UNIVERSITY OF HOUSTON SYSTEM

Academic & Student Success Committee Meeting

February 6, 2009

AGENDA

UNIVERSITY OF HOUSTON SYSTEM
ACADEMIC AND STUDENT SUCCESS COMMITTEE MEETING

DATE: **Friday, February 6, 2009**

TIME: **9:30 a.m.**

PLACE: **University of Houston Hilton Hotel**
Flamingo Room 275
4800 Calhoun
Houston, Texas 77204

Chair: **Jim P. Wise**
Vice Chair: **Mica Mosbacher**
Members: **Carroll Robertson Ray**
Tamara K. Goodwin
Welcome W. Wilson, Sr., Ex Officio

ACADEMIC AND STUDENT SUCCESS COMMITTEE

1. Call to Order

2. Report on Spring '09 System Enrollment – UH System — A&SS - 1

   Action: Information

3. Update on Phi Beta Kappa – University of Houston — A&SS - 2

   Action: Information

4. Update and Status of Northwest Initiative – UH System — A&SS - 3

   Action: Information

5. Update on UH Energy and UH Health (Research Perspective) – University of Houston — A&SS - 4

   Action: Information

6. Adjourn

UNIVERSITY OF HOUSTON SYSTEM
BOARD OF REGENTS AGENDA

COMMITTEE: Academic and Student Success

ITEM: Report on Spring '09 System Enrollment

DATE PREVIOUSLY SUBMITTED:

SUMMARY:

The Board of Regents will receive a report on the Spring'09 preliminary enrollment for each UH System university.

FISCAL NOTE:

SUPPORTING DOCUMENTATION: Preliminary Headcount Spring 2008
12th Class Day, February 3, 2009

ACTION REQUESTED: Information

COMPONENT: UH System

INTERIM SENIOR VICE CHANCELLOR — Jerald Strickland — DATE 1/28/09

CHANCELLOR — Renu Khator — DATE 1/28/09

University of Houston System

Spring 2009 Preliminary Counts
12th Class Day
February 2, 2009

Headcount

	UH			UHCL			UHD			UHV			ALL		
	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change
Undergraduate	26,755	25,843	3.5	4,175	4,180	-0.1	11,631	11,153	4.3	1,673	1,466	14.1	43,743	42,642	2.6
Graduate	7,133	6,813	4.7	3,140	3,185	-1.4	148	144	2.8	1,559	1,430	9.0	11,980	11,572	3.5
All	33,888	32,656	3.8	7,315	7,365	-0.7	11,779	11,297	4.3	3,232	2,896	11.6	55,723	54,214	2.8

Preliminary SCH

	UH			UHCL			UHD			UHV			ALL		
	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change	Preliminary 2009	Certified 2008	% Change
All	384,756	368,281	4.5	61,739	60,739	1.6	116,114	113,489	2.3	24,882	21,498	15.7	587,491	564,007	4.2

UNIVERSITY OF HOUSTON SYSTEM
BOARD OF REGENTS AGENDA

COMMITTEE: Academic and Student Success

ITEM: Update on Phi Beta Kappa

DATE PREVIOUSLY SUBMITTED:

SUMMARY

Provost – Designate John Antel will provide the Board with an overview of the status of the university's progress in developing its application for a Phi Beta Kappa chapter.

FISCAL NOTE:

SUPPORTING DOCUMENTATION:

ACTION REQUESTED: Information

COMPONENT: University of Houston

Renu Khator 1/28/09
PRESIDENT Renu Khator DATE

1/28/09
INTERIM SENIOR VICE CHANCELLOR Jerald Strickland DATE

Renu Khator 1/28/09
CHANCELLOR Renu Khator DATE

Background on Phi Beta Kappa

The University of Houston is currently engaged in preparing an application for a Phi Beta Kappa chapter on campus.

Phi Beta Kappa is the nation's oldest and most prestigious college honor society. It celebrates and advocates excellence in the liberal arts and sciences. Its campus chapters invite for induction the most outstanding arts and sciences students at America's leading colleges and universities. Only about 10 percent of the nation's institutions of higher learning have Phi Beta Kappa chapters.

The University of Houston has applied for a Phi Beta Kappa chapter in the past, but has not been successful in this endeavor. A committee has recently been constituted for the purpose of preparing an updated application.

UNIVERSITY OF HOUSTON SYSTEM
BOARD OF REGENTS AGENDA

COMMITTEE: Academic and Student Success

ITEM: Update and Status of Northwest Initiative

DATE PREVIOUSLY SUBMITTED:

SUMMARY

The Board will be briefed on the progress in developing the Northwest Initiative. A summary of the proposed program offerings by the University of Houston and UH-Downtown will be presented. In addition, a discussion of the next steps to be taken by the participating systems – UH, Texas A&M, and Texas State – will take place.

FISCAL NOTE:

SUPPORTING DOCUMENTATION:

ACTION REQUESTED: Information

COMPONENT: UH System

INTERIM SENIOR VICE CHANCELLOR Jerald Strickland DATE 1/28/09

CHANCELLOR Renu Khator DATE 1/28/09

University of Houston System

UHS Northwest Campus
Executive Summary
February 2, 2009

Background:

The northwest region of the Houston metropolitan area is among the largest underserved regions in the state relative to access to baccalaureate and master's degrees offered by senior-level institutions. Over 1.5 million live in the region with almost 250,000 enrolled in regional school districts. In an effort to extend access to higher education, the University of Houston System, the Texas A&M System, the Texas State System and Texas Southern University have agreed on "Principles and Procedures for Developing Public Higher Education in Northwest Houston" that provides guidelines for establishing upper-division and graduate programs in the region to serve the needs of students transferring from the region's community colleges, including Lone Star College and Houston Community College.

Proposed Academic Programs:

The University of Houston and University of Houston-Downtown propose to offer undergraduate degrees in business, humanities, social sciences, teacher education, criminal justice and technology. Proposed graduate degrees will include educational administration, teaching, human resource development and project management. The specific degrees to be offered by each respective institution will be developed and included in the final proposal to the BOR in April.

Facilities:

UHS proposes to lease a facility from Lone Star College (LSC) in the SH 249 corridor. The facility would be co-located with LSC in order to maximize the transfer of students into UHS programs and to leverage efficiencies offered through shared services.

Next Steps:

The System Vice Chancellors and the President or Provost from TSU will meet in mid-February to review all university proposals for the purpose of resolving any issues related to program duplication. If programmatic issues are resolved in a timely fashion, it is our intent to submit the final proposal to the BOR in April and then to the Coordinating Board.

UNIVERSITY OF HOUSTON SYSTEM
BOARD OF REGENTS AGENDA

COMMITTEE: Academic and Student Success Committee

ITEM: Update on UH Energy and UH Health (Research Perspective)

DATE PREVIOUSLY SUBMITTED:

SUMMARY: Latest events in UH Energy and UH Health from a research perspective

FISCAL NOTE:

SUPPORTING DOCUMENTATION: PowerPoint Presentation

ACTION REQUESTED: Information

COMPONENT: University of Houston

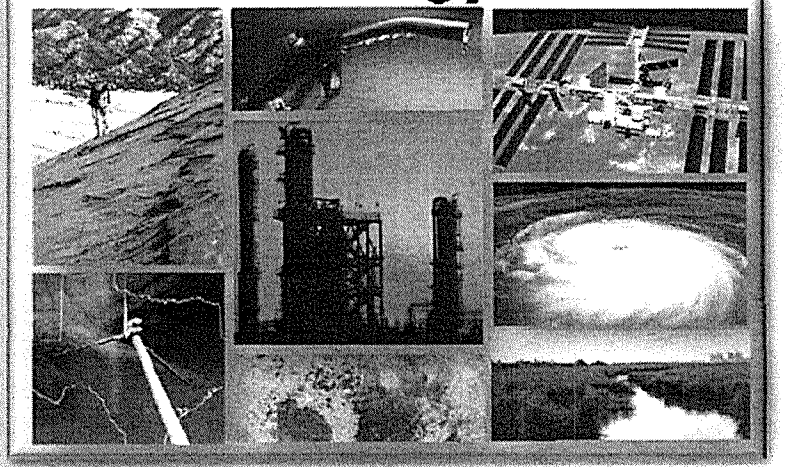
Renu Khator
PRESIDENT — Renu Khator — DATE 1/28/09

VICE CHANCELLOR — Donald Birx — DATE 1.23.09

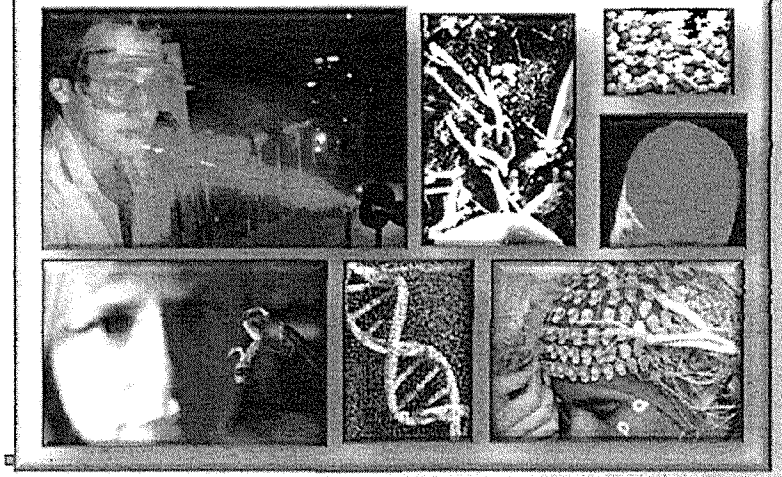
Renu Khator
CHANCELLOR — Renu Khator — DATE 1/28/09

Research 2009

Energy



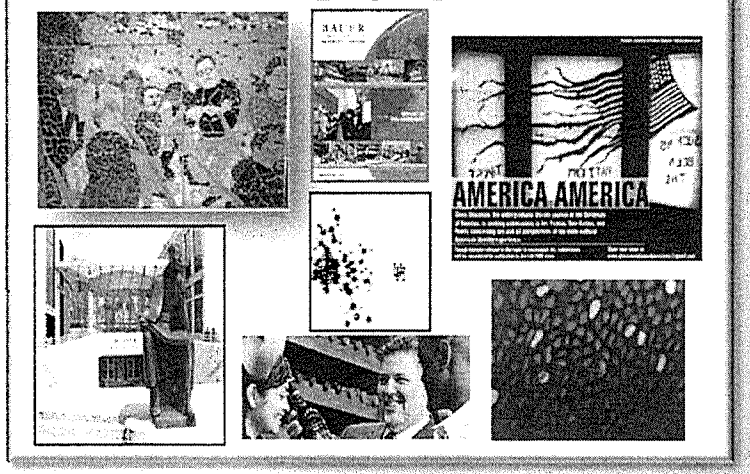
Health



Arts



Stars



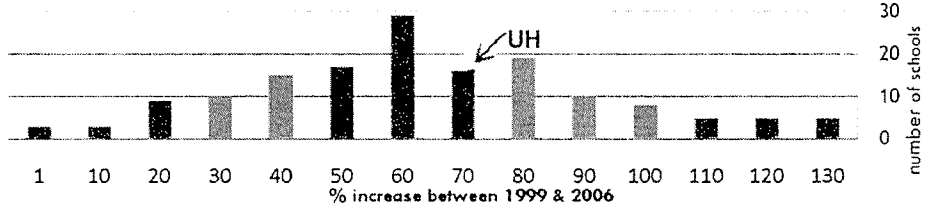
A&SS 4.1.1

Board of Regents
Donald L. Birx December 2008

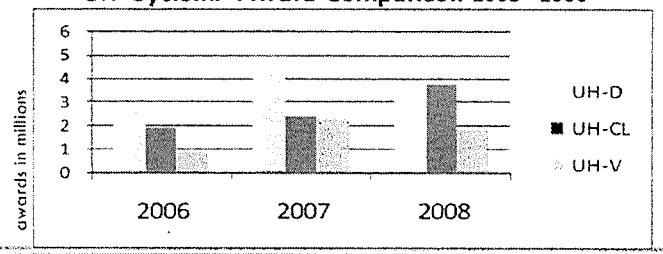
UNIVERSITY of HOUSTON

FUNDING OVERVIEW

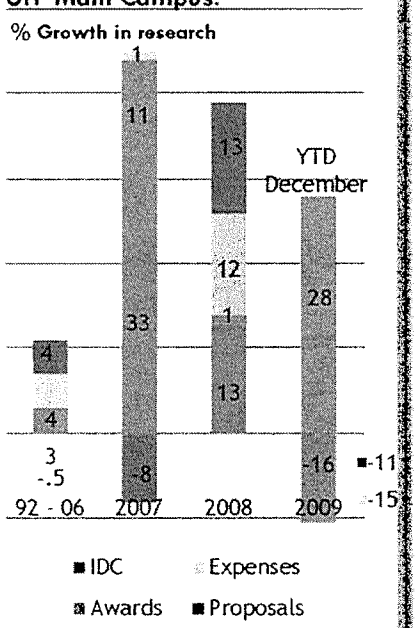
NSF R&D Expenditures 1999-2006



UH System: Award Comparison 2006 - 2008



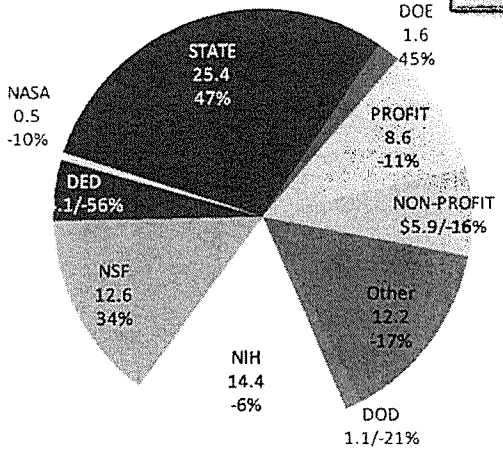
UH Main Campus:



A&SS 4.1.2

UH Main Campus: Awards by Agency

FY 2008 compared with FY 2007, *in millions*



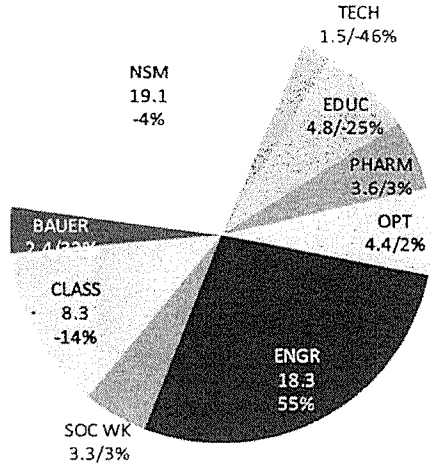
Other = Foundation, non-state university, local and misc .federal % = % Growth from FY 2007 to FY 2008

EXPENDITURES

Sponsored Research
2007 = $71.2 M
2008 = $79.7 M

UH Main Campus: Awards by College

FY 2008 compared with FY 2007, *in millions*



TARGETED INCREASES IN FUNDING

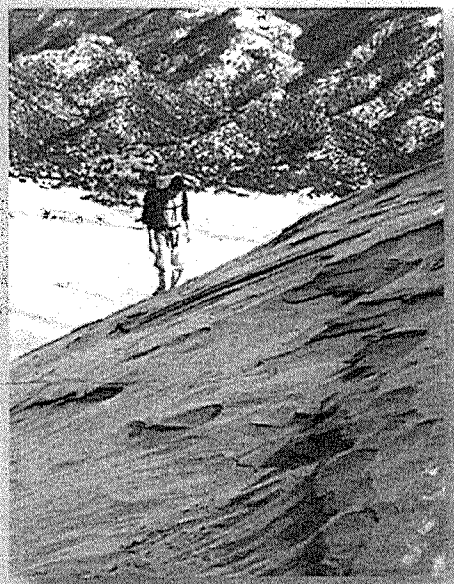
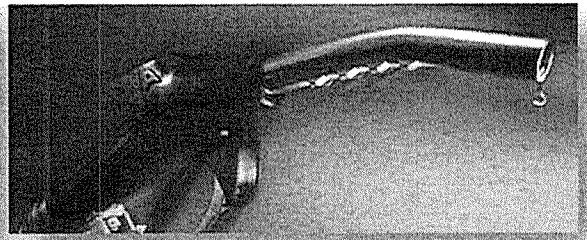
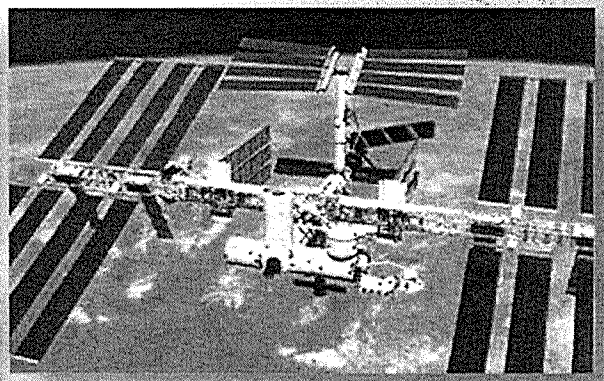
2009	2010	2011	2012	2013
8%	10%	15%	20%	20%
12%	15%	20%	25%	25%

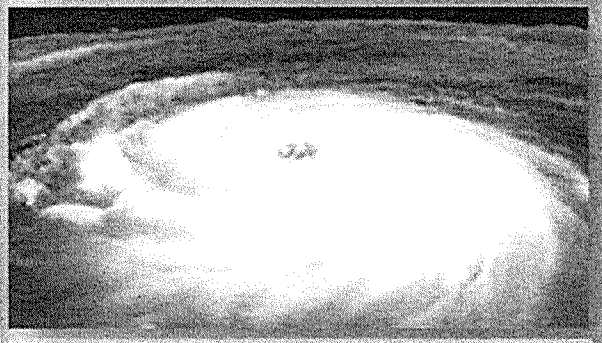
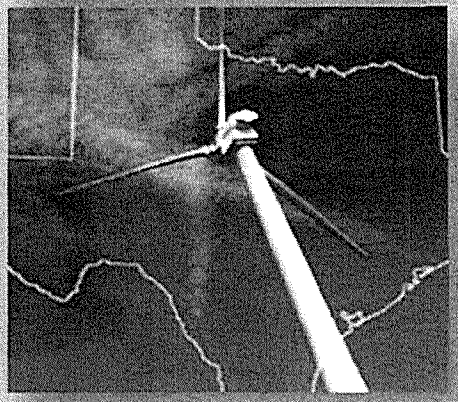
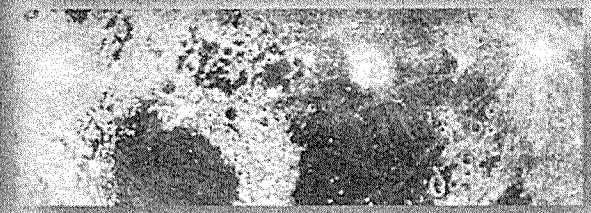
Greater percent decrease
-65%

Greater percent increase
130%

UH Energy

- ✓ Brand UH as the source for energy expertise in the world's energy capital
- ✓ Use Strategic Energy Alliance and Center for Industrial Partnerships to build relationships with energy companies and service providers

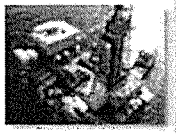

A&SS 4.1.3

UNIVERSITY of HOUSTON

Energy

Cluster hiring

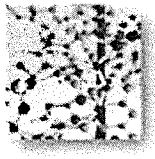
Advancing Subsurface Resources



Promoting Conservation & Sustainability



Driving Renewables & Alternatives



Leading Systems Integration



A&SS 4.1.4



ROBERT STEWART
Geosciences

About

- Research dedicated to finding new methods of making seismic images of the Earth's subsurface
- Initiated the Consortium for Research in Elastic Wave Exploration Seismology, which became the most successful geophysical research consortium in Canada
- Past editor of the Canadia n Journal of Exploration Geophysics and GEOPHYSICS
- Has served as a member of the Canadian Space Agency's Space Exploration Advisory Board, The California-based Mars Institute, the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA) Council, and University Technology International Inc.'s Board of Directors

Package

- $1.7 million start-up package

CHESNOKOV EVGENI
Geosciences



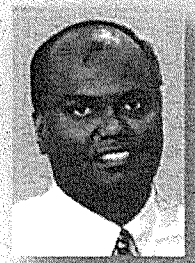
About

- A reservoir geophysicist who monitors petroleum reservoirs during fracturing using microseismic events.
- Guest editor for Geophysical Royal Astronomical Society; Izvestia Academy of Sciences, Physics of the Earth Interior; Geodynamical Investigations
- Past vice-chairman of the International Commission Wave Propagation In Real Media
- Past chairman of the Sub-Commission on Anisotropy (International Association Of Seismology and Physics of The Earth Interior)

Package

- $278,777 start-up

VENKAT SELVAMANICKAM
Mechanical Engineering/ TcSUH



About

- Superconductor Industry Person of the Year 2004
- The ONLY US industrial recipient of the Presidential Early Career Achievement Award
- Vice President and Chief Technology Officer of SuperPower
- Published more than 100 articles on high temperature superconductors; over 350 citations
- 43 U.S. patent applications and numerous international patent applications in high temperature superconductivity, fourteen of which have been awarded

Package

- $1.2 million start-up package
- ETF proposal $3.5 ,o;;opm

Revenue projections & actual– for these cluster hires:

- $14M over 5 years in new research funding
- $15-20M in new development funds as a result of the hires
- 1-2 spin-off companies or company transfers to Houston
- 14 new PhD's awarded per year after year 5

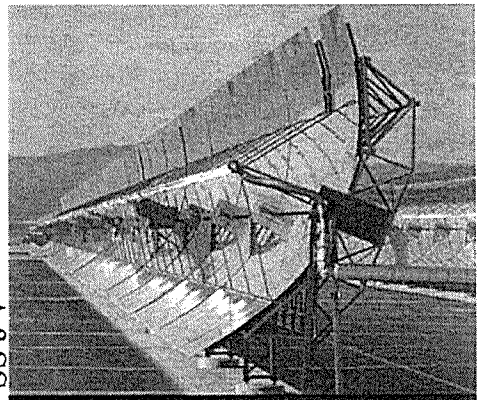
UH Energy Strategic Position

A&SS 4.1.5

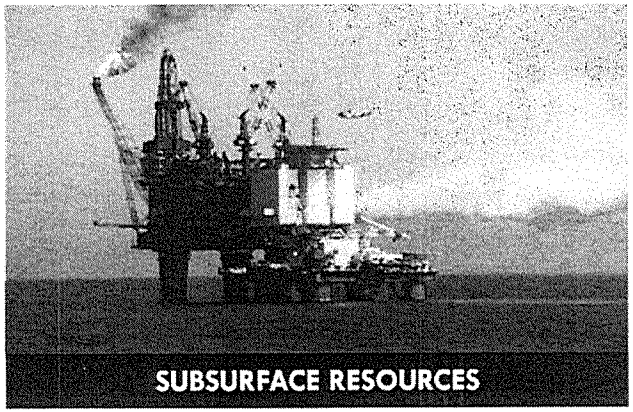
Strengths	*Positions*	*Gaps*
Texas Center for Superconductivity	Geology & Geophysics	Coal
Wind Alliance	Petroleum Engineering	Nuclear
Mission-Oriented Seismic Research Program	Energy, Environment, and Urban Development UH Law Center	
Global Energy Management Institute Bauer College	Solar	
	Energy Economics & Policy	
	Bio-Fuels (Genetic Design, Micro Biomes, Processing)	

Strategic Hiring: Recommendation (Research Perspective)

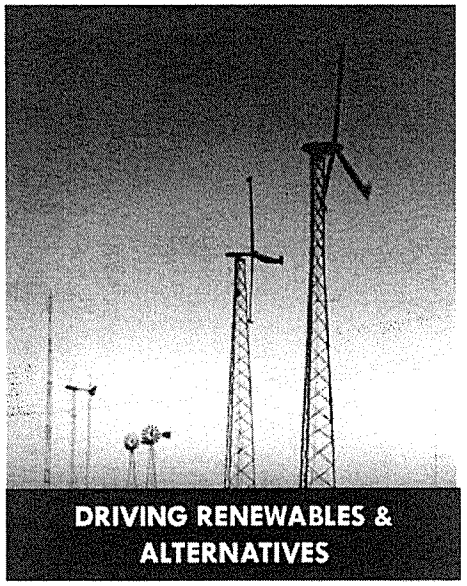
Energy & Natural Resources Research Cluster



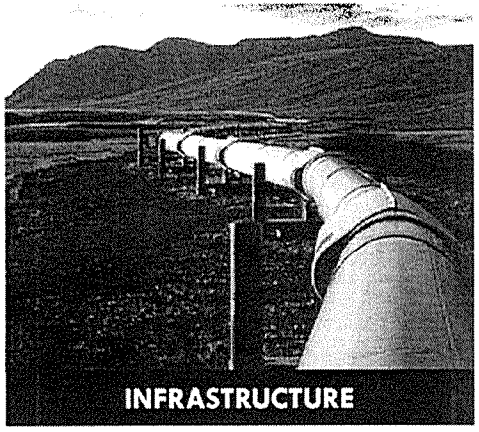
5 strategic hires



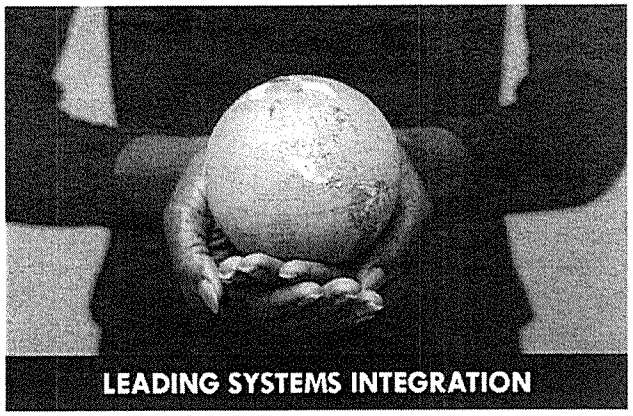
10 strategic hires



7 strategic hires



4 strategic hires

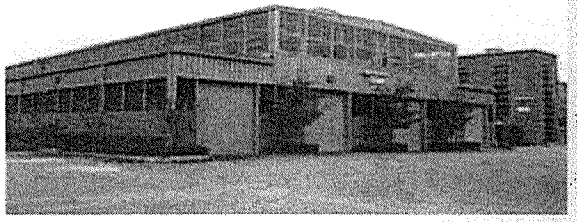


3 strategic hires

A&SS 4.1.6

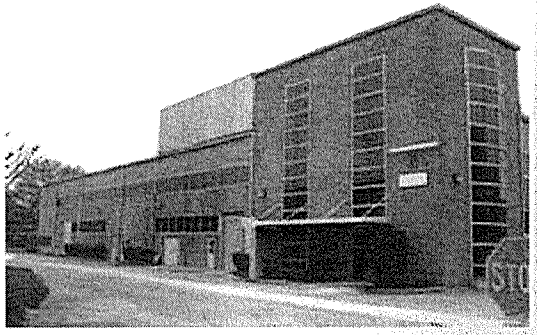
UH Energy Research Park





Building 7:

- 56,111 sf.
- 50,000 Light Manufacturing
- 6,112 Office Space
- 2 Overhead Cranes (5 & 10 ton)



Building 4:

- 32,680 sf. 2-story office space

Site Characteristics:

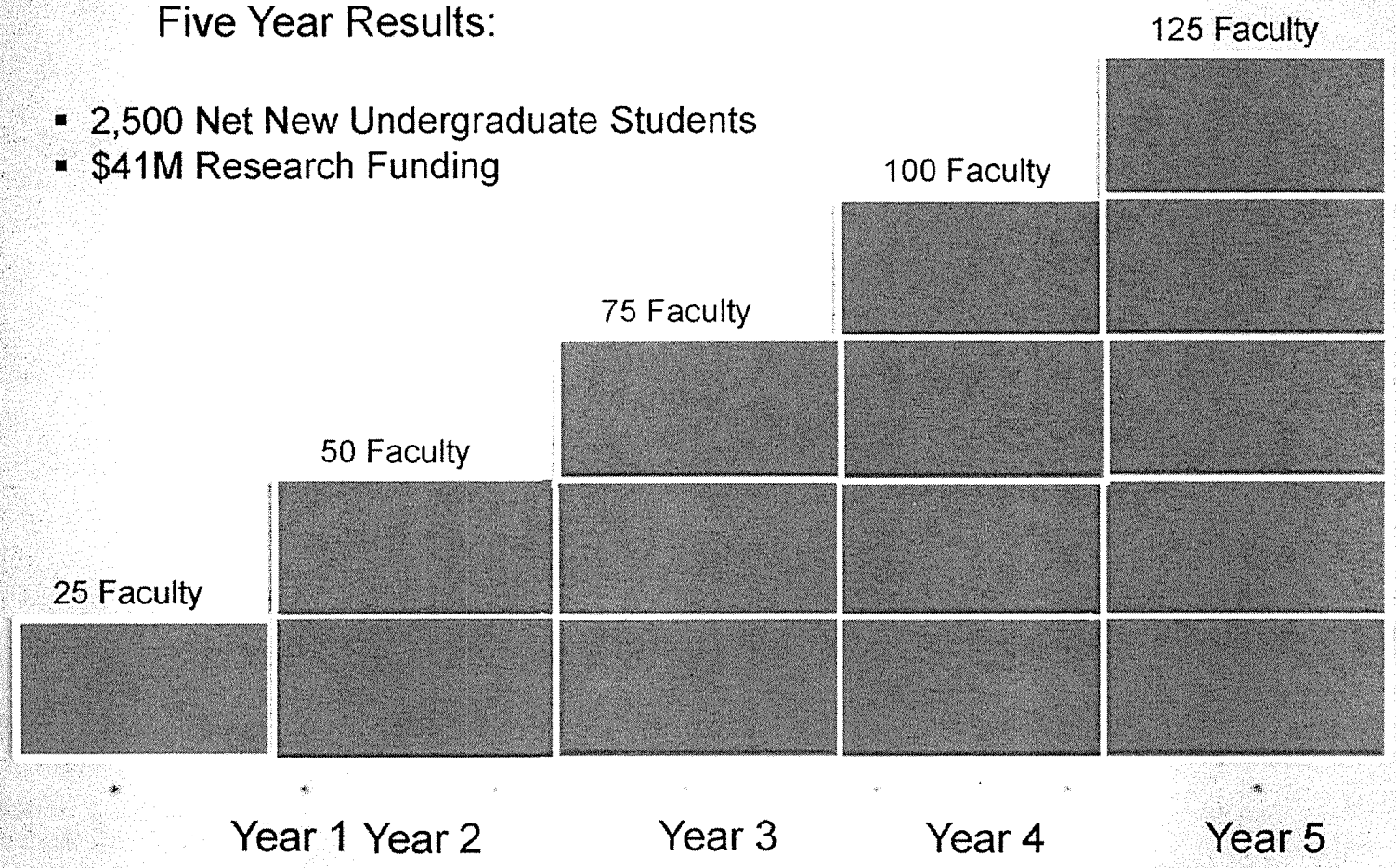
Total Acreage	69.5 acres
Vacant Land	28 acres
Total Building Area	581,000 sf.

A&SS 4.1.7

Vision to Achieve Top Tier Research Funding and Student Success

Five Year Results:

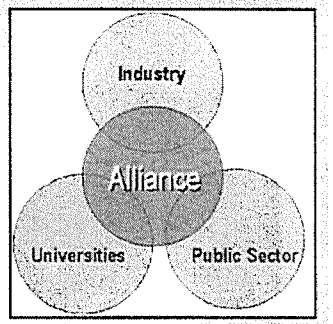
- 2,500 Net New Undergraduate Students
- $41M Research Funding

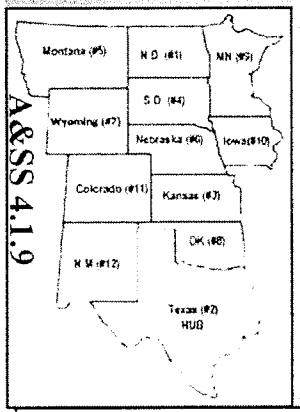


A&SS 4.1.8

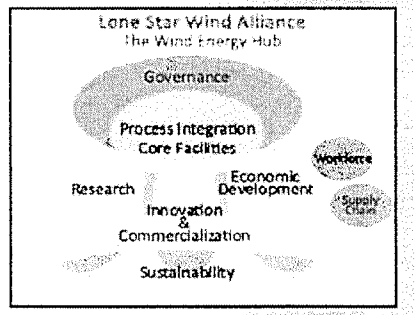
The Wind Alliance

- Cluster based, 30-member, public-private partnership focused on wind competitiveness in the energy portfolio
  - Developed in Texas under an MOU and a CRADA with DOE/NREL;
  - Opportunity to expand into the 12 wind corridor states;
  - Positioned to offer new administration unique leverage for achieving national goal of 25% renewables by 2025

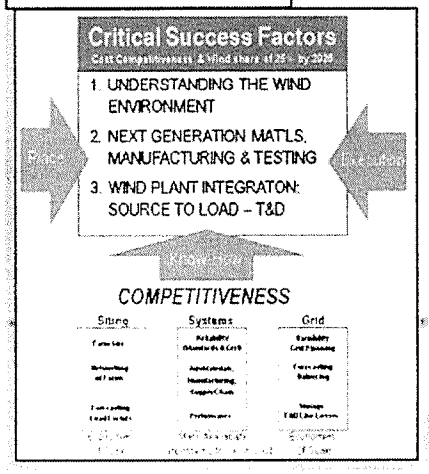




- Unique 501c3 organization
  - Neutral,execution-structured platform
  - Economic development driven leadership/focus
  - Common IP/contracting framework, flexible implementation scenarios
  - Multiple funding sources



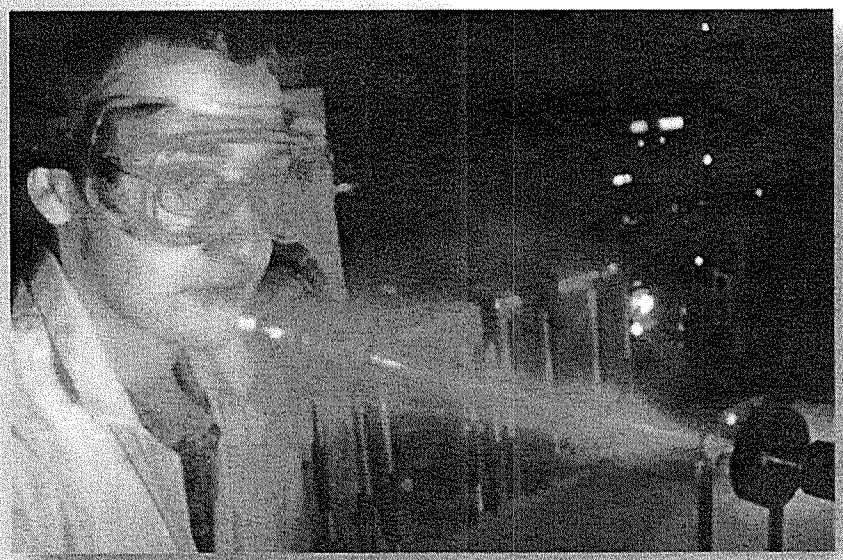
- Focusing on critical success factors
  - Tasks which protect achievement of 25% renewable energy by 2025 and for which Alliance is uniquely qualified
  - Approach complementary rather than competitive to AWEA and major federal interests/programs
  - Technology program: $50+M/year direct programmatic funding to execute:
    - ✓ siting
    - ✓ systems
    - ✓ grid

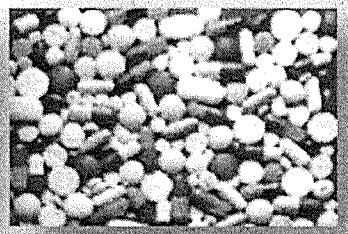
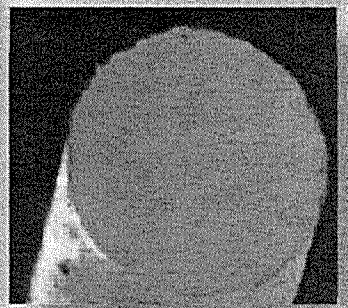


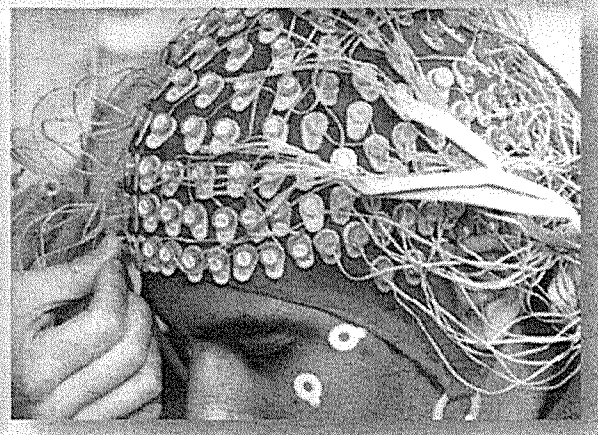
UNIVERSITY *of* HOUSTON

UH Health

- Brand UH as the source for health expertise
- Capitalize on proximity of Texas Medical Center & forge collaborations
- Use Center for Industrial Partnerships & research centers to foster relationships with health-care service providers & industry leaders



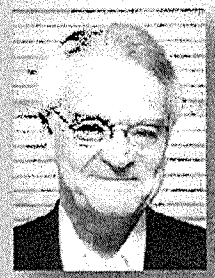



A&SS 4.1.10

UNIVERSITY of HOUSTON

Cluster hiring

Bio-Med



JAN-ÅKE GUSTAFSSON

Biology and Biochemistry/ Chemistry

About

✓Discovered a previously unknown receptor for the female sex hormone, oestrogen, which suppress things like cell division and stimulate cell death or apoptosis.

✓The discovery creates the possibility of new treatment and drug development for numerous diseases, including: prostate cancer, rheumatoid arthritis, inflammatory bowel diseases, and many others.

Heads the Texas International Center for Cell Signaling and Nuclear Receptors which:

✓Leverages existing assets and create key collaborations;

✓Moves Texas forward in world-leading discovery and development of medical innovation;

✓Leads to creation of companies and products to serve a growing need in the areas of cancer and diabetes.

✓Is a critical component and the driver of an even larger collaboration and commitment between UH and the Methodist Hospital Research Institute.

Package

- $15 million start-up
- ETF award $5.5

MARGARET WARNER

Biology and Biochemistry/ Chemistry



About

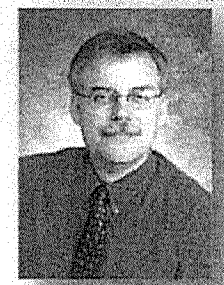
Dr. Warner and the research group she leads together with professor Jan-Åke Gustafsson focuses on:

✓ ER-beta and it's relation with different diseases. ER-beta was discovered by professor Gustafsson and his co-workers and is one of two receptors for the female hormone estrogen.

✓Medicines that stimulate ER-beta, ER-beta-agonists, have been developed for treatment of prostate cancer, inflammatory intestine diseases and rheumatoid arthritis.

SCOTT GILBERTSON

Chemistry



About

✓Uses combinatorial chemistry as a tool for the discovery of new drug candidates, and the synthesizes hundreds of compounds for screening as a useful complement to rational drug design.

✓Research centered on the development of new synthetic methods and the utilization of synthetic chemistry for the study of important biological and medical problems – ranging from the development of new methods in organic synthesis and the total synthesis of biologically important natural products to medicinal chemistry around leads compounds.

Package

- $1 million start-up

Revenue Projections: Year 1: $.75 million;
Over 5 years: $5.5 million.
With related hires in process: Over 5 years: $15.5 - $20.5 million.

Revenue Projections: For Texas International Center for Cell Signaling and Nuclear Receptors and related centers: Year 1: $1.2 million; **Over 5 years: $ 25 million.**

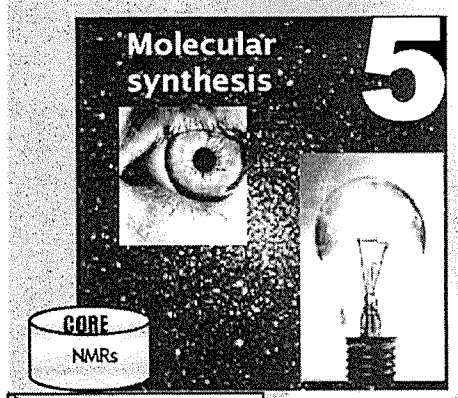
A&SS 4.1.11

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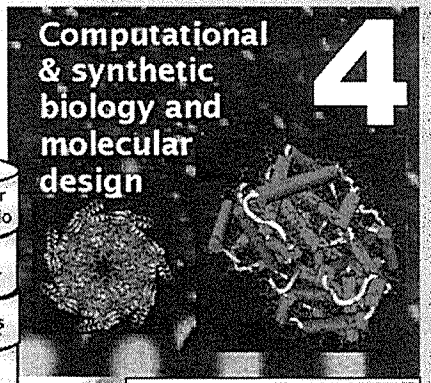
UH

Infrastructure - Health

Science and Engineering Research Center (SERC): status report

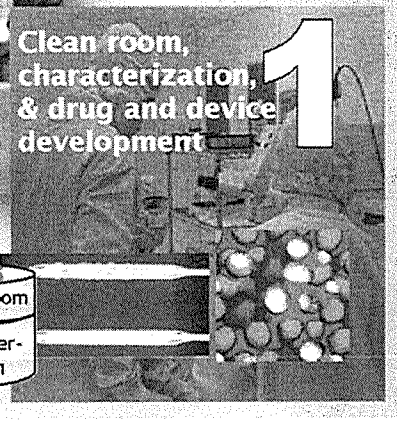


Design: begun 5-2008
Construction:
Start: ½ 2-2009
Complete: ½ 4-2009

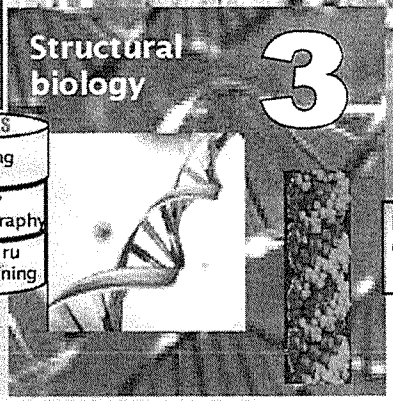


Design: begun 5-2008
Complete: 9-2009
Construction:
Start: 9-2009

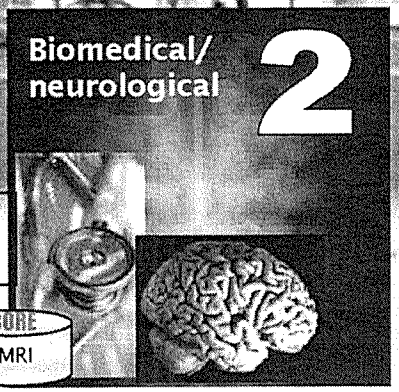
Design: begun: April,2008
Construction:
Start ½ : 9-2008
Complete: ½ 1-2009



Design: begun 5-2008
Construction:
Start: ½ 10-2008
Complete: ½ 2-2009



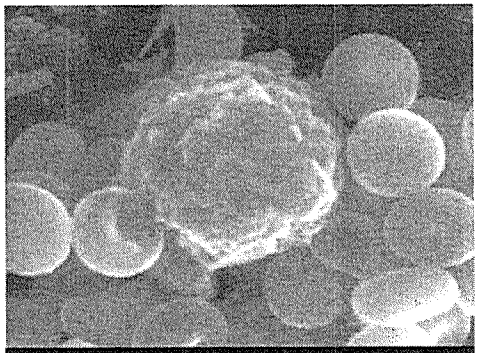
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Complete: 12-2010



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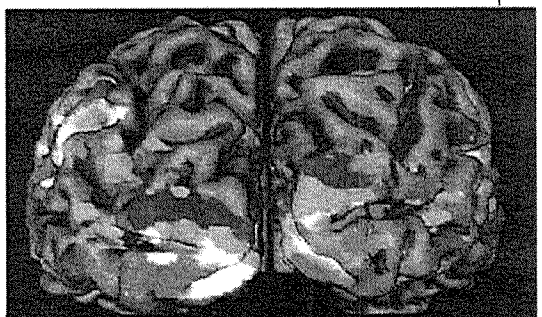
Strategic Hiring: Recommendation (Research Perspective)

Biomedical Sciences & Engineering Research Cluster



MOLECULAR GENETICS:
- Cell Signaling
- Genomics
- Proteomics
- Genetics

15 strategic hires



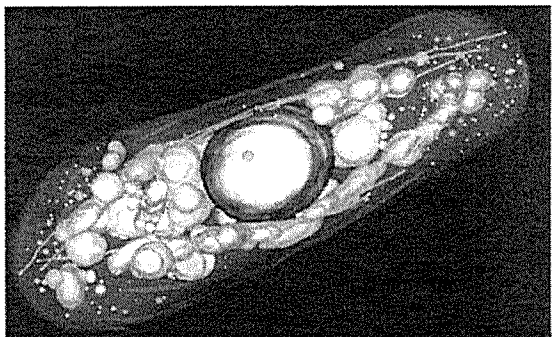
NEURO:
- Neurocognitive
- Visual treatment
- Visual system development

2 strategic hires



DISEASES:
- Drug design
- Infectious disease
- Chronic disease
- Health

4 strategic hires



SYNTHETIC BIOLOGY:
- Biomolecular
- Biomaterials
- Synthetic biology

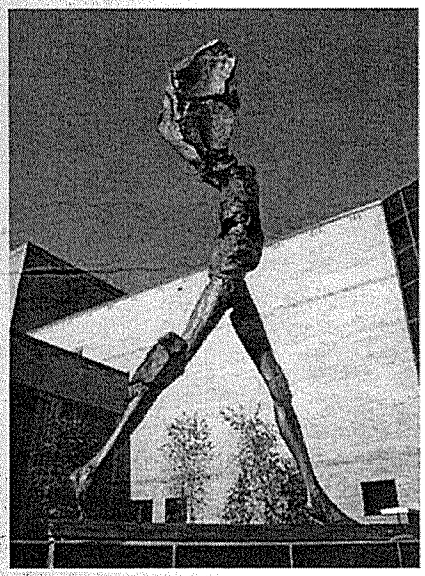
10 strategic hires

A&SS 4.1.13

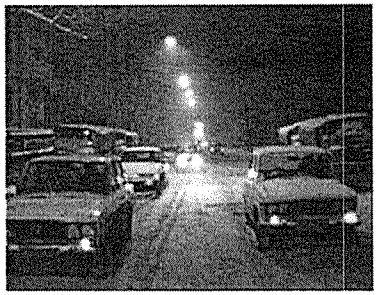
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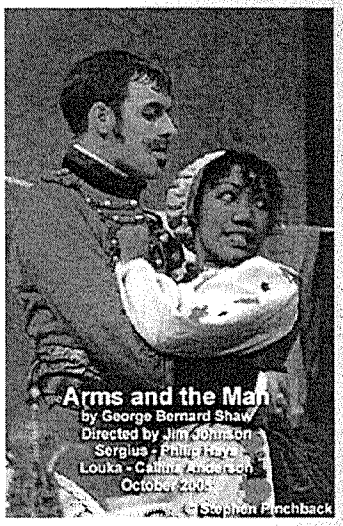
UH Arts

- Become a world-class arts destination
- Become a national innovator in commissioning new work, employing and training thousands of artists and sponsoring world-class arts series
- Expand and strengthen our partnerships with area theaters, museums, performance venues and arts organizations
- Pursue a chapter of the Phi Beta Kappa





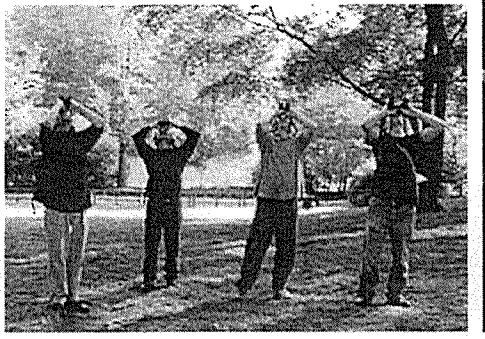


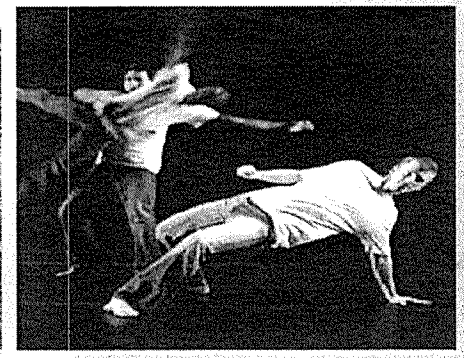








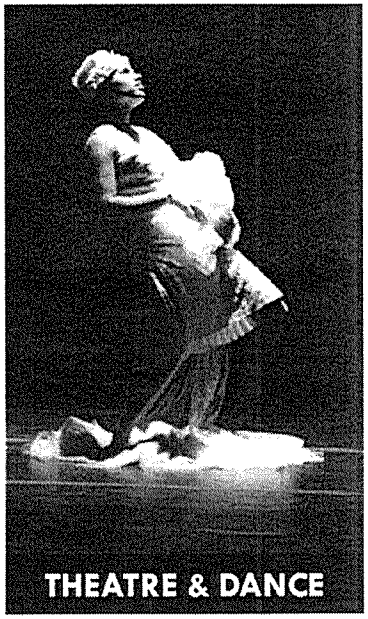




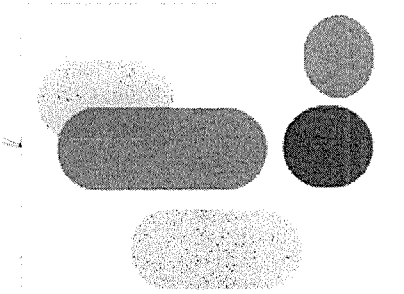
A&SS 4.1.14

Strategic Hiring: Recommendation (Research Perspective)

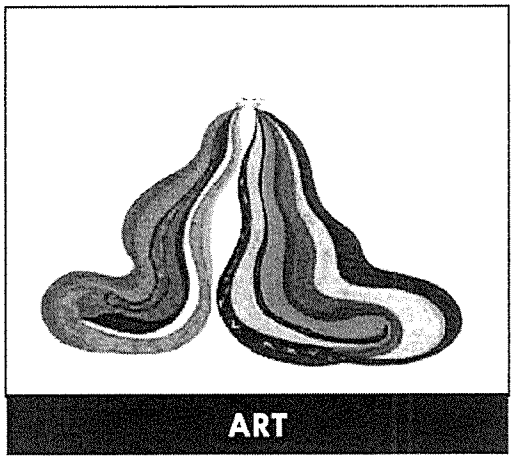
Arts & Human Enrichment Research Cluster



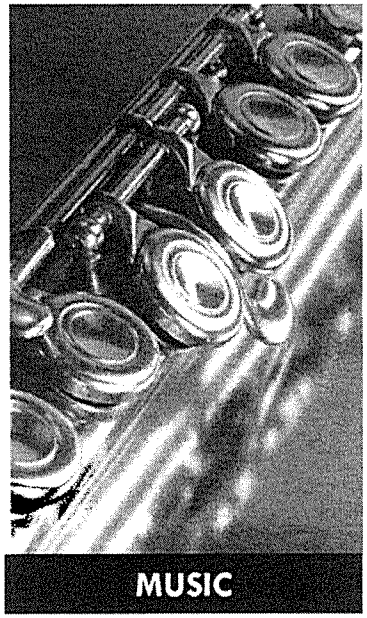
4 strategic hires



2 strategic hires



4 strategic hires



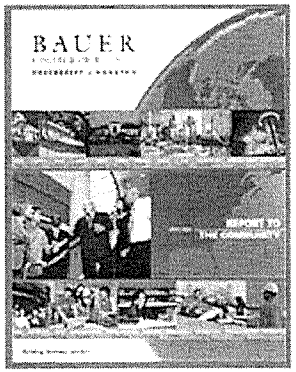
4 strategic hires

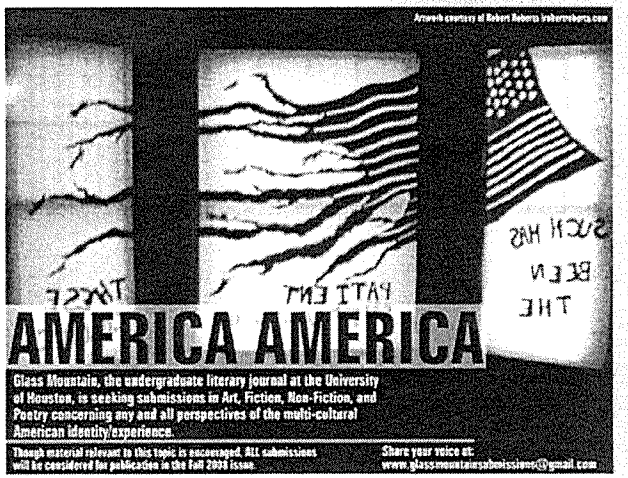
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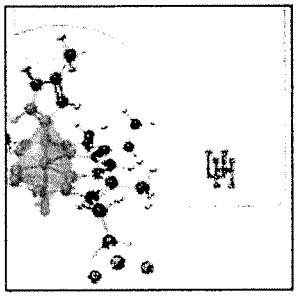
UH Stars

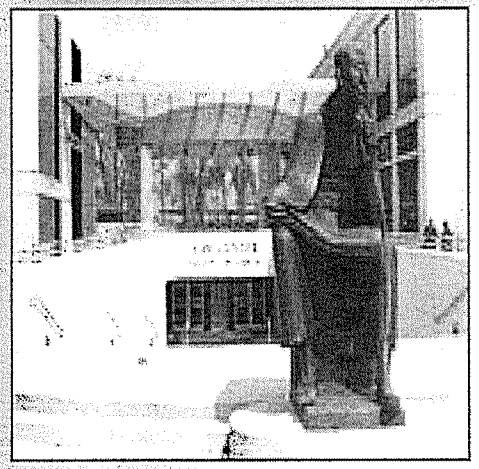
- Strengthen centers of excellence: entrepreneurship, health law, optometry, hotel and restaurant management, social work, psychology, chemical engineering, music, management and creative writing.

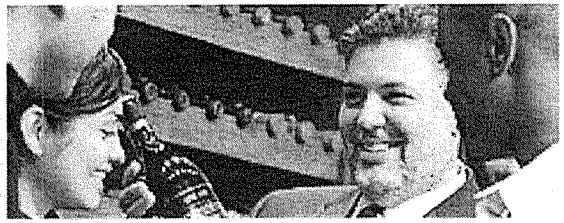


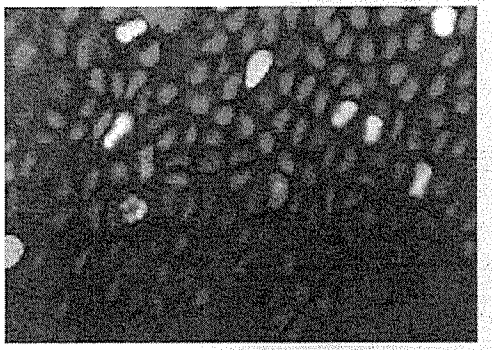






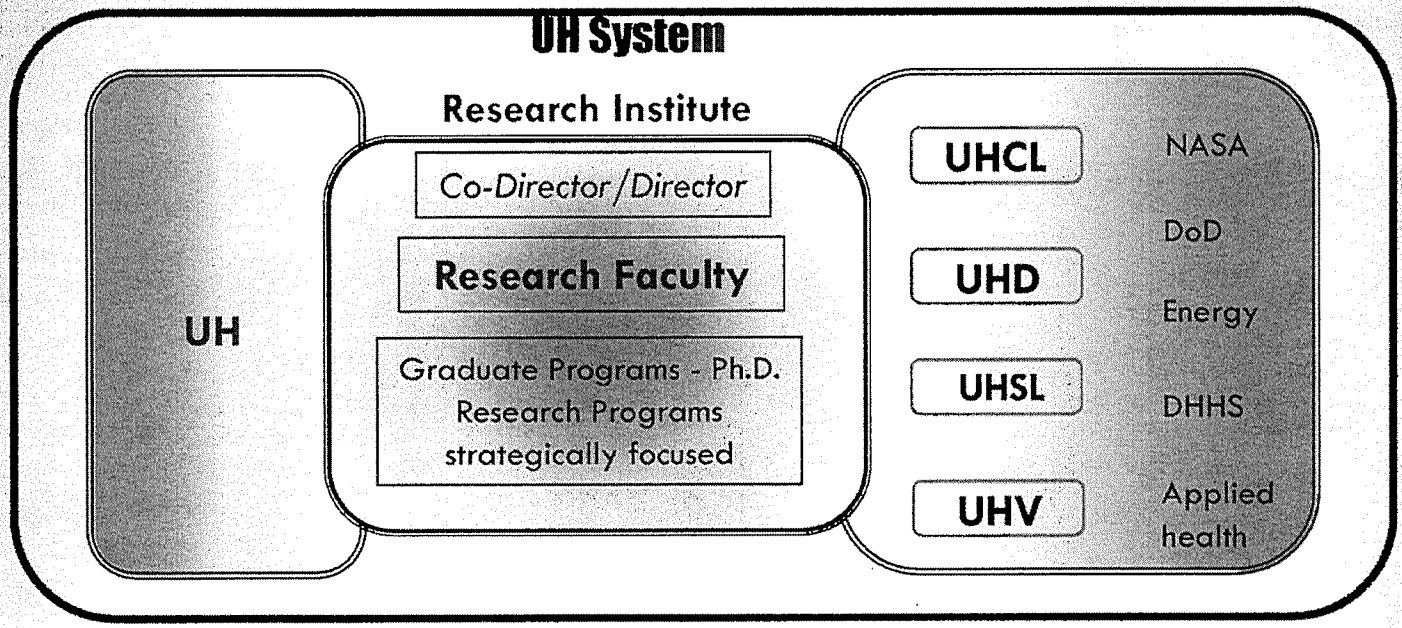






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UH System Research Institute



UH System Benefits:

- Elevated Number of Transfer Graduates Students
- Leverages System Strengths
- Research in Underserved Sectors

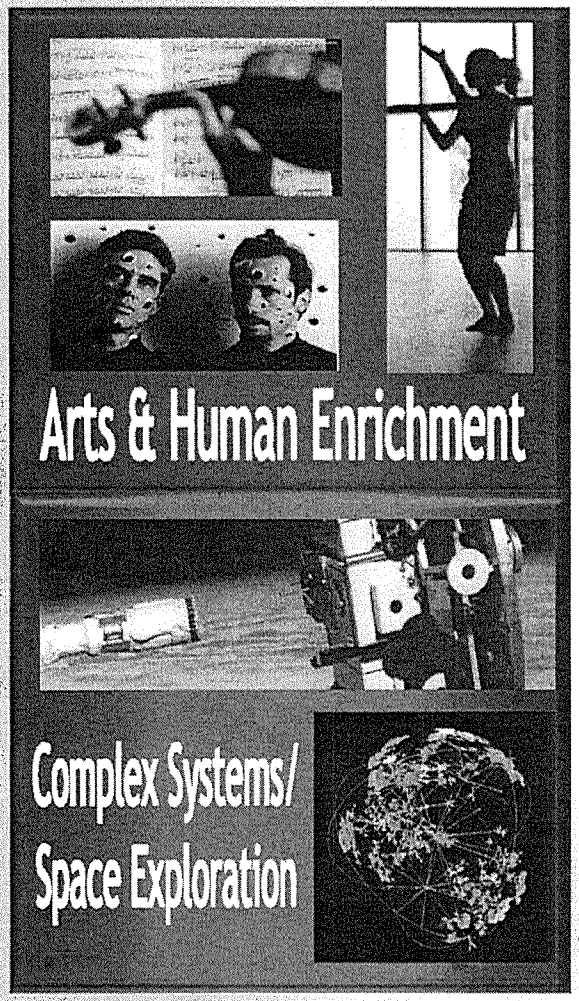
Individual Campus Benefits:

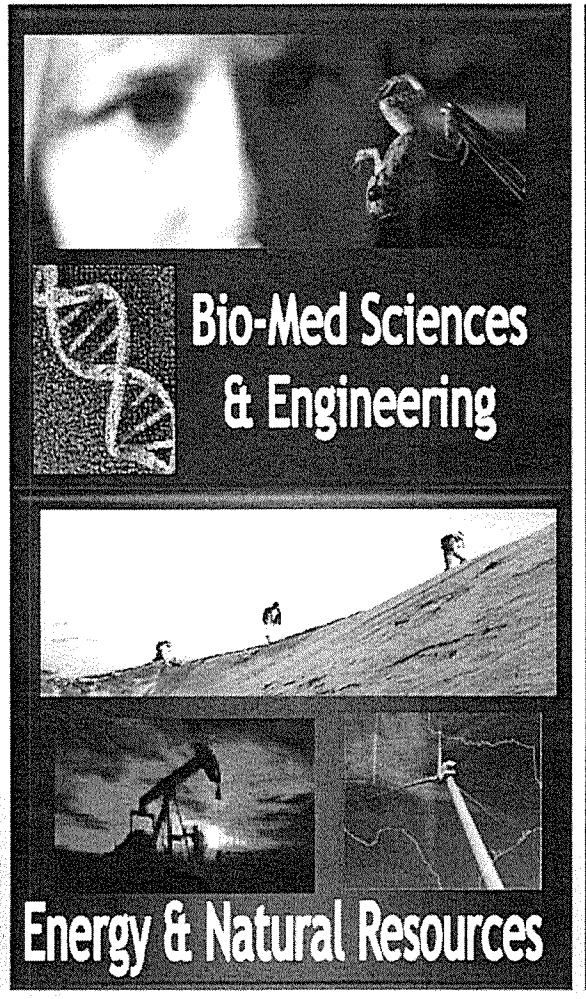
- Access to Shared Core Facilities
- Enhanced IDC Generation (Based on Faculty $ Generated, % Engaged) & Administration
- Research Level Increased (Reputation & Resources of UH System)
- Linking Research and Joint Graduate Programs
- Increased Faculty Resources
- Increased SCH Benefiting Both Institutions
- Research Infrastructure and Support Across System
- Proposal Support Center
- Realize Strategic Advantage (status, location, etc.)

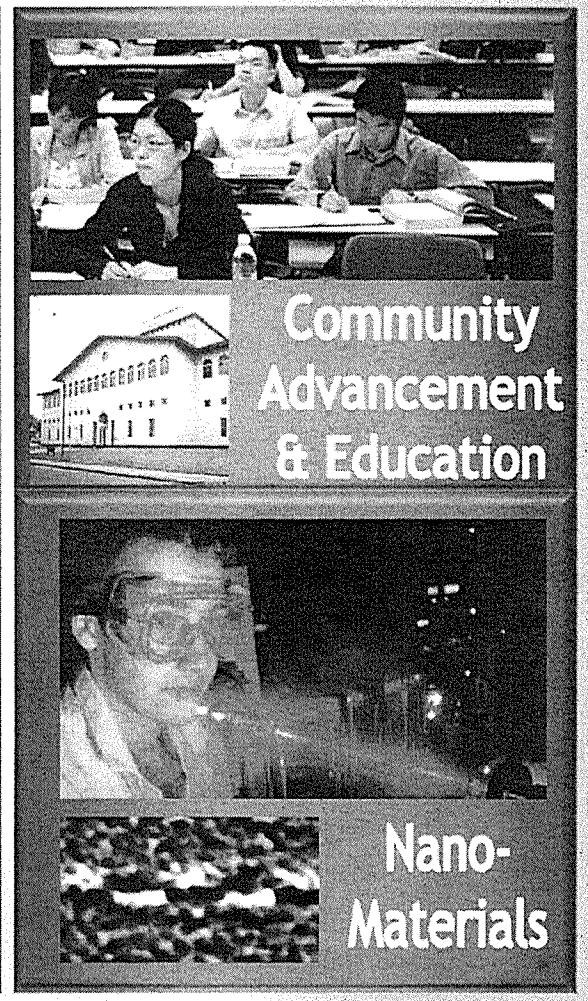
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Research Clusters







A&SS 4.1.18