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FOR
TECHNOLOGY TRANSFER AND RESEARCH COMMITTEE**

Committee Meeting: 11/14/2013
Austin, Texas

*Wallace L. Hall, Jr., Chairman
Ernest Aliseda
Alex M. Cranberg
R. Steven Hicks
Jeffery D. Hildebrand*

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Adjourn	<i>4:45 p.m.</i>	

1. **U. T. System: Update on the U. T. Horizon Fund portfolio**

REPORT

Mr. Bryan Allinson, Executive Director of Technology Commercialization, will provide an update on the U. T. Horizon Fund portfolio.

The U. T. Horizon Fund completed an initial investment in the EMIT Corporation, a U. T. Health Science Center - Houston company, and the first of five tranche investments in Lung Therapeutics, a U. T. Health Science Center - Tyler company. Several other investments are being reviewed with advisors.

2. **U. T. System: Report on Technology Commercialization Metrics for Fiscal Year 2012**

REPORT

The following presenters will provide a report on technology commercialization metrics submitted to the Association of University Technology Managers for its 2012 annual report.

- **Mr. Bryan Allinson**, Executive Director of Technology Commercialization
- **Dr. Patricia Hurn**, Vice Chancellor for Research and Innovation
- **Dr. Stephanie Huie**, Vice Chancellor for Strategic Initiatives
- **Dr. Dale Klein**, Associate Vice Chancellor for Research

The report, as set forth on the following pages, reviews the longitudinal metrics for research and commercialization and compares those metrics to other institutions around the world.

Technology Commercialization Metrics for Fiscal Year 2012 (most recent)

Mr. Bryan Allinson, Executive Director of Technology Commercialization

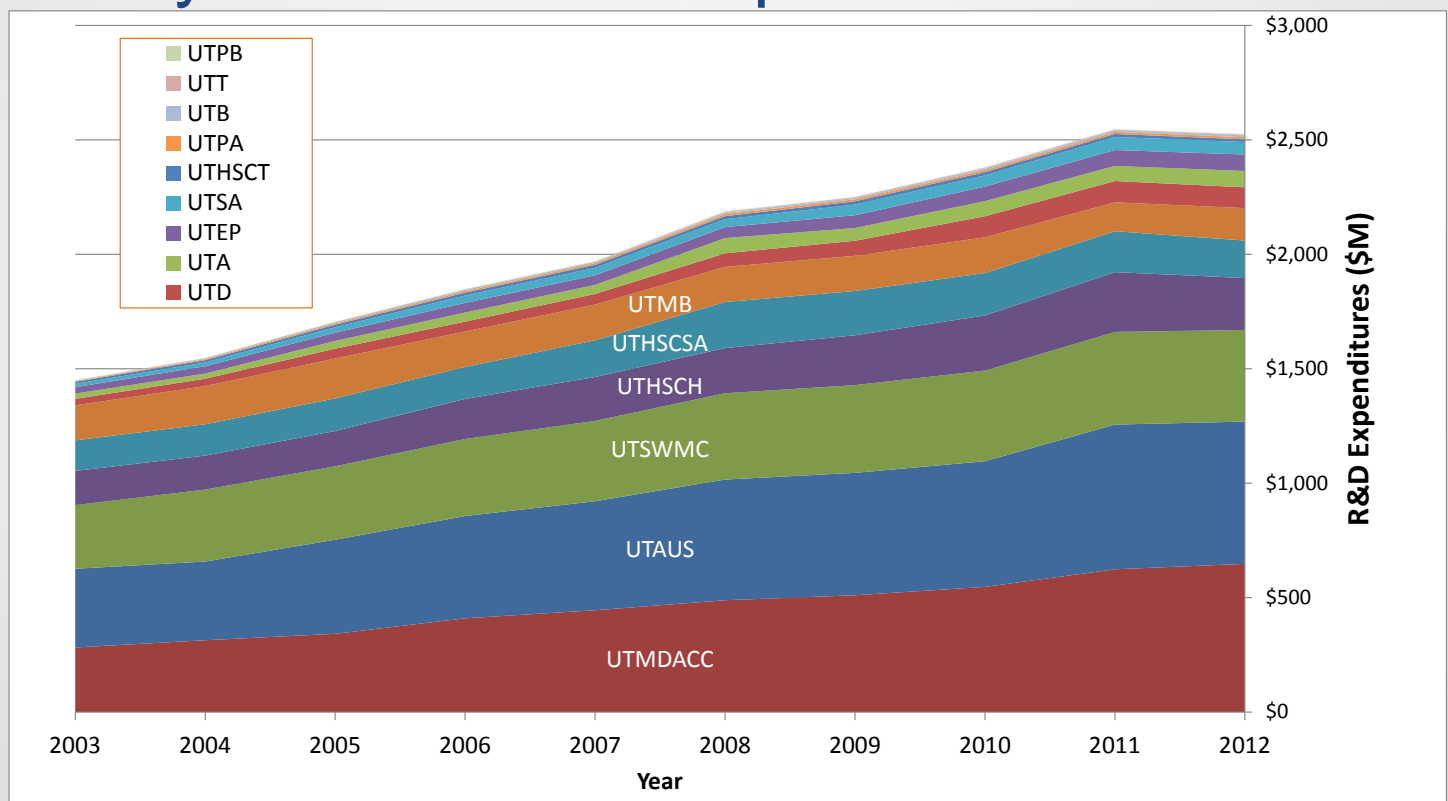
U. T. System Board of Regents' Meeting
Technology Transfer and Research Committee
November 2013



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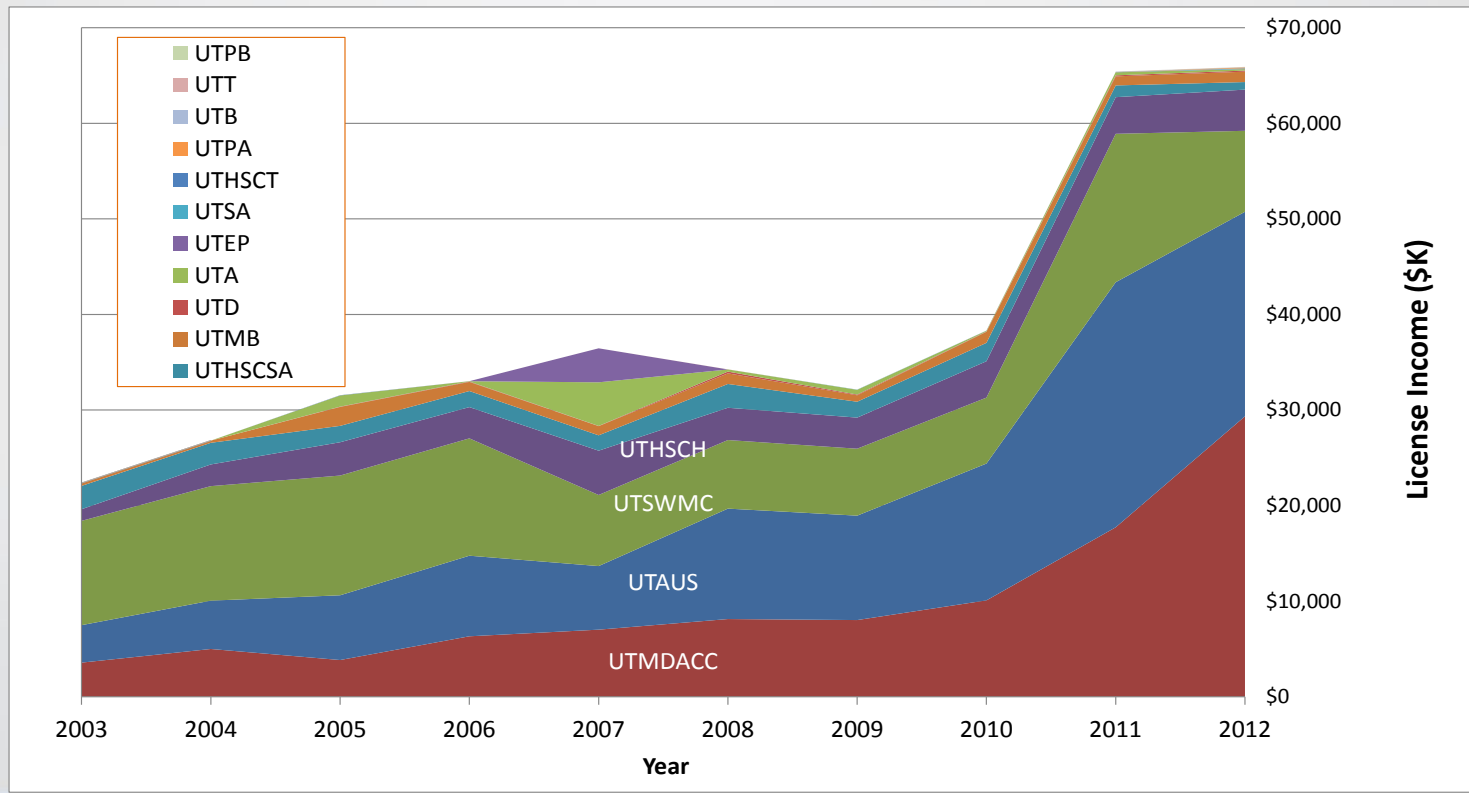
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Relatively flat research expenditure levels



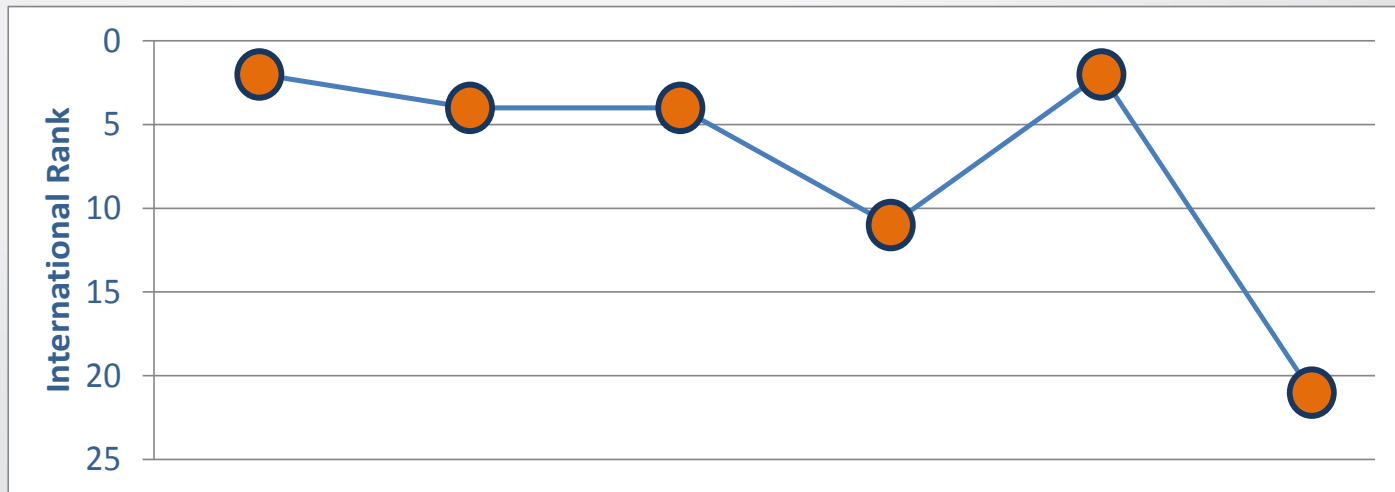
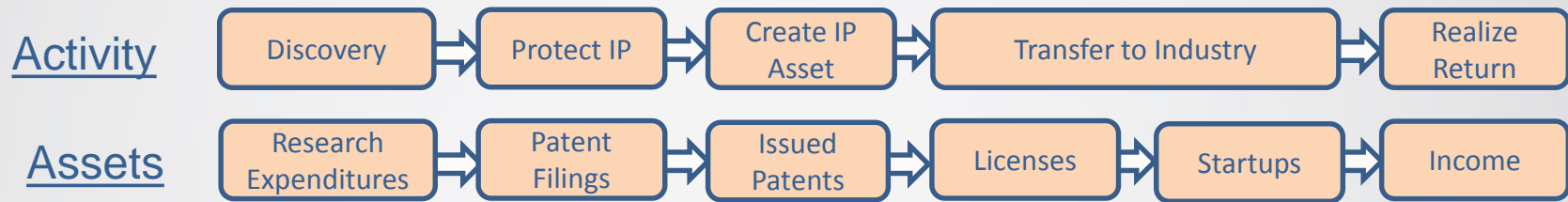
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Historically high license income levels



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Summary of international rankings



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Summary of international rankings

	Research	Total Patent Filings	Issued Patents	Licenses	License Income	Startups
1st	U. C. System	U. C. System	U. C. System	U. C. System	City of Hope	U. C. System
2nd	U. T. System ↔	MIT	MIT	Washington	NYU	U. T. System ↑
3rd	MIT	Cal. Tech.	Stanford	Georgia	Columbia	Toronto
4th	Johns Hopkins	U. T. System ↑	U. T. System ↔	Cornell	Sloan Kettering	MIT
5th	Michigan	Stanford	Wisconsin	Partners	MIT	Columbia
	Wisconsin	Johns Hopkins	Cal. Tech.	U. T. System (11th) ↓	U. T. System (21st) ↓	Florida

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3. **U. T. System: Report on the recent Texas FreshAIR (Academia-Industry Roundtable) meeting**

REPORT

Dr. Patricia Hurn, Vice Chancellor for Research and Innovation, will report on the successful Texas FreshAIR (Academia-Industry Roundtable) meeting, held on September 25-26, 2013.

The Texas FreshAIR meeting was a unique initiative that provided the biopharmaceutical industry with access to scientific expertise across all six health science institutions of the U. T. System.

Dr. Hurn will show a brief video that was introduced at the inaugural event.

4. **U. T. Brownsville: Report on the status of the Center for Advanced Radio Astronomy (CARA) and South Texas Spacecraft Tracking and Astronomical Research into Giga-hertz Astrophysical Transient Emission (STARGATE)**

REPORT

President García will introduce the following presenters to provide a report on the status of the Center for Advanced Radio Astronomy (CARA) and South Texas Spacecraft Tracking and Astronomical Research into Giga-hertz Astrophysical Transient Emission (STARGATE):

- **Louis Dartez**, graduate student at U. T. Brownsville
- **Jose Martinez**, graduate student at U. T. Brownsville
- **Fredrick A. Jenet**, Ph.D., Professor of Physics and Astronomy at U. T. Brownsville, Chair of the North American NanoHertz Observatory for Gravitational Waves, and Director of CARA

BACKGROUND INFORMATION

CARA is a center of excellence within the U. T. System. Over the last seven years, the CARA team has developed the Arecibo Remote Command Center (ARCC) at U. T. Brownsville. ARCC is an integrated research and education program that allows students to directly control the world's largest and most sensitive radio telescopes. The ARCC program is one of the top 10 programs in the nation to graduate Hispanic students with bachelor degrees in physics. For the past two years, the program has graduated five underrepresented students per year and will most likely continue to do so. The students are graduating in four years and are going on to Ph.D. programs in physics, astronomy, or related science, technology, engineering, and mathematics (STEM) fields. The success of the ARCC students underscores the profound effect research can have on the careers of students.

CARA is exploring a partnership with SpaceX, a commercial company that designs, manufactures, and launches the world's most advanced rockets and spacecraft. The partnership would involve other major research entities including NASA's Jet Propulsion Laboratory, the Naval Research Laboratory, and Cornell University's Department of Space Science to develop STARGATE, a multipurpose facility that will develop, test, and utilize radio frequency technologies for both scientific and commercial purposes. The STARGATE complex will be a nexus of research, education, and commercialization activities at the interface between pure science and industry that will develop technologies, infrastructure, and human capital that will support the new era of commercialized space exploration. It will give U. T. System students and scientists unprecedented research and education opportunities. Given the potential growth of the commercial space exploration industry, STARGATE would be the first step in a unique collaboration with SpaceX that would ultimately make U. T. System a world leader in space exploration.