2019 ANNUAL REPORT
As President of the Electrical and Computer Engineering Department Heads Association (ECEDHA), I am proud to see our Association leading the path for the advancement of ECE. Over the last several years, ECEDHA has significantly expanded its resources to enable targeted initiatives in areas of community, branding, diversity, inclusion, communications and curriculum that have been designed to make significant impacts on the future of ECE.

Although led by department heads and chairs, the scope of our organization has continued to expand to include academic leaders, faculty members, lab professionals, communicators, students, and leaders from industry. Together we are working to embrace and support the ECE community as a whole. Through these efforts, ECEDHA has emerged as a major driving force committed to advocating for the future of ECE.

The most recent success of our diversity workshops, iREDEFINE and IEC (Inclusive Engineering Consortium), held in collaboration with IEEE-HKN and NSF, have reinforced our organization’s commitment to success in diversifying our field. Our efforts in branding have brought together ECE communicators from over 20 institutions, a group that continues to grow and strengthen its network each year.

A core strength this past year was the addition of the lab professionals program at the ECEDHA Annual Conference, organized by Sid Deliwal from the University of Pennsylvania. We welcomed lab professionals from over 30 institutions with a series of dedicated educational sessions specializing in robotics and makerspaces, complimented with a Makers Demo, Robotics Demo, and ECELab Demo Suites highlighting the latest innovations and technologies from industry. We will continue to expand lab professionals programming in 2020 by introducing a full day NSF funded Makers Workshop, organized by Shawn Jordan with Arizona State University.

We look forward to serving academia and industry in the 2019-2020 academic year with your support and participation.

Warmest Personal Regards,

Zhihua Qu
President, ECEDHA

Over the last several years, ECEDHA has undergone a significant investment in branding. As a direct result of this initiative, we are pleased to present a new, modern ECEDHA logo, unveiled during the 2019 ECEDHA Annual Conference and ECEExpo. The new ECEDHA logo will serve the organization well as we strive for innovation and excellence in the future of ECE.
ECEDHA has made great strides in embracing the entire ECE academic community. This past year, we have seen our enhanced membership benefits provide resources not only to the department chairs, but to ECE departments as a whole. The tremendous support received from our ECEDHA members in the implementation of the new membership dues structure has allowed us the necessary funds to drive several important initiatives critical to the future of ECE.

• Increased programming and services for ECE department heads, faculty members, lab professionals, communicators, students, and industry partners.

• A stronger focus on diversity in ECE with dedicated workshops. The iREDEFINE Workshop focused on motivating and preparing graduate women and underrepresented minority students to pursue faculty positions in US universities while the IEC Workshop brought together HBCU program representatives to discuss growing and sustaining a successful collaboration by developing and implementing experimental-centric pedagogy.

• A dedicated graduate student program, held in partnership with IEEE-HKN, designed to prepare the HKN graduate student members to pursue a career as a working engineer in the industry.

• A dedicated rebranding effort designed to raise visibility of the ECE field to prospective students and the general public. With the support of Tailfin Marketing, this initiative has brought together ECE communications and public relations specialists from member institutions to create creative concepts, a marketing toolkit, and implementation plan that can be used by all ECEDHA member institutions.
### ECEDHA Timeline & History

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1963</td>
<td>Non-Profit organization established as the Association of Electrical Engineering Department Heads (AEEDH)</td>
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<tr>
<td>1985</td>
<td>Inaugural Annual Conference</td>
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<tr>
<td>1986</td>
<td>Transitioned to NEEDHA (National Electrical Engineering Department Heads Association)</td>
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<tr>
<td>1992</td>
<td>Award Program Introduced</td>
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<tr>
<td>2001</td>
<td>Name changed to ECEDHA, reflecting the inclusion of Computer Engineering</td>
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<tr>
<td>2003</td>
<td>Partnership with NSF begins with ECEDHA's first funded workshop</td>
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<tr>
<td>2010</td>
<td>Introduction of the ECExpO at Annual Conference marks the beginning of industry participation</td>
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<tr>
<td>2012</td>
<td>ECEDHA Community expanded to include all ECE faculty and staff</td>
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<tr>
<td>2013</td>
<td>ECEDHA Interactive Survey Unveiled</td>
</tr>
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</table>

The Electrical and Computer Engineering Department Heads Association (ECEDHA) is an industry leading academic association comprised of nearly 250 ABET-accredited ECE university department chairs from across the United States and Canada.

“ Forums like the UMI Workshop are helpful to get folks communicating and collaborating effectively. I look forward to working with you, your team and the HBCU/UMI team on future endeavors as well.”

–MICHEL REECE, ASSOCIATE PROFESSOR, MORGAN STATE UNIVERSITY
Throughout its rich history, ECEDHA continues to evolve and adapt based on the needs of academia and industry. To this day, ECEDHA is the only affiliation of its kind serving as the leading association for electrical and computer engineering institutions.

The purpose of ECEDHA, as expressed in the ECEDHA constitution, are threefold:

- Help advance the fields of electrical and computer engineering
- Facilitate member interaction and idea exchange
- Improve communication with the profession, industry, government, and others

For more information, please visit [www.ecedha.org](http://www.ecedha.org)

“I have attended the past three ECEDHA meetings because of their sessions addressing the current image of electrical and computer engineering, which is important to me as a communicator for ECE. Being part of ECEDHA is helping me to collaborate with other communicators and professionals in the field to help strengthen the brand. Attracting the best students to ECE is important to society. I am grateful for the opportunity to assist in this important goal.”

—CATHARINE JUNE, ECE COMMUNICATIONS & MARKETING MANAGER, UNIVERSITY OF MICHIGAN
ECEDHA is governed by a Board of Directors consisting of four elected officers: President, Vice-President, Secretary, and Treasurer; the Past President; and Members-at-Large.
The ECEDHA Foundation has been established to guide, support, and fund significant educational programming activities to advance electrical and computer engineering. In addition, the creation of an ECEDHA Endowment Fund will ensure the long-term viability of the Association and its academic services, as well as provide a stable source of program funding beyond the current activities of the Association.

Through its programs and activities, ECEDHA strengthens the intellectual infrastructure underpinning the engineering achievements and societal benefits realized through a healthy and vibrant community of educators in electrical and computer engineering.

The ECEDHA Foundation offers the means for those who share ECEDHA’s vision to support the Association and ensure its financial stability. The goals for the ECEDHA Foundation include:

• **Increase and strengthen diversity** among ECE faculty and student populations.

• **Create the seeds for technology innovation** in industry by enabling ECE faculty and their students to work at the cutting edge of their disciplines;

• **Enhance the engagement** between the ECE academic community and industry, recognizing industry needs and channeling industry support;

• **Foster innovation** in ECE curriculum development at member institutions to prepare the next generation for a global profession;

• **Increase ECE visibility and improving its image**—“enhancing the brand”—among prospective students, their parents, and the population in general;

• **Strengthen the ECE student pipeline**, increasing enrollments with well-qualified and motivated students.

TO SUPPORT THE ECEDHA FOUNDATION, OR LEARN MORE ABOUT THIS IMPORTANT INITIATIVE, VISIT [WWW.ECEDHA.ORG/FOUNDATION](http://WWW.ECEDHA.ORG/FOUNDATION)
ECEDHA Partnerships

ECEDHA conducts many programs and develops relationships with various organizations to advance the disciplines of electrical and computer engineering.

ECEDHA is continually focused on developing relationships with similarly focused organizations. These partnerships allow for greater collaboration among various communities within the ECE field, and help to affect positive change.

NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 “to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense...” NSF is vital because we support basic research and people to create knowledge that transforms the future.

ECEDHA is honored to work with the National Science Foundation on presenting topical workshops of interest to the ECEDHA membership. Past workshop topics include the following:

> Energy and Power  > Nanotechnology  > Curriculum Development  > Globalization  > Branding

In addition, NSF has called upon ECEDHA for educational program development and assistance in producing special workshops of its own, including:

> 2019 Inclusive Engineering Consortium (IEC) Workshop at ECEDHA
> 2019 Inclusive Engineering Consortium (IEC) Summer Workshop
> 2018 UMI Workshop
> 2017-2019 Diversity: iREDEFINE Student Workshop
> 2016 Strategic Shaping of ECE: Vision, Branding, and Advocacy Workshop
> 2013 National Science Foundation Sustainable Energy Pathways Meeting
> 2013 NSF Workshop on Future Directions in Wireless Networking
> 2012 Cyber-Physical Systems Principal Investigators’ Meeting

PARTNERSHIPS AND ALLIANCES

ECEDHA has formed valuable alliances to advance the academic engineering community and support other important organizations.
ECEDHA Host Universities

ECEDHA is honored to have had the following institutions serve as Host Universities over recent years. The Host Universities participate on the conference Program Committee and assist in the overall direction of the Annual Conference.
Over the past year, ECEDHA has led national discussions to foster a collective voice in the areas of Branding, Communicators, Community, Diversity, Makerspaces, Lab Professionals, Robotics, Leadership/New Chair Training, and Curriculum to serve as a resource for ECE departments and industry decision makers nationwide.

Dedicated Working Groups in these subject matters deliberate on future challenges led and supported by ECE departments. This effort will have an enormous impact not only across ECE departments, but will have significant economic impact for steering the intellectual capital of ECE departments towards 21st century grand challenges for the nation.

These working groups are staged to create the following:

- **Visioning workshops** on specific national priorities that assemble scientific leaders to develop white papers and roadmaps
- **Leadership and training programs** for ECE researchers and educators, designed to facilitate a diverse workforce
- An [online repository](#), website, event listing, and online community
- **Collaboration with relevant organizations** (e.g. NSF and CCC) in order to develop interdisciplinary and interagency roadmaps
- A **broader public understanding** of ECE research and its impact

Research and education in ECE has had a profound impact on the economy, creating entirely new industry sectors, thousands of global companies, and hundreds of millions of jobs.

ECEDHA’s Corporate Partners will play a key role in shaping the research conversation, workshops, white papers, and outreach to government partners.
ECEDHA Working Groups

BRANDING WORKING GROUP:
CHAIR: Ashlee Gardner
Georgia Institute of Technology

COMMUNICATORS WORKING GROUP:
CO-CHAIR: Trudi Brown
North Carolina State University
CO-CHAIR: Jessica MacInnis
University of Toronto

COMMUNITY WORKING GROUP:
CO-CHAIR: George Pappas
University of Pennsylvania
CO-CHAIR: Daniel Stancil
North Carolina State University

CURRICULUM WORKING GROUP:
CO-CHAIR: Jonathan Bredow
University of Texas at Arlington
CO-CHAIR: Tony Maciejewski
Colorado State University
CO-CHAIR: Truong Nguyen
University of California, San Diego

DIVERSITY WORKING GROUP:
CHAIR: Agnieszka Miguel
Seattle University
CO-CHAIR: Ramsin Khoshabeh
University of California, San Diego
CO-CHAIR: Magnus Egerstedt
Georgia Institute of Technology

MAKERSPACES WORKING GROUP:
CO-CHAIR: Badri Roysam
University of Houston
CO-CHAIR: Mark Liu
University of California, San Diego
CO-CHAIR: Sean Wilson
Georgia Institute of Technology

NEW CHAIRS WORKING GROUP:
CO-CHAIR: Jerry Hudgins
University of Nebraska, Lincoln
CO-CHAIR: Don Gruenbacher
Kansas State University
CO-CHAIR: Jonathan Bredow
University of Texas at Arlington
CO-CHAIR: Tony Maciejewski
Colorado State University
CO-CHAIR: Truong Nguyen
University of California, San Diego
CO-CHAIR: Daniel Stancil
North Carolina State University

ROBOTICS WORKING GROUP:
CO-CHAIR: Don Gruenbacher
Kansas State University
CO-CHAIR: Sean Wilson
Georgia Institute of Technology

LAB PROFESSIONALS GROUP:
CHAIR: Sid Deliwala
University of Pennsylvania
ECEDHA Corporate Membership provides an opportunity for ECEDHA university member institutions to strengthen their collective bond with industry.

ECEDHA WOULD LIKE TO THANK ITS 2019 CORPORATE MEMBERS:
The ECEDHA Corporate Advisory Council is comprised of executives from ECEDHA Corporate Member organizations. The Corporate Advisory Council meets with and provides strategic guidance to the ECEDHA Board of Directors.

2019 ECEDHA CORPORATE ADVISORY COUNCIL

Teresa Kostenbauer  
Sr. Manager, University Recruitment and Relations  
Arrow Electronics

Kishore Karnane  
Product Marketing Director  
Cadence Design Systems

Jim Keady  
Vice President of Sales  
Continental Resources (ConRes)

Patrick Kane  
Director of the University Alliance Program  
Cypress Semiconductor

YC Wang  
Director, Global Academic Program  
Digi-Key Electronics Corporation

Parimal Patel  
XUP Senior Systems Engineering  
Xilinx

Toffee Coleman  
Education Sales & Marketing Manager  
Fluke Corporation

Jose Alvarez  
Senior Director, CTO  
Office Programmable Solutions Group  
Intel Corporation

Roger Stancliff  
CTO, Education Solutions  
Keysight Technologies

Sumit Tandon  
Senior Customer Success Manager  
MathWorks

Hayne Shumate  
Senior Vice President, Internet Business  
Mouser Electronics

2019 ECEDHA CORPORATE ADVISORY COUNCIL CHAIR:  
Andy Bell  
Director, Global Academic Product Management  
National Instruments

Paul Karam  
Director of Engineering  
Quanser

Cornelia Stegmann  
University Program Director  
Renesas Electronics

Jonathan White  
Director, Corporate Applications Engineer  
Synopsys

Wilson Lee  
Senior Manager, Marketing  
Tektronix

Doug Phillips  
Director, University Marketing  
Texas Instruments
ECEDHA’s mission is to help advance the field of electrical and computer engineering, facilitate member interaction and idea exchange among its members, and improve communication with the profession, industry, government, and others.

Recently, the evident mutual interests of industry and academia have made it imperative that ECEDHA member institutions strengthen its collective bond with industry. The areas of mutual interest include the need for:

> ECE curriculum to reflect the changing needs of industry for the next generation of engineering professionals entering the workplace;
> Industry to present, and department heads to understand, the tools which can improve instruction effectiveness in labs and classrooms; and
> Industry professionals and ECEDHA members to dialogue and to work together to identify new modalities of instruction

To formalize the aforementioned areas of interest and potential opportunities for collaboration, ECEDHA has developed a Corporate Membership Program. ECEDHA’s Corporate Membership Program provides an unparalleled opportunity for business leaders to have access to, and collaborate with, an important academic constituency while influencing the future of electrical and computer engineering.

A key element of the program is the formation of an ECEDHA Corporate Advisory Council, whose members have the opportunity to influence ECEDHA’s programs and present recommendations to its Board of Directors. In particular, Council members will have the opportunity to provide guidance on the latest technologies and other trends impacting ECE.
CORPORATE MEMBERS BENEFIT FROM PARTICIPATION IN A NUMBER OF WAYS

Each Corporate Member:

> Positions their corporation as a leader within ECE education through interaction with leading ECEDHA member universities.

> Receives prominent recognition as a major supporter of ECE education to the ECEDHA community through online, print, and program recognition.

> Receives a seat for one of its executives on the ECEDHA Corporate Advisory Council, which meets with and provides important input to the ECEDHA Board of Directors.

> Gains direct access to individual ECEDHA member universities and departmental leadership. ECEDHA headquarters will help liaise with individual universities to facilitate ECEDHA Corporate Member interactions.

> Influences the future of ECE education and curriculum through participation in ECEDHA topical workshops held throughout the year and focuses on key issues, opportunities or challenges facing academia including:
  
  • Suggesting future topics, providing expertise, and attending these programs
  
  • Receiving the opportunity to make a presentation
  
  • Accessing the in-depth examination and post-workshop conclusions made available through detailed reports

> Gains insights into trends in ECE programs and curricula that affect industry with data input and access to ECEDHA university research study reports.

> And more!

"AS A TECHNOLOGY BASED COMPANY, IT IS GREAT TO BE CLOSE TO ACADEMIA AND ORGANIZATIONS LIKE ECEDHA SO WE ARE AWARE OF THE LATEST TECHNOLOGY TRENDS, AS WELL AS GAIN A CLEAR VISION FOR WHERE RESEARCH IS GOING, SO WE CAN HARNES THAT POWER INTO THE PRODUCTS WE CREATE."

— Scott Rust, Sr. Vice President of Research & Development, National Instruments
THE ECEDHA ANNUAL CONFERENCE

The ECEDHA Annual Conference and ECE Expo is the only meeting of its kind bringing together the largest concentration of ECE department heads throughout the United States and Canada.

Deans and faculty from member universities, local high schools, community colleges, and representatives from like-minded associations also enjoy dedicated programming at the Annual Conference.

WHO ATTENDS FROM ACADEMICS?

> Department Chairs
> Associate Chairs
> Lab Professionals
> Communications/PR Professionals
> Deans of Engineering
> Engineering Faculty
> PhD & Post Doctoral Students
> Makers & Robotics Program Directors

WHAT MAKES ECEDHA UNIQUE?

> The only gathering of its kind devoted exclusively to addressing the needs of electrical and computer engineering educators
> A unique opportunity to network and discuss the latest trends and advances in professional development, global branding, educational innovation, and shared experiences
> Specialized workshops and sessions focused on key issues facing ECE educators including Diversity, New Chair Orientation and Best Practices, ABET Accreditation and Renewal, Leadership and Training Programs, and more
ECEDHA’s ECExpo

ECEDHA’s ECExpo provides high-level interaction with companies who support ECE disciplines, sell products and services into academia, and employ ECE graduates.

The ECExpo provides the perfect setting to network and conduct business with industry professionals from today’s leading corporations driving innovation. Members will discover the latest advances in ECE technology from the industry’s leading corporations showcasing their products and services.

WHO ATTENDS FROM INDUSTRY?

> EDA Companies
> Test & Measurement
> Software Companies
> Semiconductors
> Distributors
> Manufacturers
> Publishers
> Electronics Retailers
> Robotics Companies
> Maker Space Companies

BRINGING TOGETHER ACADEMIA AND INDUSTRY

ECEDHA offers opportunities for industry to partner with engineering schools as their ECE department heads and faculty strive to gain insight on the latest trends and issues in educational tools, curriculum, and industry requirements for future engineering professionals.
ECEDHA Program Committee

The ECEDHA Annual Conference and ECExpo has a dedicated Program Committee devoted to creating a world-class program for members. The committee assembles regularly to determine session topics, recommend speakers, and organize panels.

The Committee is led by ECEDHA’s Vice President and supported through the Host University program, which provides strong guidance for the ECE regional community.

COMMITTEE CHAIR: Ashfaq Khokhar
Iowa State University
Past Annual Conference Speakers

The Annual Conference features prominent leaders from academia, government, and industry.

Chaouki Abdallah  
Provost, University of New Mexico

Anant Agarwal  
President, edX

Jay Alexander  
CTO, Keysight Technologies

Ahmad Bahai  
Vice President and Chief Technologist, Analog Texas Instruments

Kurt D. Bettenhausen  
Senior Vice President, Siemens Corporate Research

Mike Birck  
Chief Executive Officer, Tellabs

Joseph Bordogna  
Deputy Director, National Science Foundation

Paul Camuti  
President and Chief Executive Officer, Siemens Corporate Research Inc.

Ralph Cavin  
Vice President of Research Operations, Semiconductor Research Corporation

Ken Caviasca  
General Manager, Platform Enabling and Development, Intel

William Chappell  
Microsystems Technology Office, Defense Advanced Research Projects Administration (DARPA)

Weili Dai  
Co-Founder, Vice President and General Manager, Communications & Consumer Business, Marvell Technology Group

Gordon Day  
President, IEEE

John Fluke  
Founder, John Fluke Manufacturing Company

Norman Fortenberry  
Director, Center for the Advancement of Scholarship on Engineering Education  
National Academy of Engineering

Kent Fuchs  
Provost, Cornell University

Kaigham Gabriel  
Deputy Director, Defense Advanced Research Projects Administration (DARPA)

Gary Gabriele  
Division of Engineering Education and Centers, National Science Foundation

Bernd Girod  
Senior Associate Dean for Online Learning and Professional Development, Stanford University

Bret Grenstein  
Vice President, Rational Continuous Engineering Solutions, IBM

Brian Halla  
Former Chief Executive Officer, National Semiconductor

Dr. Irwin Jacobs  
Founder and Former CEO, Qualcomm

Farnam Jahanian  
Assistant Director for CISE, National Science Foundation

Leah Jamieson  
Dean of Engineering, Purdue University  
President and CEO, IEEE

Moshe Kam  
Robert Quinn Professor and Department Head, Drexel University  
President and CEO, IEEE
Past Annual Conference Speakers

Ted Kaufman
Former U.S. Senator, Delaware

Salman Khan
Founder and Executive Director, Khan Academy

Pramod Khargonekar
Assistant Director, Directorate for Engineering, National Science Foundation

Pradeep Khosla
Chancellor, University of California, San Diego

Shihab Kuran
President and Chief Executive Officer, Petra Solar

Greg Lanckreit
Academic Ambassador and Co-Founder, Benefunder Associate Professor, Electrical and Computer Engineering, University of California, San Diego

Tom Lee, Ph.D.
Chief Education Officer, Quanser

Marc Levoy
Professor Electrical Engineering and Computer Science, Stanford University

Robert Lucky
Vice President of Research, Bellcore

Julia Liuson
CVP, Visual Studio, Microsoft

Doug Melton
Deputy Division Director, Engineering Education & Centers (EEC), National Science Foundation

Robert Metcalfe
Professor of Innovation, University of Texas at Austin

C. L. Max Nikias
President, University of Southern California

Andrew Ng
Co-Founder, Coursera

Rosibel Ochoa
Executive Director, Jacobs School of Engineering, University of California, San Diego

Patrick O’Shea
Vice President for Research, University of Maryland

Mark Pierpoint
Vice President and General Manager, Software and Modular Solutions Division, Agilent Technologies

James Plummer
Dean of Engineering, Stanford University

Sarah Rajala
Dean of Engineering, Iowa State University

S.K. Ramesh
President, IEEE-HKN, Dean, College of Engineering and Computer Science, Professor, Electrical and Computer Engineering, California State University, Northridge

Justin Rattner
Senior Fellow, Vice President and Chief Technology Officer, Intel

Alberto Sangiovanni-Vincentelli
Professor, Electrical Engineering and Computer Science, University of California at Berkeley

Teresa Shea
NSA Senior Fellow, IOT

Krishna Shenoy
Professor of Electrical Engineering, Bioengineering and Neurobiology, Stanford University

Darlene Solomon
Senior Vice President and Chief Technology Officer, Agilent Technologies

James Truchard
President and Chief Executive Officer, National Instruments

William Wulf
President, National Academy of Engineering
The Awards Committee is responsible for administering the ECEDHA awards. The committee is tasked with soliciting nominees, reviewing applications, and selecting award winners. Committee members are drawn from all geographic regions and represent a cross-section of ECEDHA department classifications.
ECEDHA Awards Program

ECEDHA is pleased to present four annual awards to honor individuals or corporations with a sustained record of leadership, innovation, and service to the ECE community. All awards from the previous year are presented in March at the ECEDHA Annual Conference.

2018 ROBERT M. JANOWIAK OUTSTANDING LEADERSHIP AND SERVICE AWARD:

John Peeples, The Citadel, The Military College of South Carolina
Given to an individual with a sustained record of leadership and service to ECEDHA (primary) and to electrical and computer engineering (secondary).

2018 ECEDHA INNOVATIVE PROGRAM AWARD:

John Booske, University of Wisconsin - Madison
Given to individual(s) or department(s) that has (have) created, implemented, and sustained the implementation of a successful innovative program and possibly assisted in the implementation of that program at other institutions.

2018 ECEDHA INDUSTRY AWARD:

Jay Alexander, Keysight Technologies
Given to company(s) or individual(s) in companies in recognition of seminal contributions to engineering education—especially in the ECE disciplines—that go well beyond typical industry-university relations.

2018 ECEDHA DIVERSITY AWARD:

Pamela Cosman, University of California, San Diego
Given to department(s) or individual(s) in recognition of proactive efforts to increase cultural, ethnic, and gender diversity within the ECE student body and among ECE faculty, that go well beyond and above the normal institutional recruiting practices.
ECEDHA Editorial Committee plans and executes each monthly issue of the *ECE Source* to address the most timely and pressing issues facing ECE today.
ECEDHA’s ECE Media programs provide year-round channels for ECEDHA members and their faculty to stay informed on the hottest topics facing ECE, gain access to complimentary educational sessions, and interact with companies that support ECE disciplines and employ their graduates.

**ECE Webinar**

A PROFESSIONAL RESOURCE FOR ECE EDUCATORS

ECE Webinars offer a new educational training tool for electrical and computer engineering educators featuring convenient online education covering relevant topics facing ECE faculty.

**ECE Source**

THE LEADING RESOURCE FOR THE ECE COMMUNITY

The *ECE Source* newsletter highlights current topics in engineering education, the latest ECE news, association and partner news, and technology features from leading corporations.

**ECE Spotlights**

NEW INNOVATIVE PRODUCTS AND SERVICES

Captured live at the ECEDHA Annual Conference and ECExpo, ECE Spotlights provide an opportunity to learn more from leading companies whose products and services are key to enhancing the experience of students and graduates.

**ECE Insights**

IN-DEPTH INTERVIEWS WITH INDUSTRY EXECUTIVES

ECEDHA Insights feature interviews with executives who are driving the future of ECE in industry.
ECEDHA is invested in growing its ECE community and focusing its efforts on helping to advance the field; facilitating member interaction and idea exchange; and improving communication with the profession, industry, government, and others.

The recent establishment of the ECEDHA Foundation will provide a platform for ECEDHA to further these efforts by providing the funding and support necessary to develop educational programming activities to advance electrical and computer engineering.

**ECEDHA’S REACH**

ECEDHA’s reach includes nearly 9,000 current ECE faculty members from across the United States and Canada. The ECEDHA database is the only one of its kind reaching a targeted concentration of key decision makers, including:

> 500+ ECE Staff Contacts including research staff, online education and distance learning directors, and lab managers
> 300+ Deans from accredited engineering schools
> 360+ ECE Department Heads from accredited institutions throughout the U.S. and Canada
> 7,000+ ECE Faculty Members
> 1,200+ Industry Professionals with careers in ECE

**ECEDHA ANNUAL SURVEY**

The ECEDHA Annual Survey has been part of the ECEDHA program for more than a decade, collecting important comparative benchmark data on enrollments, salaries, graduate stipends, space allocations, graduation statistics, research expenditures, and much more.

ECEDHA’s interactive data system allows ECEDHA members to perform custom queries of the survey data while benchmarking against institutions of their choosing.

The ECEDHA Survey remains a unique benefit to its active membership, and provides a convenient resource for chairs and their departments as a whole.
ECEDHA Regional Membership

ECEDHA’s regional groups are very important to the overall strength of the organization and to each of its member universities. The regions convene independently throughout the year to focus on state and local funding, technology stimulus and development, regional economic initiatives, and other issues pertinent to their region. Members are encouraged to participate at both a national and regional level.

2019 ECEDHA REGIONAL LEADERS

**CANADA: CHECE/DGEGI**
Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Nova Scotia, Ontario, Quebec, and Saskatchewan
REGIONAL LEADER:
Claude D’Amours, University of Ottawa

**CENTRAL STATES REGION: CSECEDHA**
Arkansas, Iowa, Kansas, Missouri, Nebraska, Oklahoma, North Dakota, and South Dakota
REGIONAL LEADER:
J.R. Cruz, University of Oklahoma

**GREAT LAKES REGION: GLECEDHA**
Indiana, Illinois, Michigan, Minnesota, Ohio, and Wisconsin
REGIONAL LEADER:
Randall Victora, University of Minnesota

**NORTHEAST REGION: NECEDHA**
New York, Vermont, New Hampshire, Maine, Massachusetts, Rhode Island, and Connecticut
REGIONAL LEADERS:
Srinivas Tadigadapa, Northeastern University
Vice President: Martin Margala, University of Massachusetts Lowell
Secretary: Neerja Magotro, Western New England University

**MID-ATLANTIC REGION: MAECEDHA**
DC, Delaware, Maryland, New Jersey, Pennsylvania, and West Virginia
REGIONAL LEADER:
Robi Polikar, Rowan University

**SOUTHEAST REGION: SECEDHA**
Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, and Virginia
REGIONAL LEADER:
Luke Lester, Virginia Polytechnic Institute

**SOUTHWEST REGION: SWECEDHA**
Arizona, New Mexico, and Texas
REGIONAL LEADER:
Jonathan Bredow, University of Texas at Arlington

**WESTERN REGION: WECEDHA**
REGIONAL LEADERS:
Chair: Radha Poovendran, University of Washington
Vice Chair: Marco Rolandi, University of California, Santa Cruz

ECEDHA Regional Membership

2019 ECEDHA REGIONAL LEADERS

**CANADA: CHECE/DGEGI**
Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Nova Scotia, Ontario, Quebec, and Saskatchewan
REGIONAL LEADER:
Claude D’Amours, University of Ottawa

**CENTRAL STATES REGION: CSECEDHA**
Arkansas, Iowa, Kansas, Missouri, Nebraska, Oklahoma, North Dakota, and South Dakota
REGIONAL LEADER:
J.R. Cruz, University of Oklahoma

**GREAT LAKES REGION: GLECEDHA**
Indiana, Illinois, Michigan, Minnesota, Ohio, and Wisconsin
REGIONAL LEADER:
Randall Victora, University of Minnesota

**NORTHEAST REGION: NECEDHA**
New York, Vermont, New Hampshire, Maine, Massachusetts, Rhode Island, and Connecticut
REGIONAL LEADERS:
Srinivas Tadigadapa, Northeastern University
Vice President: Martin Margala, University of Massachusetts Lowell
Secretary: Neerja Magotro, Western New England University

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REGIONAL LEADER:
Robi Polikar, Rowan University

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REGIONAL LEADER:
Luke Lester, Virginia Polytechnic Institute

**SOUTHWEST REGION: SWECEDHA**
Arizona, New Mexico, and Texas
REGIONAL LEADER:
Jonathan Bredow, University of Texas at Arlington

**WESTERN REGION: WECEDHA**
REGIONAL LEADERS:
Chair: Radha Poovendran, University of Washington
Vice Chair: Marco Rolandi, University of California, Santa Cruz
ECEDHA is the only organization devoted exclusively to addressing the needs of electrical and computer engineering educators.

- Nearly 250 ECE departments are active ECEDHA members or affiliates; 28 ECEDHA affiliates are located in Canada.
- The ECEDHA Annual Conference and ECExpo is the only meeting of its kind bringing together department heads from across the United States and Canada.
- The ECEDHA Annual Survey provides a comprehensive view of space, salaries, budgets, student data, and much more across member departments.
- ECEDHA provides a variety of means for ECE department heads to interact electronically and in person through meetings, workshops, newsletters, and online tools.

ECEDHA HISTORY

The organization traces its roots to the founding of the Association of Electrical Engineering Department Heads in 1963. In 1986, the organization became independent from related organizations and changed its name to the National Electrical Engineering Department Heads Association (NEEDHA).

In 2001, the current name was adopted to recognize the importance of computer engineering and encourage participation from departments outside the United States.
ECEDHA University Membership Benefits

The Electrical and Computer Engineering Department Heads Association (ECEDHA) is the leading association for electrical and computer engineering educators, composed of nearly 300 ABET accredited ECE university department heads or chairs from across the United States and Canada.

ECEDHA’s mission is to catalyze the fields of electrical and computer engineering through member interaction and exchange. ECEDHA actively promotes industry relations and linkages through its Annual Conference and ECExpo, industry spotlights, and government sponsored grants and workshops.

MEMBERSHIP

> ECEDHA membership is open to official leaders (whether called head, chair, or some other title) of university departments offering ABET-accredited electrical and/or computer engineering (or similarly named) programs. Associate membership in ECEDHA is open to the leaders of similar departments whose programs are not currently accredited. Of nearly 250 departments offering such programs, over 90% are currently represented in ECEDHA.

> Associate membership in ECEDHA is open to the leaders of similar departments that are either located outside the U.S., or whose programs are not currently accredited.

> Affiliate membership in ECEDHA is granted by the ECEDHA Board of Directors to industrial and governmental organizations with a strong interest in electrical and computer engineering education.

> ECEDHA is the premier academic association of its kind encompassing all major electrical engineering, computer engineering, and related programs at universities across North America.

“ECEDHA IS BOTH A VOICE FOR OUR DEPARTMENTS AS WELL AS A MEANS TO CONNECT, ORGANIZE, COLLABORATE, SHARE IDEAS, AND IMPROVE OURSELVES. BEYOND ITS BENEFIT IN THE DAY TO DAY RUNNING OF OUR DEPARTMENT, THE RECENT MORE STRATEGIC DISCUSSIONS HAVE BEEN ENERGIZING.”

—W. Clem Karl, ECE Department Chair and Professor, Boston University
ECEDHA University Membership

ECEDHA UNIVERSITY MEMBERS:

Alabama A&M University
American University in Cairo
Arizona State University
Auburn University
Baylor University
Boise State University
Boston University
Bradley University
Brigham Young University
California Institute of Technology
California Polytechnic State University
California State Polytechnic University, Pomona
California State University, Fresno
California State University, Northridge
California State University, Sacramento
Carnegie Mellon University
Case Western Reserve
Central Michigan University
Christian Brothers University
City College of the City University of New York
Clemson University
Cleveland State University
Colorado State University
Columbia University
Concordia University
Cornell University
Drexel University
Duke University
Ecole de Technologie Superieure
Ecole Polytechnique de Montreal
Emory-Riddle Aeronautical University - AZ
Emory-Riddle Aeronautical University - FL
Florida A&M University/Florida State University [FAMU-FSU]
Florida Atlantic University
Florida Institute of Technology
Florida International University
Florida Polytechnic University
Gannon University
George Mason University
George Washington University
Georgia Institute of Technology
Gonzaga University
Hampton University
Houghton College
Idaho State University
Illinois Institute of Technology
Indiana University-Purdue University, Indianapolis
Iowa State University
Johns Hopkins University
Kansas State University
Kettering University
Lafayette College
Lamar University
Lawrence Technological University
Lehigh University
Liberty University
Louisiana State University
Loyola Marymount University
Marquette University
Massachusetts Institute of Technology
McGill University
McMaster University
McNeese State University
Memorial University of Newfoundland
Michigan State University
Michigan Technological University
Milwaukee School of Engineering
Mississippi State University
Missouri University of Science & Technology
Montana State University
New Jersey Institute of Technology
New Mexico Tech
New York University
Norfolk State University
North Carolina A&T State University
North Carolina State University
Northeastern University
Northern Arizona University
Northern Illinois University
Northern Kentucky University
Ohio Northern University
Ohio University
Oklahoma State University
Old Dominion University
Penn State University - State College
Portland State University
Princeton University
Purdue University
Purdue University, Northwest
Queen's University, Kingston
Rensselaer Polytechnic Institute
Rice University
Rice-Hulman Institute of Technology
Rowan University
Royal Military College of Canada
Rutgers University
Ryerson University
Sacred Heart University
Saginaw Valley State University
Saint Louis University
San Jose State University
Santa Clara University
Seattle University
South Dakota State University
Southern Illinois University, Carbondale
Southern Methodist University
St. Cloud State
State University of New York, Stony Brook
State University of New York, University at Buffalo
Stevens Institute of Technology
Syracuse University
Temple University
Tennessee State University
Texas A&M University, College Station
Texas Tech University
The Citadel, The Military College of South Carolina
The College of New Jersey
The Ohio State University
Trinity College
Tufts University
Tuskegee University
ECEDHA University Membership

- U.S. Air Force Academy
- U.S. Coast Guard Academy
- U.S. Military Academy, West Point
- U.S. Naval Academy
- Union College
- Université Laval
- University of Alabama
- University of Alabama, Huntsville
- University of Alaska, Fairbanks
- University of Alberta
- University of Arizona
- University of Arkansas
- University of British Columbia
- University of Calgary
- University of California, Berkeley
- University of California, Davis
- University of California, Los Angeles
- University of California, Riverside
- University of California, San Diego
- University of Central Florida
- University of Colorado, Boulder
- University of Colorado, Colorado Springs
- University of Connecticut
- University of Dayton
- University of Delaware
- University of Denver
- University of Detroit Mercy
- University of District of Columbia
- University of Florida
- University of Georgia
- University of Hartford
- University of Hawaii at Manoa
- University of Houston
- University of Illinois, Chicago
- University of Illinois, Urbana-Champaign
- University of Iowa
- University of Kansas
- University of Kentucky
- University of Louisiana at Lafayette
- University of Louisville
- University of Manitoba
- University of Maryland, Baltimore County
- University of Maryland, College Park
- University of Massachusetts, Amherst
- University of Massachusetts, Dartmouth
- University of Massachusetts, Lowell
- University of Memphis
- University of Miami
- University of Michigan
- University of Minnesota
- University of Minnesota, Duluth
- University of Mississippi
- University of Missouri, Columbia
- University of Nebraska, Lincoln
- University of Nevada, Las Vegas
- University of Nevada, Reno
- University of New Haven
- University of New Mexico
- University of North Carolina, Charlotte
- University of North Dakota
- University of North Texas
- University of Notre Dame
- University of Oklahoma
- University of Ottawa
- University of Pennsylvania
- University of Pittsburgh
- University of Rhode Island
- University of Rochester
- University of San Diego
- University of Saskatchewan
- University of Scranton
- University of South Alabama
- University of South Carolina
- University of South Florida
- University of Tennessee, Chattanooga
- University of Tennessee, Knoxville
- University of Texas, Arlington
- University of Texas, Austin
- University of Texas, Dallas
- University of Texas, El Paso
- University of Texas, San Antonio
- University of the Pacific
- University of Toledo
- University of Toronto
- University of Utah
- University of Vermont
- University of Victoria
- University of Virginia
- University of Washington
- University of Washington - Tacoma
- University of Waterloo
- University of West Florida
- University of Wisconsin, Madison
- University of Wisconsin, Platteville
- University of Wyoming
- Utah State University
- Valencia College
- Valparaiso University
- Villanova University
- Virginia Commonwealth University
- Virginia Military Institute
- Virginia Polytechnic Institute & State University
- Washington State University - Pullman
- Washington University in St. Louis
- Wayne State University
- Wentworth Institute of Technology
- West Virginia University
- Western New England College
- Western Washington University
- Wichita State University
- Widener University
- Wilkes University
- Worcester Polytechnic Institute
- Yale University
- York College of Pennsylvania
- Youngstown State University