

National Academy of Engineering
Induction Ceremony
September 29, 2024

CLASS OF 2024
Members and
International Members





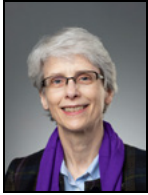
Class of 2024: Members

In February 2024 the members of the NAE elected 115 new members and 20 new international members. Election to the NAE is one of the highest professional distinctions conferred on engineers. The main criteria for membership in the National Academy of Engineering are outstanding personal contributions and accomplishments in at least one of the following categories:

- engineering, practice, research, or education,
- pioneering of new and developing fields of technology, major advancements in traditional fields of engineering, or development/implementation of innovative approaches to engineering education,
- engineering leadership of one or more major endeavors.

A candidate for membership shall also be recognized by associates and others for professional integrity.

The following pages feature the names, photographs, and election citations of each newly elected member and international member. The numbers following their names denote primary and secondary NAE section affiliations.



Dr. Nancy Lynn Allbritton (2)

Frank and Julie Jungers Endowed Dean
University of Washington

For innovation and commercialization of single-cell, analytical, and gut-on-chip technologies for drug screening and for engineering education.



Mr. Glenn R. Bell (4)

Research Civil Engineer
Materials and Structural Systems Division
National Institute of Standards and Technology

For creativity in building design, advancing forensic engineering, and innovation in engineering education.



Dr. Martha C. Anderson (12, 11)

Research Physical Scientist
U.S. Department of Agriculture

For application of thermal satellite remote sensing in hydrology.



Dr. Carolyn R. Bertozzi (3, 2)

Anne T. and Robert M. Bass Professor of
Chemistry and Baker Family Director of Sarafan
ChEM-H
Department of Chemistry
Stanford University

For engineering tools using bio-orthogonal chemistry for novel biomaterials, diagnostics, and drug delivery systems.



Professor Marc A. Baldo (7)

Director of the Research Laboratory of
Electronics
Electrical Engineering
Massachusetts Institute of Technology

For efficient light-emitting diodes for the modern display industry.



Prof. Irene J. Beyerlein (10, 9)

Mehrabian Interdisciplinary Professor
Department of Mechanical Engineering
University of California, Santa Barbara

For methodologies predicting the mechanics of complex engineering materials to improve their stability and strength.



Mr. Christian Laszlo Belady (10, 6)

Senior Advisor
DigitalBridge

For delivery of energy-efficient data centers and metrics to characterize their power utilization efficiency.



Professor Alexandria B. Boehm (4, 12)

Professor and Senior Fellow
Civil and Environmental Engineering
Stanford University

For advances to protect public health from environmentally transmitted infectious disease.

Class of 2024: Members

Dr. Shailendra V. Bordawekar (3)

Vice President
Small Molecule Chemistry, Manufacturing &
Controls Development
AbbVie, Inc.

For leadership in the pharmaceutical industry, developing life-saving medicines, influencing regulations, and advocating for women in engineering.



Dr. Babu R. Chalamala (6, 7)

Senior Scientist
Grid Modernization & Energy Storage
Sandia National Laboratories

For advancement of battery storage systems.



Dr. John R. Brophy (1)

Engineering Fellow
NASA Jet Propulsion Laboratory, Caltech

For technical leadership in development and flight implementation of electric propulsion in spacecraft systems.



Dr. Surajit Chaudhuri (5)

Technical Fellow
Data Systems
Microsoft Corporation

For automated database system tuning, database query optimization, and data cleaning.



Dr. Jacopo Buongiorno (6)

Tokyo Electric Power Company Professor in
Nuclear Engineering & Director
Nuclear Science and Engineering
Massachusetts Institute of Technology

For nuclear reactor safety, advanced nuclear power development, and community outreach.



Dr. Jingguang Chen (3)

Thayer Lindsley Professor of Chemical
Engineering
Columbia University

For discovering new catalysts and synchrotron techniques to connect catalytic and electrocatalytic mechanisms under reaction conditions.



Dr. Hsiao-hua Burke (1)

Principal Staff
Air, Missile, and Maritime Defense Technology
MIT Lincoln Laboratory

For technology and leadership in remote sensing techniques and systems for ballistic missile defense and space systems.



Prof. Zhangxing John Chen (11, 12)

Professor, NSERC IRC Chair
Chemical and Petroleum Engineering
University of Calgary

For modeling and simulation techniques for the recovery of hydrocarbon resources.



Dr. Pascale Carayon (8)

Professor Emerita
Department of Industrial & Systems Engineering
University of Wisconsin-Madison

For application of human factors engineering to health care systems to improve patient safety.



Prof. Noel Thomas Clemens (1)

Clare Cockrell Williams Centennial Chair in
Engineering Professor
Aerospace Engineering and Engineering
Mechanics
University of Texas

For laser-based measurements to understand and control high-speed reactive and nonreactive flows.



Class of 2024: Members



Mr. Theodore Colbert III (1, 8)
CEO, Boeing Defense, Space & Security
The Boeing Company

For engineering leadership in advanced commercial and military air and space platforms.



Prof. Tejal Ashwin Desai (2)
Sorensen Family Dean, School of Engineering
Brown University

For nanofabricated materials to control biologics delivery, and leadership in the fields of nanotechnology and regenerative medicine.



Professor Antonio J. Conejo (6, 8)
Professor
Integrated Systems Engineering
The Ohio State University

For power systems planning and electricity markets.



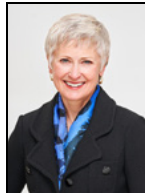
Dr. Dariush D. Divsalar (7)
Principal Scientist and JPL Fellow
NASA Jet Propulsion Laboratory, Caltech

For theory and practice of channel codes that impact deep-space communications.



Dr. Rory A. Cooper (12, 2)
Distinguished Professor of Rehabilitation Engineering
School of Health and Rehabilitation Sciences
University of Pittsburgh

For wheelchair innovations that transformed the health, mobility, and inclusion of people with disabilities and older adults.



Dr. Elaine Jay Dorward-King (11)
Non-executive Director
Sibanye-Stillwater

For promoting safety, biodiversity, sustainability, health, and environmental responsibility in the mining industry.



Dr. Jingrong Jean Cui (12)
President, CEO & Scientific Founder
BlossomHill Therapeutics, Inc.

For innovation of new medicines to fight cancers and solve urgent medical needs.



Dr. Carolyn Duran (9, 7)
Senior Director
Hardware Engineering
Apple Inc.

For holistic materials innovations in semiconductor manufacturing.



Dr. Ruth S. DeFries (11)
Professor
Dep't. of Ecology, Evolution and Environmental Biology
Columbia University

For elucidating anthropogenic land-use change impacts on environmental sustainability, and for providing science for policy decisions.



Mr. Donald O. Dusenberry (4)
Consulting Principal (retired)
Simpson Gumpertz & Heger, Inc.

For national structural design load standards, and for standards covering blast, fire, and progressive collapse.

Class of 2024: Members

Prof. Shanhui Fan (7)

Joseph and Hon Mai Goodman Professor
Electrical Engineering
Stanford University

For showing that "the coldness of space" relative to Earth can be a major energy source for humankind.



Dr. Salvador García Muñoz (3)

Executive Director of Engineering
Synthetic Molecule Design and Development
Eli Lilly and Company

For modeling and data analysis for development of manufacturing processes for pharmaceutical products.



Dr. Bruce Behruz Fardanesh (6)

Vice President, System Planning and Analysis
New York Power Authority

For flexible operation and control of large-scale power systems.



Dr. James E. Gebhardt (11)

Senior Engineer (retired)
FLSmidth

For transforming mineral processing operations with online measurements, electrochemical sulfide flotation, and hydrometallurgical models.



Prof. Gerhard Paul Fettweis (7)

Vodafone Chair for Mobile Communications
Systems & Professor
Technical University of Dresden

For wireless network innovations and entrepreneurship.



Dr. Darío Gil (8, 5)

Senior Vice President & Director of Research
IBM Research
International Business Machines Corporation

For advancement and practical use of artificial intelligence and quantum computing in industry and society.



Dr. Catherine E. Wolfram French (4)

Professor of Civil Engineering
Civil, Environmental & Geo-Engineering
University of Minnesota, Minneapolis

For design, safety, and construction of structural concrete buildings and bridges.



Mr. James R. Gosler (12)

Senior Fellow
Johns Hopkins University Applied Physics
Laboratory

For national leadership in cyber and information security.



Dr. Rong Fu (12)

Professor
Atmospheric and Oceanic Sciences
University of California, Los Angeles

For methodologies that use satellite remote sensing to characterize and predict precipitation over land.



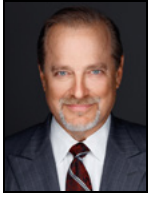
Dr. Martha R. Grabowski (12)

McDevitt Distinguished Chair in Information
Systems; Senior Research Scientist
Le Moyne College

For engineering information systems that promote transportation safety and for national leadership in marine transportation policy.



Class of 2024: Members



Dr. Patrick R. Gruber (2, 3)

Chief Executive Officer and Director
Gevo, Inc.

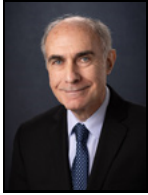
For renewable resource-based chemicals, plastics, and fuels, demonstrated by scalable, economically viable processes.



Dr. Peter Hart (5)

Founder and Chairman Emeritus
Ricoh Innovations Corporation

For pattern classification, information theory, computer vision, and robotics.



Mr. John M. Guerra (12)

President and CEO
Nanoptek Corp.

For inventing and commercializing nano-optics to advance super-resolution microscopy and produce hydrogen directly with sunlight.



Mr. Dennis Wayne Henneke (6, 10)

Consulting Engineer
GEH Hitachi Fuels Engineering
GE Vernova, formerly GE Hitachi Nuclear Energy

For applying probabilistic risk assessment to enhance nuclear reactor safety.



Prof. Carlos Ernesto Guestrin (5)

Professor
Computer Science
Stanford University

For scalable systems and algorithms enabling the broad application of machine learning in science and industry.



Prof. Mark Hersam (9, 7)

Walter P. Murphy Professor of Materials Science and Engineering
Northwestern University - Evanston

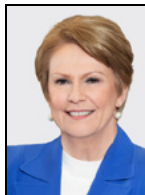
For the synthesis, purification, functionalization, and application of low-dimensional nanoelectronic materials.



Mr. Ashraf Habibullah (4)

Founder, President & CEO
Computers & Structures, Inc

For structural engineering software for use by engineers globally and for advocacy of the engineering profession.



Ms. Vicki Ann Hollub (11)

President & Chief Executive Officer
Occidental Petroleum Corporation

For leadership in energy company management and advocating for carbon management solutions.



Dr. Kiruba Sivasubramaniam Haran (6, 1)

Grainger Chair & Director of CEME
Electrical & Computer Engineering
University of Illinois at Urbana-Champaign

For high-power density electric and superconducting machinery technology and innovations in aircraft electric propulsion.



Dr. Arpad Horvath (4, 12)

Professor, Engineering and Project Management Program
University of California, Berkeley

For environmental life cycle assessment of infrastructure systems.

Class of 2024: Members

Mr. Jen-Hsun Huang (5)

CEO
Nvidia Corporation

For high-powered graphics processing units, fueling the artificial intelligence revolution.



Prof. Sonia M. Kreidenweis (12)

University Distinguished Professor
Department of Atmospheric Sciences
Colorado State University

For elucidating the impact of aerosols on climate, linking chemical composition and cloud formation capacity.



Dr. Charles Johnson-Bey (12, 8)

Senior Vice President
Global Defense Sector
Booz Allen Hamilton

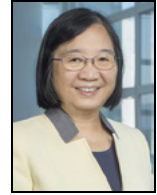
For development of engineering innovations in support of national security.



Prof. Kei May Lau (9, 7)

Chair Professor
School of Engineering
The Hong Kong University of Science and Technology

For photonics and electronics based on III-V semiconductors on silicon.



Mr. Farhad Khosravi (10, 2)

Chairman and CEO
Imperative Care Inc.

For revolutionary ophthalmic, cardiovascular, and neurovascular interventions.



Dr. Eugene Lavretsky (1)

Principal Senior Technical Fellow
Boeing Research & Technology
The Boeing Company

For application of optimal and adaptive control theory to commercial and military aircraft systems.



Dr. Rob Knight (2, 5)

Professor
Pediatrics, Computer Science & Engineering
University of California, San Diego School of Medicine

For understanding microbiomes and their application to healthcare and sustainability.



Dr. Qinghuang Lin (9, 3)

Senior Director
Canon Nanotechnologies, Inc

For electronic materials for the manufacturing of integrated circuit products.



Mr. Eugene Francis Kranz (1)

Director (retired)
NASA Johnson Space Center

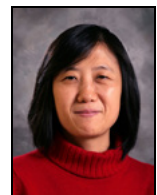
For establishing the principles and mission control procedures for manned spaceflight operations.



Dr. Chungqing Liu (3)

R&D Sr. Fellow & Sr. Manager
Green H2 Growth Vector Group
Honeywell Inc.

For polymer and membrane innovations for cost-effective natural gas and green hydrogen production and use.



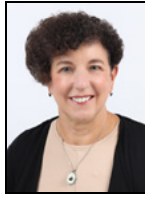
Class of 2024: Members



Dr. K.J. Ray Liu (7, 5)

Founder, Chairman and CTO
Origin AI

For signal processing for wireless sensing with communications.



Dr. Pamela Gail Marrone (2, 9)

Co-founder & Executive Chair
Invasive Species Control Corporation

For sustainable bioprotection products for agriculture and the environment.



Mr. Bret Lizundia (4)

Executive Principal
Rutherford + Chekene

For seismic design through applied research, innovative practice, earthquake reconnaissance, and building code development.



Dr. Duane K. Miller (4, 9)

Manager of Engineering Services & Welding
Design Consultant
Lincoln Electric Company

For design, fabrication, and performance of welded structural steel connections and for contributions to welding education.



Dr. Timothy Patrick Lodge (3, 9)

Regents Professor
Chemical Engineering & Materials Science
University of Minnesota, Minneapolis

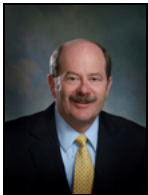
For contributions to the understanding of the dynamic properties of multicomponent polymers and self-assembled structures.



Mr. Nicholas W. Miller (6)

Principal
HickoryLedge LLC

For reliable integration of wind and solar plants into electric power systems.



Vice Adm. Michael K. Loose (4)

Deputy Chief of Naval Operations for Fleet
Readiness and Logistics (retired)
U.S. Navy

For the planning, execution, and operation of worldwide capital asset programs to serve national security.



Dr. Paul Christopher Damian Milly (11, 12)

Research Hydrologist
Independent

For advances in the understanding of global and continental hydrology and their interactions with a changing climate.



Dr. Gargi Maheshwari (2)

Vice President
Global Product Development & Supply
Bristol Myers Squibb Company

For industrial bioprocessing, leading to licensure of biologics and vaccines for human health.



Dr. Patricia Lyon Mokhtarian (4, 8)

Clifford and William Greene, Jr. Professor and
Regents Professor
School of Civil and Environmental Engineering
Georgia Institute of Technology

For improved transportation systems planning and practice through quantifying human behavior.

Class of 2024: Members

Dr. George Michael Morris (12, 7)

Founder and CEO (retired)
Apollo Optical Systems Inc.

For nanophotonic optical filters, super-resolution imaging, laser metrology and optical storage.

**Dr. Sethuraman Panchanathan (5, 12)**

Director
National Science Foundation

For multimedia computing for assistive and rehabilitative applications and for leadership at the institutional and national levels.

**Dr. P. Pandurang Nayak (5)**

VP of Search
Google, LLC

For web search ranking technology.

**Prof. George J. Pappas (7, 5)**

UPS Foundation Professor
Department of Electrical & Systems Engineering
University of Pennsylvania

For analysis, synthesis, and control of safety-critical cyber-physical systems.

**Dr. Tina Nenoff (9)**

Senior Scientist
Material, Physical, and Chemical Sciences
Sandia National Laboratories

For translating fundamental understanding of nanoporous materials into applications with societal and national security impact.

**Mr. Seth L. Pearlman (4, 9)**

CEO - Director North America
Menard USA

For ground improvement technologies, geotechnical design, and geotechnical construction techniques.

**Dr. Melissa E. Orme (1, 8)**

Vice President
The Boeing Company

For industrialization of additive manufacturing for aerospace applications and research advancing 3D printing.

**Mr. Larry F. Pellett (1, 7)**

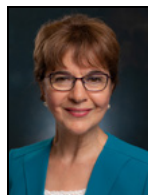
Vice President Special Programs
Lockheed Martin Aeronautics – Skunk Works
Lockheed Martin Corporation

For engineering development, transition, and operation of airborne system technologies for national security.

**Prof. Umit S. Ozkan (3)**

Distinguished University Professor
Chemical & Biomolecular Engineering
The Ohio State University

For research in electrocatalysis and elucidation of mechanisms of oxidation catalysis.

**Dr. Ravi Shankar Prasher (10, 9)**

Chief Technology Officer
Bloom Energy

For development of thermal management technologies for microelectronics and the decarbonization of thermal energy systems.



Class of 2024: Members



Prof. Robert K. Prud'homme (3)
Professor Emeritus of Chemical & Biological Engineering
Princeton University

For mass manufacture of SARS-CoV-2 vaccines and other applications to improve human health.



Admiral John Michael Richardson (12, 6)
Consultant
Briny Deep LLC

For leadership in nuclear power and submarine engineering advances and national security.



Mr. Peter J. Pupalais (7, 5)
Founding Member & Director of Signal Integrity
Nubis Communications

For digital signal processing for test and measurement instruments.



Prof. Susan D. Richardson (11, 4)
Arthur Sease Williams Professor of Chemistry
Chemistry and Biochemistry
University of South Carolina

For methods to measure disinfection byproducts and other contaminants in water and advancing their use in treatment and risk assessment.



Dr. Jeffery J. Puschell (11)
Chief Engineer, EO/IR Payloads
Northrop Grumman Corporation

For development of optical, multispectral, and hyperspectral space-based remote sensing systems for Earth observation.



Prof. Jorge J. Rocca (12, 7)
University Distinguished Professor
Electrical & Computer Engineering
Colorado State University

For soft X-ray lasers and their applications to photolithography, microscopy, and chemical analysis.



Dr. Gamal Refai-Ahmed (10, 7)
Senior Fellow & Chief Thermo-Mechanical Architect
Advanced Micro Devices, Inc.

For development of thermal-mechanical technologies for the thermal management of microelectronics.



Dr. M. Taher A Saif (10)
Edward William & Jane Marr Gutgsell Professor
Mechanical Science & Engineering
University of Illinois at Urbana-Champaign

For characterizing mechanical properties of materials at small scales, with applications in materials science and biology.



Dr. Maureen Theresa Fahey Reitman (9)
Group Vice President & Principal Engineer
Exponent, Inc.

For understanding the selection, performance, and durability of polymeric materials in consumer, medical, and industrial applications.



Dr. Christine E. Schmidt (2)
Distinguished Professor & J. Crayton Pruitt Family Endowed Chair
Biomedical Engineering
University of Florida

For biomaterials and tissue engineering for neural regeneration and improved wound healing and for leadership in diversifying bioengineering.

Class of 2024: Members

Dr. Jill E. Seebergh (3)

Principal Senior Technical Fellow
The Boeing Company

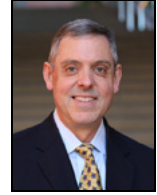
For materials and coating processes that enable efficient and sustainable aircraft production, performance, and safety.



Dr. Jonathan P. Stewart (4)

Professor
Civil and Environmental Engineering
University of California, Los Angeles

For improved understanding of soil-structure interaction, earthquake ground motions, site response, and soil liquefaction.



Dr. David Scott Sholl (3)

Director
Oak Ridge National Laboratory

For addressing large-scale chemical separation challenges, including carbon dioxide capture, using quantitative materials modeling.



Dr. Ion Stoica (5)

Professor Electrical Engineering & Computer Science Dept
University of California, Berkeley

For networked systems for large-scale data processing, analytics, and machine learning.



Dr. Raj N Singh (9)

Regents Professor
Materials Science and Engineering
Oklahoma State University

For the science and technology of manufacturing fiber-reinforced ceramic matrix composites leading to their applications and commercialization.



Dr. Jose E. Tabora-Sierra (3, 5)

Senior Scientific Director
Chemical Product Development
Bristol Myers Squibb Company

For pharmaceutical process development through innovations in modeling, design of experiments, and data analysis.



Prof. Metin Sitti (10)

President
Koç University

For bioinspired adhesives and small-scale mobile robotics.



Dr. Charles A. Taylor Jr. (2, 10)

Founder and Board Member
HeartFlow Inc.

For patient-specific computer modeling of blood flow and the noninvasive diagnosis of heart disease.



Dr. Matthias Steffen (5)

IBM Fellow, Quantum Processor Technologies
IBM TJ Watson Research Center
International Business Machines Corporation

For quantum computing systems, from demonstration of Shor's algorithm to the first deployment of publicly available quantum computers.



Dr. Cristina Urdaneta Thomas (9, 3)

3M Global R&D Services Senior Director (retired)
3M

For innovation, commercialization, and leadership in using polymeric materials for energy savings and traffic safety, and to ensure worker well-being.



Class of 2024: Members



Dr. Dawn M. Tilbury (8, 10)

Ronald D. & Regina C. McNeil Department Chair of Robotics and Professor
University of Michigan

For advances in manufacturing network control and human-robot interaction and for engineering leadership.



Dr. Rien van Genuchten (11)

Collaborating Professor
Department of Nuclear Engineering, LASME
Federal University of Rio de Janeiro

For contributions to experimental analysis and modeling of flow and transport in saturated and unsaturated soil.



Dr. Hye Kyung C. Timken (3, 8)

Principal Scientist & Chevron Fellow
Downstream Technology & Services
Chevron Corporation

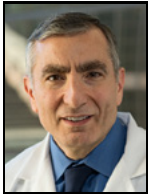
For environmentally friendly processes for producing hydrocarbon fuels.



Dr. Peter J. Vickery (4, 12)

Consultant
Peter J. Vickery Consulting, PLLC

For establishing hurricane risk in national standards, and modeling hurricane losses.



Dr. James Mitchell Tour (9, 3)

T. T. & W. F. Chao Professor of Chemistry
Rice University

For synthesis, fabrication, properties, applications, and commercialization of novel forms of carbon and their composites and derivatives.



Mr. Steven D. Weiner (1, 12)

Chief Engineer (retired)
Lockheed Martin Corporation

For development and fielding of advanced high-speed VTOL aircraft.



Dr. Sven Treitel (11)

DECEASED

For the foundations of digital seismic exploration, for developing its applications, and for inspiring three generations of geoscientists.



Mr. Scott Willoughby (12)

Vice President & Northrop Grumman Systems Manager
Northrop Grumman Corporation

For engineering leadership enabling the deployment of the James Webb Space Telescope.



Dr. Bruce J. Tromberg (2)

Director, National Institute of Biomedical Imaging and Bioengineering
National Institutes of Health

For US diagnostics innovation initiatives, resulting in advanced SARS-CoV-2 testing capacity and performance



Dr. Jeannette M. Wing (5)

Executive Vice President for Research & Professor of Computer Science
Columbia University

For formulation and advocacy of computational thinking, and for contributions to formal methods and trustworthy computing

Class of 2024: Members

Dr. Jack Harriman Winters (7)

Fellow & Principal Member of the Engineering Staff
Advanced Radar Architecture
Lockheed Martin Corporation

For communications and signal processing techniques for multi-antenna wireless networks.



Dr. Zhiyong Cedric Xia (8, 10)

Distinguished Engineer & Director
Hardware Engineering
Apple Inc.

For advanced forming technologies in automotive and electronic products.



Dr. Daniel Christopher Worledge (9, 7)

Distinguished Research Scientist & Senior Manager, MRAM
IBM Research - MRAM
International Business Machines Corporation

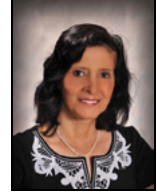
For development of magnetic random-access memory materials, devices, and technologies.



Dr. Caroline Melkonian Ylitalo (3, 2)

Senior Division Scientist
Personal Safety Division
3M

For development of personal safety products, including for N95 respirators used during the pandemic.



Prof. Stephen J. Wright (8, 5)

George B. Dantzig Professor of Computer Sciences
University of Wisconsin-Madison

For theory and design of optimization algorithms and their application in signal processing and machine learning.



Dr. Howard Allan Zebker (11, 7)

Professor of Electrical Engineering & Geophysics
Stanford University

For developing radar interferometry for space-born sensors that measure meter-scale topography and millimeter-scale surface deformation.



Dr. Tien Y. Wu (8)

Chief Executive Officer
Advanced Semiconductor Engineering, Inc.

For sustainable electronics manufacturing and advancements in the high-volume production of semiconductor packaging.



Class of 2024: International Members

Prof. Marco Amabili (10)

Chair Professor
School of Engineering
Westlake University

For dynamic analyses and fluid-structure interaction studies of composite plates and shells.



Prof. Juan Carlos De la Llera (4)

Professor
Structural and Geotechnical Engineering
Pontificia Universidad Catolica de Chile

For contributions to seismic isolation and energy dissipation for improved earthquake performance and safety.



Dr. Stephane Bancel (2)

Chief Executive Officer
Moderna Therapeutics

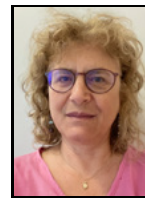
For development and manufacturing of pharmaceutical products, including the COVID-19 vaccine.



Prof. Georgia Destouni (12)

Professor
Department of Physical Geography
Stockholm University

For understanding anthropogenic and climate-driven shifts in Earth's freshwaters and for sustained community service.



Mr. Pierre Bornard (6)

Senior Consultant
BSDE Associates

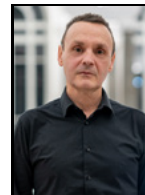
For control and protection technologies and structuring of electricity markets.



Prof. Alberto Guadagnini (11, 4)

Professor of Hydraulic & Water Engineering
Civil and Environmental Engineering
Politecnico di Milano

For advances in stochastic hydrogeology and contaminant transport in subsurface aquifers leading to improved water supply and quality.



Prof. Wonyong Choi (4, 3)

Distinguished Professor
Korea Institute of Energy Technology

For solar-based photoelectrocatalysis for water and air treatment.



Prof. Dr. Yidong Huang (7)

Professor
Department of Electronic Engineering
Tsinghua University

For photonic sources and imagers and their translation to industry.



Prof. Tony George Constantinides (7)

Emeritus Professor
Electrical and Electronic Engineering
Imperial College London

For advancing digital signal processing and its applications.



Prof. Taeghwan Hyeon (3)

SNU Distinguished Professor
School of Chemical and Biological Engineering
Seoul National University

For scalable synthesis of precisely controlled nanoparticles and design of inorganic nanobiomaterials.



Class of 2024: International Members



Prof. Tobias J. Kippenberg (7)
Professor
Swiss Federal Institute of Technology, Lausanne

For development and commercialization of chip-scale optical frequency combs.



Prof. Thalappil Pradeep (9, 12)
Institute Professor and Deepak Parekh Institute Chair Professor
Department of Chemistry
Indian Institute of Technology - Madras

For contributions to cluster chemistry and the discovery and implementation of affordable drinking water solutions.



Prof. Alison Emslie Lewis (3)
Dean, Faculty of Engineering & the Built Environment
University of Cape Town

For contributions to crystallization processes for saline water treatment and extraction metallurgy, and leadership in engineering education.



Prof. Yvonne Rogers (5)
Chair of Interaction Design
Department of Computer Science
University College London

For advancing human-centric computing through technical innovations and worldwide education.



Dr. Tanya Mary Monro (12)
Chief Defence Scientist
Australian Department of Defence

For contributions to optics engineering and advancing Australian national security.



Dr. Derrick Rossi (2)
Interim Chief Executive Officer
Convelo Therapeutics, Inc.

For discoveries in stem cell biology and launching companies to translate them into health benefits.



Mr. Daniel A. Nolasco (4)
Founding Partner & President
Nolasco & Associates

For advancing wastewater treatment technologies and adapting treatment processes for climate change.



Dr. Vera Silva (6, 5)
Chief Strategy & Technology Officer
Electrification Systems HQ
General Electric Company

For grid integration of renewable energy.



Prof. Constantinos Pantelides (3)
Chief Technology Officer
Process Systems Enterprise Ltd.

For process modeling and optimization, and for pioneering modeling software.



Dr. Yu-Pen Su (1)
Consultant
Missile and Rocket Systems Research Division
National Chung-Shan Institute of Science and Technology

For development of aerospace propulsion and vehicle technologies for missiles and rockets.

CLASS OF 2024

**By Section and
Geographic Location**



**SECTION 1
AEROSPACE ENGINEERING
(PRIMARY SECTION)**

Brophy, John R.
Burke, Hsiao-hua
Clemens, Noel Thomas
Colbert, Theodore, III
Kranz, Eugene Francis
Lavretsky, Eugene
Orme, Melissa E.
Pellett, Larry F.
Su, Yu-Pen
Weiner, Steven D.

**SECTION 1
AEROSPACE ENGINEERING
(SECONDARY SECTION)**

Haran, Kiruba Sivasubramaniam

**SECTION 2
BIOENGINEERING
(PRIMARY SECTION)**

Allbritton, Nancy Lynn
Bancel, Stephane
Desai, Tejal Ashwin
Gruber, Patrick R.
Knight, Rob
Maheshwari, Gargi
Marrone, Pamela Gail
Rossi, Derrick
Schmidt, Christine E.
Taylor, Charles A., Jr.
Tromberg, Bruce J.

**SECTION 2
BIOENGINEERING
(SECONDARY SECTION)**

Bertozzi, Carolyn R.
Cooper, Rory A.
Khosravi, Farhad
Ylitalo, Caroline Melkonian

**SECTION 3
CHEMICAL ENGINEERING
(PRIMARY SECTION)**

Bertozzi, Carolyn R.
Bordawekar, Shailendra V.
Chen, Jingguang
Garcia Muñoz, Salvador
Hyeon, Taeghwan
Lewis, Alison Emslie
Liu, Chunqing
Lodge, Timothy Patrick
Ozkan, Umit S.
Pantelides, Constantinos
Prud'homme, Robert K.
Seebergh, Jill E.
Sholl, David Scott
Tabora-Sierra, Jose E.
Timken, Hye Kyung C.
Ylitalo, Caroline Melkonian

**SECTION 3
CHEMICAL ENGINEERING
(SECONDARY SECTION)**

Choi, Wonyong

Gruber, Patrick R.
Lin, Qinghuang
Thomas, Cristina Urdaneta
Tour, James Mitchell

**SECTION 4
CIVIL & ENVIRONMENTAL
ENGINEERING
(PRIMARY SECTION)**

Bell, Glenn R.
Boehm, Alexandria B.
Choi, Wonyong
De la Llera, Juan Carlos
Dusenberry, Donald O.
French, Catherine E. Wolgram
Habibullah, Ashraf
Horvath, Arpad
Lizundia, Bret
Loose, Michael K.
Miller, Duane K.
Mokhtarian, Patricia Lyon
Nolasco, Daniel A.
Pearlman, Seth L.
Stewart, Jonathan P.
Vickery, Peter J.

**SECTION 4
CIVIL & ENVIRONMENTAL
ENGINEERING
(SECONDARY SECTION)**

Guadagnini, Alberto
Richardson, Susan D.

**SECTION 5
COMPUTER SCIENCE &
ENGINEERING
(PRIMARY SECTION)**

Chaudhuri, Surajit
Guestrin, Carlos Ernesto
Hart, Peter
Huang, Jen-Hsun
Nayak, P. Pandurang
Panchanathan, Sethuraman
Rogers, Yvonne
Steffen, Matthias
Stoica, Ion
Wing, Jeannette M.

**SECTION 5
COMPUTER SCIENCE &
ENGINEERING
(SECONDARY SECTION)**

Gil, Dario
Knight, Rob
Liu, K.J. Ray
Pappas, George J.
Pupalaikis, Peter J.
Silva, Vera
Tabora-Sierra, Jose E.
Wright, Stephen J.

**SECTION 6
ELECTRIC POWER/ENERGY
SYSTEMS ENGINEERING
(PRIMARY SECTION)**

Bornard, Pierre

Buongiorno, Jacopo
Chalamala, Babu R.
Conejo, Antonio J.
Fardanesh, Bruce Behruz
Haran, Kiruba Sivasubramaniam
Henneke, Dennis Wayne
Miller, Nicholas W.
Silva, Vera

**SECTION 6
ELECTRIC POWER/ENERGY
SYSTEMS ENGINEERING
(SECONDARY SECTION)**

Belady, Christian Laszlo
Richardson, John Michael

**SECTION 7
ELECTRONICS,
COMMUNICATION &
INFORMATION SYSTEMS
ENGINEERING
(PRIMARY SECTION)**

Baldo, Marc A.
Constantinides, Tony George
Divsalar, Dariush D.
Fan, Shanhui
Fettweis, Gerhard Paul
Huang, Yidong
Kippenberg, Tobias J.
Liu, K.J. Ray
Pappas, George J.
Pupalaikis, Peter J.
Winters, Jack Harriman

**SECTION 7
ELECTRONICS,
COMMUNICATION &
INFORMATION SYSTEMS
ENGINEERING
(SECONDARY SECTION)**

Chalamala, Babu R.
Duran, Carolyn
Hersam, Mark
Lau, Kei May
Morris, George Michael
Pellett, Larry F.
Refai Ahmed, Gamal
Rocca, Jorge J.
Worledge, Daniel Christopher
Zebker, Howard Allan

**SECTION 8
INDUSTRIAL,
MANUFACTURING &
OPERATIONAL SYSTEMS
ENGINEERING
(PRIMARY SECTION)**

Carayon, Pascale
Gil, Dario
Tilbury, Dawn M.
Wright, Stephen J.
Wu, Tien Y.
Xia, Zhiyong Cedric

**SECTION 8
INDUSTRIAL,
MANUFACTURING &
OPERATIONAL SYSTEMS
ENGINEERING
(SECONDARY SECTION)**

Colbert, Theodore, III
Conejo, Antonio J.
Johnson-Bey, Charles
Mokhtarian, Patricia Lyon
Orme, Melissa E.
Timken, Hye Kyung C.

**SECTION 9
MATERIALS ENGINEERING
(PRIMARY SECTION)**

Duran, Carolyn
Hersam, Mark
Lau, Kei May
Lin, Qinghuang
Nenoff, Tina
Pradeep, Thalappil
Reitman, Maureen Theresa Fahey
Singh, Raj N
Thomas, Cristina Urdaneta
Tour, James Mitchell
Worledge, Daniel Christopher

**SECTION 9
MATERIALS ENGINEERING
(SECONDARY SECTION)**

Beyerlein, Irene J.
Lodge, Timothy Patrick
Marrone, Pamela Gail
Miller, Duane K.
Pearlman, Seth L.
Prasher, Ravi Shankar

**SECTION 10
MECHANICAL
ENGINEERING
(PRIMARY SECTION)**

Amabili, Marco
Belady, Christian Laszlo
Beyerlein, Irene J.
Khosravi, Farhad
Prasher, Ravi Shankar
Refai Ahmed, Gamal
Saif, M. Taher A
Sitti, Metin

**SECTION 10
MECHANICAL
ENGINEERING
(SECONDARY SECTION)**

Henneke, Dennis Wayne
Taylor, Charles A., Jr.
Tilbury, Dawn M.
Xia, Zhiyong Cedric

**SECTION 11
EARTH RESOURCES
ENGINEERING
(PRIMARY SECTION)**

Chen, Zhangxing John
DeFries, Ruth S.

Class of 2024: By Section

Dorward-King, Elaine Jay
Gebhardt, James E.
Guadagnini, Alberto
Hollub, Vicki Ann
Milly, Paul Christopher Damian
Puschell, Jeffery J.
Richardson, Susan D.
van Genuchten, Rien
Zebker, Howard Allan

**SECTION 11
EARTH RESOURCES
ENGINEERING**
(SECONDARY SECTION)
Anderson, Martha C.

**SECTION 12
SPECIAL FIELDS &
INTERDISCIPLINARY
ENGINEERING**
(PRIMARY SECTION)
Anderson, Martha C.
Cooper, Rory A.
Cui, Jingrong Jean
Destouni, Georgia
Fu, Rong
Gosler, James R.
Grabowski, Martha R.
Guerra, John M.
Johnson-Bey, Charles
Kreidenweis, Sonia M.
Monro, Tanya Mary
Morris, George Michael
Richardson, John Michael
Rocca, Jorge J.
Willoughby, Scott

**SECTION 12
SPECIAL FIELDS &
INTERDISCIPLINARY
ENGINEERING**
(SECONDARY SECTION)
Boehm, Alexandria B.
Chen, Zhangxing John
Horvath, Arpad
Milly, Paul Christopher Damian
Panchanathan, Sethuraman
Pradeep, Thalappil
Vickery, Peter J.
Weiner, Steven D.

Class of 2024: By Geographic Location

CALIFORNIA

Bertozzi, Carolyn R.
Beyerlein, Irene J.
Boehm, Alexandria B.
Brophy, John R.
Cui, Jingrong Jean
Divsalar, Dariush D.
Duran, Carolyn
Fan, Shanhui
Fu, Rong
Guestrin, Carlos Ernesto
Habibullah, Ashraf
Hart, Peter
Horvath, Arpad
Huang, Jen-Hsun
Khosravi, Farhad
Knight, Rob
Lavretsky, Eugene
Lizundia, Bret
Marrone, Pamela Gail
Nayak, P. Pandurang
Orme, Melissa E.
Pellett, Larry F.
Prasher, Ravi Shankar
Puschell, Jeffery J.
Refai Ahmed, Gamal
Stewart, Jonathan P.
Stoica, Ion
Taylor, Charles A.
Timken, Hye Kyung C.
Worledge, Daniel Christopher
Xia, Zhiyong Cedric
Zebker, Howard Allan

COLORADO

Gruber, Patrick R.
Kreidenweis, Sonia M.
Rocca, Jorge J.

CONNECTICUT

Weiner, Steven D.

FLORIDA

Schmidt, Christine E.

GEORGIA

Mokhtarian, Patricia Lyon

ILLINOIS

Bordawekar, Shailendra V.
Haran, Kiruba Sivasubramianam
Hersam, Mark
Liu, Chunqing
Saif, M. Taher A

INDIANA

García Muñoz, Salvador

MARYLAND

Anderson, Martha C.
Johnson-Bey, Charles
Liu, K.J. Ray
Tromberg, Bruce J.

MASSACHUSETTS

Baldo, Marc A.
Bancel, Stephane

Bell, Glenn R.
Buongiorno, Jacopo
Burke, Hsiao-hua
Dusenberry, Donald O.
Guerra, John M.
Reitman, Maureen Theresa Fahey

MICHIGAN

Tilbury, Dawn M.

MINNESOTA

French, Catherine E. Wolfram
Lodge, Timothy Patrick
Thomas, Cristina Urdaneta
Ylitalo, Caroline Melkonian

NEVADA

Gosler, James R.

NEW JERSEY

Maheshwari, Gargi
Prud'homme, Robert K.
Pupalaikis, Peter J.
Tabora-Sierra, Jose E.
Winters, Jack Harriman

NEW MEXICO

Chalamala, Babu R.
Nenoff, Tina

NEW YORK

Chen, Jingguang
DeFries, Ruth S.
Fardanesh, Bruce Behruz
Gil, Dario
Grabowski, Martha R.
Miller, Nicholas W.
Morris, George Michael
Steffen, Matthias
Wing, Jeannette M.

NORTH CAROLINA

Henneke, Dennis Wayne
Vickery, Peter J.

OHIO

Conejo, Antonio J.
Miller, Duane K.
Ozkan, Umit S.
Rossi, Derrick

OKLAHOMA

Singh, Raj N

PENNSYLVANIA

Cooper, Rory A.
Milly, Paul Christopher Damian
Pappas, George J.
Pearlman, Seth L.

RHODE ISLAND

Desai, Tejal Ashwin

SOUTH CAROLINA

Richardson, Susan D.

TENNESSEE

Sholl, David Scott

TEXAS

Clemens, Noel Thomas
Hollub, Vicki Ann
Kranz, Eugene Francis
Lin, Qinghuang
Tour, James Mitchell

UTAH

Dorward-King, Elaine Jay
Gebhardt, James E.

VIRGINIA

Colbert, Theodore
Loose, Michael K.
Panchanathan, Sethuraman
Richardson, John Michael
Willoughby, Scott

WASHINGTON

Allbritton, Nancy Lynn
Belady, Christian Laszlo
Chaudhuri, Surajit
Seebergh, Jill E.

WISCONSIN

Carayon, Pascale
Wright, Stephen J.

ARGENTINA

Nolasco, Daniel A.

AUSTRALIA

Monro, Tanya Mary

BRAZIL

van Genuchten, Rien

CANADA

Chen, Zhangxing John

CHILE

De la Llera, Juan Carlos

CHINA

Amabili, Marco
Huang, Yidong

FRANCE

Bornard, Pierre
Silva, Vera

GERMANY

Fettweis, Gerhard Paul

HONG KONG

Lau, Kei May

INDIA

Pradeep, Thalappil

ITALY

Guadagnini, Alberto

SOUTH AFRICA

Lewis, Alison Emslie

SOUTH KOREA

Choi, Wonyong
Hyeon, Taeghwan

SWEDEN

Destouni, Georgia

SWITZERLAND

Kippenberg, Tobias J.

TAIWAN

Su, Yu-Pen
Wu, Tien Y.

TURKIYE

Sitti, Metin

UNITED KINGDOM

Constantinides, Tony George
Pantelides, Constantinos
Rogers, Yvonne

ANNIVERSARY MEMBERS



NAE Anniversary Members

55+ YEARS

Members whose names are in boldface type are celebrating their 55th year.

John S. Foster, Jr.

Richard J. Grosh

50 TO 54 YEARS

Members whose names are in boldface type are celebrating their 50th year.

Donald L. Bitzer

Norman H. Brooks
Arthur E. Bryson

James F. Gibbons

John C. Hancock
John P. Hirth

Arthur E. Humphrey
Robert G. Loewy
William J. Perry

Ivan E. Sutherland

45 TO 49 YEARS

Members whose names are in boldface type are celebrating their 45th year.

Andreas Acrivos

John G. Anderson

Alfredo H-S. Ang
Daniel Berg
William B. Bridges
Anthony J. DeMaria
Leo Esaki
Thomas E. Everhart

Joseph Feinstein

Steven J. Fenves
Merton C. Flemings
Douglas W. Fuerstenau
Theodore V. Galambos
Robert G. Gallager
William J. Galloway
Richard L. Garwin

Ivar Giaever

Ralph E. Gomory
Stephen E. Harris
Paul C. Jennings
Bernard H. Kear
Herwig Kogelnik
William R. Lucas
Robert D. Maurer

John S. Mayo

C. Kumar N. Patel
John M. Prausnitz
Andrew J. Viterbi
James Wei
Amnon Yariv

40 TO 44 YEARS

Members whose names are in boldface type are celebrating their 40th year.

Dell K. Allen

Norman R. Augustine
Lionel O. Barthold
Arden L. Bement, Jr.

Anil K. Chopra

Jose B. Cruz, Jr.

James W. Dally

Raymond F. Decker
Charles A. Eckert

John V. Evans

G. David Forney, Jr.

Kent F. Hansen

Robert D. Hanson

Kenneth E. Haughton

Alfred J. Hendron, Jr.
Cyril Hilsum

John W. Hutchinson

Irwin M. Jacobs

Trevor O. Jones

Thomas Kailath

C. Judson King
Leonard Kleinrock

Donald E. Knuth

Henry Kressel

Butler W. Lampson

George Leitmann

Peter W. Likins

Dan Luss

Carver A. Mead

Robert Mehrabian

Carl L. Monismith

Robin B. Nicholson

J. R. Anthony Pearson

Thomas K. Perkins

Lawrence R. Rabiner

Raj Reddy

James R. Rice

Herbert H. Richardson

Irwin W. Sandberg

John H. Schmertmann

William R. Schowalter

John H. Seinfeld

Charles V. Shank

Eugene D. Shchukin

George E. Smith

Kenneth A. Smith

Nickolas J. Themelis

Kenneth Thompson

Sheldon Weinig

Jasper A. Welch, Jr.

Gerald L. Wilson

NAE Anniversary Members

35 TO 39 YEARS

Members whose names are in boldface type are celebrating their 35th year.

Richard C. Alkire
John A. Armstrong
Bishnu S. Atal
David H. Austin
William F. Ballhaus, Jr.
Robert G. Bea
George A. Bekey
Alexis T. Bell
John A. Betti
Joel S. Birnbaum
H. Kent Bowen
Robert L. Byer
John R. Casani
John F. Cashen
Alfred Y. Cho
Jon F. Claerbout
Rodney J. Clifton
Philip M. Condit
Robert W. Conn
Edward J. Cording
Morton M. Denn
Stephen W. Director
James M. Duncan
Russell D. Dupuis
Lloyd A. Duscha
Robert J. Eaton
Charles Elachi
Gerard W. Elverum
Richard E. Emmert
Frank F. Fang
Edward A. Feigenbaum

Robert E. Fischell
John W. Fisher
Donald C. Fraser
Elsa M. Garmire
Jerome B. Gilbert
Alastair M. Glass
Joseph W. Goodman
Keith E. Gubbins
Siegfried S. Hecker
Adam Heller
Edward A. Hiler
Narain G. Hingorani
Yu-Chi Ho
John E. Hopcroft
William G. Howard, Jr.
Izzat M. Idriss
Anthony J. Iorillo
Erich P. Ippen
James O. Jirsa
Gunther F. Joklik
Robert E. Kahn
Melvin F. Kanninen
Albert S. Kobayashi
Louis J. Lanzerotti
Ronald M. Latanision
Gerald D. Laubach
L. Gary Leal
Barbara H. Liskov
John D. C. Little
Benjamin Y. H. Liu
Daniel P. Loucks

Albert Macovski
Shiro Matsuoka
John C. McDonald
Chiang C. Mei
Richard C. Messinger
Harold Mirels
James W. Mitchell
Joe H. Mize
C. D. (Dan) Mote, Jr.
George L. Nemhauser
J. Nicholas Newman
William D. Nix
Ronald P. Nordgren
William G. Oldham
Alan V. Oppenheim
Morton B. Panish
Ronald R. Parker
Donald R. Paul
R. Byron Pipes
John William Poduska, Sr.
Michael Prats
Robert A. Rapp
Jerome G. Rivard
Ronald A. Rohrer
Ronald E. Rosensweig
Elbert L. Rutan
Chih-Tang Sah
Alan Schriesheim
Laurence C. Seifert
Don W. Shaw
Michael L. Shuler

Leonard M. Silverman
Henry I. Smith
James J. Solberg
Ponisseril Somasundaran
Fred I. Stalkup
Charles V. Sternling
Richard G. Strauch
William D. Strecker
Ben G. Streetman
Byron D. Tapley
Robert E. Tarjan
David A. Thompson
Larry F. Thompson
Neil E. Todreas
Jeffrey D. Ullman
William J. Ward, III
Arthur W. Westerberg
John A. White, Jr.
Robert M. White
Sheila E. Widnall
Janusz S. Wilczynski
Forman A. Williams
James C. Williams
Edward L. Wilson
Ward O. Winer
Eugene Wong
Jerry M. Woodall
Israel J. Wygnanski

NAE Anniversary Members

30 TO 34 YEARS

Members whose names are in boldface type are celebrating their 30th year.

John L. Anderson
Michael F. Ashby
Donald W. Bahr
B. Jayant Baliga
Peter M. Banks
Craig R. Barrett
Forest Basket
Leslie A. Benmark
Richard E. Blahut
David B. Bogy
Donald A. Brand
Robert K. Brayton
Peter R. Bridenbaugh
Alec N. Broers
Robert A. Brown
Keith A. Browning
Wilfried H. Brutsaert
James D. Callen
Renso L. Caporali
Kenneth E. Case
Don B. Chaffin
Steve S. Chen
G. Wayne Clough
Joseph P. Colaco
Harry M. Conger
Donald C. Cox
Magnus George Craford
Jerome J. Cuomo
David N. Cutler
Lance A. Davis
Carl R. de Boor
Frederick H. Dill
Steven D. Dorfman
Earl H. Dowell
E. Linn Draper, Jr.
Stephen W. Drew
T. Dixon Dudderar
Robert W. Dutton
Lewis S. (Lonnie) Edelheit
Charles Fairhurst
Odd M. Faltinsen
Bruce A. Finlayson
Essex E. Finney, Jr.

George M.C. Fisher
Marshall L. Fisher
William L. Fisher
Edith M. Flanigen
L. B. Freund
Samuel H. Fuller
Thomas G. Giallorenzi
Ronald E. Goldsberry
Marvin E. Goldstein
Richard E. Goodman
Bernard M. Gordon
Susan L. Graham
Paul R. Gray
Sidney J. Green
Donald P. Greenberg
George I. Haddad
Howard R. Hart, Jr.
Henry J. Hatch
John L. Hennessy
John A. Herbst
George J. Hess
Arthur H. Heuer
George J. Hirasaki
Kaare Høeg
James F. Jackson
David W. Johnson, Jr.
Donald L. Johnson
Anita K. Jones
Paul G. Kaminski
Frank E. Karasz
Richard M. Karp
John G. Kassakian
Donald B. Keck
Robert H. Kingston
Alexander M. Klibanov
Mark H. Kryder
David J. Kuck
Gerald L. Kulcinski
H. T. Kung
Richard T. Lahey, Jr.
Leslie B. Lamport
Robert Samuel Langer
Richard C. Larson

W. John Lee
Sidney Leibovich
Norman N. Li
Robert H. Liebeck
Robert W. MacCormack
Alexander MacLachlan
Thomas L. Magnanti
Robert C. Marini
Karl E. Martersteck
William C. Maurer
Eugene R. McGrath
James C. McGroddy
David G. Messerschmitt
Jan D. Miller
Keith K. Millheim
L. David Montague
Manfred Morari
William B. Morgan
Norbert R. Morgenstern
Van C. Mow
Richard S. Muller
Earll M. Murman
Venkatesh Narayanamurti
John Neerhout, Jr.
Stuart O. Nelson
Shlomo P. Neuman
Deborah J. Nightingale
Tak H. Ning
Robert M. Nowak
John H. Nuckolls
James G. O'Connor
Thomas D. O'Rourke
Bradford W. Parkinson
David A. Patterson
Irene C. Peden
Stewart D. Personick
Arun G. Phadke
William F. Powers
Richard B. Priory
Edwin P. Przybylowicz
Robert A. Pucel
W. Harmon Ray
Ronald L. Rivest

Larry A. Roesner
Jose M. Roessel
Murray W. Rosenthal
William B. Rouse
Gavriel Salvendy
Maxine L. Savitz
Ronald W. Schafer
Gabriel Schmergel
Jerome S. Schultz
Robert J. Schultz
Lyle H. Schwartz
Mischa Schwartz
Norman R. Scott
Charles L. Seitz
Robert J. Serafin
Frank Stan Settles
Robert R. Shannon
Jeffrey J. Siirola
Arnold H. Silver
Richard Wayne Skaggs
Helmut E. Sobieczky
George S. Springer
Raymond S. Stata
Richard J. Stegemeier
Gunter Stein
Robert Stratton
Yasuharu Suematsu
John H. Sununu
James M. Symons
Zehev Tadmor
Richard A. Tapia
Robert L. Taylor
Rao R. Tummala
G. Keith Turnbull
Gottfried Ungerboeck
C. Michael Walton
C. Grant Willson
Savio L-Y. Woo
Loring A. Wyllie, Jr.
Henry T. Yang
A. Thomas Young
John A. Young
William D. Young

NAE Anniversary Members

25 TO 29 YEARS

Members whose names are in boldface type are celebrating their 25th year.

Hadi Abu-Akeel
Leonard M. Adleman
Ronald J. Adrian
Alice M. Agogino
Alfred V. Aho
Kyle T. Alfriend
Hiroyuki Aoyama
Karl J. Astrom
Marc A. Auslander
Khalid Aziz
Arthur B. Baggeroer
Ruzena K. Bajcsy
Benton F. Baugh
Zdenek P. Bazant
Mark G. Benz
Robert E. Bixby
Jack L. Blumenthal
Alfred Blumstein
Lillian C. Borrone
John F Brady
Corale L. Brierley
James P. Brill
John H. Bruning
Barry C. Buckland
Thomas F. Buding
Jack E. Buffington
Dennis M. Bushnell
Federico Capasso
James E. Carnes
Vinton G. Cerf
Donald D. Chamberlin
K. Mani Chandry
Edmund Y.S. Chao
Pallab K. Chatterjee
Wai-Fah Chen
Shu Chien
KunMo Chung
David D. Clark
James H. Clark
David R. Clarke
Vance D. Coffman
Thomas M. Cook
Michael L. Corradini
Edward F. Crawley
David E. Crow
Mark E. Davis
Earnest W. Deavenport, Jr.
Thomas B. Deen
James W. Demmel
David J. DeWitt

Nicholas M. Donofrio
James A. Dumesic
Joel S. Engel
Alan H. Epstein
Leonard Evans
Paul A. Fleury
David W. Fowler
Richard H. Frenkiel
Gilbert F. Froment
Henry Fuchs
William H. Gates, III
Arthur M. Geoffrion
Louis V. Gerstner, Jr.
Don Peyton Giddens
Eduardo D. Glandt
Martin E. Glicksman
Daniel S. Goldin
Arthur L. Goldstein
Edward M. Greitzer
Martin Groetschel
Charles T. Haan
Gene H. Haertling
Edward E. Hagenlocker
Bruce Hajek
Kenneth N. Han
Patrick M. Hanrahan
Milton E. Harr
Wesley L. Harris
Gerald Thomas Heydt
John B. Heywood
Julia S. Higgins
J. Brent Hiskey
Chih-Ming Ho
George M. Hornberger
Hans G. Hornung
Barry M. Horowitz
Ronald A. Howard
Chenming Hu
Thomas J.R. Hughes
Jennie S. Hwang
Salim M. Ibrahim
Donald L Iglehart
Frank P. Incropera
Jeremy Isenberg
Akira Ishimaru
Iwao Iwasaki
Antony Jameson
David Japikse
Nikil S. Jayant
Sungho Jin

William L. Johnson
Andre G. Journal
William N. Joy
William H. Joyce
John L. Junkins
Dean Kamen
Takeo Kanade
William E. Kastenberg
Michael C. Kavanaugh
Alan C. Kay
Hossein Kazemi
Ralph L. Keeney
Wolfgang G. Knauss
Petar V. Kokotovic
Frederick J. Krambeck
Kent Kresa
Michael R. Ladisch
Bruce M. Lake
Larry W. Lake
Carl G. Langner
S. Edward Law
George D. Leal
Margaret A. LeMone
Matthys P. Levy
William C. Lindsey
Richard J. Lipton
Jack E. Little
Nicky C.C. Lu
Richard G. Luthy
William J. MacKnight
Christopher L. Magee
William F. Marcuson, III
James J. Markowsky
William L. Maxwell
Dan Maydan
Eugene S. Meieran
Robert M. Metcalfe
Jarold A. Meyer
Martin M. Mikulas, Jr.
James J. Mikulski
Joseph A. Miller, Jr.
Warren F. Miller, Jr.
Parviz Moin
Cleve B. Moler
Francis Charles Moon
Duncan T. Moore
Alan R. Mulally
Donald W. Murphy
Marshall I. Nathan
Andrew R. Neureuther

John S. Newman
Jimmy K. Omura
Thomas J. O'Neil
Julio M. Ottino
Louis C. Parrillo
M. Elisabeth Paté-Cornell
Judea Pearl
R. Fabian W. Pease
Timothy J. Pedley
Nelson L. de Sousa Pinto
Franz F. Pischinger
James D. Plummer
William T. Plummer
Gary A. Pope
Michael P. Ramage
H. Donald Ratliff
Lee R. Raymond
Elsa Reichmanis
Jean-Michel M. Rendu
Bernard I. Robertson
Kenneth M. Rosen
John M. Rowell
Manfred Rühle
B. Don Russell, Jr.
Jesse E. Russell
Jerome H. Saltzer
John M. Samuels, Jr.
Isaac C. Sanchez
Stanley I. Sandler
Linda S. Sanford
Alberto L. Sangiovanni-
Vincentelli
George W. Scherer
Jerald L. Schnoor
Henry G. Schwartz, Jr.
Donald R. Scifres
Frieder Seible
Patricia G. Selinger
Freeman D. Shepherd
Thomas B. Sheridan
Martin B. Sherwin
Richard P. Simmons
Charles Simonyi
Jack M. Sipress
Neil J.A. Sloane
Larry L. Smarr
Vernon L. Snoeyink
Karl J. Springer
Robert F. Sproull
Katepalli R. Sreenivasan

NAE Anniversary Members

25 TO 29 YEARS *(continued)*

Members whose names are in boldface type are celebrating their 25th year.

Rangaswamy Srinivasan

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John P. Stenbit

George Stephanopoulos

Kenneth H. Stokoe, II

Lawrence D. Stone

Michael R. Stonebraker

James R. Swartz

Frank E. Talke

George J. Tamaro
Man-Chung Tang

Kathleen C. Taylor

Lewis M. Terman

Theofanis G. Theofanous

Robert V. Thomann

Matthew V. Tirrell

Gary L. Tooker

James A. Trainham, III

Charles R. Trimble

R. Rhodes Trussell

Stephen Wei-Lun Tsai

Richard L. Tucker

Robert C. Turnbull

Donald R. Uhlmann

Fawwaz Ulaby

Andries van Dam

Robert H. Wagoner

Jack L. Walker

Steven J. Wallach

Jaw-Kai Wang

John T. Watson

William C. Webster

Daniel Weihs

Sheldon Weinbaum

W. Henry Weinberg

James E. West

Jack H. Westbrook

Mary F. Wheeler

Ward Whitt

H. Kumar Wickramasinghe

Bernard Widrow

Peter G. Wilhelm

Kensall D. Wise

Margaret H. Wright

Ben T. Zinn