



# 2023 FELLOWS

TWELFTH EDITION







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## ABOUT THE NAI FELLOWS PROGRAM

The NAI Fellow program has more than 1,890 Fellows worldwide representing more than 300 prestigious universities and governmental and non-profit research institutes. Collectively, the Fellows hold more than 63,000 issued U.S. patents, which have generated over 20,000 licensed technologies, 4,000 companies and created more than 1.2 million jobs. In addition, over \$3.2 trillion in revenue has been generated based on NAI Fellow discoveries.

Nominations open May–July annually.

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

### 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 (the median patent count among current NAI Fellows is 20)
- 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 [www.AcademyofInventors.com/Fellows](http://www.AcademyofInventors.com/Fellows)







# United States Patent and Trademark Office

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

May 30, 2024

Dear Colleagues,

On behalf of the United States Patent and Trademark Office (USPTO), America's Innovation Agency, I congratulate the National Academy of Inventors (NAI) newly elected 2023 class of Fellows. The USPTO is pleased to recognize these 162 transformative innovators who are receiving the highest professional distinction awarded to academic inventors. Their research and discoveries have revolutionized numerous fields and industries, and they are an inspiration to future innovators.

I also commend the NAI for continuing to celebrate and honor the incredible role patented technology, produced by colleges and universities, makes to our society, economy, and quality of life.

For over a decade, the USPTO's relationship with the NAI has grown with focus on serving under-resourced inventors, including women, minorities, veterans, and persons with disabilities. Our work together will continue to benefit all those who strive to advance science and the useful arts.

Again, congratulations to the 2023 NAI Fellows for their outstanding accomplishments and all they have contributed to the world.

Sincerely,

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



# Congressional Record

PROCEEDINGS AND DEBATES OF THE **118<sup>th</sup>** CONGRESS, SECOND SESSION

## House of Representatives

HON. KATHY CASTOR OF FLORIDA

### Extension of Remarks

### Honoring the 164 Inventors Inducted as the 2021 Fellows of the National Academy of Inventors Tuesday, June 11, 2024

Mr. Speaker, I rise today to honor the 162 inventors who will be inducted as the 2023 Fellows of the National Academy of Inventors (NAI). An induction ceremony will take place this June 18th in Raleigh, North Carolina to celebrate these inventors and their incredible accomplishments. The ceremony will be presided over by Deputy Under Secretary of Commerce for Intellectual Property and Deputy Director of the United States Patent and Trademark Office, Derrick Brent, and President of the National Academy of Inventors, Dr. Paul R. Sanberg. 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.

Collectively, this year's NAI Fellows hold over 4,500 patents. This remarkable group includes individuals from 118 research universities and non-profit research institutions from across the United States and the world. Today, the NAI maintains a strong membership of 1,898 Fellows; it is comprised of more than 170 senior leaders of research universities and nonprofit research institutes, over 700 members of the National Academies of Sciences, Engineering and Medicine, 59 inductees of the National Inventors Hall of Fame, 69 recipients of the U.S. National Medal of Technology and Innovation and U.S. National Medal of Science, 53 Nobel Laureates, 533

AAAS Fellows, 395 IEEE Fellows and 232 Fellows of the American Academy of Arts & Sciences, 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 2023 Fellows of the National Academy of Inventors for this outstanding achievement. We owe a debt of gratitude to 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 2023 NAI Fellows include:

Kenneth Adler, North Carolina State University, Rigoberto Advincula, Oak Ridge National Laboratory and University of Tennessee, Knoxville, Arvind Agarwal, Florida International University, Ken Anderson, Southern Illinois University, Daniel Anderson, Massachusetts Institute of Technology, Bahman Anvari, University of California, Riverside, Mehmet Arik,

Auburn University, David P. Arnold, University of Florida, Chieko Asakawa, Carnegie Mellon University, Farrokh Ayazi, Georgia Institute of Technology, Sanjoy Banerjee, City University of New York, Krystof Bankiewicz, The Ohio State University, Michel Barsoum, Drexel University, David Beebe, University of Wisconsin-Madison, Mark Benden, Texas A&M University, Danielle Benoit, University of Oregon, Magnus Berggren, Linköping University, Bryony Bonning, University of Central Florida, Robert Brown, Iowa State University, Eric Burger, Virginia Polytechnic Institute and State University, Diane Burgess, University of Connecticut, Yiran Chen, Duke University, Guang-Hong Chen, University of Wisconsin-Madison, Jung-Chih (J.-C.) Chiao, Southern Methodist University, Eric (P.Y.) Chiou, University of California, Los Angeles, Steve S. Chung, National Yang Ming Chiao Tung University, Daniel Ciobanu, University of Nebraska-Lincoln, Robert Cohen, New Jersey Institute of Technology, Henry Colecraft, Columbia University, Lynn Conway, University of Michigan, David Coy, Tulane University, David T. Curiel, Washington University in St. Louis, Sajal Michael Good, The University of Utah, David Grainger, The University of Utah, Timothy Grotjohn, Michigan State University, Joel Habener, Massachusetts General Hospital, Sang Han, The University of New Mexico, Jung Han, Yale University, John Hardy, Lancaster University, Balakrishna Haridas, Texas A&M University, Lambertus Hesselink, Stanford University, Douglas Hofmann,



NASA Jet Propulsion Laboratory, Bernard Horowitz, New York Blood Center, Hsing-Pang Hsieh, National Institutes of Health, S. Jack Hu, University of Georgia, Tony Hu, Tulane University, University of Science and Technology, Shanta Dhar, University of Miami, Yizhou Dong, Icahn School of Medicine at Mount Sinai, Vincent Donnelly, University of Houston, Xiangfeng Duan, University of California, Los Angeles, Christine Ehlig-Economides, University of Houston, Jason M. Eichenholz, University of Central Florida, Munir Eldesouki, King Abdulaziz City for Science and Technology (KACST), Maohong Fan, University of Wyoming and Georgia Institute of Technology, Carol Feghali-Bostwick, Medical University of South Carolina, Gerhard Fettweis, Technical University of Dresden, Wolfgang Fink, The University of Arizona, Dan Fleetwood, Vanderbilt University, Joseph Fox, University of Delaware, Paul Friedman, Mayo Clinic, Yun Fu, Northeastern University, Eric Fullerton, University of California, San Diego, Ashok Gadgil, University of California, Berkeley, Jinming Gao, UT Southwestern Medical Center, Charles Garris Jr., The George Washington University, Ana Jaklenec, Massachusetts Institute of Technology, James Janetka, Washington University in St. Louis, Mark Jaroszeski, University of South Florida, Shaoyi Jiang, Cornell University, Christopher W. Jones, Georgia Institute of Technology, David Kaplan, Tufts University, Yoshihiro Kawaoka, University of Wisconsin-Madison, Shana Kelley, Northwestern University, Kevin Kelly, Louisiana State University, Ali Khademhosseini, Terasaki Institute for Biomedical Innovation, Eun Sok Kim, University of Southern California, Jungsang Kim, Duke University, Nam Sung Kim, University of Illinois Urbana-Champaign, Nobuhiko P. Kobayashi, University of California, Santa Cruz, Dan Kohane, Harvard University, Dimitri Krainc, Northwestern University, Fred Kramer, Rutgers, The State University of New Jersey, Werner Kuhr, Texas Tech University, M. N. V. Ravi Kumar, The University of Alabama, Prashant Kumta, University of Pittsburgh, Sam TW Kwong, City University of Hong Kong,

Wilbur Lam, Emory University, Shulamit Levenberg, Technion Israel Institute of Technology, Guann-Pyng, Li, University of California, Irvine, Jun Liu, University of Washington, Yuk-Ming (Dennis) Lo, The Chinese University of Hong Kong, Bruce R. Locke, Florida State University, David Love, Purdue University, Douglas Loy, The University of Arizona, Helen Lu, Columbia University, Nicky Lu, National Taiwan University, Edward Maginn, University of Notre Dame, Joshua Makower, Stanford University, Prashant Mali, University of California, San Diego, Dinesh Manocha, University of Maryland, College Park, Arumugam Manthiram, The University of Texas at Austin, Hai-Quan Mao, Johns Hopkins University, Susan Margulies, National Science Foundation / Georgia Institute of Technology / Emory University, Ernesto E. Marinero, Purdue University, Marcela V. Maus, Massachusetts General Hospital, Robin L. McCarley, Virginia Polytechnic Institute and State University, Brian McClendon, University of Kansas, Morten Meldal, University of Copenhagen, R. John Milne, Clarkson University, Ian Mohr, New York University, Hooman Mohseni, Northwestern University, Joseph Moorman, University of Virginia, James Mulé, H. Lee Moffitt Cancer Center & Research Institute, Seemantini Nadkarni, Massachusetts General Hospital, Jagjit Nanda, Stanford University, Thuc-Quyen Nguyen, University of California, Santa Barbara, Svante Paabo, Max Planck Institute for Evolutionary Anthropology, Xiaochuan Pan, The University of Chicago, Ravindra Pandey, University at Buffalo, The State University of New York, Niketa A. Patel, University of South Florida, David Peyton, Portland State University, Neville Pinto, University of Cincinnati, Milos Popovic, Boston University, Zoya (Zorana) Popovic, University of Colorado Boulder, Cassandra Quave, Emory University, Milica Radisic, University of Toronto, P. Hemachandra Reddy, Texas Tech University Health Sciences Center, David Reinkensmeyer, University of California, Irvine, Debra Rolison, U.S. Naval Research Laboratory, Roger Ruan, University of Minnesota, Boris Rubinsky, University of California,

Berkeley, Omowunmi “Wunmi” Sadik, New Jersey Institute of Technology, José-Alain Sahel, University of Pittsburgh, Aliasger Salem, University of Iowa, Robert Savinell, Case Western Reserve University, Joseph Schlenoff, Florida State University, Holly Sellers, University of Georgia, Haval Shirwan, University of Missouri-Columbia, Jeffrey Siewerdsen, University of Texas MD Anderson Cancer Center, Patrick J. Sinko, Rutgers, The State University of New Jersey, Anil Sood, University of Texas MD Anderson Cancer Center, Srinivas Sridhar, Northeastern University, Jonathan Stamler, Case Western Reserve University, Karthikeyan Sundaresan, Georgia Institute of Technology, Hsing-Wen Sung, National Tsing Hua University, Michael Tweedle, The Ohio State University, Victor Velculescu, Johns Hopkins University, Guido Verbeck, Augusta University, Maria Vicent, Príncipe Felipe Research Center, Lai-Xi Wang, University of Maryland, College Park, Kevin Ward, University of Michigan, Jon Weidanz, The University of Texas at Arlington, Paul S. Weiss, University of California, Los Angeles, Christian Wolf, Georgetown University, Robert Woods, The University of Texas at Arlington, Tohru Yamada, University of Illinois Chicago, Masanobu Yamamoto, Purdue University, G. Craig Yencho, North Carolina State University, Qiming Zhang, The Pennsylvania State University, Wei Zhao, Stony Brook University, Chongwu Zhou, University of Southern California

Sincerely,



Kathy Castor  
United States Representative  
Florida - District 14

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## CLASS OF 2023 FELLOWS

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**Kenneth Adler** | *North Carolina State University*

Veterinary medicine

🌐 <https://cvm.ncsu.edu/directory/adler-kenneth/>



**Rigoberto Advincula** | *Oak Ridge National Laboratory and University of Tennessee, Knoxville*

Chemical Engineering

🌐 <https://cbe.utk.edu/people/rigoberto-advincula/>



**Arvind Agarwal** | *Florida International University*

Mechanical Engineering

🌐 <https://mme.fiu.edu/people/professors/arvind-agarwal>



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Biomedical Engineering

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Biomedical Engineering

🌐 <https://stemcells.wisc.edu/staff/beebe-david-j/>



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Engineering

🌐 <https://engineering.tamu.edu/industrial/profiles/benden-mark.html>



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Biomedical Engineering

🌐 [http://www.hajim.rochester.edu/bme/people/faculty/benoit\\_danielle/](http://www.hajim.rochester.edu/bme/people/faculty/benoit_danielle/)



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Electrochemistry

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Agriculture and Life Sciences

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**Mechanical Engineering**

🌐 <http://www.me.iastate.edu/directory/faculty/robert-c-brown/>



**Eric Burger** | *Virginia Polytechnic Institute and State University*

**Computer Science**

🌐 <https://vtx.vt.edu/articles/2022/05/eric-burger-cci.html>



**Diane Burgess** | *University of Connecticut*

**Pharmacology**

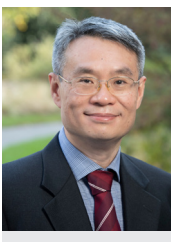
🌐 <https://pharmacy.uconn.edu/person/diane-burgess/>



**Guang-Hong Chen** | *University of Wisconsin-Madison*

**Medical Physics**

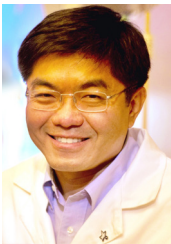
🌐 <https://www.medphysics.wisc.edu/blog/staff/chen-guanghong/>



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🌐 [https://www1.udel.edu/chem/fox/Fox\\_Group/JMF\\_Bio.html](https://www1.udel.edu/chem/fox/Fox_Group/JMF_Bio.html)



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Cardiology

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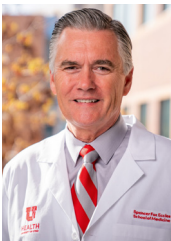
🌐 <https://labs.utsouthwestern.edu/gao-lab/people/meet-pi>



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🌐 [https://researchers.mgh.harvard.edu/profile?profile\\_id=3589750](https://researchers.mgh.harvard.edu/profile?profile_id=3589750)



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**John Hardy** | *Lancaster University*

Materials Science

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**Bernard Horowitz** | *New York Blood Center*

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🌐 <https://www.bioworld.com/articles/478810>



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🌐 <http://brsseminar.nhri.org.tw/userfiles/files/2015/04Speaker/S2A4.pdf>



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**Shaoyi Jiang** | *Cornell University*

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**Christopher W. Jones** | *Georgia Institute of Technology*

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**David Kaplan** | *Tufts University*

Biomedical Engineering

🌐 <https://engineering.tufts.edu/bme/people/faculty/david-kaplan>



**Yoshihiro Kawaoka** | *University of Wisconsin-Madison*

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🌐 <https://cmb.wisc.edu/staff/kawaoka-yoshihiro/>



**Shana Kelley** | *Northwestern University*

Biochemistry

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**Ali Khademhosseini** | *Terasaki Institute for Biomedical Innovation*

Biomedical Engineering

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**Eun Sok Kim** | *University of Southern California*

Electrical Engineering

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**Jungsang Kim** | *Duke University*

Physics

🌐 <https://pratt.duke.edu/faculty/jungsang-kim>



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Computer Engineering

🌐 <https://csl.illinois.edu/directory/faculty/nskim>



**Nobuhiko P. Kobayashi** | *University of California, Santa Cruz*

Electrical Engineering

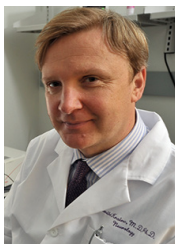
🌐 <https://citris-uc.org/people/person/professor-nobuhiko-p-kobayashi/>



**Dan Kohane** | *Harvard University*

Medicine

🌐 <https://www.childrenshospital.org/directory/daniel-kohane>



**Dimitri Krainc** | *Northwestern University*

Medicine

🌐 <https://www.feinberg.northwestern.edu/faculty-profiles/az/profile.html?xid=28300>





**Fred Kramer** | *Rutgers, The State University of New Jersey*

Health Sciences

🌐 <https://phri.njms.rutgers.edu/faculty-and-research/faculty/fred-russell-kramer/>



**Werner Kuhr** | *Texas Tech University*

Chemistry

🌐 <https://texastechrp.org/ttrp-staff/>



**M.N.V. Ravi Kumar** | *The University of Alabama*

Pharmacology

🌐 <https://scholars.uab.edu/16942-ravikumar-majeti>



**Prashant Kumta** | *University of Pittsburgh*

Mechanical Engineering

🌐 <https://www.engineering.pitt.edu/people/faculty/prashant-kumta/>



**Sam TW Kwong** | *City University of Hong Kong*

Computer Science

🌐 <https://scholars.cityu.edu.hk/en/persons/tak-wu-sam-kwong%28ecda1ded-9af7-4abf-8985-e0d1d-65be69f%29.html>



**Wilbur Lam** | *Emory University*

Oncology

🌐 <https://winshipcancer.emory.edu/bios/faculty/lam-wilbur.html>



**Shulamit Levenberg** | *Technion Israel Institute of Technology*

Biomedical Engineering

🌐 <https://ats.org/about/faces-of-the-technion/shulamit-levenberg/>



**Guann-Pyng Li** | *University of California, Irvine*

Electrical Engineering

🌐 <https://engineering.uci.edu/users/gp-li>



**Jun Liu** | *University of Washington*

Materials Science

🌐 <https://mse.washington.edu/facultyfinder/jun-liu>



**Yuk-Ming (Dennis) Lo** | *The Chinese University of Hong Kong*

Medicine

🌐 <https://www.lihs.cuhk.edu.hk/en-us/research/investigators/lo,yukmingdennis.aspx>



**Bruce R. Locke** | *Florida State University*

Chemical Engineering

🌐 <https://www.eng.famu.fsu.edu/cbe/people/locke>



**David Love** | *Purdue University*

Electrical Engineering

🌐 <https://engineering.purdue.edu/~djlove/>



**Douglas Loy** | *The University of Arizona*

Chemistry

🌐 <https://bio5.org/people/douglas-loy>



**Helen Lu** | *Columbia University*

Biomedical Engineering

🌐 [https://www.engineering.columbia.edu/faculty/helen-lu?https://cvn.columbia.edu/&gclid=EAIaIQobChMIvYKP8tHi-QIV1P\\_jBx2sqwOgEAAYASAAEgJekvD\\_BwE](https://www.engineering.columbia.edu/faculty/helen-lu?https://cvn.columbia.edu/&gclid=EAIaIQobChMIvYKP8tHi-QIV1P_jBx2sqwOgEAAYASAAEgJekvD_BwE)



**Nicky Lu** | *National Taiwan University*

Electrical Engineering



**Edward Maginn** | *University of Notre Dame*

Chemical Engineering

🌐 <https://engineering.nd.edu/faculty/edward-maginn/>



**Joshua Makower** | *Stanford University*

Biomedical Engineering

🌐 <https://med.stanford.edu/profiles/joshua-makower>



**Prashant Mali** | *University of California, San Diego*

Biomedical Engineering

🌐 <http://igm.ucsd.edu/faculty/profiles/mali.shtml>



**Dinesh Manocha** | *University of Maryland, College Park*

Computer Science

🌐 <https://www.cs.umd.edu/people/dmanocha>



**Arumugam Manthiram** | *The University of Texas at Austin*

Materials Science

🌐 <https://www.me.utexas.edu/people/faculty-directory/manthiram>



**Hai-Quan Mao** | *Johns Hopkins University*

Biomedical Engineering

🌐 <https://engineering.jhu.edu/materials/faculty/hai-quan-mao/>



**Susan Margulies** | *National Science Foundation/Georgia Institute of Technology/Emory University*

Biomedical Engineering

🌐 [https://nsf.gov/news/news\\_summ.jsp?cntn\\_id=303000&org=NSF](https://nsf.gov/news/news_summ.jsp?cntn_id=303000&org=NSF)



**Ernesto E. Marinero** | *Purdue University*

Materials Science

🌐 [https://engineering.purdue.edu/MSE/people/ptProfile?resource\\_id=69470](https://engineering.purdue.edu/MSE/people/ptProfile?resource_id=69470)



**Marcela V. Maus** | *Massachusetts General Hospital*

Oncology

🌐 <https://www.dfhcc.harvard.edu/insider/member-detail/member/marcela-v-maus-md-phd/>





**Robin L. McCarley** | *Virginia Polytechnic Institute and State University*

Chemistry

🌐 <https://fralinlifesci.vt.edu/About/rob-mccarley.html>



**Brian McClendon** | *University of Kansas*

Electrical Engineering

🌐 <https://eecs.ku.edu/brian-mcclendon>



**Morten Meldal** | *University of Copenhagen*

Chemistry

🌐 [https://research.ku.dk/search/result/?pure=en%2Fpersons%2Fmorten-peter-meldal\(1e2eefb3-1cc1-4626-8565-a83631fc05fd\).html](https://research.ku.dk/search/result/?pure=en%2Fpersons%2Fmorten-peter-meldal(1e2eefb3-1cc1-4626-8565-a83631fc05fd).html)



**R. John Milne** | *Clarkson University*

Engineering

🌐 <https://www.clarkson.edu/people/john-milne>



**Ian Mohr** | *New York University*

Medicine

🌐 <https://med.nyu.edu/faculty/ian-j-mohr>



**Hooman Mohseni** | *Northwestern University*

Electrical Engineering

🌐 <https://www.mccormick.northwestern.edu/research-faculty/directory/profiles/mohseni-hooman.html>



**J. Randall Moorman** | *University of Virginia*

Medicine

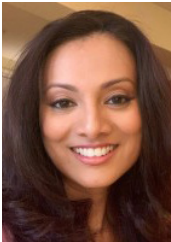
🌐 <https://med.virginia.edu/faculty/faculty-listing/rm3h/>



**James Mulé** | *H. Lee Moffitt Cancer Center & Research Institute*

Medicine

🌐 <https://www.moffitt.org/research-science/researchers/james-mule/>



**Seemantini Nadkarni** | *Massachusetts General Hospital*

Biomedical Engineering

🌐 <https://nadkarnilab.mgh.harvard.edu/research-team-2/dr-seemantini-nadkarni/>



**Jagjit Nanda** | *Stanford University*

Materials Science

🌐 <https://energy.stanford.edu/people/jagjit-nanda>



**Thuc-Quyen Nguyen** | *University of California, Santa Barbara*

Chemistry

🌐 <https://nguyen.chem.ucsb.edu/thuc-quyen-nguyen>



**Svante Paabo** | *Max Planck Institute for Evolutionary Anthropology*

Anthropology

🌐 <https://www.eva.mpg.de/genetics/staff/paabo/>



**Xiaochuan Pan** | *The University of Chicago*

Biomedical Engineering

🌐 <https://radiology.uchicago.edu/faculty/xiaochuan-pan-phd>



**Ravindra Pandey** | *University at Buffalo, The State University of New York*

Oncology

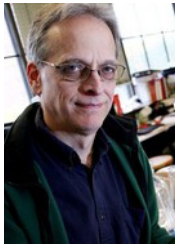
🌐 <https://www.roswellpark.org/ravindra-pandey>



**Niketa A. Patel** | *University of South Florida*

Medicine

🌐 <https://health.usf.edu/medicine/molecularmedicine/faculty/niketa>



**David Peyton** | *Portland State University*

Chemistry

🌐 <https://www.linkedin.com/in/david-peyton-5694165/>



**Neville Pinto** | *University of Cincinnati*

Chemical Engineering

🌐 <https://www.uc.edu/about/president.html>



**Milos Popovic** | *Boston University*

Electrical Engineering

🌐 <https://www.bu.edu/eng/profile/milos-popovic/>



**Zoya (Zorana) Popovic** | *University of Colorado Boulder*

Electrical Engineering

🌐 <https://www.colorado.edu/ecee/zoya-popovic>



**Cassandra Quave** | *Emory University*

Dermatology

🌐 <https://med.emory.edu/directory/profile/?u=CQUAVE>



**Milica Radisic** | *University of Toronto*

Biomedical Engineering

🌐 <https://bme.utoronto.ca/faculty-research/core-faculty/milica-radisic/>



**P. Hemachandra Reddy** | *Texas Tech University Health Sciences Center*

Medicine

🌐 <https://www.ttuhs.c.edu/medicine/internal/research/bios/reddy.aspx>



**David Reinkensmeyer** | *University of California, Irvine*

Mechanical Engineering

🌐 <https://engineering.uci.edu/users/david-reinkensmeyer>

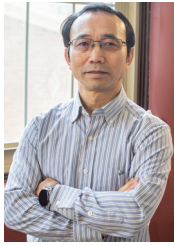


**Debra Rolison** | *U.S. Naval Research Laboratory*

Chemistry

🌐 <https://www.nrl.navy.mil/>





**Roger Ruan** | *University of Minnesota*

Agriculture and Life Sciences

🌐 <https://bbe.umn.edu/people/roger-ruan>



**Boris Rubinsky** | *University of California, Berkeley*

Biomedical Engineering

🌐 <https://me.berkeley.edu/people/boris-rubinsky/>



**Omowunmi "Wunmi" Sadik** | *New Jersey Institute of Technology*

Chemistry

🌐 <https://people.njit.edu/faculty/sadik>



**José-Alain Sahel** | *University of Pittsburgh*

Ophthalmology

🌐 <http://ophthalmology.pitt.edu/people/jos-alain-sahel-md>



**Aliasger Salem** | *University of Iowa*

Pharmacology

🌐 <https://pharmacy.uiowa.edu/directory/person/aliasger-k-salem>



**Robert Savinell** | *Case Western Reserve University*

Chemical Engineering

🌐 <https://csed9.cwru.edu/about/school-directory/bob-savinell>



**Joe Schlenoff** | *Florida State University*

Chemistry

🌐 <https://www.chem.fsu.edu/~schlen/>



**Holly Sellers** | *University of Georgia*

Veterinary Medicine

🌐 [https://vet.uga.edu/person/holly\\_sellers/](https://vet.uga.edu/person/holly_sellers/)



**Haval Shirwan** | *University of Missouri-Columbia*

Medicine

🌐 <https://medicine.missouri.edu/faculty/haval-shirwan-phd>



**Jeffrey Siewerdsen** | *University of Texas MD Anderson Cancer Center*

Medical Physics

🌐 <https://www.bme.jhu.edu/people/faculty/jeffrey-h-siewerdsen/>



**Patrick J. Sinko** | *Rutgers, The State University of New Jersey*

Biomedical Engineering

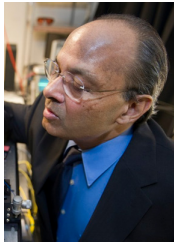
🌐 <https://pharmacy.rutgers.edu/directory/sinko-patrick/>



**Anil Sood** | *University of Texas MD Anderson Cancer Center*

Medicine

🌐 <https://gsbs.uth.edu/directory/profile?id=55fa569c-a930-4e6e-bda3-c16566ee0ae2>



**Srinivas Sridhar** | *Northeastern University*

Physics

🌐 <https://cos.northeastern.edu/people/srinivas-sridhar/>



**Jonathon Stamler** | *Case Western Reserve University*

Cardiology

🌐 <https://www.harringtondiscovery.org/about/meet-our-team/jonathan-s-stamler-md>



**Karthikeyan Sundaresan** | *Georgia Institute of Technology*

Electrical Engineering

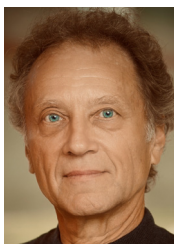
🌐 <https://ece.gatech.edu/directory/karthikeyan-sundaresan>



**Hsing-Wen Sung** | *National Tsing Hua University*

Chemical Engineering

🌐 <https://www.che.nthu.edu.tw/en/Members/Appointed/Hsing-Wen-Sung-26634343>



**Michael Tweedle** | *The Ohio State University*

Medical Imaging

🌐 <https://chemistry.osu.edu/people/tweedle.5>



**Victor E. Velculescu** | *Johns Hopkins University*

Oncology

🌐 <https://www.hopkinsmedicine.org/profiles/details/victor-velculescu>



**Guido Verbeck** | *Augusta University*

Chemistry

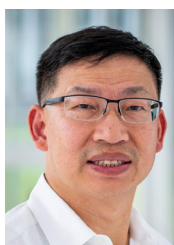
🌐 <https://www.augusta.edu/faculty/directory/view.php?id=GVERBECK>



**Maria Vicent** | *Principe Felipe Research Center*

Materials Science

🌐 <http://vicentresearchlab.com/>



**Lai-Xi Wang** | *University of Maryland, College Park*

Chemistry

🌐 <https://chem.umd.edu/people/lai-xi-wang>



**Kevin Ward** | *University of Michigan*

Emergency Medicine

🌐 <https://medicine.umich.edu/dept/emergency-medicine/kevin-ward-md>



**Jon Weidanz** | *The University of Texas at Arlington*

Biology

🌐 <https://www.uta.edu/academics/faculty/profile?username=weidanz>



**Paul S. Weiss** | *University of California, Los Angeles*

Chemistry

🌐 <https://nano.ucla.edu/paul-weiss/>





**Christian Wolf** | *Georgetown University*

Chemistry

🌐 <http://explore.georgetown.edu/people/cw27/>



**Robert Woods** | *The University of Texas at Arlington*

Mechanical Engineering

🌐 <https://www.uta.edu/academics/faculty/profile?username=woods>



**Tohru Yamada** | *University of Illinois Chicago*

Biology

🌐 <https://cancer.uillinois.edu/member/tohru-yamada-phd/>



**Masanobu Yamamoto** | *Purdue University*

Physics

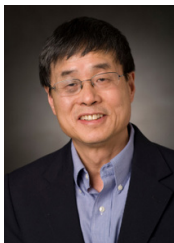
🌐 <https://vet.purdue.edu/directory/person.php?id=817>



**G. Craig Yencho** | *North Carolina State University*

Agriculture and Life Sciences

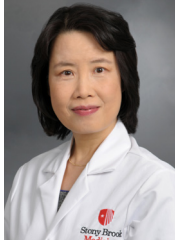
🌐 <https://cals.ncsu.edu/horticultural-science/people/yencho/>



**Qiming Zhang** | *The Pennsylvania State University*

Electrical Engineering

🌐 <https://www.matse.psu.edu/directory/qiming-zhang>



**Wei Zhao** | *Stony Brook University*

Medical Imaging

🌐 <https://renaissance.stonybrookmedicine.edu/radiology/faculty/wei-zhao>



**Chongwu Zhou** | *University of Southern California*

Electrical Engineering

🌐 <https://viterbi.usc.edu/directory/faculty/Zhou/Chongwu> OR <https://nanolab.usc.edu/staff/>





**Karen J.L. Burg, Ph.D.** | *Vice President for Research, University of Georgia, Harbor Lights Endowed Chair, College of Veterinary Medicine, University of Georgia, AAAS-Lemelson Invention Ambassador, NAI Fellow*

Karen J.L. Burg, Ph.D. was named Vice President for Research in 2021. She holds the Harbor Lights Chair in Small Animal Studies in the College of Veterinary Medicine at the University of Georgia (UGA). Prior to joining UGA, she served as vice president for research and professor of chemical engineering at Kansas State University. Honors to Karen include the Presidential Early Career Award for Scientists and Engineers, the inaugural Swiss AO Research Prize, recognition as an American Association for the Advancement of Science-Lemelson Invention Ambassador, an American Association for the Advancement of Science Fellow, an American Council on Education Fellow, an American Institute for Medical and Biological Engineering Fellow, a Biomedical Engineering Society Fellow, an International Union of Societies for Biomaterials Science and Engineering Fellow, a Massachusetts Institute of Technology TR Young Innovator, a National Academy of Inventors Fellow, and a US Department of Defense Era of Hope Scholar. Karen is the inventor of record of eight issued patents, with licenses serving as the foundation for a thriving diagnostics company. Karen served as a member of the United States delegation for the 2017 Global Entrepreneurship Summit (GES) in Hyderabad, India and as alumna ambassador for the 2019 GES in The Hague, The Netherlands.



**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.





**Elizabeth Lea Dougherty, J.D.** | *Eastern Regional Outreach Director, U.S. Patent and Trademark Office*

As the Eastern Regional Outreach Director for the U.S. Patent and Trademark Office (USPTO), Elizabeth Dougherty carries out the strategic direction of the Under Secretary of Commerce for Intellectual Property and Director of the USPTO, and is responsible for leading the USPTO's East Coast stakeholder engagement. Focusing on the region and actively engaging with the community, Ms. Dougherty ensures the USPTO's initiatives and programs are tailored to the region's unique ecosystem of industries and stakeholders. Ms. Dougherty has more than 25 years of experience working at the USPTO. She served as the Senior Advisor to the Under Secretary of Commerce for Intellectual Property and Director of the USPTO. In this role, she worked closely across the Agency's leadership to implement the policies and priorities for the USPTO. She began her career at the USPTO as a patent examiner after graduating from The Catholic University of America with a bachelor's degree in physics. While a patent examiner, Ms. Dougherty went on to obtain her J.D. from The Columbus School of Law at The Catholic University of America and served as a Senior Legal Advisor in the Office of Patent Legal Administration for a significant part of her career. Over the years, she has also served in the USPTO's Office of Petitions, the Office of Innovation Development, and the Office of Government Affairs.

Ms. Dougherty has dedicated much of her career to the USPTO's outreach and education programs focusing on small businesses, startups and entrepreneurs. In this effort she has developed, implemented, and supervised programs that support the independent inventor community, small businesses, entrepreneurs, and the intellectual property interests of colleges and universities. Similarly Ms. Dougherty has spearheaded a number of special projects with federal, state and local governments, and private organizations to promote and support invention and innovation in the United States.

Ms. Dougherty is a member of the Virginia Bar, the Giles S. Rich American Inn of Court, the Pauline Newman American Inn of Court, the American Bar Association, the Federal Circuit Bar Association, the American Intellectual Property Law Association, the Patent and Trademark Office Society, the Supervisory Patent Examiners and Classifiers Organization, Women in Science and Engineering, Federally Employed Women, and the Network of Executive Women.

**Louis J. Foreman** | *Founder and Chief Executive, Enventys*

Louis Foreman is founder and Chief Executive of Enventys ([www.enventys.com](http://www.enventys.com)), an integrated product design and engineering firm. Louis graduated from The University of Illinois with a degree in Economics. Over the past 35 years Louis has created 10 successful start-ups and has been directly responsible for the creation of over 20 others. A prolific inventor, he is the inventor of 10 registered US Patents, and his firm is responsible for the development and filing of hundreds more. The recipient of numerous awards for entrepreneurial achievement, his passion for small business extends beyond his own companies. Louis is an Assistant Professor of the Practice in the Entrepreneurship Program at Wake Forest University. Louis is an adjunct professor and the Entrepreneur in Residence at The McColl School of Business and was the 2013 Distinguished Visiting Professor at Johnson & Wales University, where he continues to teach. He also teaches IP for Entrepreneurs at Central Michigan. He was recognized by the National Museum of Education for his Distinguished Contributions to Education. He is a frequent lecturer and radio / TV guest on the topics of small business creation and innovation.

In addition to being an inventor, Louis is also committed to inspiring others to be innovative. Louis was the creator of the Emmy® Award winning PBS TV show, *Everyday Edisons*, and served as the Executive Producer and lead judge. The show won 2 Emmys in 4 seasons and appeared nationally on PBS. In 2007, Louis became the publisher of *Inventors Digest*, a 35-year-old publication devoted to the topic of American Innovation. In 2009, his first book, *The Independent Inventor's Handbook*, was published by Workman Publishing. In 2015, Louis was awarded the IP Champion Award by the US Chamber of Commerce. In June of 2022, Louis was inducted into the International IP Hall of Fame. He is a board member of the Intellectual Property Owners Association (IPO), The Federal Reserve Bank Industry Roundtable, Beyond Campus Innovations, Cryptyde, the Intellectual Property Owners Educational Foundation (IPOEF), and the advisory board of Park National Bank. In 2008, Louis was appointed by United States Secretary of Commerce Carlos M. Gutierrez to serve for a three-year term on the nine-person Patent Public Advisory Committee (PPAC) of the United States Patent and Trademark Office and was appointed to serve an additional three-year term. The Committee was created by Congress in 1999 to advise the Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office on matters relating to the policies, goals, performance, budget, and user fees of the patent operation. In 2013 he was asked to serve as Chairman of PPAC until the end of his term in December 2014. In 2011 Louis was called upon, multiple times, to brief the House and Senate Judiciary Committees on legislation related to the US Patent System and its impact on independent inventors. On September 16, 2011, Louis joined the President on-stage for the signing of the America Invents Act into law. This bi-partisan effort represented the most comprehensive overhaul to the US Patent System in over 60 years.

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

Kate Hudson serves as the Associate 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 S. Langer is the David H. Koch Institute Professor at MIT (there are 13 Institute Professors at MIT; being an Institute Professor is the highest honor that can be awarded to a faculty member). He has written more than 1,400 articles. He also has over 1,300 issued and pending patents worldwide. His many awards include the United States National Medal of Science, the United States National Medal of Technology and Innovation, the Charles Stark Draper Prize (considered the engineering Nobel Prize), Albany Medical Center Prize (largest US medical prize), the Wolf Prize for Chemistry and the Lemelson-MIT prize, for being “one of history’s most prolific inventors in medicine.” Langer is one of the very few individuals ever elected to the National Academy of Medicine, the National Academy of Engineering, the National Academy of Inventors and the National Academy of Sciences. Society, the Supervisory Patent Examiners and Classifiers Organization, Women in Science and Engineering, Federally Employed Women, and the Network of Executive Women.



**Cato T. Laurencin, M.D., Ph.D.** | *University Professor & Albert and Wilda Van Dusen, Distinguished Professor of Orthopaedic Surgery, University of Connecticut, NAI Fellow*

Cato T. Laurencin, M.D., Ph.D. is the University Professor and Albert and Wilda Van Dusen Distinguished Endowed Professor of Orthopaedic Surgery at the University of Connecticut. A surgeon-engineer-scientist, he is Professor of Chemical, Materials, and Biomedical Engineering at UConn. He serves as Chief Executive Officer of the Connecticut Convergence Institute for Translation in Regenerative Engineering, at UConn Health. He earned his B.S.E. in Chemical Engineering from Princeton University, his M.D., Magna Cum Laude, from the Harvard Medical School, and his Ph.D. in Biochemical Engineering/Biotechnology from the Massachusetts Institute of Technology. Dr. Laurencin has produced seminal research and technologies on nanotechnology and tissue regeneration, polymer/ceramic systems for bone regeneration, and biomaterials for soft tissue regeneration. Dr. Laurencin is a pioneer of the field of Regenerative Engineering. He received the NIH Director’s Pioneer Award, and the National Science Foundation’s Emerging Frontiers in Research and Innovation Grant Award for this field. For his work he has received singular honors including the American Association for the Advancement of Science Philip Hauge Abelson Prize given ‘for signal contributions to the advancement of science in the United States’, the Simon Ramo Founder’s Award from the National Academy of Engineering and the Walsh McDermott Prize from the National Academy of Medicine. He is the first in history to win all three of these awards. Dr. Laurencin is a world leader in invention and innovation, and he is the recipient of the National Medal of Technology and Innovation, America’s highest award for technological achievement, award by President Barack Obama in ceremonies at the White House.



**Crystal Leach, Ph.D.** | *Program Director, National Science Foundation*

Crystal Leach joined the National Science Foundation as a Program Director in the Industry-University Cooperative Research Center (IUCRC) program in 2021. Crystal is an Associate Professor of Practice in the School of Chemical, Materials and Biomedical Engineering at the University of Georgia, where she has served as the founding Director of Industry Collaborations since 2016, working with faculty and administration to build industry partnerships that align with UGA's research capabilities and strategic priorities. Crystal has been a leader in expanding UGA's innovation and entrepreneurial ecosystem, serving as co-PI and business mentor for UGA's NSF-funded Innovation Corps program. In 2019 she developed and successfully implemented the first Innovation Bootcamp for female faculty, post-doctoral fellows, and graduate students at UGA. Previously, she spent 18 years in Research and Development at Kimberly-Clark, a Fortune 500 health and hygiene company, where she led engineering teams to develop 25+ medical products to market globally. Crystal earned a bachelor's degree in chemical engineering and a master's in biomedical engineering at The University of Akron, then her doctorate in textiles and polymer science at Clemson University. She is a member of the Society of Women Engineers and the Society for Biomaterials and has presented at numerous conferences. Her many accomplishments include: she holds four U.S. and European patents; was named one of The University of Akron's Distinguished Engineering Alumni in 2005; and was elected as a Fellow to the American Institute of Medical and Biological Engineering in 2018.



**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.



**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.



**Laura Savatki, MBA, CLP, RTTP** | *Executive Director Innovation, University of Louisville, Immediate Past Chair, AUTM*

Laura directs innovation development efforts for the University of Louisville. In this role, her team is responsible for technology identification & protection, commercialization, and partnership development. Laura has a diverse background as a research scientist, entrepreneur, and start-up advisor, and broad experience bringing inventions to market. Laura's early career in medical research focused on vaccine trials, stem cell biology, transplant/oncology, and cellular assays. Her past roles include Vice President and Chief Operating Officer for Prodesse, a company she co-founded, which makes molecular infectious disease diagnostic products (now as part of Hologic). Laura has served on the board for the Alliance of Technology Transfer Professionals (ATTP) which confers the Registered Technology Transfer Professional credential for the profession. She is completing her service as the immediate past Chair of AUTM, the leading association for technology transfer.





**Denise Zannino, Ph.D. | *Science Policy and Communications Analyst, National Science Foundation***

Denise Zannino, Ph.D. is a Science Policy and Communications Analyst at the National Science Foundation in the Office of Legislative and Public Affairs. In this capacity she is responsible for internal communications and strategic visioning, project management for special events such as press conferences and symposiums, and general science outreach and communications projects. Prior to this role Denise was a AAAS Science & Technology Policy Fellow in the same office. Denise earned her Ph.D. in neuroscience from Vanderbilt University, and a BS in biology and psychology from James Madison University. She is passionate about utilizing her scientific background and experience in biomedical research to communicate science to a varied range of audiences including the public, media, and other scientists, and to promote scientific programs, outreach, and awareness.



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## IN MEMORIAM

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*Honoring the lives of the prolific NAI Fellows we lost during the past year*



**Thomas O. Mensah**  
1950-2024  
*Florida State University*  
NAI Fellow Inductee, 2014



**Barry Bercu**  
1944-2023  
*University of South Florida*  
NAI Fellow Inductee, 2022



**John B. Goodenough**  
1923-2023  
*The University of Texas at Austin*  
NAI Fellow Inductee, 2016



**Darrell H. Reneker**  
1930-2021  
*The University of Akron*  
NAI Fellow Inductee, 2013



**Harald zur Hausen**  
1936-2023  
*German Cancer Research Center*  
NAI Fellow Inductee, 2013



**Patrick L. McGeer**  
1927-2022  
*The University of British Columbia*  
NAI Fellow Inductee, 2016



**Edith G. McGeer**  
1923-2023  
*The University of British Columbia*  
NAI Fellow Inductee, 2015



**Sri Narayan**  
1959-2023  
*University of Southern California*  
NAI Fellow Inductee, 2021



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