New device could decrease time spent between detection and treatment for cancer patients

When treating cancer, time is the most important variable available for both the patient and the doctor. For the individual battling the cancer, every second spent post-diagnosis is counted as if could be the last.

Dr. Yong Joe-Kim, director of The Acoustics & Signal Processing Laboratory at Texas A&M University, and his students are conducting research that seeks to develop a method of cancer detection that identifies the mechanical properties of cancer cells.

Read the story at tx.ag/k6Qc0dR
Impact

- 14 National Academy of Engineering members and 1 National Academy of Science member (FY16)
- 8 International academy members (FY16)
- Technology commercialization (Since FY94)
  - 202 License agreements
  - 27 Start-up companies
- Highly cited researchers (by Thomas Reuters)
  - 2001 – 2
  - 2014 – 3
- 158 Fellow grades in professional societies
- 63 Authored textbooks and book chapters
- 85% of May 2014 BS engineering graduates had job offers or plans to pursue graduate school
  (data voluntarily reported by students to the Texas A&M University Career Center; actual number may be higher)
- 610 PhDs in academia (54% in US Institutions since 1987)

Productivity

- Rankings
  - Graduate – 7th
  - Undergraduate – 8th
  (Source: U.S. News & World Report, public institutions)
- 1,370 Refereed journal papers (2014)
- 1,261 Selective conference papers (2014)
- 244 US and international patents (since FY94)
- $72.2 million in research expenditures (FY14)
  - 54% Federal
  (TEES Centers funding not included)
- 84 Young Investigator awards (NSF CAREER, Air Force, Navy, DARPA, and PECASE, since 2003)
- Number of graduates (COE for FY13)
  - BS – 1,790
  - MS – 588
  - PhD – 235
- Average years to degree (FY09-FY13 average)
  - BS – 4.65 years
  - MS – 2.31 years
  - PhD – 5.58 years
- Students with international experiences through study abroad program participation
  - FY15 – 715
  - FY14 – 601
  - FY13 – 594
  - FY12 – 490
  - FY11 – 434
  - FY10 – 372

Service

- 506 Editorships and editorial board memberships
- 350 Memberships in professional society committees
- Continuing education (TEES & COE, FY14)
  - Number of courses – 155
  - Number of students – 12,827
- One faculty on interpersonal agency appointment
- 462 Days external consulting (AY14)

Diversity

- Faculty (Fall 2014)
  - Male – 85.1%
  - Female – 14.9%
  - Hispanic – 7.8%
  - African-American – 1.4%
  - White – 62.5%
  - Asian – 27.5%
  - Native American – 0.8%
- Staff
  - Male – 37.6%
  - Female – 62.4%
  - Hispanic – 10.6%
  - African-American – 3.1%
  - White – 77.9%
  - Asian – 6.6%
  - Two or more – 0.4%
  - Other – 1.33%
- External Advisory Committees
  - Male – 90%
  - Female – 10%
  - African American – 2%
  - Hispanic – 5%
  - White – 92%
  - Asian – 1%

STUDENT DIVERSITY (College of Engineering - Fall 2014)
Official 12th day not certified by DARS Enrollment Report

<table>
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