2025 FELLOWS

FOURTEENTH EDITION

NATIONAL ACADEMY OF INVENTORS

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ABOUT THE NAI FELLOWS PROGRAM

The NAI Fellow program has 2,253 Fellows worldwide representing more than 300 prestigious universities and governmental and non-profit research institutes. Collectively, the Fellows hold more than 86,000 issued U.S. patents, which have generated over 20,000 licensed technologies, 4,000 companies and created an estimated over 1.4 million jobs. In addition, over an estimated $3.8 trillion in revenue has been generated based on NAI Fellow discoveries.

NAI FELLOWSHIP REQUIREMENTS

- Nominees should have made outstanding contributions to innovation in areas such as patents and licensing, innovative discovery and technology, significant impact on society and support and enhancement of innovation
- Nominees must be a named inventor on patent(s) issued by the United States Patent and Trademark Office
- Nominees must be affiliated with an academic organization, e.g., university, college, non-profit research institute or government research agency
- Nominees do not have to be current members of nor affiliated with an NAI Member Institution (recommended)
- All U.S. and non-U.S. citizens are eligible for nomination
- Deceased nominees are not eligible

Self-nomination, team submissions and nominations submitted by relatives are not eligible.

Nominations open May – July annually

Find more information at https://academyofinventors.org/about-the-nai-fellows-program/

NAI

NATIONAL ACADEMY OF INVENTORS

United States Patent and Trademark Office

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

April 14, 2025

Dear Colleagues,

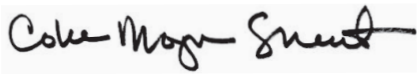
On behalf of the United States Patent and Trademark Office (USPTO), it is my pleasure to congratulate the National Academy of Inventors (NAI) 2024 class of fellows. We are honored to recognize the 170 innovators who are receiving the highest professional distinction awarded to academic inventors.

These academic inventors have demonstrated a prolific spirit of innovation, and their inventions have made a tangible impact on the quality of life, economic development, and welfare of our society.

We also applaud the NAI's efforts to recognize academic inventors with U.S. patents, enhance the visibility of academic technology and innovation, and encourage the disclosure of intellectual property.

Again, congratulations to the 2024 NAI Fellows for their outstanding accomplishments and advancement of innovation for the United States.

Sincerely,



Coke Stewart
Acting Undersecretary of commerce for Intellectual Property and Acting Director of the United States Patent and Trademark Office

P.O. Box 1450, Alexandria, VA 22313-1450 • www.uspto.gov

United States
of America

Congressional Record

PROCEEDINGS AND DEBATES OF THE 119th CONGRESS, FIRST SESSION

House of Representatives

Wednesday, February 11, 2026

Mr. Speaker, I rise today to honor the 185 inventors who will be inducted as the 2025 Fellows of the National Academy of Inventors (NAI). An induction ceremony will take place June 4th, 2026, in Los Angeles, California to celebrate these distinguished inventors and their incredible accomplishments. The ceremony will be presided over by Dr. Paul R. Sanberg, FNAI. To be named as a Fellow, these individuals were nominated by their peers and underwent a review process by the NAI Selection Committee, which ultimately deemed their innovations as making a significant impact on the quality of life, economic development and the welfare of their communities, the residents of Florida and the United States.

The NAI Fellow program has 2,253 Fellows worldwide representing more than 300 prestigious universities and governmental and non-profit research institutes. Collectively, the Fellows hold more than 86,000 issued U.S. patents, which have generated over 20,000 licensed technologies, 4,000 companies and created more than 1.4 million jobs. In addition, over $3.8 trillion in revenue has been generated based on NAI Fellow discoveries.

Among NAI fellows, there are more than 170 presidents and senior leaders of research universities and nonprofit research institutes, over 796 members of the National Academies of Sciences, Engineering and Medicine, about 60 inductees of the National Inventors Hall of Fame, 76 recipients of the U.S. National Medal of Technology and Innovation and U.S. National Medal of Science, and 59 Nobel Laureates, among other awards and distinctions.

Founded by Dr. Paul R. Sanberg at the University of South Florida in 2010, the NAI's mission is to recognize and encourage inventors with patents issued from the U.S. Patent and Trademark Office, enhance the visibility of academic technology and innovation, encourage the disclosure of intellectual property, educate, and mentor innovative students and translate the inventions of its members to benefit Florida and communities all throughout the United States.

Mr. Speaker, on behalf of my neighbors in Tampa Bay and the citizens of Florida, I am proud to honor the 2025 Fellows of the National Academy of Inventors for this outstanding achievement.

We must commend these inventors for their invaluable contributions to society, which continually propel us forward. May their example inspire future generations to pursue their own paths of discovery and innovation, ensuring a bright and innovative future for us all.

The 2025 NAI Fellows Class includes: Reza Abdolvand, University of Central Florida; Gregory Abowd, Northeastern University; Anant Agarwal, The Ohio State University; Ali AL-Marzouqi, United Arab Emirates University; Mansoor Amiji, Northeastern University; Ana Claudia Arias, University of California, Berkeley; Aravind Asokan, Duke University; Gregory Auner, Wayne State University; Jennifer Avari Silva, Washington University in St. Louis; Ahmad Bahai, Massachusetts Institute of Technology; Hua "Kevin" Bai, The University of Tennessee, Knoxville; David Baker, University of Washington; Sathy Balu-iyer, University at Buffalo, The State University of New York; Dafna Bar-Sagi, NYU Langone Health; Matthew Barth, University of California, Riverside; Haim Bau, University of Pennsylvania; Magdy Bayoumi, University of Louisiana at Lafayette; Zdenek Bazant, Northwestern University; Rohit Bhargava, University of Illinois Urbana-Champaign; Suresh Bhargava, Royal Melbourne Institute of Technology; Stephan Biller, Purdue University; Christian Bréchot, University of South Florida; Igal Brener, Sandia National Laboratories; Robert Brown, Case Western Reserve University; J. Quincy Brown, Tulane University; Louis Brus, Columbia University; Carol Carter, Stony Brook University; Chan-Byoung Chae, Yonsei University; Krishnendu Chakrabarty, Arizona State University; Joseph Chang, Nanyang Technological University, Singapore; Goutam Chattopadhyay, California Institute of Technology & NASA Jet Propulsion Lab; Eugene Chen, Colorado State University; Ji-Xin Cheng, Boston University; Gari Clifford, Emory University; Gloria Coruzzi, New York University; Sheng Dai, Oak Ridge National Laboratory & University of Tennessee, Knoxville; James Dalton, Louisiana State University; Kapil Dandekar, Drexel University; Sylvia Daunert, University of Miami; David Deamer, University of California, Santa Cruz; André DeHon, University of Pennsylvania; Zhiqun (Daniel) Deng, Pacific Northwest National Laboratory; Tomas Díaz de la Rubia, The University of Arizona; Deepakraj Divan, Georgia Institute of Technology; Ravi Droopad, Texas State University; Tal Dvir, Tel Aviv University; Maher El-Kady, University of California, Los Angeles; Omolola Eniola-Adefeso, University of Illinois at Chicago; Hongyou Fan, Sandia National Laboratories; Shanhui Fan, Stanford University; Omar Farha, Northwestern University; Benny Freeman, The University of Texas at Austin; Tahir Ghani, University of California, Berkeley; Swaroop Ghosh, The Pennsylvania State University; Barney Graham, Morehouse School of Medicine; Rasim Guldiken, Oklahoma State University; Jay Guo, University of Michigan; Satyandra Gupta, University of Southern California; Vineet

Gupta, University of Texas Medical Branch; Hossam Haick, Technion - Israel Institute of Technology; Eva Harth, University of Houston; David Haussler, University of California, Santa Cruz; Donald Haynie, Centers for Disease Control; Abdelsalam Sumi Helal, University of Florida; Yehia Ibrahim, Pacific Northwest National Laboratory; Erick Iezzi, U.S. Naval Research Laboratory; Ehsan Jabbarzadeh, University of South Carolina; Yali Jia, Oregon Health & Science University; Eugene John, University of Texas at San Antonio; Darren Johnson, University of Oregon; Emil Jovanov, The University of Alabama in Huntsville; Tibor Juhasz, University of California, Irvine; Raghu Kalluri, The University of Texas MD Anderson Cancer Center; Dilhan M. Kalyon, Stevens Institute of Technology; Raghuraman Kannan, University of Missouri-Columbia; Mark Kelley, Indiana University; John Kellum, University of Pittsburgh; Michael Koeris, U.S. Department of War - Defense Advanced Research Projects Agency; Elisa Konofagou, Columbia University; Rosa Krajmalnik-Brown, Arizona State University; Florian Krammer, Icahn School of Medicine at Mount Sinai; Yue Kuo, Texas A&M University & National Yang Ming Chiao Tung University; Jih-Sheng "Jason" Lai, Virginia Tech; Carlito Lebrilla, University of California, Davis; Jean-Pierre Leburton, University of Illinois Urbana-Champaign; Jason Lewis, Memorial Sloan Kettering Cancer Center; Guoqiang Li, Louisiana State University; Jenshan Lin, National Science Foundation; Lih-Yuan Lin, University of Washington; Stuart Lipton, The Scripps Research Institute; Bin Liu, National University of Singapore; Jun O. Liu, Johns Hopkins University; Ping Liu, University of California, San Diego; Yan-Fei Liu, Queen's University; Leslie M. Loew, University of Connecticut; Boon Thau Loo, University of Pennsylvania; Dusan Losic, Adelaide University; Jian Lu, City University of Hong Kong; Na (Luna) Lu, Purdue University; Daniel Ludois, University of Wisconsin-Madison; Alan Luo, The Ohio State University; Barbara Lyons, Lawrence Technological University; Chris Malachowsky, NVIDIA & University of Florida; Heidi M. Mansour, Florida International University; H. Alan Mantooth, University of Arkansas; David Martin, University of Delaware; Prasant Mohapatra, University of South Florida; Yaakov Nahmias, The Hebrew University of Jerusalem; Arokia Nathan, University of Cambridge; Maiken Nedergaard, University of Rochester; Daniel Nelson, University of Maryland, College Park; Henry Nguyen, University of Missouri-Columbia; David Nolte, Purdue University; John O'Shea, National Institutes of Health; Subba Reddy Palli, University of Kentucky; Bernhard Palsson, University of California, San Diego; Dipanjan Pan, The Pennsylvania State University; Marios-Christos Papaefthymiou, University of California, Irvine; Nikolaos Papanikolopoulos, University of Minnesota; Chandrakant D. Patel, Hewlett-Packard & University of South Florida; Stacey Patterson, Florida State University; Sanjoy Paul, Rice University; Dehua Pei, The Ohio State University; Darryll J. Pines, University of Maryland, College Park; Kevin W. Plaxco, University of California, Santa Barbara; Marc Porter, The University of Utah; George Prendergast, Lankenau Institute for Medical Research; Shashank Priya, University of Minnesota; Eric Prossnitz, The University of New Mexico; Alfredo Quinones-Hinojosa, Mayo Clinic; Srinivasa Raghavan, University of Maryland, College Park; Barry Rand, Princeton University; Arijit Raychowdhury, Georgia Institute of Technology; Jochen Reiser, University of Texas Medical Branch; Shunlin Ren, Virginia Commonwealth University; C. Patrick Reynolds, Texas Tech University Health Sciences Center; R. Michael Roe, North Carolina State University; Steven Rosenberg, National Institutes of Health; Todd Rosengart, Baylor College of Medicine; Joe Ruscito, Medical University of South Carolina; John Ruter, University of Georgia; Alan Saltiel, University of California, San Diego; Paul Santerre, University of Toronto; Marios Savvides, Carnegie Mellon University; Patrick Schnable, Iowa State University; Mark Schoenfisch, The University of North Carolina at Chapel Hill; John Schroeder, Texas Tech University; Mathias Schubert, University of Nebraska-Lincoln; JamesSchwob, Tufts University; Mohamed Seleem, Virginia Tech; Mark Sheplak, University of Florida; James Simon, Rutgers, The State University of New Jersey; Dennis Slamon, University of California, Los Angeles; Barbara Slusher, Johns Hopkins University; J. Cory Smart, Georgetown University; Stuart Smith, The University of North Carolina at Charlotte; Gurindar Sohi, University of Wisconsin-Madison; Stephen Soper, University of Kansas; Timothy A. Springer, Harvard University; Mircea Stan, University of Virginia; Hung-Jue Sue, Texas A&M University; Shang-Hua Teng, University of Southern California; Kevin J. Tracey, The Feinstein Institutes for Medical Research; Philip R. Troyk, Illinois Institute of Technology; Chad A. Ulven, North Dakota State University; Kripa K. Varanasi, Massachusetts Institute of Technology; Jesse Wainright, Case Western Reserve University; Andrew Wang, The University of Texas Southwestern Medical Center; Yan Wang, Worcester Polytechnic Institute; Adam Wax, Duke University; Rob Webster, Vanderbilt University; John Weidner, University of Cincinnati; David C. Weindorf, Georgia Southern University; Muthu B.J. Wijesundara, The University of Texas at Arlington; Tien Yin Wong, Tsinghua University; Tzong-Lin Wu, National Taiwan University; Cheryl Xu, North Carolina State University; Yajun Yan, University of Georgia; Lan Yang, Washington University in St. Louis; Yasha Yi, University of Michigan; Richard Zare, Stanford University; Wen Zhang, New Jersey Institute of Technology; Otto Zhou, The University of North Carolina at Chapel Hill; Zi-Qiang Zhu, The Hong Kong Polytechnic University.

Sincerely,

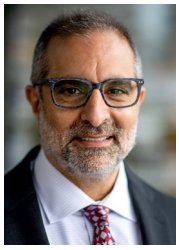
Kathy Castor

Kathy Castor
United States Representative
Florida – District 14

CLASS OF 2025 FELLOWS

Reza Abdolvand | *University of Central Florida*

For the pioneering work on MEMS resonator technologies, which has influenced commercial MEMS products worldwide
https://www.ece.ucf.edu/person/reza-abdolvand/



Gregory D. Abowd | *Northeastern University*

For his impact on the fields of healthcare, education, home automation, and mobile device interactions
https://coe.northeastern.edu/people/abowd-gregory/

Anant Kumar Agarwal | *The Ohio State University*

For his SiC innovations, power EVs, clean energy, creating jobs, and advancing global power electronics
https://ece.osu.edu/people/agarwal.334

Ali Al-Marzouqi | *United Arab Emirates University*

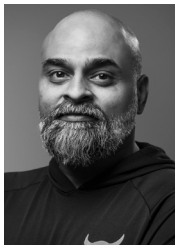
For the commercialization of one invention, and collaboration with a major industrial partner
https://www.uaeu.ac.ae/en/cgs/contacts.shtml

Mansoor M. Amiji | *Northeastern University*

For his pharmaceutical science expertise with over 3 decades of experience, 30+ patents, and 500+ publications
https://amijilab.sites.northeastern.edu/faculty-3/

Ana Claudia Arias | *University of California, Berkeley*

For her work in electrical engineering
https://www2.eecs.berkeley.edu/Faculty/Homepages/acarias.html



Aravind Asokan | *Duke University*

For the invention of gene therapy platform technologies to treat genetic disorders and contributions to genetic medicine
https://surgery.duke.edu/profile/aravind-asokan

Gregory Auner | *Wayne State University*

For his pioneering work on Raman spectroscopy, neural implants, and lab-on-a-chip work enables rapid disease detection and sensory restoration
https://wsusurgery.com/faculty/gregory-auner-phd/

Jennifer N. Avari Silva | *Washington University in St. Louis*

For her research on developing clinical applications addressing unmet needs in cardiac electrophysiology
https://pediatrics.wustl.edu/people/jennifer-n-silva-md/

Ahmad Bahai | *Massachusetts Institute of Technology*

For his significant influence on modern communication systems, energy management solutions, biosensing and MEMS technologies
https://www.eecs.mit.edu/people/ahmad-bahai/

Hua "Kevin"Bai | *The University of Tennessee, Knoxville*

For his research on the increase of power density/efficiency and reducing the cost of power, and electronics converters for transportation electrification
https://eecs.utk.edu/people/hua-kevin-bai/

David Baker | *University of Washington*

For inventing new proteins for today's challenges — neurodegeneration, plastic pollution, and more
https://www.ipd.uw.edu/david-baker/

Sathy Balu-Iyer | *University at Buffalo, The State University of New York*

For the implementation of innovative immune tolerance platforms for diverse clinical conditions; and training future innovators and entrepreneurs
https://pharmacy.buffalo.edu/content/pharmacy/faculty-staff/faculty/faculty-profile.html?ubit=svb

Dafna Bar-Sagi | *NYU Langone Health*

For her work in biochemistry
https://med.nyu.edu/faculty/dafna-bar-sagi

Matthew Barth | *University of California, Riverside*

For the pioneering work in sustainable transportation, with the goal of reducing GHG emissions & air pollution
https://intra.ece.ucr.edu/~barth/

Haim H. Bau | *University of Pennsylvania*

For the advancement of microfluidics and magnetohydrodynamic-based lab-on-chip systems, enabling point-of-need diagnostics
https://directory.seas.upenn.edu/haim-h-bau/

Magdy Bayoumi | *University of Louisiana at Lafayette*

For his work in electrical engineering
https://experts.louisiana.edu/expert/bayoumi-magdy

Zdeněk Bažant | *Northwestern University*

For his pioneering work in civil engineering
https://www.mccormick.northwestern.edu/research-faculty/directory/profiles/bazant-zdenek.html

Rohit Bhargava | *University of Illinois Urbana-Champaign*

For his practice of infrared chemical imaging and its use for digital histopathology
https://bioengineering.illinois.edu/people/rxb

Suresh Kumar Bhargava | *Royal Melbourne Institute of Technology*

Dr. Bhargava is a world-leading multidisciplinary inventor and entrepreneur advancing gold-based metallodrugs and translational innovation
https://www.rmit.edu.au/profiles/b/suresh-bhargava

Stephan Biller | *Purdue University*

For leadership in Digital Transformation of Manufacturing & Supply Chains through Digital Twins, Analytics, Industry 4.0
https://engineering.purdue.edu/IE/people/ptProfile?resource_id=273149

Christian Bréchot | *University of South Florida*

For his work in infectious disease
https://gvn.org/prof-christian-brechot/

Igal Brener | *Sandia National Laboratories*

For pioneering contributions to nanophotonics, Terahertz science and technology, fiber telecommunications, and metamaterials
https://metamaterials.duke.edu/igal-brener

J. Quincy Brown | *Tulane University*

For his work in biomedical engineering
https://sse.tulane.edu/j-quincy-brown

Robert William Brown | *Case Western Reserve University*

For his work and dedication to improving healthcare and saving lives
https://physics.case.edu/faculty/robert-brown/

Louis Brus | *Columbia University*

For his pioneering work which led to the discovery of semiconductor nanocrystals in colloidal solutions, known as quantum dots.

Carol A. Carter | *Stony Brook University*

For HIV/AIDS pioneering work on recombinant viral protease, capsid and discovery of Tsg101/ESCRT as host budding factor
https://renaissance.stonybrookmedicine.edu/mi/program/faculty/carter

Chan-Byoung Chae | *Yonsei University*

For pioneering energy-efficient MIMO and AI-powered wireless systems adopted in 4G/5G networks and commercial products
https://cbchae.yonsei.ac.kr/

Krishnendu Chakrabarty | *Arizona State University*

For innovations in design-for-test of integrated circuits and design of lab-on-chip systems for health-care diagnostics
https://search.asu.edu/profile/4669916

Joseph Chang | *Nanyang Technological University, Singapore*

For pioneering technology for consumer, biomedical and space electronics, including "Chang's Next Paradigm in New Space"
https://www.ntu.edu.sg/cics/faculty-directory

Guotam Chattopadhyay | *California Institute of Technology/ NASA Jet Propulsion Lab*

For innovations which have enabled advanced space sensing, security imaging, and next-generation communications

https://directory.caltech.edu/personnel/goutam

Eugene Y.-X. Chen | *Colorado State University*

For pioneering contributions to developing recyclable polymers and biodegradable plastics as well as catalytic methods

https://cse.umn.edu/chem/events/professor-eugene-y-x-chen

Ji-XinCheng | *Boston University*

For the invention and commercialization of advanced chemical microscopies that allow label-free imaging of molecules.

https://www.bu.edu/eng/profile/ji-xin-cheng/

Gari Clifford | *Emory University*

For his work in Innovative AI-driven diagnostics for global health, physiology and maternal/fetal health through open data and code.

https://med.emory.edu/directory/profile/?u=GDCLIFF

Gloria Coruzzi | *New York University*

For pioneering novel genetic circuits to enhance nitrogen use efficiency critical for crop production and sustainability

https://as.nyu.edu/faculty/gloria-coruzzi.html

Sheng Dai | *Oak Ridge National Laboratory /University of Tennessee, Knoxville*

For his innovations in translating fundamental materials science into widely licensed technologies for energy separation

https://chem.utk.edu/people/sheng-dai/

James Dalton | *Louisiana State University*

For the invention, chemical, and pharmacologic development of first-in-class selective androgene receptor modulators

https://www.tuscaloosanews.com/story/news/2025/11/05university-of-alabama-executive-vice-president-departs-for-lsu/87104201007/

Kapil Dandekar | *Drexel University*

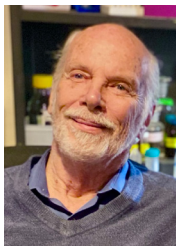
For pioneering wireless system innovations in reconfigurable antennas, software-defined radio, and biomedical sensing

https://drexel.edu/engineering/about/faculty-staff/D/dandekar-kapil/

Sylvia Daunert | *University of Miami*

For advancing the field of bionanotechnology for applications in medicine and the environment

https://med.miami.edu/faculty/sylvia-daunert-pharmd-ms-phd



David Deamer | *University of California, Santa Cruz*

For his innovative instruments, which now serve Oxford Nanopore Technology and their global market related to genomics

https://astrobiology.nasa.gov/nai/directory/deamer-david/index.html

Andre Dehon | *University of Pennsylvania*

For pioneering reconfigurable computing designs that have become the foundational architecture for modern AI accelerators

https://directory.seas.upenn.edu/andre-dehon/

Zhiqun (Daniel) Deng | *Pacific Northwest National Laboratory*

For innovative work in sensors, telemetry, renewable energy and energy harvesting

https://www.pnnl.gov/people/daniel-deng

Tomás Díaz de la Rubia | *The University of Arizona*

For advancing global energy and tech via fusion ignition, strain-engineered CMOS chips, patents, and university startups
https://president.arizona.edu/person/tomas-diaz-de-la-rubia

Deepakraj Divan | *Georgia Institute of Technology*

For his work in electrical engineering
https://ece.gatech.edu/directory/deepakraj-m-divan

Ravi Droopad | *Texas State University*

For the development of novel semiconducting materials and mentoring students in the art of innovation
https://faculty.txst.edu/profile/1922466

Tal Dvir | *Tel Aviv University*

For his advancement in regenerative medicine via 3D-printed organs, biomaterials, and bioelectronics from lab to clinic
https://english.tau.ac.il/profile/tdvir

Maher F. El-Kady | *University of California, Los Angeles*

For inventing and commercializing safer, high-performance graphene-based lithium-ion battery technologies
https://www.chemistry.ucla.edu/news/alumnus-dr-maher-el-kady-named-to-the-talented-twelve-by-cen/

Omolola Eniola-Adefeso | *University of Illinois at Chicago*

For pioneering theraparticles development for effective drugging inflammatory neutrophils in acute and chronic diseases
https://engineering.uic.edu/about/dean/

Hongyou Fan | *Sandia National Laboratories*

For pioneering colloidal processes that advanced nanoscale assembly with broad impacts on health, energy, and security

https://cbe.unm.edu/faculty-staff/faculty-profiles/hongyou-fan.html

Shanhui Fan | *Stanford University*

For the development of fundamental theory of nanophotonics, and its applications for information and energy technology

https://shanhui.people.stanford.edu/

Omar Farha | *Northwestern University*

For his innovations in synthesis, characterization, and commercialization of metal-organic frameworks for energy and sustainability

https://sites.northwestern.edu/omarkfarha/

Benny Freeman | *The University of Texas at Austin*

For invention of new membranes for gas and water purification and resource recovery

https://www.che.utexas.edu/people/faculty/freeman

Tahir Ghani | *University of California, Berkeley*

For his work in electrical engineering

https://www2.eecs.berkeley.edu/Faculty/Lists/EE/visiting.html

Swaroop Ghosh | *The Pennsylvania State University*

For his work in electrical engineering

https://www.eecs.psu.edu/departments/directory-detail-g.aspx?q=szg212

Barney S. Graham | *Morehouse School of Medicine*

For developing vaccines for RSV and SARS-CoV-2 and proof-of-concept for structure-based antigen design and mRNA delivery
https://www.msm.edu/about_us/FacultyDirectory/MicrobiologyBiochemistryImmunology/BarneyGraham/index.php

Rasim Guldiken | *Oklahoma State University*

For seminal contributions to acoustics, microfluidics and engineering education research
https://ceat.okstate.edu/mae/faculty-staff/faculty-bios/rasim-guldiken.html

L. Jay Guo | *University of Michigan*

For his contribution & translation of Nanoimprint, flexible TCE, structural colors, optical generation & detection of ultrasound
https://lsa.umich.edu/appliedphysics/people/faculty/guo.html

Satyandra Gupta | *University of Southern California*

For the development of smart robotic cells for high-mix manufacturing applications
https://viterbi.usc.edu/directory/faculty/Gupta/Satyandra

Vineet Gupta | *University of Texas Medical Branch*

For his work in pioneered integrin allosteric agonists for therapy & advanced kidney drug discovery with novel assays
https://www.utmb.edu/internalmedicine/divisions/nephrology/our-team/faculty/vineet-gupta

Hossam Haick | *Technion-Israel Institute of Technology*

For transforming diagnostics through AI-driven nanotechnology for rapid, non-invasive, and accessible disease detection
https://lnbd.technion.ac.il/team/prof-hossam-haick/

Eva Harth | *University of Houston*

For pioneering methods for degradable drug delivery systems and segmented polyolefins for use in batteries
https://uh.edu/nsm/chemistry/people/profiles/eva-harth/

David Haussler | *University of California, Santa Cruz*

For pioneering AI/ML methods in bioinformatics, computationally assembled first draft of the human genome sequence
https://stemcellgenomics.ucsc.edu/people/david-haussler/

Donald Haynie | *Center For Disease Control*

For his work in biomolecular engineering
https://patents.justia.com/inventor/donald-t-haynie

Abdelsalam (Sumi) Helal | *University of Florida*

For foundational patents enabling fast mobility for 4G/5G, low-cost handset testing, and self-integrating IoT architectures
https://cise.ufl.edu/2024/11/sumi-helal-ph-d-retires-after-25-years/

Yehia Ibrahim | *Pacific Northwest National Laboratory*

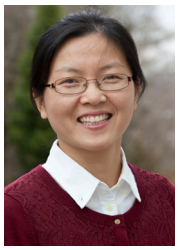
For developing ion mobility technologies for biomedical research, analyzing and understanding complex biochemical processes
https://www.pnnl.gov/people/yehia-ibrahim

Erick Iezzi | *U.S. Naval Research Laboratory*

For the invention of novel organosilicon molecules and their use in eco-friendly, high-performance polymer materials
https://www.nrl.navy.mil/Media/News/Article/3735351/nrl-recognizes-researchers-during-centennial-innovation-awards-ceremony-for-maj/

Ehsan Jabbarzadeh | *University of South Carolina*

For his academic entrepreneurship and investment in advancing biomaterials discoveries to innovative solutions in interventional medicine
https://sc.edu/study/colleges_schools/engineering_and_computing/faculty-staff/Jabbarzadeh.php



Yali Jia | *Oregon Health & Science University*

For her invention and commercialization of OCT Angiography that transformed retinal imaging and improved vision care globally
https://www.ohsu.edu/people/yali-jia-phd

Eugene John | *The University of Texas at San Antonio*

For his work in electrical engineering
https://ceid.utsa.edu/ejohn/

Darren W. Johnson | *University of Oregon*

For advancing the applications of supramolecular chemistry in ion/molecule recognition, materials science, and sensing
https://cas.uoregon.edu/directory/profiles/all/dwj

Emil Jovanov | *The University of Alabama in Huntsville*

For pioneering wearable body area networks and mobile health, patented healthcare innovations, and enabling digital health
https://www.uah.edu/eng/faculty-staff/emil-jovanov

Tibor Juhasz | *University of California, Irvine*

For introducing femtosecond laser eye surgery that has helped millions of patients to improve their vision
https://engineering.uci.edu/users/tibor-juhasz

Raghu Kalluri | *The University of Texas MD Anderson Cancer Center*

For developing novel therapeutics and drug delivery systems to treat organ fibrosis, cancer and other diseases
https://faculty.mdanderson.org/profiles/raghu_kalluri.html

Dilhan M. Kalyon | *Stevens Institute of Technology*

For enabled industrially scalable processing of complex and highly filled materials through rheology-based innovation
https://web.stevens.edu/facultyprofile/?id=8

Raghuraman Kannan | *University of Missouri-Columbia*

For his work in radiology
https://medicine.missouri.edu/faculty/raghuraman-kannan-phd

Mark R. Kelley | *Indiana University*

For his advancement of APE1/Ref-1 as a druggable target, and enabling innovative therapeutics for cancer and multiple indications
https://medicine.iu.edu/faculty/13975/kelley-mark

John A. Kellum | *University of Pittsburgh*

For his pioneering and innovation in the detection and treatment of acute kidney injury and sepsis
https://www.ccm.pitt.edu/people/john-kellum-md-mccm

Michael Koeris | *U.S. Department of War - Defense Advanced Research Projects Agency*

For the delivery of nucleic acids through nonviral (polymeric nanoparticles, DNA origami carriers) and bacteriophages approaches
https://www.darpa.mil/about/people/michael-koeris

Elisa Konofagou | *Columbia University*

For the pioneering of ultrasound technologies in cancer and cardiovascular imaging, neurotherapeutics and drug delivery
https://www.bme.columbia.edu/faculty/elisa-konofagou

Rosa Krajmalnik-Brown | *Arizona State University*

For her work in biomedical engineering
https://search.asu.edu/profile/866864

Florian Krammer | *Icahn School of Medicine at Mount Sinai*

For his development of broadly protective influenza virus vaccines and therapeutics
https://icahn.mssm.edu/profiles/florian-krammer

Yue Kuo | *Texas A&M University / National Yang Ming Chiao Tung University*

For the pioneering semiconductor research, technology leadership, and education
https://engineering.tamu.edu/chemical/profiles/ykuo.html

Jih-Sheng (Jason) Lai | *Virginia Tech*

For his work in electrical engineering
https://ece.vt.edu/people/profile/lai.html

Carlito B. Lebrilla | *University of California, Davis*

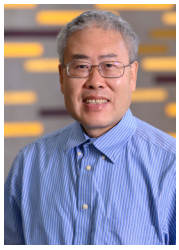
For elucidating glycan structures that enable the discovery of novel disease biomarkers and functional foods
https://chemistry.ucdavis.edu/people/carlito-lebrilla

Jean-Pierre Leburton | *University of Illinois Urbana-Champaign*

For pioneering Computational Nanotechnolgy, Semiconductor Biosensing and Quantum Devices
https://ece.illinois.edu/about/directory/faculty/jleburto

Jason S. Lewis | *Memorial Sloan Kettering Cancer Center / Sloan Kettering Institute*

For his inventions enabling earlier and more precise detection of cancer through radiopharmaceuticals
https://www.mskcc.org/research/ski/profile/jason-lewis

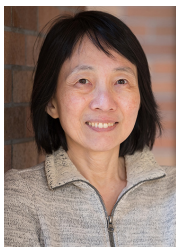


Guoqiang Li | *Louisiana State University*

For inventing shape memory and self-healing polymers and demonstrating their wide range applications
https://www.lsu.edu/eng/mie/people/faculty/li.php

Jenshan Lin | *National Science Foundation*

For the pioneering contributions of micro-radar sensor technology and wireless charging technology and their impacts
https://www.eng.ufl.edu/about/contact/college-directory/name/jenshan-lin/



Lih-Yuan Lin | *University of Washington*

For invention in MEMS optical switching technologies and innovation in solution-processed optoelectronics
https://people.ece.uw.edu/lin_lih/

Stuart A. Lipton | *The Scripps Research Institute*

For developed/characterized/patented FDA-approved drug memantine for Alzheimer's disease; discovered protein S-nitrosylation
https://www.scripps.edu/faculty/lipton/

Bin Liu | *National University of Singapore*

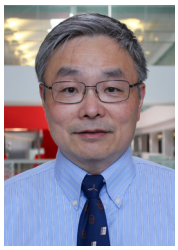
For pioneering the development of organic nanomaterials for energy and biomedical applications
https://cde.nus.edu.sg/chbe/staff/liu-bin/

Jun O. Liu | *Johns Hopkins University*

For creating programmable molecular glue platforms that unlock previously undruggable intracellular targets
https://profiles.hopkinsmedicine.org/provider/jun-liu/2777647

Ping Liu | *University of California, San Diego*

For the development of innovative materials for rechargeable batteries powering electric vehicles and the grid
https://cmrr.ucsd.edu/research/faculty-profiles/liu-ping.html



Yan-Fei Liu | *Queen's University*

For pioneering high-efficiency power converter topologies and digital control strategies for power electronic systems
https://engineering.queensu.ca/directory/faculty/yan-fei-liu.html

Leslie M. Loew | *University of Connecticut*

For contributions to biology
https://facultydirectory.uchc.edu/profile?profileId=Loew-Leslie

Boon Thau Loo | *University of Pennsylvania*

For leading foundational research in distributed systems and transformed it into impactful, patented commercial innovations
https://boonloo.cis.upenn.edu/

Dusan Losic | *Adelaide University*

For being a pioneering leader in graphene innovation and translation, advancing breakthrough technologies into real-world solutions
https://researchers.adelaide.edu.au/profile/dusan.losic

Jian Lu | *City University of Hong Kong*

For his expertise in advanced materials and its integration in biomedical, energy, and mechanical systems
https://www.cityu.edu.hk/mne/people/academic-staff/prof-lu-jian

Na (Luna) Lu | *Purdue University*

For developing IoT-integrated concrete sensors that allow roads/bridges to communicate their structural integrity
https://engineering.purdue.edu/CCE/People/ptProfile?resource_id=128278

Daniel C. Ludois | *University of Wisconsin-Madison*

For developing a multiphysics approach that enabled the first practical electrostatic rotating machines for industrial use
https://directory.engr.wisc.edu/ece/Faculty/Ludois_Daniel/

Alan A. Luo | *The Ohio State University*

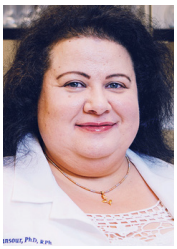
For outstanding innovations in lightweight alloys, manufacturing processes, and computational tools for industry
https://mse.osu.edu/people/luo.445

Barbara Lyons | *Lawrence Technological University*

For creating ergonomic, sustainable yard tools that reduce pain, improve accessibility, and transform yard work
https://www.linkedin.com/in/barbara-lyons1/

Chris Malachowsky | *NVIDIA / University of Florida*

For co-founding NVIDIA and his instrumental part in the development of CUDA and GPUs
https://www.eng.ufl.edu/about/new-buildingsmalachowsky-hall-for-data-science-information-technology/featured-alumni/



Heidi M. Mansour | *Florida International University*

For innovations and inventions in advanced therapeutic inhalation aerosol medicine and targeted drug delivery systems
https://cts.fiu.edu/people/mansour-heidi/

H. Alan Mantooth | *University of Arkansas*

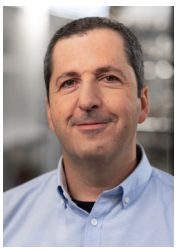
For his contributions which have had greater than $5bn impact on electronics design, CAD, and packaging
https://high-density-electronics.uark.edu/directory/alan-mantooth/

David C. Martin | *University of Delaware*

For the design and Characterization of Conjugated Polymers for Interfacing Electronic Devices with Biochemical Systems
https://mseg.udel.edu/people/martin/

Prasant Mohapatra | *University of South Florida*

For innovative solutions for cybersecurity and quality of services in wireless networks
https://www.usf.edu/provost/about/index.aspx



Yaakov Nahmias | *The Hebrew University of Jerusalem*

For pioneering bioengineer behind organ-on-chip, sensor-integration, cultivated meat, and medical devices
https://bioengineering.huji.ac.il/yaakov-nahmias

Arokia Nathan | *Darwin College University of Cambridge*

For shaping the future of flexible electronics through breakthroughs in devices, systems, and design tools

https://www.graphene.cam.ac.uk/people/an299%40eng.cam.ac.uk

Maiken Nedergaard | *University of Rochester*

For discovering the brain's glymphatic system, redefining waste clearance and revealing sleep as essential for brain health

https://www.urmc.rochester.edu/people/112359252-maiken-nedergaard

Daniel C. Nelson | *University of Maryland, College Park*

For helping establish bacteriophage endolysins as a new antimicrobial class with broad clinical and commercial impact

https://vetmed.umd.edu/people/faculty/dr-daniel-c-nelson/

Henry T. Nguyen | *University of Missouri-Columbia*

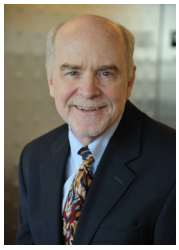
For pioneering the genome sequencing, molecular mapping, and genetic dissection of abiotic stress tolerance in crop plants

https://cafnr.missouri.edu/directory/henry-nguyen/

David D. Nolte | *Purdue University*

For the development of interferometric biosensors in health science

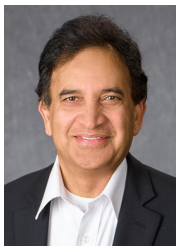
https://www.physics.purdue.edu/people/faculty/nolte.php



John J. O'Shea | *National Institutes of Health*

For cloning JAK3, establishing its role in signaling and immunodeficiency and participation in developing a new drugs

https://www.niams.nih.gov/about/directory/john-oshea-md



Subba Reddy Palli | *University of Kentucky*

For work in Agriculture and Life Sciences
https://entomology.mgcafe.uky.edu/research/pallilab

Bernhard Palsson | *University of California, San Diego*

For contributions to advance modern biomanufacturing with computational tools
https://sbrg.ucsd.edu/researchers/palsson

Dipanjan Pan | *The Pennsylvania State University*

For transforming nanomedicine into real-world diagnostics & therapeutics, advancing scalable, life-saving healthcare solution
https://www.matse.psu.edu/directory/dipanjan-pan

Marios C. Papaefthymiou | *University of California, Irvine*

For work in computer engineering
https://directory.uci.edu/people/marios

Nikolaos Papanikolopoulos | *University of Minnesota*

For his invention of numerous robots and algorithms that positively impact the human well-being
https://cse.umn.edu/mnri/nikolaos-papanikolopoulos

Chandrakant D. Patel | *Hewlett Packard (HP) / University of South Florida (CERC)*

For his foresight in the need to manage the energy consumption of the Internet, founding HP's Smart Data Center research program
https://www.usf.edu/teco-cerc/people/index.aspx

Stacey Patterson | *Florida State University*

For pioneering the ability to enhance expression of complete bacterial enzyme system in human cell lines to produce novel screening tools

https://www.research.fsu.edu/about/staff-directory/vp-office-staff/

Sanjoy Paul | *Rice University*

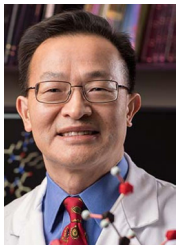
For the pioneering work in AI, streaming & biometrics leading to 96 US granted patents, driving $750M+ commercial impact

https://profiles.rice.edu/faculty/sanjoy-paul

Massoud Pedram | *University of Southern California*

For his work in computer engineering

https://viterbi.usc.edu/directory/faculty/Pedram/Massoud



Dehua Pei | *The Ohio State University*

For his work in chemistry

https://chemistry.osu.edu/people/pei.3

Darryll J. Pines | *University of Maryland, College Park*

For his work in mechanical engineering

https://president.umd.edu/administration/staff/pines

Kevin W. Plaxco | *University of California, Santa Barbara*

For the development of a general method of measuring. drugs, metabolites, and diagnostic proteins in the body in real time

https://www.chem.ucsb.edu/people/kevin-w-plaxco

Marc Porter | *The University of Utah*

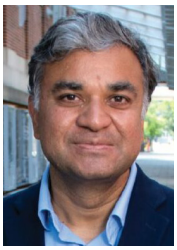
For his work which has driven pivotal advances in spectroscopy, sensing, surface science, and ultrasensitive detection

https://faculty.utah.edu/u0595010-MARC_D_PORTER/research/index.hml

George C. Prendergast | *Lankenau Institute for Medical Research (LIMR)*

For the discovery of new genes and inventions that target them for diagnosis, prognosis and drug discovery

https://limr.mainlinehealth.org/our-researchers/george-prendergast



Shashank Priya | *University of Minnesota*

For the invention of smart materials and mechanisms that advance energy harvesting, sensors, electronics, transduction and robotics

https://cse.umn.edu/cems/shashank-priya

Eric Prossnitz | *The University of New Mexico*

For pioneering work in drug discovery and understanding the structure and function of G protein-coupled receptors

https://hsc.unm.edu/directory/prossnitz-eric.html

Alfredo Quiñones-Hinojosa | *Mayo Clinic*

For lucidating critical mechanisms influencing the go/grow of brain cancer and finding new therapies to stop progression

https://www.mayoclinic.org/biographies/quinones-hinojosa-alfredo-m-d/bio-20238939

Srinivasa Raghavan | *University of Maryland, College Park*

For inventing gels that stop bleeding, electroadhesive gels, superabsorbent gel-sheets, and self-degrading gels

https://chbe.umd.edu/clark/faculty/333/Srinivasa-R-Raghavan

Barry Rand | *Princeton University*

For inventing gels that stop bleeding, electroadhesive gels, superabsorbent gel-sheets, and self-degrading gels

https://engineering.princeton.edu/faculty/barry-rand

Arijit Raychowdhury | *Georgia Institute of Technology*

For contributions to electrical engineering

https://ece.gatech.edu/directory/arijit-raychowdhury

Jochen Reiser | *University of Texas Medical Branch*

For pioneering discoveries in podocyte biology and glomerular disease mechanisms

https://www.utmb.edu/internalmedicine/divisions/nephrology/our-team/faculty/jochen-reiser

Shunlin Ren | *Virginia Commonwealth University*

For pioneering endogenous lipid-based epigenetic therapies, transforming liver and metabolic disease treatment

https://medschool.vcu.edu/about/portfolio/details/sren/

C. Patrick Reynolds | *Texas Tech University Health Sciences Center*

For his work in pediatric oncology

https://cancer.ttuhsc.edu/director.aspx

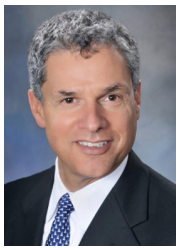
R. Michael Roe | *North Carolina State University*

For the innovation of a US EPA registration first, all-natural, insect and tick repellent; the first insecticide free mosquito bite proof clothing

https://cals.ncsu.edu/entomology-and-plant-pathology/people/mroe/

Steven A. Rosenberg | *National Institutes of Health*

For developing cancer immunotherapies
https://ccr.cancer.gov/staff-directory/steven-a-rosenberg



Todd K. Rosengart| *Baylor College of Medicine*

For his angiogenic gene therapy that offers the first major new therapy in over 30 years for treating advanced coronary disease
https://www.bcm.edu/people-search/todd-rosengart-29879

Joseph E. Ruscito| *Medical University of South Carolina*

For his innovation in medical treatments to help improve quality of life and care
https://theorg.com/org/medical-university-of-south-carolina/org-chart/joe-ruscito

John Ruter | *University of Georgia*

For advancing ornamental plant breeding, creating resilient, high-impact landscape cultivars adopted across the trade
https://hort.caes.uga.edu/people/faculty/john-ruter.html

Alan Saltiel | *University of California, San Diego*

For research into molecular mechanisms underlying diabetes, obesity and cancer
https://sites.ucsd.edu/saltiellab/people/

Paul Santerre | *University of Toronto*

For his work launching 5 commercial ventures & enabling health care products in cardiovascular/ musculoskeletal areas
https://bme.utoronto.ca/faculty-research/core-faculty/paul-santerre/

Marios Savvides | *Carnegie Mellon University*

For his work in electrical engineering
https://www.ece.cmu.edu/directory/bios/savvides-marios.html

Patrick S. Schnable | *Iowa State University*

For pioneering advances in plant genetics & genomics, enabling genetic discoveries and crop improvement
https://schnablelab.plantgenomics.iastate.edu/personnel/schnable_patrick.php

Mark H. Schoenfisch | *The University of North Carolina at Chapel Hill*

For the development of nitric oxide-releasing therapeutics
https://chem.unc.edu/faculty/schoenfisch-mark/

John L. Schroeder | *Texas Tech University*

For pioneering the application of high-resolution radar for measuring complex flow fields within wind plants
http://www.atmo.ttu.edu/schroeder/CV.pdf

Mathias Michael Schubert | *University of Nebraska-Lincoln*

For inventing the optical Hall effect and THz spin resonance ellipsometry to increase knowledge about semiconductors
https://engineering.unl.edu/person/mathias-schubert/

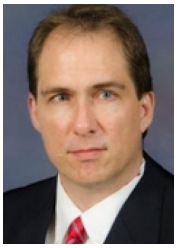
James Schwob | *Tufts University*

For his work in biology
https://medicine.tufts.edu/people/faculty/james-schwob

Mohamed Saleem | *Virginia Tech*

For pioneering antimicrobial drug discovery to combat multidrug-resistant pathogens impacting global health

https://vetmed.vt.edu/people/faculty/seleem-mohamed.html



Mark Sheplak | *University of Florida*

For his work in mechanical engineering

https://www.ece.ufl.edu/people/faculty/mark-sheplak/

James E. Simon | *Rutgers, The State University of New Jersey*

For his work in plant biology

https://plantbiology.rutgers.edu/faculty/simon/James-Simon.html

Dennis Slamon | *University of California, Los Angeles*

For his work in oncology

http://www.cancer.ucla.edu/research/find-become-a-member/meet-our-leadership/dennis-slamon-director-clinical-translational-research

Barbara S. Slusher | *Johns Hopkins University*

For bridging academia and industry to advance CNS drug discovery, translating basic science into impactful therapies

https://drugdiscovery.jhu.edu/about-us/people/barbara-slusher/

J.C. Smart | *Georgetown University*

For innovation in technology that provides a method for seamlessly and securely integrating knowledge systems at global scale

https://gufaculty360.georgetown.edu/s/contact/00336000014RjgWAAS/j-cory-smart

Stuart T. Smith | *The University of North Carolina at Charlotte*

For his work in high precision instruments and machines, as well as starting three manufacturing companies, five books, and training of 25 PhDs

https://mees.charlotte.edu/directory/stuart-t-smith/

Gurindar Sohi | *University of Wisconsin-Madison*

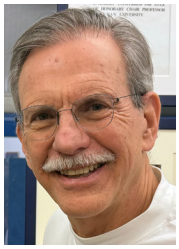
For establishing modern out-of-order execution and key microarchitectural techniques underlying billions of processors

https://directory.engr.wisc.edu/ece/Faculty/Sohi_Gurindar/

Steven Soper | *University of Kansas*

For developing innovative tools for the enrichment and analysis of the molecular cargo of liquid biopsies for cancer

https://distinguishedprofessors.ku.edu/people/steven-soper



Timothy A. Springer | *Harvard University*

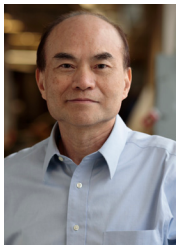
For discovering the first integrin family, and finding that immune cell recognition requires cell-recognition receptors

https://bcmp.hms.harvard.edu/faculty-staff/timothy-alan-springer

Mircea R. Stan | *University of Virginia*

For his work in pioneered energy-efficient VLSI circuits and architectures, temperature-aware low-power computing, and 3D integration

https://engineering.virginia.edu/faculty/mircea-r-stan



Hung-Jue Sue | *Texas A&M University*

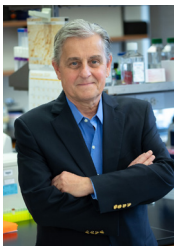
For improvements to scratch performance, toughening, and strengthening of polymers. Nanoparticle dispersion and assembly in polymers

https://engineering.tamu.edu/materials/profiles/sue-hung-jue.html

Shang-Hua Teng | *University of Southern California*

For his work in pioneered algorithms, theory bridging network sciences, game theory, and ML, shaping modern computational science

https://viterbi-web.usc.edu/~shanghua/



Kevin J. Tracey | *The Feinstein Institutes for Medical Research*

Discovery of the vagus nerves inflammatory reflex has translated into bioelectronic therapies for inflammatory diseases

https://feinstein.northwell.edu/institutes-researchers/our-researchers/kevin-j-tracey-md

Philip R. Troyk | *Illinois Institute of Technology*

For his work in biomedical engineering

https://www.iit.edu/directory/people/philip-troyk

Chad Ulven | *North Dakota State University*

For developing advanced composite materials for improved performance and efficiency in a variety of industry applications

https://www.ndsu.edu/mechanical-engineering/people

Kripa K. Varanasi | *Massachusetts Institute of Technology*

For advancing basic science into real-world impact across energy, life sciences, agriculture, water, consumer industries

https://meche.mit.edu/people/faculty/kripa@MIT.EDU

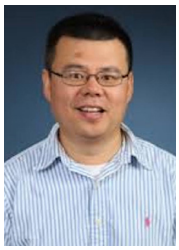
Jesse S. Wainright | *Case Western Reserve University*

For contributions to electrochemistry

https://engineering.case.edu/about/school-directory/jesse-wainright

Andrew Z. Wang | *The University of Texas Southwestern Medical Center*

For his advances in biomedical engineering to create novel disease treatments
https://profiles.utsouthwestern.edu/profile/207607/andrew-wang.html



Yan Wang | *Worcester Polytechnic Institute*

For the pioneering of Lithium ion battery recycling and solvent free electrode manufacturing
https://www.wpi.edu/people/faculty/yanwang

Adam Wax | *Duke University*

For developing biophotonics imaging methods for detection of diseases at the cellular level, including early cancer
https://bme.duke.edu/faculty/adam-wax

Robert Webster | *Vanderbilt University*

For the creation of novel surgical devices and systems to help doctors reduce suffering and save lives
https://engineering.vanderbilt.edu/bio/?pid=robert-webster

John W. Weidner | *University of Cincinnati*

For developing a thermochemical process and electrocatalysts for the large-scale production of hydrogen from water
https://researchdirectory.uc.edu/p/weidnejw

David C. Weindorf | *Georgia Southern University*

For evolutionary synthesis of optical and X-ray sensing for advanced soil and environmental quality assessment
https://scholars.georgiasouthern.edu/en/persons/david-weindorf

Muthu B.J. Wijesundara | *The University of Texas at Arlington*

For advancing technology for wound care, neurorehabilitation, and pressure injury prevention to enhance patient outcomes

https://www.uta.edu/academics/faculty/profile?user=muthuw

Tien Yin Wong | *Tsinghua University*

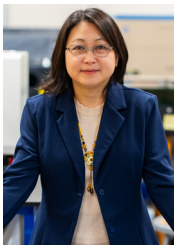
For his inventions which have significantly contributed to combating vision loss and major systematic diseases such as diabetes

https://www.tsinghua.edu.cn/en/info/1244/10741.htm

Tzong-Lin Wu | *National Taiwan University*

For the invention of noise suppression technologies to enhance the wireless communication quality

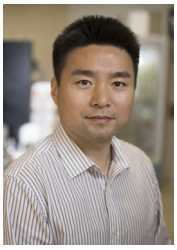
https://www.ee.ntu.edu.tw/bio1.php?id=680



Cheryl Xu | *North Carolina State University*

For pioneering AI-enabled smart manufacturing and multifunctional materials to accelerate discovery and industrial impacts

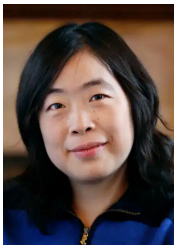
https://mae.ncsu.edu/people/cxu-research/



Yajun Yan | *University of Georgia*

For the development of microbial synthesis to enable green bio-manufacturing and support a more sustainable bio-economy

https://engineering.uga.edu/team_member/yajun-yan/



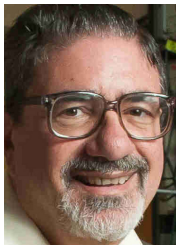
Lan Yang | *Washington University in St. Louis*

For her work in electrical engineering

https://physics.wustl.edu/people/lan-yang

Yasha (Alex) Yi | *University of Wisconsin-Milwaukee*

For significant contributions in intelligent and integrated photonics and optoelectronics
https://uwm.edu/engineering/directory/yi-alex-yasha/



Richard N. Zare | *Stanford University*

For inventing laser induced fluorescence (LIF) which is used in numerous different ways
https://chemistry.stanford.edu/people/richard-zare

Wen Zhang | *New Jersey Institute of Technology*

For uncovering nanobubble mechanisms and translating them into sustainable environmental and agricultural technologies
https://people.njit.edu/faculty/wzhang81

Otto Zhou | *The University of North Carolina at Chapel Hill*

For pioneering nanomaterial-based field emission x-ray and its applications in medical imaging and industrial inspection
https://unclineberger.org/directory/otto-zhou/

Zi-Qiang (Z.Q.) Zhu | *The Hong Kong Polytechnic University*

For pioneering advanced high efficiency electric drive systems for reducing energy consumption and greenhouse gas emissions
https://www.polyu.edu.hk/eee/people/academic-staff-and-teaching-staff/prof-zhu-ziqiang/?sc_lang=en

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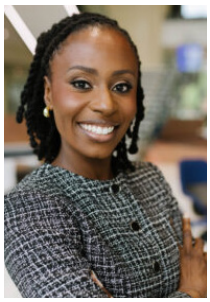

Mayowa Awe | *Executive Director, National Science and Technology Medals Foundation*

Dr. Mayowa Awe is the Executive Director of the National Science and Technology Medals Foundation, where she leads the organization's mission to build inclusive STEM communities. With a focus on supporting undergraduate college students and expanding opportunities for future scientists and engineers, she drives initiatives that inspire curiosity, confidence, and long-term engagement in STEM fields. Previously, as Senior Director of inSTEM at the NSTMF, Dr. Awe scaled a national mentorship network that has empowered hundreds of students to succeed in their academic and professional journeys. Dr. Awe earned her Ph.D. in Mathematics from the University of Texas at Arlington and remains deeply committed to mentoring the next generation of STEM leaders.

Karen J.L. Burg, Ph.D. | *Interim Chief Executive Officer, NextGA,; Harbor Lights Endowed Chair, Department of Small Animal Medicine and Surgery University of Georgia*

Honored with a 2022 U.S. Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring for her work with underrepresented groups to develop fully the Nation's human resources in Science, Technology, Engineering and Mathematics, Karen J.L. Burg is the interim Chief Executive Officer of NextGA, a National Science Foundation Engine-in-Development, and is the Harbor Lights Chair of Biomedical Research in the Department of Small Animal Medicine & Surgery and Professor of Chemical, Materials, & Biomedical Engineering at the University of Georgia. Burg is an internationally recognized biomaterials educator, inventor, and researcher for her work to inspire equitable innovation in biomedicine and biomedical education. Her body of published work initiated and elucidated critical processes and technologies that have led to the current state of commercial tissue fabrication. Her 3D tissue fabrication cultureware and methodology was the impetus for the launch of functional precision oncology company Kiyatec, Inc., which has demonstrated the utility of her technology in multiple clinical trials, evaluating patient-specific predictor tests for improved response to cancer therapies. Dr. Burg's research and innovation has inspired hundreds of mentees now working in industry, academia, and government; her research mentoring efforts are most recently visible in the National Institutes of Health's National Research Mentoring Network Launching Research course series, which she authored. Honors to Karen include the inaugural Swiss AO Research Prize, recognition as an MIT TR Young Innovator, an American Association for the Advancement of Science Fellow, an American Council on Education Fellow, a Biomedical Engineering Society Fellow, an American Institute for Medical & Biological Engineering Fellow, a National Academy of Inventors Fellow, a Presidential Early Career Awardee for Science & Engineering, an International Union of Societies for Biomaterials Science and Engineering Fellow, and an American Association for the Advancement of Science-Lemelson Invention Ambassador. A tireless innovator with passion for leadership, she has served as vice president for research at Kansas State University and the University of Georgia and as vice provost for research and innovation and dean of the graduate school at Clemson University.

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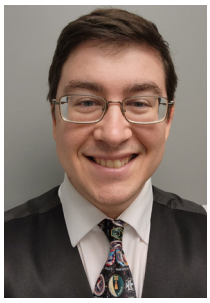
Denise Zannino Childree, Ph.D. | *Director of Communications & Strategic Engagement, Zannino Engineering, Inc.*

Denise Zannino Childree, Ph.D. is Director of Communications & Strategic Engagement at Zannino Engineering, Inc., where she advances business development through client-focused proposals and materials, strengthens brand visibility across events and digital platforms, and expands the firm's presence through community activities and engagement.

Denise previously spent a decade at the U.S. National Science Foundation, first as a AAAS Science & Technology Policy Fellow and later as a Science Policy and Communication Analyst in the Office of Legislative and Public Affairs. At NSF, she coordinated multi-stakeholder teams and directed high-profile initiatives. She received multiple NSF Awards for her leadership in communications and cross-agency initiatives.



Kevin C. Cooke, Ph.D. | *Director of Research Policy, Association of Public and Land-Grant Universities (APLU)*

Cooke works with the senior research officers of the APLU Council on Research to develop understanding and strategy in response to federal government policies and regulations affecting research and innovation programs and to share information and best practices for the administration of university research operations. Previously, Dr. Cooke was selected as an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow and worked at the National Science Foundation. He provided program analyses for the strategic visioning of the Established Program to Stimulate Competitive Research (EPSCoR), an NSF program designed to address the nation's geographic diversity of R&D spending. Dr. Cooke's academic experience includes researching the growth of massive, star-forming galaxies over cosmic time using images and spectra from ground- and space-based telescope facilities, such as the Hubble Space Telescope. He also has a passion for science communication, having worked in the U.S. Space and Rocket Center educating the public on the value of the space race and public investment in R&D. Dr. Cooke earned his Ph.D. in Astrophysical Sciences and Technology from the Rochester Institute of Technology.

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Steven Ferguson | *Special Advisor, NIH Office of Technology Transfer*

Steven M. Ferguson currently serves as Special Advisor at the NIH Office of Technology Transfer where he has worked since 1990. The biomedical technology transfer program at NIH is one of the world's largest with a portfolio that includes over 2,000 active licenses with aggregate sales greater than $10B per year that is based upon research that has also generated 48 FDA-approved drugs & vaccines.

A former chemist at the National Cancer Institute and biotech industry product manager, Mr. Ferguson holds Master's Degrees in Business Administration (George Washington University) and Chemistry (University of Cincinnati) as well as Bachelor's Degree in Chemistry (Case Western Reserve University).

A registered Patent Agent and a Certified Licensing Professional (CLP), Mr. Ferguson has served as faculty and Technology Transfer Department Chair at the Foundation for Advanced Education in the Sciences (FAES) Graduate School at NIH and the Biotechnology Industry Organization "BIO Boot Camp". He also serves as a business reviewer or advisory board member for the US-India Science & Technology Endowment Fund, Maryland Industrial Partnerships, Maryland Innovation Initiative, Virginia Bio-Life Science Gap Fund, US Department of Education Small Business Innovative Research (SBIR) program, the Journal of Commercial Biotechnology and the DOD Congressionally Directed Medical Research Program.

He has published extensively in the field of technology transfer and has also received the AUTM President's Award (AUTM Band), the AUTM Volunteer Service Award, the NIH Director's Award, the FAES Instruction Award, five "Deal of Distinction" awards and the Frank Barnes Mentoring Award from the Licensing Executive Society, six Federal Laboratory Consortium Awards, and twenty NIH Merit Awards in recognition of his service and activities in technology transfer.

Joy Goswami | *AUTM Chair and Director of Intellectual Property and Licensing at The Research Foundation for The State University of New York*

Joy Goswami is the Director of Intellectual Property and Licensing at The Research Foundation for The State University of New York (RF-SUNY) and currently serves as Chair of AUTM, the global association for academic technology transfer professionals.

With nearly two decades of experience across Johns Hopkins University, the University of Delaware, and now SUNY, Joy has built an internationally respected career in research commercialization, startup creation, and industry engagement. A USPTO-registered Patent Agent and Registered Technology Transfer Professional (RTTP), he has played a critical role in launching over 30 startup companies and advancing the commercialization of innovations spanning therapeutics, diagnostics, smart devices, AI-driven platforms, and sustainable materials. Joy has led successful partnerships with global companies such as Amazon, BASF, AstraZeneca, DuPont, Waters Corporation, and Siemens, catalyzing translational research and co-development ventures.

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Kate Hudson | *Deputy Vice President and Counsel for Government Relations and Public Policy, Association of American Universities*

Kate Hudson serves as the Deputy Vice President and Counsel for Policy and Federal Relations, her portfolio includes intellectual property, technology transfer, open and public access, data privacy, and copyright issues. In addition, she supports AAU's policy and federal relations work in areas that require legal expertise, such as tax issues related to research, labor and employment, research security policy, higher education Title IX issues, and other regulatory matters important to America's leading research universities. Kate also leads AAU's General Counsels (GC) constituent group and Intellectual Property & Tech Transfer Task Force. She is a former federal agency attorney, serving at the Government Accountability Office, the U.S. Office of Personnel Management, and the U.S. General Services Administration as senior counsel.

Robert S. Langer, Sc.D. | *National Medal of Technology and Innovation Recipient, National Medal of Science Recipient, National Inventors Hall of Fame Inductee, David H. Koch Institute, Professor, Massachusetts Institute of Technology*

Robert Langer is one of 9 Institute Professors at MIT; being an Institute Professor is MIT's highest honor. His articles have been cited over 460,000 times; his h-index of 332 is the highest of any engineer in history. His patents have licensed or sublicensed to over 400 companies; he is a cofounder of many companies including Moderna. He holds 44 honorary doctorates and has received over 220 awards, including both the United States National Medals of Science and Technology & Innovation (one of 3 living individuals to have received both honors), and has been elected to the National Academies of Medicine, Engineering, Sciences, and Inventors.

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Sir Cato T. Laurencin, M.D., Ph.D., K.C.S.L., FNAI | *University Professor, Albert and Wilda Van Dusen Distinguished Professor of Orthopaedic Surgery, Professor of Chemical and Biomolecular Engineering, Professor of Materials Science and Engineering, Professor of Biomedical Engineering | Chief Executive Officer, The Cato T. Laurencin Institute for Regenerative Engineering, The University of Connecticut*

Professor Sir Cato T. Laurencin, M.D., Ph.D., K.C.S.L. is the University Professor and Albert and Wilda Van Dusen Distinguished Endowed Professor of Orthopaedic Surgery, Professor of Chemical and Biomolecular Engineering, Professor of Materials Science and Engineering, and Professor of Biomedical Engineering at UConn. He is the CEO of The Cato T. Laurencin Institute for Regenerative Engineering, a cross-university institute created and named in his honor at the University of Connecticut and an NAI Board Member.

He earned his B.S.E. in Chemical Engineering from Princeton, his M.D., Magna Cum Laude, from the Harvard Medical School, and his Ph.D. in Biochemical Engineering/Biotechnology from M.I.T. Dr. Laurencin is the pioneer of the field of Regenerative Engineering. In receiving the Spingarn Medal he was named the world's foremost engineer-physician-scientist. Dr. Laurencin pioneered the novel use of polymeric biomaterials for treating musculoskeletal conditions. His work spans fundamental basic science involving polymeric materials all the way to clinical trials and use to treat clinical problems. His versatile use of biomaterials in this area has resulted in an array of products that have helped improve the human condition. In recognition of his breakthrough achievements, the American Institute of Chemical Engineers created the Cato T. Laurencin Regenerative Engineering Founder's Award.

Dr. Laurencin is the first surgeon in history elected to membership in the National Academy of Medicine, the National Academy of Engineering, the National Academy of Sciences and the National Academy of Inventors. He is the first person in history to receive both one of the oldest/highest awards of the National Academy of Medicine (the Walsh McDermott Medal) and the oldest/highest award of the National Academy of Engineering (the Simon Ramo Founder's Award). The American Association for the Advancement of Science awarded Dr. Laurencin the Philip Hauge Abelson Prize given 'for signal contributions to the advancement of science in the United States'. His achievements span all areas of science, engineering and medicine. He received the Priestley Medal (highest honor) of the American Chemical Society, the Founders Award (highest honor) of the American Institute of Chemical Engineers and the Dickson Prize in Medicine.

Dr. Laurencin was named Inventor of the Year by the Intellectual Property Owners Educational Foundation. He is the recipient of the National Medal of Technology and Innovation, America's highest honor for technological achievement, awarded by President Barack Obama in ceremonies at the White House.

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Andrew J. Maas, AUTM | *AUTM / Past Chair (2024)*

Andy is the Assistant Vice President – Technology Transfer on the University of Texas at Austin Discovery to Impact team. He has more than 20 years of experience in technology licensing and commercialization.

Andy's activities have taken him from an engineering startup where he built a company from two to 14 employees to academic roles in both university and research foundation settings.

Currently, Andy manages a team within the University of Texas Discovery to Impact supporting Intellectual Property Management, Licensing, Business Development, Collaborative Research, and Legal Strategies.

Prior to his role at UT Austin, Andy was the Associate Vice President for Research over the office Innovation and Ecosystem Development where he was responsible for all technology commercialization, small business support, incubation, acceleration, and SBIR/STTR activities of the LSU Flagship campus in Baton Rouge, Louisiana. At LSU, Andy was the Principal Investigator for a $160M NSF Engine award, Future Use of Energy in Louisiana (FUEL), brought together 65+ partners across the state and over 165 individuals during the ideation, planning, development and submission process. In addition to the $160M from the NSF, Louisiana Economic Development committed $67.5M to support the program.

Andy has been involved in the AUTM Valuation Committee as a Member since 2015 and the Chair from 2016 to 2020.

Arthur Molella, Director Emeritus | *Director Emeritus, Smithsonian Lemelson Center for the Study of Invention & Innovation*

Arthur P. Molella, Ph.D., was the founding director, now emeritus, of the Smithsonian Institution's Lemelson Center for the Study of Invention and Innovation at the National Museum of American History. He received his Ph.D. in the history of science from Cornell University and a Doctor of Science, honoris causa, from Westminster University, U.K (2005). At the National Museum of American History, he served variously as curator of electricity, chairman of the Department of History of Science and Technology, and assistant director for History. At Johns Hopkins University, he has served as Senior Lecturer, Dept. History of Science, and currently Lecturer M.A. in Museum Studies, On-Line, Advanced Academic Programs. He was head curator of the Smithsonian's Science in American Life exhibition, co-curator of the international exhibition, Nobel Voices. He has published and lectured widely on the history of science, invention, technology, and modern technological culture. His most recent books include Places of Invention (Smithsonian, 2015), World's Fairs on the Eve of War (Pittsburgh, 2015), World's Fairs in the Cold War (Pittsburgh, 2019). In addition to serving on the Executive Advisory Board of the National Academy of Inventors, he is on the board of the Florida Inventors Hall of Fame. He received the 2020 Leonardo da Vinci Medal of the Society for the History of Technology, the international society's highest award.

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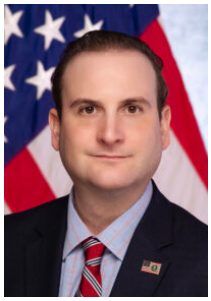
Rini Paiva | *Executive Vice President for Selection and Recognition, National Inventors Hall of Fame*

Rini Paiva is the Executive Vice President for Selection and Recognition, National Inventors Hall of Fame (NIHF). In this role, she oversees the annual Inductee Selection process for the NIHF, working with a wide-ranging group of experts in science, technology, engineering, intellectual property, and history to ultimately recognize the world's foremost patented inventors for their life-changing and innovative work. In addition, Paiva facilitates the Collegiate Inventors Competition (CIC), which brings recognition to the country's outstanding college students who create the technologies that shape the future. Both the NIHF and the CIC are dedicated to recognizing and fostering invention, creativity, and entrepreneurship. Paiva also provides oversight for the NIHF Museum in Alexandria, Virginia, which features the life-changing Inductees of the NIHF and demonstrates the power of intellectual property and innovation. Also integral to her work is encouraging NIHF Inductees to be involved in the organization's education programs, Camp Invention and Invention Project, so that they may serve as inspiration, encouragement, and examples to younger generations. With the National Inventors Hall of Fame since 1995, Paiva is an authority on the topic of U.S. invention.



Anthony Pugliese | *Director of the Office of Technology Commercialization and the Chief Commercialization Officer of the U.S. Department of Energy (DOE)*

Anthony Pugliese is the Director of the Office of Technology Commercialization and the Chief Commercialization Officer of the U.S. Department of Energy (DOE). In this role, he leads efforts to accelerate the commercialization of innovative energy technologies, strengthen public-private partnerships, and enhance technology transfer across the DOE's National Labs.

Before joining DOE, Mr. Pugliese held leadership roles in both the public and private sectors. In the private sector, he focused on energy, permitting, economic development, and national security, advising businesses and organizations on navigating regulatory landscapes and advancing strategic initiatives.

In the federal government, Mr. Pugliese previously served as the Chief of Staff at the Federal Energy Regulatory Commission (FERC). Along with overseeing the Commission's daily activities, he led efforts to improve interagency coordination. He negotiated key Memorandums of Understanding (MOUs) promoting efficiencies between several federal agencies, most notably the Pipeline and Hazardous Materials Safety Administration in the U.S. Department of Transportation and with the U.S. Department of the Interior.

Prior to his role at FERC, Mr. Pugliese served as the Senior White House Adviser at the U.S. Department of Transportation, where he played a key role in overseeing all aspects of the department, including the various modes and regulatory reform.

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Valencia Martin Wallace | *Acting Commissioner for Patents, Office of the Commissioner for Patents, USPTO*

Valencia Martin Wallace is the Acting Commissioner for Patents of the United States Patent and Trademark Office (USPTO). As Acting Commissioner for Patents, Ms. Martin Wallace manages and leads the Patents organization as its chief operating officer. She oversees the agency's 10,000 Patents employees, including more than 9,000 patent examiners responsible for fostering the country's innovation system by providing patent protections to inventors as stated in Article I, Section 8 of the U.S. Constitution.

Ms. Martin Wallace is a graduate of Howard University, where she earned a Bachelor of Science in Electrical Engineering, and The George Washington University School of Law, where she earned a Juris Doctorate. She has also received a certificate in Advanced Public Administration from Syracuse University's Maxwell School of Public Administration. Ms. Martin Wallace was awarded the Presidential Rank Award.

IN MEMORIAM

Honoring the lives of the prolific NAI Fellows we lost most recently

https://academyofinventors.org/nai-fellows/

Dean F. Martin
University of South Florida

Robert Hawes Bartlett
University of Michigan

Ray H. Baughman
The University of Texas at Dallas

Thomas J. Fogarty
Fogarty Institute for Innovation

Louis E. Brus
Columbia University

Jinlian Hu
City University of Hong Kong

Leon N. Cooper
Brown University

Craig Lehmann
Stony Brook University

Robert J. Linhardt
Rensselaer Polytechnic Institute

Philip S. Low
Purdue University

Brian A. Larkins
University of Nebraska-Lincoln

Bert W. O'Malley
Baylor College of Medicine

James C. Wyant
The University of Arizona

Victor L. Poirier
University of South Florida

Ann Palmenberg
University of Wisconsin-Madison

Ralph T. Yang
University of Michigan

David Baltimore
California Institute of Technology

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