects
  - Royalty/Licensing Revenue: \$12.5 million
  - Active U.S. Patents: 152
  - Pending Patents: 159
  - NSF CAREER Awardees: 8
  - Fulbright Scholars: 3
- Five-Year Extramural Awards and Expenditures were outlined as follows:
  - UH Sponsored Expenditures for FY2012 totaled \$91.1 million
  - UH Awards for FY2012 totaled \$106.8 million
  - UH System Awards/Expenditures for FY2012 totaled \$8.6/\$11.3 million respectively
- UH Total Research Expenditures as reported to NSF over a four-year period were:
  - FY2011 totaled \$113.7 million
  - FY2010 totaled \$119.8 million
  - FY2009 totaled \$99.3 million
  - FY2008 totaled \$84.5 million
- UH Funding Trend from For-Profit Entities from FY2008 – FY2012 were as follows:
  - FY2008 - \$6.4 million
  - FY2009 - \$7.4 million
  - FY2010 - \$7.5 million
  - FY2011 - \$8.5 million
  - FY2012 - \$14.5 million
- UH Royalty Income: Five-year Trend from FY2008 – FY2012 was addressed:
  - FY2008 - \$1.1 million
  - FY2009 - \$2.0 million
  - FY2010 - \$4.4 million
  - FY2011 - \$8.9 million
  - FY2012 - \$12.5 million
- UH Funding for Energy Projects was addressed. The total University of Houston Awards for FY2009 to FY2012, by cluster was \$122.91 million. A breakdown of these areas is listed below.
  - \$34,288,232 – Energy;
  - \$19,912,796 – Air Quality & Environment;
  - \$12,406,207 – Fuel;
  - \$11,681,500 – Materials;
  - \$10,816,819 – Mapping;
  - \$10,226,030 – Education/Training;
  - \$9,988,066 – Particle Physics;
  - \$8,648,057 – Devices;
  - \$4,138,573 – Water Conservation and Protection; and
  - \$806,823 – Ecology

## University of Houston System

- UH Energy Awards for FY2012 totaled \$31.59 million and a breakdown is listed below.
  - \$13,030,164 – Reducing;
  - \$7,670,784 – Upstream;
  - \$3,771,985 – Discovering;
  - \$2,125,424 – Other;
  - \$1,063,460 – Downstream;
  - \$974,709 – Upstream and Reducing;
  - \$925,975 – Broadening;
  - \$742,932 – Education/Outreach;
  - \$644,832 – Unclear;
  - \$552,625 – N/A;
  - \$60,000 – Upstream and Downstream; and
  - \$25,031 – Discovering and Reducing.
- UH is developing a center for energy education and training, with funding by the Department of Energy, Electric Power Research Institute, Texas Workforce Commission, and the University of Houston.
- Funding for Health/Life Sciences Projects from FY2009 – FY2012 totaled \$148.1 million as noted below.
  - \$41,160,783 – General/Bio-Medical;
  - \$35,324,741 – Bio-Medical Fundamental;
  - \$22,634,522 – Visual – System Development and Treatment;
  - \$21,853,751 – Neuro/Cognitive;
  - \$21,129,520 – Disease; and
  - \$6,024,769 – Drug Design.
- UH Health/Life Sciences Awards for FY2012 totaled \$31.6 million as follows:
  - \$10,438,753 – General/Bio-Medical;
  - \$5,425,130 – Visual – System Development and Treatment;
  - \$5,343,970 – Bio-Medical Fundamental;
  - \$5,619,380 – Disease;
  - \$4,073,282 – Neuro/Cognitive; and
  - \$717,173 – Drug Design.
- There were a total of 152 UH Intellectual Properties by Commercial Sectors, with 159 pending.
- Energy-Related UH Intellectual Property - 38 U.S. Patents have been issued; 34 U.S. Patents are still pending. There are currently 26 total active licenses in FY2008 to FY2012, generating over \$12.0 million.

Dr. Bose stated that there were currently several technologies in development at UH. Some of them are about to enter the market while others require more investment. Listed below is a brief summary of his remarks regarding these issues.

### Energy-Related UH Intellectual Property:

- Dr. V. Selvamanickam's Superconducting Wires and Cables was discussed. Dr. Bose encouraged everyone to visit the University of Houston's Energy Research Park to see firsthand the development of this technology. The thin film superconducting wire is used for energy applications as:
  - Thin film superconducting wire can carry 300 times more current than copper wires;
  - High power wind turbines & off shore platforms;

- Magnetic Energy Storage with rapid charging and discharging;
- More efficient electrical equipment with long duration; and
- Radiation Shielding in space craft.
- Dr. Michael Harold's Clean Emission Technology was addressed. Dr. Harold has discovered clean diesel technology, a two-layer catalyst which completely eliminates NO<sub>x</sub> pollution. This is a high end technology which is mostly seen in Mercedes, Audis, BMWs or other vehicles that require diesel fuel.
- Dr. Alex Freundlich's High Efficiency Solar Cells from NSM was discussed. Dr. Freundlich is developing high efficiency prototype solar cells which are much more efficient than anything currently in the market.

#### Health-Related UH Intellectual Property

- 61 U.S. Patents have been issued; 77 U.S. Patents are still pending. A large number are in the biotechnology area, medical devices and pharmaceutical development.
- Out of \$12.5 million, approximately \$10.0 million came from this particular compound. Lacosamide was discovered by chemistry professor, Dr. Harold Kohn, which is an anti-epileptic drug. This drug has been approved in 34 countries for adjunctive therapy for partial-onset seizures in adults. Over 200,000 patients have been treated.
- Two professors have doubled-up on a breast cancer monitoring device - Dr. A. Brazdeikis, University of Houston, along with Dr. Q. Pankhurst, University College London. When cancer patients are undergoing treatment for cancer, MRIs are needed to monitor whether or not cancer is going down. Instead of these patients having MRIs, these two professors have found non-toxic pills patients can take which are absorbed in the dense, breast tissue affected areas. The magnetic hand-held imaging system they have discovered would be used to detect the progress or lack thereof. This technology has been tried in England for 200 patients and it was found to be as effective as the MRI machine. We are trying to get it through the USDA but further testing is still required on the outcome of this treatment long-term for the patient.
- Dr. Rathindra Bose has doubled up and developed a multi-target cancer therapy drug. This drug is an excellent efficacy against ovarian, lung, and head and neck cancers with minimal toxicity.

Dr. Bose outlined six technologies that he believes will take the university to the \$50 million domain within the next 5-10 years. Research would like to invest a portion of this money to take more technologies down in the market which equates to strategy investments. A \$200 million research expenditure goal by 2020 was established and in order to reach this goal, we will need more federal government funding. This is a highly competitive environment. We will need to have multidisciplinary grants; applied/translational research; increase funding from for-profit entities; and increase royalty income.

The University of Houston is addressing the nation's STEM (Science, Technology, Engineering and Mathematics) graduates by attracting the world's finest minds to educate and inspire the next generation. We need to invest significant amount in the STEM field; recruit excellent faculty; provide ample start-up funds so that they can be successful; and build core facilities. A core facility creation with high-end equipment is a way of taking care of the high-end equipment issue. We need to create adequate infrastructure and we need to aggressively commercialize technology; and we need to meet the needs of the Houston regional area.

An example of unprecedented returns addressed by Dr. Bose was the Human Genomic Project (HGP). The \$3.8 billion investment of the HGP project drove \$796 billion in economic impact, created 310,000 jobs and launched the genomic revolution. The \$3.8 billion spent on HGP may well represent the best single investment ever made in science. Below is an outline of recent investments and new facilities:

- \$350 million investment in new research facilities;
- 700,000 sq. ft. University of Houston Research Park for technology incubation;
- 60 STEM faculty members being recruited globally (29 of the 60 faculty have been hired);
- 5 national academy members recently joined;
- Science and Engineering Research Center, Health and Biomedical Sciences Center; and in the planning phase the following:
  - Pharmacy
  - Science Building
  - Multidisciplinary Research and Engineering Building
- A crisis point has been reached for engineering faculty and was addressed by Dr. Bose. A total of approximately \$70.0 million in federal funding was received last year. Of this amount, 33% of these funds came from the College of Engineering. There are currently 107 faculty members in this area. NSM is also doing a good job with 27% of the funds. The College of Engineering has done a remarkable job. They have nine (9) NAE members; six (6) NSF CAREER Award recipients in FY2012; and they are No. 1 in federal funding among colleges.
- Dr. Bonne J. Dunbar has been recruited as the new Director of the UH STEM Center. She is a retired astronaut and a NAE member.
- A new Multidisciplinary Research and Engineering building is urgently needed to address the shortage of quality research laboratory space in Engineering and foster collaboration across campus, minimize investments in multiple and redundant instrumentation facilities, house core facilities in a neutral location, and to sustain and enhance research growth.
- Proposed activities in this new core/engineering facility would include:
  - High performance computational facility;
  - High-end multi-dimensional imaging facility;
  - Proteomics and genomics facility;
  - State-of-the-art mass spectrometry facility; and
  - High-field NMR spectrometer.
  - Research laboratories for Engineering faculty;
  - Hands-on laboratory experience for graduate and undergraduate students.
- The Multidisciplinary Research and Engineering building would have 120,000 GSF and have four (4) floors which would include:
  - 37% of lab space;
  - 15% of office/technology space;
  - 4% common space;
  - 6% shall space; and
  - 38% building support.

University of Houston System

A brief discussion followed. This item was presented for information only. A complete copy of Dr. Bose's powerpoint presentation has been filed in the Board office and may be found at: <https://v3.boardbook.org/Public/PublicItemDownload.aspx?ik=33351203>

Regent Monty thanked Dr. Bose for his very inspirational report to the committee.

There being no further business to come before the committee, the meeting was adjourned at 12:55 p.m.

All documentation submitted to the Committee in support of the foregoing action items, including but not limited to "Passed" agenda items and supporting documentation presented to the Committee, is incorporated herein and made a part of these minutes for all purposes; however, this does not constitute a waiver of any privileges contained herein.

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Others Present:

Paula Myrick Short  
Carl Carlucci  
Dona Cornell  
Rathindra Bose  
Elwyn Lee  
Eloise Dunn Stuhr  
Richard Walker  
Don Guyton  
Malcolm Davis  
Mark Clarke  
Willie Munson  
Mike Emery  
Jon Aldrich  
Brenda Robles

Marshall Schott  
Jeff Turner  
Dan Maxwell  
Katherine Peek  
Steve Wallace  
Jeffrey Cass  
John Roberts  
Don Yackley  
Jerrod King  
Maria Elena Soliño  
Caesar Moore  
Mark Boone  
Ed Jones  
Gerry Mathisen

Katherine Peek  
Katie Karp  
Jeffrey Cass  
Joe Tedesco  
Delisa Calvin  
Pam Oliver  
Troy Golden  
Liz Montgomery  
Dan Wells  
Ed Hugetz  
Cedric Bando  
Teeba Rose  
Marquette Hobbs