

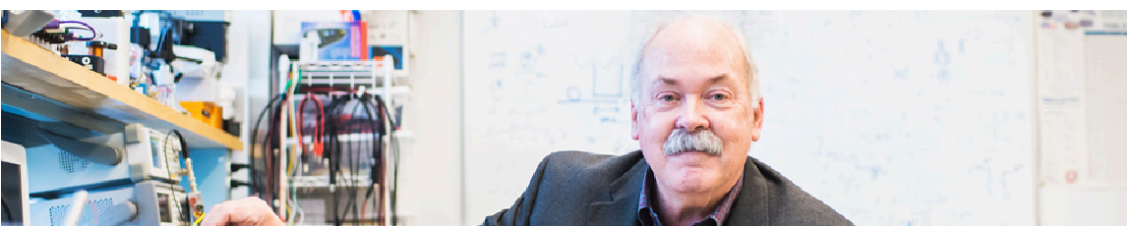
**BU ECE NEWSLETTER, SPRING 2018**



**Brown stains on brain tissue indicate damage**

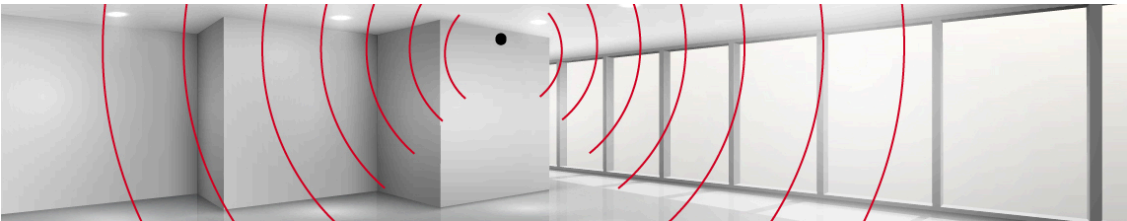
**ECE contributes to a new study suggesting that CTE is caused by head injuries, not by concussions.** The research explains why 20% of athletes who exhibited the early stages of the progressive brain illness postmortem never had a diagnosed concussion. ECE PhD graduate Amanda Gaudreau-Balderrama and ECE Professor [Janusz Konrad](#) contributed to image and video analysis in the study.

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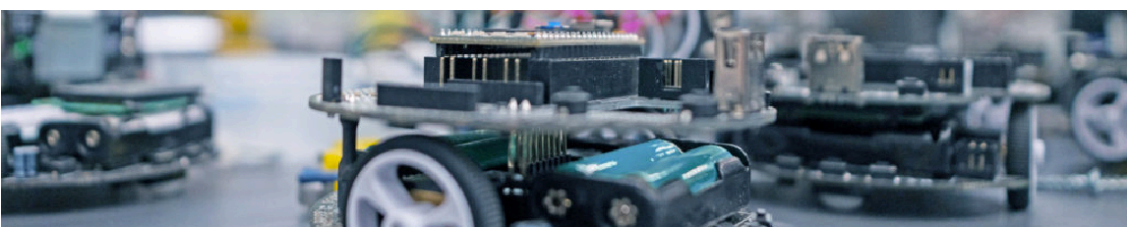
**National Academy of Inventors elects ECE Professor David Bishop as a Fellow.** [Bishop](#) holds US patents for 47 micro mechanical inventions. The centerpiece of his portfolio is the lambda router.

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**ECE wins a \$1 million contract from the Department of Energy's ARPA-E program.** A multi-disciplinary team will develop a sensing system to estimate a room's occupancy and appropriately adjust ventilation, with the goal of saving energy. ECE Professor [Janusz Konrad](#) will lead the three-year project with collaborators Professors [Prakash Ishwar](#) (ECE), [Thomas Little](#) (ECE), and [Michael Gevelber](#) (ME).

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**ECE is key in an interdisciplinary effort to advance robot machine learning and autonomy.** ECE Professor [Christos Cassandras](#) contributes insights into how robots seamlessly integrate with society, and ECE affiliated professor [Calin Belta](#) develops smarter ways to control robots.

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**ECE Professor Vivek Goyal wins the 2017 IEEE Signal Processing Society Best Paper Award.** [Goyal's](#) article, titled "[Message-Passing De-Quantization with Applications to Compressed Sensing](#)," was published in *IEEE Transactions on Signal Processing*.



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**The Optical Society elects three professors as Fellows:** Professors [David Boas](#) (BME, ECE), [Luca Dal Negro](#) (ECE, MSE, Physics) and [Selim Ünlü](#) (ECE, MSE).

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6<sup>th</sup>

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Source: TimesHigherEducation.com

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- 3 Current/Former IEEE Society Presidents
- 30 Society Fellows
- 23 NSF PECASE and CAREER, DOE and DOD Young Investigator Awards
- 29 Average H-Index per Faculty
- 4,500 Average Number of Citations per Faculty
- 51 Tenure-Track Faculty

**FUNDING FOR FACULTY RESEARCH HAS QUADRUPLED OVER 10 YRS**

