November 2017 Media Report

Dec. 1, 2017

November 2017 Media Report - A monthly look at what is being said about the MSU Engineering community

MediaNotes: Spartan Engineers have recently been featured in these new videos:

• Global Impact Initiative faculty members, including Christopher Contag, John Dorgan, and Arjun Krishnan.
• University Distinguished Professor Shanker Balasubramaniam
• University Distinguished Professor Venkatesh Kodu

The SmartAg International Symposium, being held at Michigan State University Dec. 3-6, will connect researchers, practitioners and policymakers who are tackling the global agro-food problem of producing more with less. John Verboncoeur, associate dean for research, is chair of the SmartAg Initiative executive committee.

MSUToday

• MSU is establishing an Accelerator Science and Engineering Traineeship program to address a national shortage in accelerator scientists and engineers. Leo Kempel said the college will contribute its growing capabilities in radio frequency, cryogenics, accelerator and plasma technologies to the project. John Verboncoeur said the trainee program is a crucial science and technology driver.

Fox 47 Lansing
MSUToday
Technology Century

• John Verboncoeur and ECE graduate student Daniel Kent tell WLNS TV 6 about the autonomous vehicle research ongoing to MSU.

WLNS TV 6 Lansing
WNEM TV 5 Saginaw

It's another inside front cover for Richard Lunt, Johansen Crosby Endowed Associate Professor in the Department of Chemical Engineering and Materials Science, and his co-workers. Halide perovskites are among the most exciting semiconductors to emerge in the past decade. MSU research is providing routes to unlock their potential.

Advanced Materials Interfaces
• A new age for solar energy is at our front window. **Richard Lunt** and his team have successfully created a completely transparent solar cell, which is expected to propel solar power to the forefront of green energy sometime in the near future.

**Electronic Products**

- Also: **Richard Lunt** tells WLNS reporter Melissa Brennan about new ways to create electricity.

**University Distinguished Professor of Computer Science and Engineering Anil Jain:**

- **Scientists have automated a key step in forensic fingerprint analysis.**
- **MSU team works to improve fingerprint security** - A team in MSU Engineering is working to improve the security of fingerprint recognition systems, and a big part of their effort aims to learn more about fake prints that could be used against you. **Anil Jain** and **CSE PhD student Josh Englesma** can demonstrate a fake or “spoof” fingerprint.

**WLNS TV 6**

- **Should facial recognition technology be taught the demographics of race, gender, age?** It can often perform certain tasks better, said Anil Jain. “This is not a surprising result. If you model subpopulations separately you’ll get better results.”

**PoliceOne.com**

- **The dead can unlock iPhones** – Does someone need to be alive for today’s increasingly common biometric recognition systems to work? In many situations, they don’t, said Anil Jain. (Dozens of media picked up this story around the country, including Corpus Christi, Lansing, Palm Springs, and Port Huron.)

**WKAR**

- **What iPhone X face ID means for you** -- There are benefits to facial recognition for security, mostly around convenience, said Anil Jain. People aren't good at choosing secure passwords.

**Teen Vogue**

- **Does iPhone X have a sunlight problem?** Anil Jain said that “extreme sunlight illumination causes specular reflections on the face that make it difficult for the depth sensor…to accurately estimate the depth.”

**Fortune**

- More:

**NewsWise**

- **Earprints to replace fingerprints?** News brief on research by Anil Jain and Kai Cao.

**CNN International**

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**Kalyanmoy Deb, Koenig Endowed Chair Professor for Electrical and Computer Engineering** is among the world's most highly cited researchers.

**Fox 47 News Lansing**

**MSUToday**

PhD student Osama Ennasar, undergrad student Camille Emig and GRACE, an underwater gliding robot, are working with **MSU Foundation Professor Xiaobo Tan** and **ECE Assistant Professor Vaibhav Srivastava** to teach humans and robots how to collaborate better.

**WKAR**

Just as it did in the 20th century, Michigan is leading a transportation revolution in the 21st. “It’s a huge investment and it’s a huge plus for the state of Michigan,” says MSU **engineering professor Haydar Radha**, director of CANVAS (Connected and Autonomous Networked Vehicles for Active Safety).

**WKAR**
John Dorgan, the David L. and Denise M. Lamp Endowed Chair in Chemical Engineering, spoke at the MSU Bioeconomy Institute in Holland on Nov. 8. His talk is “Advanced Composite Materials in Lightweighting Turbines.”

Ramakrishna Mukkamala, professor of electrical and computer engineering, is noted on CNBC for a story: “Smartphones can’t track today but may be able to soon.”

Like it or not self-driving cars will soon start to surface on roadways. So Betty Cheng, a computer science and engineering professor, has been working to keep hackers from controlling your future car.

For hearing aid users, holding a conversation in a busy crowd is impossible: the unfiltered environment can be a confusion of unwanted voices and annoying disturbances. Mi Zhang, a Michigan State University assistant professor of electrical and computer engineering, is developing cutting-edge technology to solve this problem.

Tamara Reid Bush, associate professor of mechanical engineering, was named a Fellow of the American Society of Mechanical Engineers, or ASME. She is one of about 3,500 fellows among the society's 120,250 members.

Current students
Darren Harden will graduate in December with a mechanical engineering degree and then go to work at the Eaton Corp. in Maryland. His MSU education was aided by the Education Training Voucher program.

Student comment on Lansing’s new City Center project: “I guess we’re getting a skyline now, huh?” said Jorel Singleton-Cochran, a computer science junior. Renee Wines, a computer science junior. “I don’t normally go to Target … I would be more willing to go if it were next to campus.”

Reece Cole, a senior in computer science, used his radio operator voice when he told WKAR about MSU’s almost 100-year-old amateur radio club, which is housed in the Engineering Building.
Stephen Subu, a civil engineering major and intern at Consumers Energy, shared thoughts on his military service as a former member USAF Explosive Ordinance Disposal team for Veteran’s Day.
MLive

Chemical engineering senior Abdullah Mohamed is on the team helping the student-run business, Land Grant Goods, expand. The business creates herbal teas.
State News

Korean students react to rising tensions -- Byungchan Go, an electrical engineering sophomore, lives in Seoul during the summers with his family. “To tell the truth, they’re useless drills … nobody knows what to do if North Korea attacked us.”
State News

Chemical engineering senior Derek Metcalf challenged himself to eat 100 McChicken sandwiches in 24 hours. His plans didn’t work out. The culprit: too much mayo!
Daily Mail (UK)
Thrillist
WXYZ TV Detroit

Alumni
India celebrated National Milk Day on Nov. 26, honoring the birth anniversary of Verghese Kurien (MS MECH EGR '48). He was the man behind the White Revolution in India, creating the billion-dollar milk industry under the brand, Amul.
DNA India

The Alpena Community College Foundation Board of Trustees appointed Ken Dragiewicz to its board of trustees Oct. 26. Dragiewicz serves as vice president of Alpena Power Company. He received a bachelor’s in electrical engineering from MSU in 1998.
Alpena News

Related Website: Communications contact: Patricia Mroczek