

# Dean's Report to the DIAC

Purdue School of Engineering and  
Technology, IUPUI

27 February 2014



**IUPUI**

# SCHOOL OF ENGINEERING AND TECHNOLOGY

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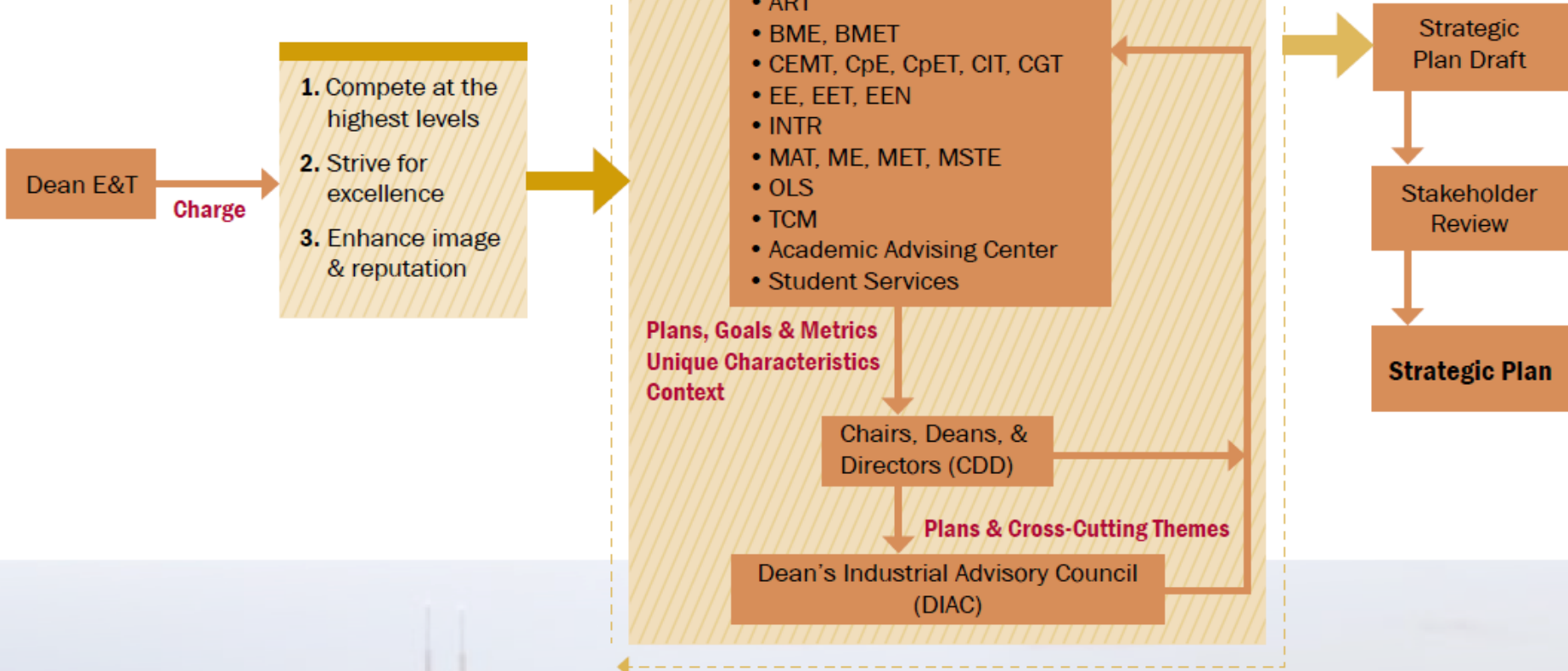
A PURDUE UNIVERSITY SCHOOL  
Indianapolis

**Strategic Plan: January 2012 - December 2017**

**Compete** at the Highest Levels  
**Strive** for Excellence in Core Mission  
**Enhance** Image and Reputation



Background Context



# Strategic Areas

## Vision

To be recognized as one of America's premier urban schools of engineering and technology.

## Themes

- Compete at the highest levels
- Strive for excellence in core mission
- Enhance image and reputation

## Mission

Serve the greater Indianapolis metropolitan area, the State of Indiana, and the nation by providing a high-quality learning environment informed through the discovery and dissemination of knowledge via the scholarship of teaching and learning, research and creative activities, and civic engagement.

## I. Best Practices

Invest in people and provide fiscal stewardship, effectiveness, and transparency in program investments and resource allocation to nurture and advance the School's intellectual assets.

## II. Undergraduate Programs

Excel in the delivery of instruction, the scholarship of teaching and learning, advising, and student services to support extraordinary student success.

## III. Graduate Programs, Research, and Creative Activities

Position the School as a pillar of the IUPUI research campus advancing strategic research foci, including health and life sciences, while offering relevant graduate programs of regional and national need.

## IV. Civic Engagement

Expand role and value of the School as an Indiana economic development mechanism through productive partnerships with business/industry, government, community, and other academic institutions.

## V. Diversity

Pursue excellence in our core mission by advancing a multi-faceted culture of diversity that seeks, values, and embraces diversity in all of its forms.



# IUPUI Strategic Initiatives

- Promote Undergraduate Student Learning and Success
- Optimize our Enrollment Management
- Increase Capacity for Graduate Education
- Transform Online Education
- Leverage our Strengths in Health and Life Sciences
- Accelerate Innovation and Discovery through Research
- Deepen our Commitment to Community Engagement
- Strengthen Internationalization Efforts
- Promote an Inclusive Campus Climate
- Develop our Faculty and Staff

IU President's  
Priorities

IUPUI Chancellor's  
Guideposts

IUPUI IMPACT  
Campaign

E&T 2006  
Strategic Plan

Background Context

New Campus Strategic Plan

Bicentennial Campaign

1. Compete at the highest levels
2. Strive for excellence
3. Enhance image & reputation

Dean E&T

Charge

**Programs & Support Areas**

- Dean's Office
- ART
- BME, BMET
- CEMT, CpE, CpET, CIT, CGT
- EE, EET, EEN
- INTR
- MAT, ME, MET, MSTE
- OLS
- TCM
- Academic Advising Center
- Student Services

Plans, Goals & Metrics  
Unique Characteristics  
Context

Chairs, Deans, &  
Directors (CDD)

Plans & Cross-Cutting Themes

Dean's Industrial Advisory Council  
(DIAC)

Strategic  
Plan Draft

Stakeholder  
Review

Strategic Plan

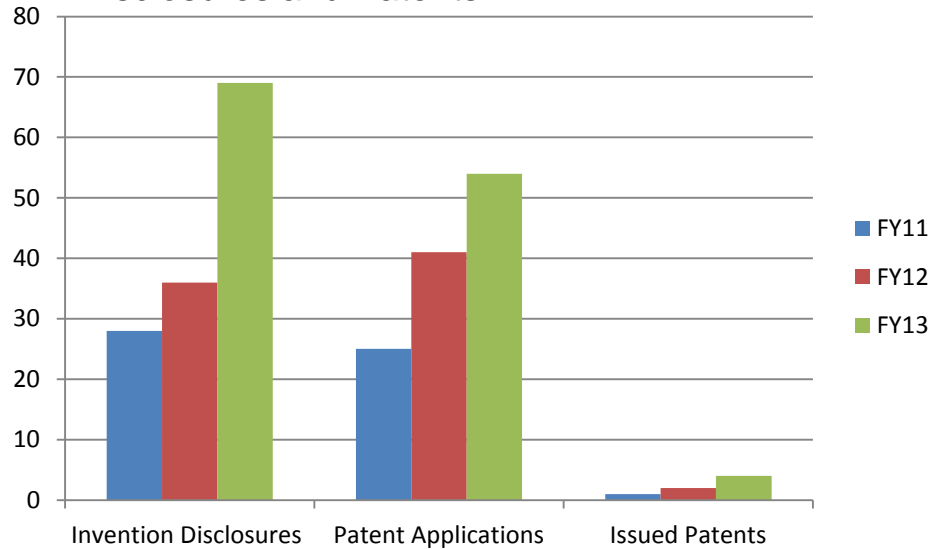
- E&T and Science Transformational Opportunity
- STEM Gateway Building (SELB 2) – A successful partnership with the School of Engineering and Technology and the School of Science resulted in the recent dedication of the Science and Engineering Laboratory Building (SELB 1). SELB1 has new space for both research and teaching activities but will soon be filled as faculty in rental space return to campus. It is therefore essential for both schools to expand their space and provide **a central location for all STEM administration and centralized services, including academic advising, student services, and career services, as well as learning and research spaces for both the School of Engineering and Technology and the School of Science.** Through a collaborative effort between these two schools, this space would serve as a hub for all of the STEM disciplines, as we work to address the growing national concern that the United States is not preparing a sufficient number of students, teachers, and practitioners in the areas of STEM. \$60-80M

- **Promote Undergraduate Student Learning and Success** (E&T Area II)
  - Optimize our Enrollment Management
- **Increase Capacity for Graduate Education** (E&T Area III)
  - Transform Online Education
  - Leverage our Strengths in Health and Life Sciences
- **Accelerate Innovation and Discovery through Research** (E&T Area III and IV)
  - Deepen our Commitment to Community Engagement
- **Strengthen Internationalization Efforts** (E&T Area II, III and V)
  - Promote an Inclusive Campus Climate
  - Develop our Faculty and Staff

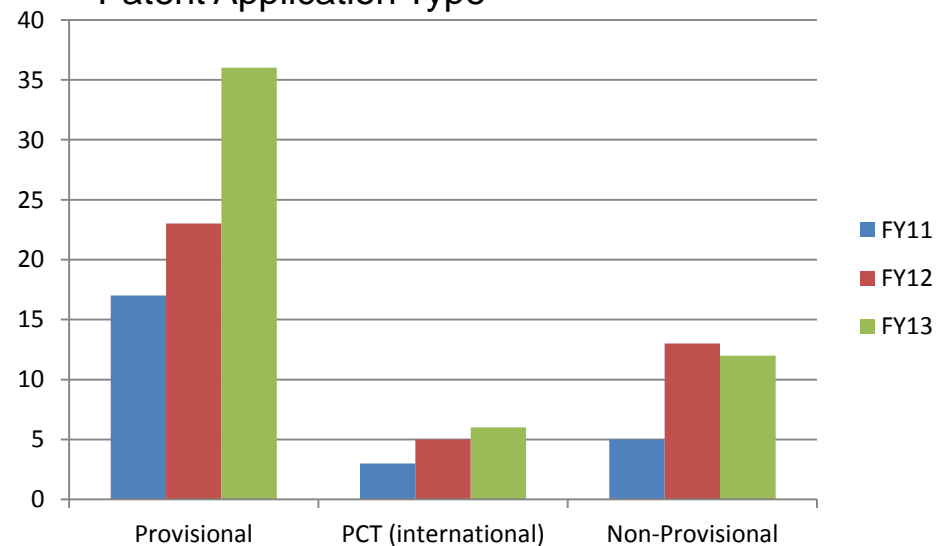


# E&T Intellectual Property

### Disclosures and Patents



### Patent Application Type



# E&T Strategic Initiatives

- Indirect Cost Recovery (ICR) and non-resident tuition are the key financial enablers for our strategic priorities
- Recruitment and retention of underrepresented students
  - Women
  - African-American and Hispanic/Latino
    - AUC and Puerto Rico
- Pending Ph.D. proposal in Music Technology.
  - Department of Music and Arts Technology (MAT) generates very modest ICR
  - need increased revenue from “service” hours
  - need increased revenue from growing B.S. in Music Technology program

# ABET Accredited Programs

Bachelor of Science Computer Graphics Technology  
Bachelor of Science Computer Information Technology



Bachelor of Science in Biomedical Engineering  
Bachelor of Science in Computer Engineering  
Bachelor of Science in Electrical Engineering  
Bachelor of Science in Mechanical Engineering



New programs  
(plan EAC of ABET in 2016)  
Energy Engineering  
Motorsports Engineering

Bachelor of Science Computer Engineering Technology  
Bachelor of Science Construction Engineering Management Technology  
Bachelor of Science Electrical Engineering Technology  
Bachelor of Science Mechanical Engineering Technology



Biomedical Engineering Technology  
(just visited by ETAC of ABET)  
anticipate accreditation notification in August, 2014

# Other Accredited Programs

## NASM NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC

- The Department of Music and Arts Technology and all of its programs received ***inaugural accreditation*** in 2011
- B.S. Interior Design Technology is accredited by the Council for Interior Design Accreditation

CIDA onsite visit earlier this week



# Interior Design Technology

- INTR students designed a “safe house” that will be built to protect child-led families in the Kingdom of Swaziland in southern Africa
- The 800-square-foot sustainable safe house; constructed of local materials; rainwater collection and filtration system. Safety features include windows placed high on the walls and an outdoor courtyard surrounded by high walls.
- Six orphan girls will live in the safe house that provides communal sleeping and living spaces.
- One student design chosen by Saving Orphans through Healthcare and Outreach (SOHO) to serve as a model home for a new village in Swaziland



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Indianapolis

Thank you for being a very important  
member of IUPUI