

# buckeye/engineering

AUTUMN 2015 / ISSUE 12

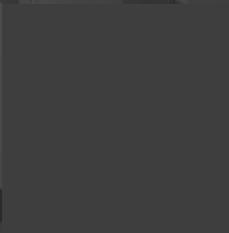
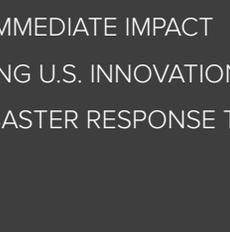
## Fast lane to success

### INSIDE/

LEGACY GIFT, IMMEDIATE IMPACT

MANUFACTURING U.S. INNOVATION

IMPROVING DISASTER RESPONSE TOOLS



**THE OHIO STATE UNIVERSITY**

COLLEGE OF ENGINEERING



## Speeding toward greatness

Instead of graduating high school early, Evan Maley went full throttle on a one-of-a-kind internship with Ohio State's Venturi Buckeye Bullet team. Eight years later, he now leads the team in their quest to eclipse 400 miles per hour in an electric vehicle.

To get there, the team will challenge their own record time in the all-new Venturi Buckeye Bullet 3, designed and built by Ohio State students.

Being part of the project not only gives students an experiential learning experience like no other, it also provides valuable networking opportunities. Alumni are sought after by companies like Apple, Caterpillar, Ford Motor Company, Honda R&D Americas and Lockheed Martin.

"Being able to talk about my experience on the Bullet landed me probably every job I've ever gotten, from my first internship at Honda to my current position at Boeing," said alum Cary Bork (BS '09, MS '12, ME).

**Learn more: [go.osu.edu/speed](http://go.osu.edu/speed)**





## \$14 million gift brightens future for students, faculty

Ed Claugus' (BS '81, CHE) gift to his alma mater will ensure that his academic passion, as well as the students who share it and the college that helped cultivate it, will be among the best in the world for decades to come.

The youngest of five brothers, all of whom earned degrees from Ohio State, Ed Claugus was a private investor and aviation enthusiast whose estate left more than \$14 million to benefit the students, faculty and staff of the College of Engineering and the William G. Lowrie Department of Chemical and Biomolecular Engineering. The gift supports student scholarships, academic facilities and world-class faculty.

Ohio State President Michael V. Drake noted that Claugus' most enduring legacy is likely to live within the student recipients of the scholarships he established.

"The gift from Ed Claugus is already changing lives. Forty-five engineering students in the first year alone are conducting innovative research, exploring volunteer opportunities and paying it forward in ways that would not be possible without their selection as Claugus Scholars," Drake said.

**Learn more:** [go.osu.edu/ecgift](http://go.osu.edu/ecgift)

Photo: Forty-five Claugus scholars, including the students shown above, currently benefit from Ed Claugus' generosity

## Ohio State to pilot manufacturing innovation initiative

Ohio State's Center for Design and Manufacturing Excellence (CDME) received a \$6.8 million grant from the U.S. Department of Commerce and the Department of Defense to create a new model for manufacturing and commercialization support for regional businesses.

CDME's three-pronged approach to advance the global competitiveness of existing defense and commercial manufacturing companies begins with facilitating multi-industry collaboration to address critical manufacturing challenges and market opportunities. Technological solutions from startup companies and university-based researchers will then be commercialized. Workforce development is the third major component, ensuring that workers are trained on emerging manufacturing technologies.

"CDME will connect major companies' multi-million dollar needs with the tens of thousands of new technologies and patents that reside in small startup companies and universities in the region," said CDME Associate Director Nate Ames, principal investigator of the grant project. "It will have a compounding effect on Ohio's economy by stabilizing large enterprises, implementing game-changing manufacturing technology and increasing the success of local startup companies."

**Learn more:** [go.osu.edu/mfi](http://go.osu.edu/mfi)



Oh come, let's sing Ohio's praise,  
And songs to Alma Mater raise,  
While our hearts, rebounding, thrill  
With joy which death alone can still.  
Summer's heat or winter's cold,  
The seasons pass the years will roll.  
Time and change will surely show  
How firm thy friendship ... OHIO!



## College honors illustrious alumni

Fifteen Buckeye engineers and architects and one community volunteer were honored during the 2015 Annual Excellence in Engineering and Architecture Awards.

Since the 1950s, the College of Engineering has honored alumni for extraordinary personal achievements, outstanding contributions to the fields of engineering and architecture, and remarkable service to the college.

"We are so pleased to celebrate the accomplishments of 16 of our best and brightest and how well they represent this great college in all corners of the globe," said Dean David B. Williams, the Monte Ahuja Endowed Dean's Chair.

Four signature awards were presented: Thomas E. Claugus (BS '73, CHE) received the Lifetime Achievement Award for Leadership; Jim Cates (MS '71, CIS) received the Benjamin G. Lamme Meritorious Achievement Medal; George J. Kontogiannis was awarded the Meritorious Service Citation and Chakka Parker (BS '02, ECE; MS '04, EE) was presented with the Texnikoi Outstanding Alumni Award.

Twelve alumni received Distinguished Alumni Awards: Ardeshir Contractor (MS '86, ME), Richard B. Davis (PhD '89, BME), Robert B. Dybdal (BS '64, MS '64, PhD '68, EE), Carrie Maykuth Gordon (BS '74, METE, MS '79 WE), Raymond S. Kalouche (BS '83, MS '85, CE), Edward Henry Martin (BS '57, MS '64, EE), Jeffrey P. Morosky (BS '81, LARCH), Frank A. Paluch (BS '86, AAE), Bhavesh (Bob) V. Patel (BS '88, CHE), Omar A. Sawaf (BS '77, ISE), Mark Schendel (MS '87, ARCH) and Deborah Shands (MS '88, PhD '94, CIS).

**Learn more: [go.osu.edu/aa18](http://go.osu.edu/aa18)**

## Engineering better tools for disaster recovery

Flooding from a once-in-a-millennium deluge in South Carolina this fall caused more than \$1 billion in damages and resulted in 19 deaths. Fifteen months earlier and half a world away, a super typhoon swept across the Philippines, Vietnam and China, causing billions in damage, affecting millions and killing more than 150 people.

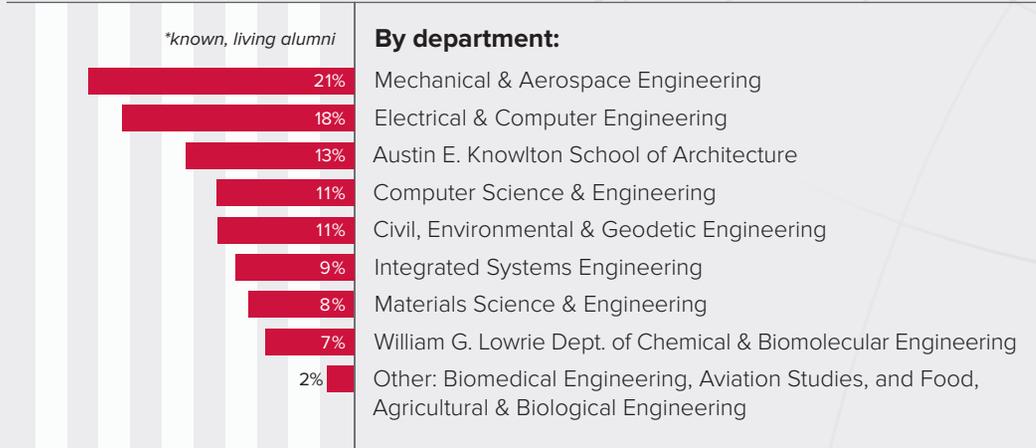
When natural disasters such as these strike, emergency responders need accurate, up-to-date information fast—from who needs help first to the status of key infrastructure systems. Having access to robust decision-support tools and real-time updates on rapidly changing situations is critical to helping people better predict and recover from disasters more quickly.

Funded by a \$1,975,000 grant from the National Science Foundation, a team of researchers led by Computer Science and Engineering Professor Srinivasan Parthasarathy is investigating new ways for emergency responders to gather and analyze data in the wake of disasters. By combining information from physical sensors and hazard models with real-time updates from people in the affected area, the researchers aim to develop new tools to make emergency response efforts more efficient and effective. Their work could also help improve flood response, urban mapping and dynamic storm surge models.

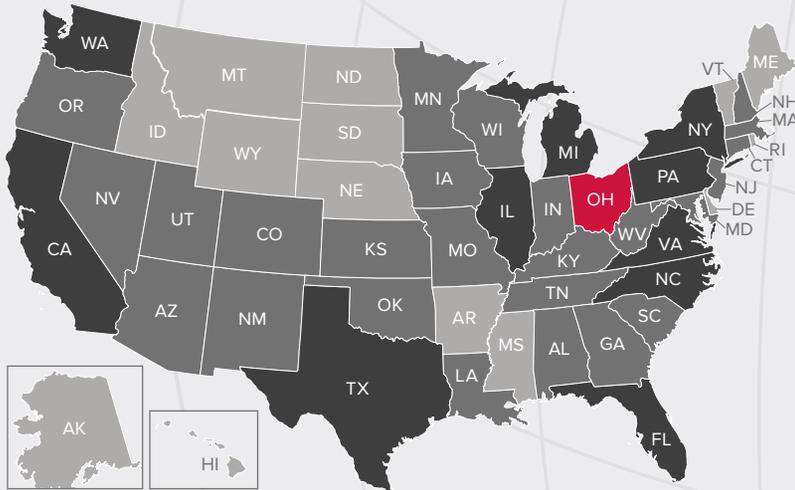
**Learn more: [go.osu.edu/recover](http://go.osu.edu/recover)**



# 59,418 Buckeye Engineering alumni\*



...living in **111** countries and all **50** states.



**Top 10 metro areas:**

1. Columbus
2. Cleveland
3. Cincinnati
4. Dayton
5. Los Angeles
6. District of Columbia
7. New York City
8. Detroit
9. San Jose
10. Akron



**briefs:**

Buckeyes help NASA detect, discard manmade interference  
[go.osu.edu/noise](http://go.osu.edu/noise)

Celebrating 100 years of Landscape Architecture  
[go.osu.edu/larch100](http://go.osu.edu/larch100)

Board approves Dept. of Engineering Education  
[go.osu.edu/eed](http://go.osu.edu/eed)

A toy for every tot  
[go.osu.edu/toys](http://go.osu.edu/toys)

**give:**

Support Buckeye engineers in a variety of ways  
[givetveto.osu.edu/engineering](http://givetveto.osu.edu/engineering)

**connect:**

- 🌐 [engineering.osu.edu](http://engineering.osu.edu)
- 🐦 [twitter.com/OSUEngineering](https://twitter.com/OSUEngineering)
- 📄 [go.osu.edu/COEIn](http://go.osu.edu/COEIn)
- 📘 [facebook.com/OSUEngineering](https://facebook.com/OSUEngineering)



Read this issue online



**THE OHIO STATE UNIVERSITY**

COLLEGE OF ENGINEERING

122 HITCHCOCK HALL  
2070 NEIL AVE.  
COLUMBUS, OH 43210-1278

NON-PROFIT ORG.  
U.S. POSTAGE

**PAID**

COLUMBUS, OHIO  
Permit No. 711



Not receiving  
**buckeye/engineering**  
in your email inbox?

Send your contact information to  
***clevenger.87@osu.edu***  
to receive an additional three  
email issues per year.