2022 SAE Awards Ceremony

HONORING THOSE WHO...

Aspire... Achieve... Astound...

April 5, 2022 | 5:30PM
Garden Theater | Detroit, Michigan

WITH PRESENTING SPONSOR J.D. POWER
I extend a sincere welcome to all awardees, honored guests, donors and industry partners as we celebrate the amazing achievements of our SAE International award recipients.

These exceptional innovators, leaders, industry trendsetters, educators, and students have excelled at solving problems and finding innovative ways to improve the mobility industry and the world.

To our awardees, your accomplishments are inspiring. Your work to benefit humanity is at the heart of our organization’s mission and we are proud to recognize you for your hard work and dedication.

And to our donors, your support for these prestigious awards is noble. Thank you for your vision and for your incredible generosity.

Congratulations to all our awardees and thank you to everyone who joined us tonight to celebrate.

Sincerely,

David L. Schutt, Ph.D.
Chief Executive Officer, SAE International
2022 SAE Awards Ceremony

Aspire... Achieve... Astound...

WELCOME AND OPENING REMARKS

Sri Srinath, Ph.D.
President
SAE International

Raman Venkatesh, Ph.D.
Chief Operating Officer
SAE International

EMCEE

Cassie Sobelton
Wellness Expert, Author and
Founder of Wellness Collection
ENGINEERING’S FUTURE LOOKS BRIGHTER THAN EVER

CONGRATULATIONS 2021/22 SAE SCHOLARSHIP RECIPIENTS

For more information on the SAE Scholarship Program, please visit www.sae.org/participate/scholarships
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Unlike any other award that honors technical achievements or outstanding accomplishments in the various fields of mobility engineering, this highly prestigious honor pays tribute to an SAE member’s unique and significant contributions, which over time, have strengthened SAE’s ability to further its mission and have proven to be a major factor in the organization’s success.
Dr. Alan Nye has been a steadfast supporter and dedicated member of SAE International for over 40 years, with an evident passion for growing and strengthening the educational mission of the organization. The SAE Collegiate Design Series™ (CDS) has been at the heart of his fervor.

As a Professor and Associate Department Head of the Mechanical Engineering Department at Rochester Institute of Technology (RIT), a love of design was the spark that launched over four decades of immersion in the CDS programming. Dr. Nye launched an internationally recognized automotive engineering program at RIT, where he initiated an SAE student chapter, while simultaneously advising on numerous SAE collegiate programs. The pioneering model he developed, which actively engaged students with SAE on multiple levels, became a road map for other universities to follow, thus, supporting SAE’s mission of providing students with real-world, hands-on learning experiences. Countless SAE-engaged students entered the engineering workforce and continued their engagement with SAE as professional members.

Dr. Nye’s tireless dedication to the organization’s education-related mission is also evidenced by his years of service to the Ralph R. Teetor Educational Award Committee, where he has played an instrumental role in engaging committee volunteers. Additionally, he has shared his knowledge and partnered with staff, member constituents and other stakeholders through his role on the SAE Education Board, ABET Relations Committee and two terms on the SAE Board of Directors.

Dr. Nye has received numerous SAE awards for his service, commitment and dedication to SAE International. His actions have always been motivated by his passion for SAE’s Vision and Mission, and this will benefit the organization in an abundance of ways for years to come.
Dr. Pranab Saha's exemplary commitment and unwavering dedication to SAE International has spanned more than three decades across a broad spectrum of functions within the Society which have measurably strengthened our mission and success.

Since 1987, Dr. Saha has served on and led numerous committees, developed groundbreaking SAE standards including those which have established SAE as the sole authority in acoustics standards, helped foster cohesiveness with SAEIndia, and mentored numerous young professionals in our industry. We are grateful for his entrepreneurial spirit, passion, and unrelenting and tireless dedication to SAE International.

Dr. Saha has been presented with numerous awards by organizations such as the Michigan Society of Professional Engineers and the Engineering Society of Detroit. Because of Dr. Saha's steadfast support of SAE and the lasting influence of his leadership and contributions, SAE is a stronger organization today and will continue as such in the future.
Some people predict the future, others create it.
Celebrating the successes of women in the engineering profession and recognizing their leadership and technical contributions in their field was the inspiration or this award. Dr. Rodica Baranescu, an SAE Fellow, 2000 SAE President, and a member of the National Academy of Engineering, established this award in 2011 to broaden awareness of the reach and impact of women making a difference in mobility engineering.

Chantal Parenteau, Ph.D.
Manager, Biomechanics
Exponent

Elena Chapman, Ph.D.
Senior Fuels/Biofuels Engineer
General Motors

Denise M. Rizzo, Ph.D.
Science and Technology Fellow for Office of the Chief Scientist
US Army CCDC Ground Vehicle System Center
Women in industry can often face a number of challenges, especially when trying to balance both the professional and personal aspects of their life. Those who perform at exceptional levels, while demonstrating leadership, technical competency, mentorship, service to their community and dedication to their family are those who represent the true spirit of this award.

**Ann Mallory, Ph.D.**  
Research Scientist  
Transportation Research Center, Inc.

**Dawn Tilbury, Ph.D.**  
Professor  
University of Michigan

**Michelle Chaka**  
Director for Safety  
Assurance and Standards  
Locomotion

**Diane Peters, Ph.D.**  
Assistant Professor  
Kettering University

**Angela Violi, Ph.D.**  
Professor  
University of Michigan
This medal of leadership honors those in the mobility industry who lend their skill and talent to bring forth innovation and broaden the impact of “quality” in mobility engineering, design and manufacturing. A generous donation from Dr. Subir Chowdhury, a highly respected world leader in quality and management, has made this award possible.

Mohd Sapuan Salit, PhD.
Head, Advanced Engineering Materials and Composites Research Centre
Universiti Putra Malaysia

Michael Pecht, Ph.D.
Emeritus Professor
University of Michigan

Leaders don’t create followers, they create more leaders
This citation was created to provide public recognition to an individual well known internationally for continuous professional involvement and participation in SAE’s meetings, conferences, congresses and/or unique assistance and support in helping SAE achieve its goals and objectives, either in the broadest sense or related to one specific conference abroad.

Nadir Yilmaz, Ph.D.
Chair and Professor
Department of Mechanical Engineering
Howard University

Be the kind of leader that you would follow.
This award was initiated through generous contribution from Max E. Rumbaugh, Jr., past SAE Executive Vice President, as a means of recognizing remarkable student leaders who are also engaged in one or more SAE activities. It is the intent of this award to encourage a vision within the recipient to become an SAE leader during their adult career.

**Dylan Konop**  
*Senior Mechanical Engineering Student*  
Bradley University

**Olivia (Wanless) Gettel**  
*Manufacturing Controls Engineer*  
Nexteer Automotive

**Cora Taylor**  
*Ph.D. Student*  
Dynamic Systems Laboratory  
Michigan Technological University
Creativity is thinking of new things. Innovation is doing new things.
A generous gift from Arnold and Stephanie Siegel, helped establish this award in honor of Arnold W. Siegel, an SAE Fellow and Medal of Honor recipient, and his pioneering crash injury research and incomparable contributions to the world of transportation safety. Recipients of this award are leaders in their field and have brought about an unparalleled positive impact on transportation safety within their organization or to the benefit of society worldwide.

Richard DeWeese
Retired
Safety Researcher
FAA Civil Aerospace Medical Institute

John H. Bolte IV, Ph.D.
Professor
The Ohio State University
Director of the Injury Biomechanics Research Center
The award honors individuals, teams, organizations or entities, both domestic and internationally, whose mobility industry contributions - research or practical application - have created positive, lasting social benefit for humanity. These contributions must have made a significant, positive, multi-generational impact on the world such as, but not limited to mobility safety, the environment, or technologies which have had an extended impact beyond the initial invention. Arnold W. Siegel's unrivaled accomplishments in transportation safety and research, created a number of life-saving solutions, bringing injury prevention to the forefront and forever altering the way automobiles are engineered for the betterment of humanity.

Subir Chowdhury, Ph.D.
Chairman and CEO
ASI Consulting Group, LLC

Life’s most persistent and urgent question is, what are you doing to help others?
This award shines a light on the ingenuity and dedication of individuals and teams making significant strides in reducing the environmental impact caused by the transportation industry. The focus of such innovation may exist with motorized vehicles for land, sea, air, and space in the areas of fuels, alternative propulsion methods, fuel usage, materials, energy usage, manufacturing methods, logistics support, as well as in education, training and improving public awareness.

**Amanda Nummy**  
Senior Polymer Engineer  
Hyundai-Kia

**Vincenzo Alfieri**  
Advanced Controls  
Engineering Group Manager  
Punch Hydrocells

**Alberto Bemporad, Ph.D.**  
Scientific advisor  
ODYS

**Daniele Bernardini, Ph.D.**  
CTO  
ODYS

**Giulio Binetti, Ph.D.**  
Advanced Control Technology Specialist  
Punch Hydrocells
Changes call for innovation, and innovation leads to progress

Giuseppe Mazzara Bologna
Agile Project Manager
Punch Softronix

Daniela Meola, Ph.D.
Control System Engineer
Punch Softronix

Yue-Yun Wang, Ph.D.
Technical Fellow
General Motors

Maria Camuglia
Control System Engineer
Punch Softronix

Nicola Totaro
Control System Engineer
General Motors
Environmental Excellence in Transportation Award (continued)

Yoshihiro Ikogi
Project General Manager
Toyota Motor Corporation

Hiroyuki Imanishi, Ph.D.
Project General Manager
Toyota Motor Corporation

Tsuyoshi Takahashi
Project General Manager
Toyota Motor Corporation
We rise by lifting others.
Environmental Excellence in Transportation Award (continued)

Mike Grady
Student
University of California, Riverside

Heejung Jung, Ph.D.
Professor
University of California, Riverside

Art Miller, Ph.D.
Senior Scientist
CDC/NIOSH

Liem Pham, Ph.D.
Graduate Research Assistant
University of California, Riverside

Kent Johnson, Ph.D.
Associate Research Engineer
University of California, Riverside

Chengguo Li, Ph.D.
Assistant Project Scientist
University of California, Riverside

Nick Molden
Founder & CEO
Emissions Analytics
Environmental Excellence

James Brown
Video Producer/Director
James Brown Media

Jessie Lund
Senior Associate
Rocky Mountain Institute

Yunsu Park
Director of Engineering
North American Council for Freight Efficiency

Michael Roeth
Executive Director
North American Council for Freight Efficiency

Denise Rondini
Communications Director
North American Council for Freight Efficiency

David Schaller
Industry Engagement Director
North American Council for Freight Efficiency

Bianca Wachtel
Marketing Manager
Rocky Mountain Institute
Environmental Excellence in Transportation Award (continued)

Dr. Stephen Andersen  
Director of Research  
IGSD

Maneesh Arora  
Deputy General Manager, Body and Trims  
TATA Motors Ltd

Sourav Chowdhury, Ph.D.  
Senior Product Engineer  
MAHLE Behr USA Inc

Tim Craig  
Principal  
Melrose Technologies LLC

Sangeet Hari Kapoor  
General Manager, Climate Control  
TATA Motors Ltd

Lindsey Leitzel  
Senior Project Engineer  
MAHLE Behr Troy Inc.  
Thermal Pre-Development (TDDN)
Obstacles are what you see when you take your eyes off the goal

Jagvendra Meena
Senior Manager, Climate Control
TATA Motors Ltd

Nancy J. Sherman, Ph.D.
Director of Technical Assessment
IGSD

Prasanna Nagarhalli
Deputy General Manager, Climate Control
TATA Motors Ltd
SAE IHI Achievement in
Boosting Award

SAE and IHI Corporation seek to honor the best innovation and/or implementation of new ideas in boosting systems that have positively impacted the automotive industry. New ideas are not limited solely to the area of performance, but also in the areas of fuel economy, emissions, cost, quality and reliability.

Karunakar Yedam
Advanced Sr. Engineer
Stellantis

Changes call for innovation, and innovation leads to progress.
This award honors Dr. John H. Johnson, a Presidential Professor with the Department of Mechanical-Engineering Mechanics at Michigan Technological University, for his lifelong devotion to students, the diesel industry, public service and SAE. The award recognizes an individual whose leadership, contributions, and research have influenced advancements in the field of diesel engines. Criteria considered for this award include technical innovations and contributions to SAE literature, activities and programs.

**Athanasios Konstandopoulos, Ph.D.**  
Professor  
Aristotle University of Thessaloniki

**Donald Stanton, Ph.D.**  
*Engine Business Technology Strategy Director*  
Cummins Inc.

**Stefan Pischinger, Ph.D.**  
*President and CEO*  
FEV Group GmbH
In memory of Dr. John Melvin, this award recognizes those whose research and/or practical application represents unique, original concepts that when applied to motorsports, cause significant positive change, and elevate safety to new levels. Dr. Melvin was a pioneer in the field of driver safety, particularly in the area of driver restraint systems. He persuaded drivers to adopt the HANS (head and neck restraint) device and was a key developer of “black box” data recording for racecars that helped sanctioning bodies learn from accidents.

Arnie Kuhns
CEO
SFI Foundation, Inc.

Jochen Braunwarth & Team
Director Motorsport Solutions
Geobrugg AG

Grow into the leaders you once admired
Professionals who have made significant scientific and engineering contributions to the field of computational fluid dynamics and its applications within the aerospace or ground vehicle industries are chosen for the honor. The award was established with a generous gift from the Agarwal family and honors Dr. Ramesh Agarwal, the William Palm Professor of Engineering at Washington University in St. Louis, a world-renowned leader in CFD.

**Philip Roe, Ph.D.**  
Emeritus Professor  
University of Michigan

**Sergei Godunov, Ph.D.**  
Councilor of the Russian Academy of Sciences  
Sobolev Institute of Mathematics  
Siberian Branch of Russian Academy of Sciences

**Joe Thompson, Ph.D.**  
William L. Giles Distinguished Professor Emeritus  
Mississippi State University
NEW AWARD COMING IN 2023

We are excited to announce the addition of the *SAE Sustainable Aviation Award in Honor of Ramesh Agarwal.*

The award honors professionals working in industry, academia or government who have made significant science and engineering contributions to advancing sustainable green aviation.

Thank you to Dr. Ramesh Agarwal for his generous support of this important and innovative award.
A talented engineer from the automotive industry whose new concepts, innovations, or applications have significantly contributed to technological progress in the area of automotive transmission and driveline, is honored with this award. An endowment from the Timken Company to honor Howard Simpson, a talented and innovative engineer who invented a revolutionary planetary gear set which constituted the basis for the Ford C4 and C5 transmission.

Michael Berhan  
Technical Expert, Powertrain Gears and Bearings  
Ford Motor Company

Steven Frait  
Supervisor, Trans Electrification and New Sub-System Technology  
Ford Motor Company

Gregory Goleski  
Manager, Transmission/Driveline Hardware Systems  
Ford Motor Company

Bradley Riedle  
Technical Leader  
Ford Motor Company

Maurice Leising  
Retired, Senior Manager/Specialist Transmission Controls  
FCA Group
Influence and inspire the next generation
Henry Ford II Distinguished Award for Excellence in Automotive Engineering

Funded through Ford Motor Company in honor of the memory of Henry Ford II and the enormous impact he had on the automotive industry. Recipients of this award represent SAE members and teams, who utilize their engineering skill-set to achieve product or manufacturing process contributions which are assessed to have had the greatest positive effect on the passenger car, truck, and bus industries.

Steven A. Stringfellow  
*Technical Lead Optical Design Engineer*  
Garmin International

Matthew Alessi  
*Test Engineer*  
Ford Motor Company

Brice Hartleib  
*STA Engineer Ford Performance*  
Ford Motor Company

Matthew Cassoli  
*Research Engineer, R&A*  
Ford Motor Company

Ellen C. Lee, Ph.D.  
*Additive Manufacturing Technical Leader*  
Ford Motor Company

Rob Salenbien  
*Additive Manufacturing Team*  
Ford Motor Company
Join us in Detroit, Michigan to celebrate and pay tribute to the career accomplishments and philanthropic spirit of the men and women who inspire the next generation of innovators.

- Network among top automotive industry executives.
- Experience the awe and wonder of science, technology, engineering and math through the eyes of local students participating in SAE’s award-winning programs you help make possible!

Honoring Mark Reuss,
President of General Motors
Tuesday, May 3, 2022 | GM Heritage Center
VIP Reception: 5:30 – 6 p.m. | General Reception: 6 – 7 p.m.
Program and Dinner: 7 – 9 p.m.

www.saefoundation.org
EXCELLENCE IN EDUCATION

The art of teaching is the art of assisting discovery
This award was developed in 1963 through a generous contribution from Ralph R. Teetor, 1936 SAE President, whose belief was that engineering educators are the most effective link between engineering students and their future careers. Recipients of this award are recognized for their academic training, contributions to teaching and research, and support of student extracurricular activities. This program allows practicing engineers and educators to exchange views and technical information.

**John (Chris) Bachman, Ph.D.**
Assistant Professor
California State University LA

**Ben Lawler, Ph.D.**
Associate Professor
Clemson University

**Pingen Chen, Ph.D.**
Assistant Professor
Tennessee Technological University

**Kevin Disotell, Ph.D.**
Research Scientist
The Ohio State University

**Ala Qattawi, Ph.D.**
Assistant Professor
University of Toledo
Exceptional educators shaping the engineering workforce of the future...

Stephanie Stockar, Ph.D.
Assistant Professor
The Ohio State University

Jennifer Bastiaan, Ph.D.
Assistant Professor
Kettering University

Yan Chen, Ph.D.
Assistant Professor
Arizona State University

Yunyi Jia, Ph.D.
Assistant Professor
Clemson University

Darrell Robinette, Ph.D.
Assistant Professor
Michigan Technological University

Senthilkumar Sundararaj, Ph.D.
Associate Professor
SRM Institute of Science and Technology, India
HIGHEST-RATED VEHICLE REDESIGN

This award is presented to the engineering team responsible for the highest-rated redesigned vehicle for the 2021 Model Year. The award, based on consumer evaluations of Initial Quality™ and APEAL™, is for the 2021 Model Year vehicle that is furthest ahead of its predecessor.

2021 BMW 4 Series
This award is presented to the engineering team responsible for the highest-rated new entry into the market for the 2021 Model Year. The award, based on consumer evaluations of Initial Quality℠ and APEAL℠, is for the vehicle introduced for the 2021 Model Year that is furthest ahead of its direct competitors.

2021
Genesis GV80
Small gestures can have a profound impact
J.D. Power Engineering
Award for Highest-Rated All-New Vehicle

This award is presented to the engineering team responsible for the highest-rated new entry into the market for the 2021 Model Year. The award, based on consumer evaluations of Initial QualitySM and APEALSM, is for the vehicle introduced for the 2021 Model Year that is furthest ahead of its direct competitors.

Congratulations 2021 Genesis GV80

J.D. Power Engineering
Award for Highest-Rated Vehicle Redesign

This award is presented to the engineering team responsible for the highest-rated vehicle redesign for the 2021 Model Year. The award, based on consumer evaluations of Initial QualitySM and APEALSM, is for the 2021 Model Year vehicle that is furthest ahead of its predecessor.

Congratulations 2021 BMW 4 Series
Congratulations Awardees
Out of the desire and unsuccessful quest for honest, clean health products that could support mind, body and spirit, wellness industry expert Cassie Sobelton decided to develop her own, by combining her knowledge and experience as a former operations manager of a manufacturing company with her mastery of nutrition and wellbeing.

Wellness Collection™ offers a wide variety of naturally derived products carefully created for health-conscious busy lifestyles and on-the-go individuals.

reVITALize Daily Essentials + Immunity™
(a dietary supplement like no other) combines key micronutrients with the potent antioxidant and protective power of science-backed ingredients from natural origin in a proprietary blend that provides 6 core benefits:

- Increases energy levels and vitality
- Supports a strong immune system
- Helps to balance the body’s natural inflammatory response
- Boosts the mood and helps you stay healthy in times of stress
- Protective gut health function
- Promotes a healthy cardiovascular system*

To know more about reVITALize Daily Essentials + Immunity™ and discover other innovative & high-quality products to support your wellbeing, go to:

www.wellnesscollection.com

*These statements have not been evaluated by the FDA. These products are not intended to diagnose, treat, cure, or prevent any disease.

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Special thank you to our award donors!

Agarwal Family
Dr. Rodica Baranescu
SAE’s Environmental Activity Committee & Supporting Industry Partners
Breed Charitable Foundation
IHI Corporation
Dr. John H. Johnson
NASCAR
Max E. Rumbaugh Jr. Arnold and Stephanie Siegel Ralph
R. Teetor
The Timken Company
WITH PRESENTING SPONSOR

J.D. POWER