

70<sup>th</sup> Annual ACCESS

# HONORS & AWARDS BANQUET



ACM Association for Computing Machinery

ACS American Chemical Society

ADSPE Akron District Society of Professional Engineers

AIA Archaeological Institute of America

AICHE American Institute of Chemical Engineers

APC Akron Physics Club

ASCE American Society of Civil Engineers

ASHRAE American Society of Heating, Refrigeration  
and Air Conditioning Engineers

ASME American Society of Mechanical Engineers

ASSE American Society of Safety Engineers

IEEE Institute of Electrical and Electronic Engineers

MSNO Microscopy Society of Northeast Ohio

Rubber Division, American Chemical Society

SME Society of Manufacturing Engineers

SPE Society of Plastics Engineers

YP Young Professionals Affiliate



**Akron Physics Club**

Thursday, November 2, 2017

**Akron Council of  
Engineering & Scientific Societies**

*Guy's Party Center*



**70<sup>th</sup> ANNUAL  
ACCESS HONORS & AWARDS BANQUET PROGRAM**

**Guy's Party Center**

**November 2<sup>nd</sup>, 2017**

• <i>Welcome, Opening Remarks</i>	-Mr David Schultz President, ACCESS
<i>Dinner</i>	
• <i>Banquet Introductions</i> -ACCESS Advisory Council	-Mr David Schultz President, ACCESS
• <i>Banquet Introductions</i> -Speaker	-Mr David Schultz President, ACCESS
• <i>Speaker</i>	-Dr Robert A Walker
<b><i>“Educating Today’s Students for the Computing Careers of Tomorrow</i></b>	
• <i>Outstanding High School Student Science / Math Awards</i>  -Presentation of Certificates of Recognition to Outstanding Students from High Schools in Summit County and the Summit Educational Services	-Dr Min Gao President-Elect, ACCESS -Certificates presented by Mr David Schultz -Winners announced by Dr Missi Zender-Sakach / Dr Katrina Halasa
• <i>Honors &amp; Awards</i>	- Dr Min Gao President-Elect, ACCESS
- <i>Best of Show Akron Science &amp; Technology Expo</i> - <i>Middle School</i>	-Stella Hudson, Miller South School for the Visual & Performing Arts, Akron
- <i>Best of Show Akron Science &amp; Technology Expo</i> - <i>High School</i>	-Carly Justice Firestone Community Learning Center, Akron
- <i>Best of Show Western Reserve District 5 Science Day</i> - <i>Middle School</i>	-Emma Noffsinger, Roswell Kent Middle School, Akron
- <i>Best of Show Western Reserve District 5 Science Day</i> - <i>High School</i>	-Molly Haines, St Vincent/St Mary High School, Akron
-ACCESS / OMNOVA Teacher Grant Awards	-Paul McMasters, Manchester Middle School, Akron -Kimberlee Martin and Karen Pruitt, Robinson Community Learning Center, Akron
-ACCESS / ACS Teacher Grant Award The Anoop Krishen Teacher Grant	-Blake Beluscak, Ellet High School, Akron
-ACCESS / IEEE Teacher Grant Awards	-Jennifer Verde, Indian Trail Elementary School, Stow -Lynn Webb, Buchtel Community Learning Center, Akron
-ACCESS / BridgestoneTeacher Grant Awards	-Zach Griffith, National Inventors Hall of Fame STEM School, Akron -Helena Wolfe-Wilder, Forest Hill Community Learning Center, Akron -Bree McNeill, Sacred Heart School, Wadsworth -Alyssa Duncan, Woodland Elementary School, Stow



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• <i>Honors &amp; Awards (continued)</i>	- Dr Min Gao President-Elect, ACESS
-ACCESS / SPE Teacher Grant Award	-Samantha Wise, Greater Summit County Early Learning Center, SCOPE Academy, Akron -Sierra Pischel, Forest Hill Community Learning Center, Akron
-ACCESS / Harwick Standard Teacher Grant Award	-Christine Milcetic, Firestone Community Learning Center, Akron -Tracy Braho, East Community Learning Center, Akron
-ACCESS Teacher Grant Award	-Kelli Pestello, Robinson Community Learning Center, Akron -Janeen Beresh, Barber Community Learning Center, Akron -John Dombosky, Betty Jane Community Learning Center, Akron -Alissa Kruse, Highland Elementary School, Stow -Missy Kreiner, Highland Elementary School, Stow
-FirstEnergy 2017-2018 Classroom Grant Winners Presented by Ms Delores Jones, FirstEnergy	-Stacey Latham, Barberton Middle School, Barberton -Matt Hereda, Lakeview Intermediate School, Stow -Matthew Hickin, Chapel Hill Christian School, Akron -Christina Forchione, Uniontown Elementary School, Uniontown -Blake Beluscak, Ellet High School, Akron -Kimberlee Martin and Karen Pruitt, Robinson Community Learning Center, Akron -Christa Borling, Saint Francis Xavier School, Medina -Marie Wenning, Sauder Elementary School, Massillon
-ACCESS – Theken Scholarship Award	-Dana Cressman, The University of Akron
-ACCESS Scholarship Award	-Sarah Mull, Kent State University
-Anoop Krishen Memorial Scholarship Award	-Harrison Olivia Davis, Kent State University
-Greg Genega Cybersecurity Scholarship Award	-Michael Weyandt, The University of Akron
-OMNOVA / ACESS Scholarship Award Presented by Dr Carla McBain, OMNOVA Solutions	-Mackenzie Davis, The University of Akron -Margaret Pinkevitch, The University of Akron
-Gene Easter Award for Exemplary High School Chemistry Teaching Presented by Dr Charles Kausch, ACS	-Dr Mitch Lambert, Theodore Roosevelt High School, Stow
-ACCESS Award	-Sheila King IEEE, VP, Operations, NEO STEM Alliance Senior Project Engineer, Rockwell Automation
-Distinguished Award of Council Presented by Mr David Schultz, President, ACESS	-The LeBron James Family Foundation -Stephanie Myers
• <i>Closing Remarks</i>	-Mr David Schultz President, ACESS



## 2017-2018 ACESS OFFICERS

<b>President:</b>	David Schultz SPE	Harwick Standard Distribution Corporation
<b>President-Elect:</b>	Min Gao MSNO	Liquid Crystal Institute, KSU
<b>Treasurer:</b>	Brent Sisler, PE ADSPE, ASME	Retired
<b>Secretary:</b>	Dr Missi Zender-Sakach SPE	Summit Educational Service Center
<b>Executive Director:</b>	Dr Michael Dowell ACS	Retired

## ACESS COMMITTEE CHAIRS

<b><u>AUDIT &amp; FINANCE</u></b> Michael Dowell, PhD, ACS	<b><u>SOCIAL MEDIA</u></b> Cara Adams, ASME
<b><u>BANQUET</u></b> Bill Kessler, SME	<b><u>SPEAKERS BUREAU</u></b> Gregg Loesch, PE, ASCE
<b><u>EDUCATIONAL FUND RAISING</u></b> Michael Askew, PhD, ASME	<b><u>STRATEGIC PLANNING</u></b> Robert Erdman, APC
<b><u>COMMUNITY RELATIONS</u></b> Brent Sisler, PE, ADSPE, ASME	<b><u>K-12 STUDENT OUTREACH</u></b> Katrina Halasa, PhD, ACS Missi Zender-Sakach, PhD, SPE
<b><u>HONORS &amp; AWARDS; GRANTS</u></b> Marian Rousek, ACS	<b><u>WEBMASTER, COMMUNICATIONS</u></b> Sheila King, IEEE

## ACESS DELEGATES

<b><u>ACM:</u></b> Ken Batcher, PhD, Delegate	<b><u>ASHRAE:</u></b> Sam Pavlik, President Chad Montgomery, Delegate Chad Russell, Delegate
<b><u>ACS:</u></b> Charles Kausch, PhD, Chair David Perry, PhD, Delegate Marian Rousek, Delegate	<b><u>ASME:</u></b> David Houser, PE, Chair Cara Adams, Delegate James Parish, PE, Delegate
<b><u>ACS Rubber Division:</u></b> Christie Robinson, President	<b><u>ASSE:</u></b> Steven Zalar, President George Shay, Delegate Michael Eberhart, Delegate
<b><u>ADSPE:</u></b> Brent Sisler, PE, President Matthew Sejba, PE, Delegate Brian Makan, PE, Delegate	<b><u>IEEE:</u></b> Jim Dowe, Chair Robert Osterhout, PE, Delegate
<b><u>AIA:</u></b> Evi Gorogianni, PhD, President Timothy Matney, PhD, Delegate T Kam Manahan, PhD, Delegate	<b><u>MSNO:</u></b> Nanthawan Avishai, PhD, President Zhorro Nikolov, PhD, Delegate Min Gao, PhD, Delegate
<b><u>AICHe:</u></b> Barteve Sakadjian, Chair Joe Feil, Delegate	<b><u>SME:</u></b> Bill Kessler, Chair
<b><u>APC:</u></b> Robert Erdman, Chair Dan Galehouse, Delegate	<b><u>SPE:</u></b> Thomas McQuaide, President Keith Pelfrey, Delegate Daniel Jones, PhD, Delegate
<b><u>ASCE:</u></b> Kenneth Kostura, PE, President Gregg Loesch, PE, Delegate	<b><u>YP AFFILIATE:</u></b> Leah VanLiew, President Abigail Crison, Delegate Luke Anderson, Delegate



**2017-2018**  
**ACCESS ADVISORY COUNCIL**

• Mr Robert Handelman	Chief Executive Officer Chemstress Consultant Company
• Dr George Haritos	Colonel, USAF, Retired Professor, Deptment of Mechanical and Civil Engineering The University of Akron
• Mrs Kimberly Jones, PE	President/CEO KJ Impact Consulting
• Ms Sheila King	VP, Operations, NEOHSTEM Alliance Senior Project Engineer, Rockwell Automation
• Dr Carla McBain	Tehnology Director, Specialty Coatings and Ingredients OMNOVA Solutions
• Mr Joe Mattingly	Global Technology Project Management Advisor The Goodyear Tire & Rubber Company
• Dr George Newkome	James & Vanita Oelschlager Professor of Science & Technology The University of Akron
• Mr Edward Seroka	Senior Engineer Bridgestone Americas Tire Operations
• Mr Randy Theken	Founder Theken/NextStep Companies

The ACCESS Advisory Council consists of six or more business and/or technical leaders of the Greater Akron Area who are selected annually by the ACCESS President. The purpose of the Advisory Council is to act in an advisory capacity to the ACCESS Board of Directors.

Members of the Advisory Council are also available, as needed, to assist the ACCESS Board of Directors in the accomplishment of ACCESS objectives. The Board of Directors of ACCESS expresses thanks to the Advisory Council members for their time and assistance.

**2017 ACCESS HONORS & AWARDS**  
**BANQUET COMMITTEE**

• Michael Askew, PhD, ASME	Retired
• George Deisz, ACS	Retired
• Michael Dowell, PhD, ACS	Retired
• Joseph Feil, AIChE	Retired
• Maeghan Gault, YP	FirstEnergy
• Greg Genega, YP	FirstEnergy
• Katrina Halasa, PhD, ACS	Akron Public Schools
• Bill Kessler, SME	Chair, Retired
• Robert Osterhout, PE, IEEE	Lanier Consulting, LLC
• Marian Rousek, ACS	Retired
• Brent Sisler, PE, ADSPE, ASME	Retired
• Missi Zender-Sakach, PhD, ACS	Summit Educational Service Center



## OUTSTANDING HIGH SCHOOL STUDENTS

Recognition is extended to the following math and science students from high schools in Summit County and the Summit Educational Services

SCHOOL	STUDENTS
• <i>Akron Early College High School, Akron</i>	- Jasmine Slosson - Nikola Drobnjak
• <i>Buchtel Community Learning Center, Akron</i>	- Mariah Muhammad - Dierre Blash
• <i>East Community Learning Center, Akron</i>	- Stashia Jones - Thanh Huynh
• <i>Ellet High School, Akron</i>	- Emma Dudones - Brandon Rinaldi
• <i>Firestone Community Learning Center, Akron</i>	- Rebecca Beitko - Joseph Gorsuch
• <i>Kenmore-Garfield High School, Akron</i>	- Amber Long - Leah Stanevich - Vincent Laurita - Myo Tun
• <i>National Inventors Hall of Fame STEM High School, Akron</i>	- Dial Abdelqader - Tommy Alvarado
• <i>North High School, Akron</i>	- Tree Paw - Chandra Lal Gajmer
• <i>Barberton High School</i>	- Michaela Querry - Brevan Mitchell
• <i>Copley High School</i>	- Georgia Shay - Alex Conner
• <i>Coventry High School</i>	- Isabelle Virag - Brandon Hansen
• <i>Cuyahoga Falls High School</i>	- Lillian Uzl - Noah Dunaj
• <i>Field High School</i>	- Cheyanne Fincham - Dillon Kuntzman
• <i>Green High School</i>	- Maria Zivick - Cameron Macesich
• <i>Hudson High School</i>	- Kaitlin Tortorete - Matthew Lipczynski
• <i>Manchester High School</i>	- Cecelia Speck - Mitchell Krock
• <i>Mogadore High School</i>	- Madison Higgins - Joseph Hughes
• <i>Nordonia Hills High School</i>	- Megan Pietro - Kevin Costello
• <i>Norton High School</i>	- Hannah Rowell - Matthew Kaufman
• <i>Revere High School</i>	- Paige Fritz - Jason Shimek





## **OUTSTANDING HIGH SCHOOL STUDENTS**

Recognition is extended to the following math and science students from  
high schools in Summit County and the Summit Educational Services  
(continued)

SCHOOL	STUDENTS
• <i>Springfield High School</i>	- Carlea Masters - Mike Mahon
• <i>Stow-Munroe Falls High School</i>	- Marissa McMaster - Connor Jenkins
• <i>Tallmadge High School</i>	- Cailey Bozic - Jerome Walsh
• <i>Twinsburg High School</i>	- Nithya Kasibhatia - Nathan Moeliono
• <i>Woodridge High School</i>	- Molly Howard - Devin Vanyo
• <i>Archbishop Hoban High School</i>	- Corinne Evans - Victor Vogt
• <i>Cuyahoga Valley Christian Academy</i>	- Alex Samsonas - Bayley McRitchie
• <i>Our Lady of the Elms High School</i>	- Megan Hamilton - Erin Wagner
• <i>St Vincent-St Mary High School</i>	- Caroline Pier - Michael Rodgers
• <i>Walsh Jesuit High School</i>	- Schuyler Dick - Nathaniel Stocker



## **SCIENCE FAIR WINNERS**

### **Best of Show Akron Science & Technology Expo**

**Middle School** – Stella Hudson won the ACESS Award for the outstanding project at the Akron Science & Technology Expo held at North High School on January 28, 2017. The title of her project was “Which One Has More Bacteria: Your Mouth or Your Skin”. She is currently in the 8<sup>th</sup> grade at Miller South School for the Visual & Performing Arts in Akron. Her science advisor was Miss Shannon Kotradi.

**High School** – Carly Justice won the ACESS Award for the outstanding project at the Akron Science & Technology Expo held at North High School on January 28, 2017. The title of her project was “Traffic Safety: Best Retroreflective Colors for Elderly Drivers at Night”. She is currently in the 11<sup>th</sup> grade at Firestone Community Learning Center in Akron. Her science advisor was Mr Scott Westphal.

### **Best of Show 69<sup>th</sup> Western Reserve District 5 Science Day**

**Middle School** – Emma Noffsinger won the ACESS Award for the outstanding project at the 69<sup>th</sup> Western Reserve District 5 Science Day held at the University of Akron on March 18, 2017. The title of her project was “The Affects of pH and Rainfall upon Biodegradable Trash Bags and Brown Paper Trash Bags: A Global Study”. Emma is currently in the 9<sup>th</sup> grade at Roswell Kent Middle School, Akron. Her science advisor was Mr Steven Frantz.

**High School** – Molly Haines won the ACESS Award for the outstanding project at the 69<sup>th</sup> Western Reserve District 5 Science Day held at the University of Akron on March 18, 2017. The title of her project was “Poly(ester urea)s for Soft Tissue Repair”. Molly is currently in 12<sup>th</sup> grade at St Vincent/St Mary High School, Akron. Her science advisor was Mrs Joanna Price.



## **ACCESS TEACHER GRANT AWARD WINNERS**

ACCESS recognizes the need for students to carry out experiments and projects to further math or science education at their school. One-time grants of \$500 are being awarded to ten teachers based on their grant applications.

<b><u>Using Quadcopter Technology to Delineate Wetlands</u></b>		
Sponsored by ACCESS / OMNOVA		
Paul McMasters		Manchester Middle School, Akron
<b><u>Grow a Salad</u></b>		
Sponsored by ACCESS / OMNOVA		
Kimberlee Martin and Karen Pruitt		Robinson Community Learning Center, Akron
<b><u>Corrosion on the World</u></b>		
Sponsored by ACCESS / ACS - The Anoop Krishen Teacher Grant		
Blake Beluscak		Ellet High School, Akron
<b><u>I Get a Charge Out of You!</u></b>		
Sponsored by ACCESS / IEEE		
Jennifer Verde		Indian Trail Elementary School, Stow
<b><u>Shocking Investigations</u></b>		
Sponsored by ACCESS / IEEE		
Lynn Webb		Buchtel Community Learning Center, Akron
<b><u>What a Waterful Life: A Hydraulics PBL with Akron Water Supply Bureau</u></b>		
Sponsored by ACCESS / Bridgestone		
Zach Griffith		National Inventors Hall of Fame STEM School, Akron
<b><u>STEM for Students</u></b>		
Sponsored by ACCESS / Bridgestone		
Helena Wolfe-Wilder		Forest Hill Community Learning Center, Akron
<b><u>STEM K'NEX</u></b>		
Sponsored by ACCESS / Bridgestone		
Bree McNeill		Sacred Heart School, Wadsworth
<b><u>Weather, Weather, Everywhere</u></b>		
Sponsored by ACCESS / Bridgestone		
Alyssa Duncan		Woodland Elementary School, Stow
<b><u>Bringing Creative Engineering from the Imagination to Life with 3d</u></b>		
Sponsored by ACCESS / SPE		
Samantha Wise		Greater Summit County Early Learning Center, SCOPE Academy, Akron
<b><u>Science STEM Bins</u></b>		
Sponsored by ACCESS / SPE		
Sierra Pischel		Forest Hill Community Learning Center, Akron
<b><u>Probing in Science</u></b>		
Sponsored by ACCESS / Harwick Standard		
Christine Milcetch		Firestone Community Learning Center, Akron
<b><u>Creating Shape Memory Polymers</u></b>		
Sponsored by ACCESS / Harwick Standard		
Tracy Braho		East Community Learning Center, Akron
<b><u>STEM Morning Tubs</u></b>		
Sponsored by ACCESS		
Kelli Pestello		Robinson Community Learning Center, Akron
<b><u>Real World Challenge – We Got This</u></b>		
Sponsored by ACCESS		
Janeen Beresh		Barber Community Learning Center, Akron
<b><u>Weather, Weather Everywhere</u></b>		
Sponsored by ACCESS		
John Dombosky		Betty Jane Community Learning Center, Akron
<b><u>So You Think You Can Force Me to Move!</u></b>		
Sponsored by ACCESS		
Alissa Kruse		Highland Elementary School, Stow
<b><u>Future Electricians in the Making</u></b>		
Sponsored by ACCESS		
Missy Kreiner		Highland Elementary School, Stow



## FirstEnergy 2017-2018 CLASSROOM AWARD WINNERS



FirstEnergy proudly supports classroom projects and teacher professional-development initiatives focusing on science, technology, engineering and mathematics (STEM) by offering STEM education grants of up to \$1,000 to educators at schools and youth groups in communities served by FirstEnergy electric cooperating companies and facilities. Thousands of educators and youth leaders in OH, PA, NJ, MD and WV have received STEM classroom grants since the program began in 1986.

<b><u>Engineering Efficient Wind Turbine</u></b>	
Stacey Latham	Barberton Middle School, Barberton
<b><u>Amped Up and Ready to Build</u></b>	
Matt Hereda	Lakeview Intermediate School, Stow
<b><u>Dimmer Switch Using a Circuit Board</u></b>	
Matthew Hickin	Chapel Hill Christian School, Akron
<b><u>Tech Kids of the Future Through Osmo Learning!</u></b>	
Christina Forchione	Uniontown Elementary School, Uniontown
<b><u>Percent and Strength of Copper</u></b>	
Blake Beluscak	Ellet High School, Akron
<b><u>Grow a Salad – Food for Life!</u></b>	
Kimberlee Martin and Karen Pruitt	Robinson Community Learning Center, Akron
<b><u>Media Tech Circuits</u></b>	
Christa Borling	Saint Francis Xavier School, Medina
<b><u>Kindergarten Sensory Exploration</u></b>	
Marie Wenning	Sauder Elementary School, Massillon

### Pursuing studies in a STEM field next year?

The Akron Area Engineers Week Group awards scholarships for qualified students (STEM Students who will be college undergraduates next year and also Undergraduate Students)



**Interested?**  
Get details and apply at:  
[akroneweek.org](http://akroneweek.org)



Please submit your applications by January 10<sup>th</sup>, 2018



**ACCESS – THEKEN SCHOLARSHIP AWARD**  
**ACCESS SCHOLARSHIP AWARD**

Two \$1,500 scholarships are awarded each year to a deserving student at The University of Akron and Kent State University. To be eligible, the student must be a junior and working toward a four-year degree in a technical area that is related to at least one of the areas represented by ACCESS member societies.

<b>Dana Cressman</b> <b>ACCESS - Theken Scholarship</b>	<b>Chemical Engineering</b> <b>The University of Akron</b>
<b>Sarah Mull</b> <b>ACCESS Scholarship</b>	<b>Zoology</b> <b>Kent State University</b>



**ANOOP KRISHEN MEMORIAL SCHOLARSHIP AWARD**

A \$1,500 scholarship is awarded to a deserving Chemistry student at Kent State University. This scholarship is funded by Dr Anne Andrews in memory of Dr Anoop Krishen, the first ACCESS Executive Director.

<b>Harrison Olivia Davis</b>	<b>Chemistry</b> <b>Kent State University</b>
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**GREG GENEGA CYBERSECURITY**  
**SCHOLARSHIP AWARD**

A \$ 650 scholarships is awarded to a deserving Computer Science student at The University of Akron.

<b>Michael Weyandt</b>	<b>Computer Science - Systems</b> <b>The University of Akron</b>
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**OMNOVA / ACCESS SCHOLARSHIP AWARD WINNERS**

Two \$1,500 scholarships are awarded to a student at The University of Akron by Dr Carla McBain, Technology Director, Specialty Coatings and Ingredients, OMNOVA Solutions.



<b>Mackenzie Davis</b>	<b>Chemical Engineering</b> <b>The University of Akron</b>
<b>Margaret Pinkevitch</b>	<b>Chemistry</b> <b>The University of Akron</b>



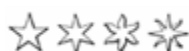
**ACS 2017 GENE EASTER AWARD for  
EXEMPLARY HIGH SCHOOL CHEMISTRY TEACHING**

**Dr Mitch Lambert, Theodore Roosevelt High School, Kent**



The Gene Easter Award was established in 1995 by the Akron Section of the American Chemical Society to recognize an outstanding chemistry teacher at the high school level who combines innovative and relevant methods of presenting chemistry subjects in order to illustrate the importance of chemistry in our everyday lives. The award was named after Gene Easter who taught chemistry at Streetsboro High School.

Dr Mitch Lambert has been teaching Chemistry for 30 years and loving every moment of it! As a Resident Educator Program Coordinator for Kent City Schools and a Coordinator of Staff Development for Roosevelt High School, he contributes outside the classroom with his many skills. For 17 years he has been a Mentor Teacher and has also been a part time instructor at his alma mater, Kent State University. Awarded the Martha Holden Jennings Scholar Award for Excellence in Teaching in 2003 and the Roosevelt Teacher of the Year Award four times, Dr Lambert continues to provide numerous professional presentations to his colleagues, including: Hands-On Learning, Lifetime Love of Science, Teacher Leadership and Teacher Professionalism. Through these experiences, Dr Lambert proves to be a leading educator in our community!



**STEM SHOWCASE  
(Science, Technology, Engineering, Math)**



Colleges, Universities and Organizations represented at the  
ACCESS Honors & Awards Banquet

**American Chemical Society (ACS)**

**Hiram College**

**Kent State University – Digital Sciences**

**Microscopy Society of Northeast Ohio (MSNO)**

**The BRAIN Students and their Posters**

**Youngstown State University**



## **BANQUET SPEAKER**

### **DR ROBERT A WALKER**

Professor, Computer Science Department  
*Kent State University of Akron*

#### **“Educating Today’s Students For the Computing Careers of Tomorrow”**

Dr Robert A Walker received his PhD in Electrical and Computer Engineering from Carnegie Mellon University. He has served as a faculty member in the Computer Science Department at Kent State University for the past 21 years, including five years as Chair. Dr Walker has been very active in the Association for Computing Machinery (ACM) and is an ACM Distinguished Scientist and Lifetime Member. In 2010, Dr Walker led a team of faculty members that was charged with forming a new interdisciplinary computing program at Kent State and he became the founding Director of their new School of Digital Sciences in 2011, a position he held for five years.

For many high school students, a career in computer science may mean spending four years in college learning to program and then sitting in a cubicle developing video games, smartphone apps, or programs for a business. While this traditional software development career is certainly very common and has good job prospects, many other career paths in computing have evolved in recent years that may appeal to a different set of students. For example, interdisciplinary programs such as Kent State University’s School of Digital Sciences blend technical topics with design thinking and project management. New areas related to computing are emerging, such as user experience design, data science, and enterprise architecture. All of these options give today’s college students the opportunity to explore a wealth of new directions in computing that build on their strengths and interests and that may be quite different from the traditional programming career. These topics and more will be explored during the course of this presentation.

## **THE ACESSE AWARD**

The ACESSE Award is presented annually to an individual who has made an outstanding contribution to the Akron Council of Engineering & Scientific Societies (ACESSE). The 2017 recipient of this award is Sheila King.

Sheila received BSEE from University of Texas in 1988 and has been in product embedded software development for almost 30 years. She developed code for many interesting products including the universal remote control at Tandy, paging infrastructure at Motorola, and the Mini-Solo radar detector at Cincinnati Microwave. For the last 17 years, she developed embedded software for industrial controls and condition monitoring at Rockwell Automation.



Sheila also has a passion for bringing STEM experiences and opportunities to students. She founded the Hudson STEM Alliance by starting a STEM parent group called the Rocket Boosters. It grew into the Hudson STEM Alliance, and then NEOHSTEM Alliance to extend the capabilities and programs to the greater northeast Ohio area. As Director of STEM and Technology for the NEOHSTEM Alliance, Sheila organizes and operates the STEM Project Fair, develops and teaches coding classes locally, and works to build parent STEM groups in schools. She is an Advisor on the ACESSE Executive Board, the ACESSE Webmaster, the Co-Director of the Western Reserve District Science Day, has coached/mentored many robot teams, and judged and directed robot tournaments. Sheila is working with local schools to get more programming curriculum in the schools starting in the 4th grade. She is developing curriculum that can be used in the classroom or for extracurricular activities. Her goal is to provide programming experiences for students to get interested in and to continue to grow skills in programming.

## **THE DISTINGUISHED AWARD OF COUNCIL**



The Distinguished Award of Council is presented annually to an outstanding citizen or organization for their technical and managerial achievements and involvement in civic activities. The 2017 recipient of this award is the LeBron James Family Foundation (LJFF).

The LeBron James Family Foundation's mission is to positively affect the lives of children and young adults through education and co-curricular initiatives. The Foundation believes that an education and living an active, healthy lifestyle are pivotal to the development of children and young adults.

Rooted in the LeBron James Family Foundation's mission is the Foundation's "I PROMISE" program. It has been evolving since LeBron James committed his time and resources to improving graduation rates in his hometown of Akron in 2011. Through this initiative, LJFF serves more than 1,200 Akron-area students by providing them with the programs, resources and mentors they need to stay in school and on track to a better future. Through LJFF's signature "We Are Family" approach, this wraparound support extends to the students' entire families as well, with parent involvement emphasized in every event and with LJFF also offering GED and career preparatory classes for active I PROMISE student's parents.

In 2015, James partnered with The University of Akron to guarantee four-year college scholarships to all of its eligible I PROMISE students who graduate from high school and complete the criteria in the classroom and in the community. In 2018, years of LJFF's on-the-ground work and research-based interventions will culminate in the opening of a brand-new Akron Public School (APS) – the I Promise School (IPS). Created in partnership with APS, the IPS will implement APS curriculum with a STEM, problem-based, experiential learning focus infused with LJFF's "We Are Family" philosophy to create an innovative and supportive learning environment that educates the whole child and the whole family.

All year long, LeBron and his team provide additional resources and create opportunities that keep his students on the path to achieving their dreams. Through after-school support in LeBron's Hard Work Club, one-on-one mentorship from The University of Akron's innovative mentorship class, monthly experience outings that expose students to unique career opportunities, Hometown Hall meetings that engage the students and their families, the upcoming I Promise Institute at The University of Akron that will be an around-the-clock resource for the students once they get to college, and regular communication and encouragement from LeBron throughout the year, the Foundation works hard to eliminate as many barriers as possible for LeBron's I Promise students.

LJFF is known regionally, nationally and globally for their commitment to students! ACCESS applauds the LJFF on their vision and leadership in the education of our youth today!

## **AKRON COUNCIL OF ENGINEERING AND SCIENTIFIC SOCIETIES (ACCESS)**

The purpose of the Akron Council of Engineering and Scientific Societies (ACCESS) is to enhance the technical environment in the Greater Akron area through coordination and cooperation with technical societies, industry and academia by:

- Providing a forum for action on matters of concern and interest to the technical and scientific communities.
- Serving as a focal point for contact between the technical community and the business community, academia and society at large.
- Promoting inter-society communication, professional interchange of ideas and coordination of society activities.
- Promoting interest in and encouraging careers in technical professions.

ACCESS is a non-profit 501(c)(3) organization, incorporated under the laws of the State of Ohio, operating exclusively for scientific and educational purposes.

Societies eligible for council membership are professional technical organizations with acceptable ethical standards, which have, as their objectives, the advancement of the theory and practice of the science concerned. Societies include:

- Akron Canton Section of the American Society of Civil Engineers (ASCE)
- Akron District Society of Professional Engineers (ADSPE)
- Akron Physics Club (APC)
- Akron Section of the American Chemical Society (ACS)
- Akron Section of the American Institute of Chemical Engineers (AIChE)
- Akron Section of the American Society of Mechanical Engineers (ASME)
- Akron/Canton Section of the Institute of Electrical and Electronic Engineers (IEEE)
- American Society of Heating, Refrigerating, & Air Conditioning Engineers (ASHRAE)
- American Society of Safety Engineers (ASSE)
- Archaeological Institute of America (AIA)
- Association for Computing Machinery (ACM)
- Microscopy Society of Northeast Ohio (MSNO)
- Rubber Division, American Chemical Society
- Society of Manufacturing Engineers (SME)
- Society of Plastics Engineers (SPE)
- Young Professionals Affiliate (YP)





OMNOVA Solutions Foundation's (OSF) highest priority is education. OSF wants to help motivate our future leaders and workers to gain the desire, knowledge and work-readiness skills required for corporations like theirs. The Foundation offers two \$1,500 Scholarships and two \$500 Teacher Grants.



Theken Companies, LLC is pleased to support ACESS in their efforts to promote careers in science and engineering by offering one \$1,500 ACESS – Theken Scholarship.



## **Bridgestone Americas**

— T R U S T F U N D —



The Bridgestone Americas Trust Fund is pleased to support ACESS in their efforts to promote careers in science and engineering. The Trust Fund offers four \$ 500 Teacher Grants.



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