LOOK BACK, THINK FORWARD:
FRAMING THE FUTURE OF INNOVATION
Addressing problems worth solving

The challenges we are confronting worldwide are both complex and daunting. In the next 20 years, the most important inventions will be those that address critical social and environmental issues, reaching and serving communities with the greatest needs, and creating sustainable economic value for all.

The Lemelson Foundation enables inventors to tackle problems that have a positive impact on lives in our local and global communities. By inspiring inventors to realize they can make a difference, we empower the new generation of inventors to become agents of positive change.

Learn more about how we are improving lives through invention go to www.lemelson.org
Dear Friends:

On behalf of the National Academy of Inventors (NAI) Board of Directors and staff, it is my distinct pleasure to welcome you to our Tenth Annual Meeting.

Last year was an incredible learning experience for all of us, to say the least. It was amazing to see so many NAI Members adapt to the COVID-19 crisis and work strategically and tirelessly to thwart the virus that was ravaging the globe. Never before was I so honored to be part of this extraordinary community.

Now as we move into a new era of science and technology, one of our roles as inventors is to have a prominent, active voice in what the future of innovation will look like. What can we do to address the barriers in the process of discovery that the pandemic exposed? What are the gaps, and how can we fix them?

It is my hope that this meeting will serve as a catalyst to spark your imagination and ignite ideas that can be put into action. We have invited outstanding speakers and engaging panelists to stimulate ideas and discussions. I encourage you to engage with your distinguished colleagues to share your perspectives.

This year, we also pause to note the tenth anniversary of NAI’s founding. We celebrate a decade of tremendous achievement and exponential growth. Since our inception, the NAI has elected 1,402 distinguished Fellows, representing over 250 prestigious non-profit research institutes, universities, and government agencies. Our Senior Member program, introduced in 2018, now comprises over 250 of the world’s brightest emerging inventors.

We are excited to partner with over 242 world-class institutions and centers of learning. Additionally, our global network of NAI Chapters provides guidance and support at the campus level.

We could not do this work without the support of our individual and institutional members. We are indebted to our many partner organizations and are especially grateful for our strong alliance with the United States Patent and Trademark Office (USPTO). They were there with us right from the start and have played an integral role in what the Academy is today. Their insightful collaboration can be seen at many levels of our organization — on our board and committees, and in our publications and new initiatives. We are currently developing even more ways for us to work together toward our common goal of facilitating innovation to benefit society.

It has been my privilege to watch the NAI community evolve and emerge on the global stage as a thought-leader in the innovation ecosystem. As our visibility increases, our influence and viewpoints on the critical role of invention and technology transfer are able to have a greater impact and speak to a broader audience.

I am truly proud of the Academy’s many accomplishments and would like to thank you for your continued support. It has been so satisfying to watch the NAI grow to be recognized as one of the preeminent innovation academies. It is an honor to lead this exciting organization and I look forward to a very bright future.

Enjoy the Meeting!

Paul R. Sanberg, FNAI
President
Look Back, Think Forward

For the Tenth Annual Meeting of the National Academy of Inventors, we aim to honor and empower the world's brightest innovators and professionals by creating powerful connections between them, generating a momentum that will enhance and transform our innovation ecosystem. The Annual Meeting features stimulating presentations and networking and culminates in the formal NAI Fellows Induction Ceremony.

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Save the Date: 2022 Annual Meeting ............... Back Cover
# Tenth Annual Meeting Summary Agenda

## Sunday, October 31, 2021

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<tbody>
<tr>
<td>3:00pm - 7:00pm</td>
<td>Meeting Registration &amp; Information Table Open</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>3:00pm - 6:00pm</td>
<td>Welcome Reception</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>6:00pm - 9:00pm</td>
<td>Board Meeting &amp; Dinner</td>
<td>SkyBox Meeting Room</td>
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## Monday, November 1, 2021

<table>
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<tr>
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<tbody>
<tr>
<td>7:00am - 7:00pm</td>
<td>Meeting Registration &amp; Information Table Open</td>
<td>Tampa Bay Ballroom Foyer</td>
</tr>
<tr>
<td>7:30am - 8:30am</td>
<td>Innovation Session A</td>
<td>Hosted by University of Southern California (Tampa Bay Ballroom 6)</td>
</tr>
<tr>
<td>8:40am - 12:00pm</td>
<td>Various Speakers</td>
<td>See Detailed Program</td>
</tr>
<tr>
<td>9:30am - 10:03am</td>
<td>Panel Engineering Innovation Leadership Council (EILC): Building a National Engineering Innovation Leadership Council</td>
<td>Tampa Bay Ballroom Foyer</td>
</tr>
<tr>
<td>10:30am - 11:00am</td>
<td>Break Hosted by Chapman University</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>11:00am - 11:30am</td>
<td>Listening Session: Virtual Resource Hub and GAIN Mentors to Support Collegiate Inventors</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>11:40am - 12:00pm</td>
<td>Keynote Speaker: Honorable Sethuraman Panchanathan, Director, National Science Foundation; NAI Fellow</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>12:15pm - 1:15pm</td>
<td>Tampa Spotlight Luncheon: Hosted by University of South Florida</td>
<td>Tampa Bay Ballroom 5</td>
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<tr>
<td>12:30pm - 1:00pm</td>
<td>Keynote Speaker: Sarah Cole, CEO Glazer Children’s Museum</td>
<td>Tampa Bay Ballroom 5</td>
</tr>
<tr>
<td>1:30pm - 3:30pm</td>
<td>Next Generation Inventors Session: Hosted by The Lemelson Foundation and The University of Central Florida</td>
<td>Tampa Bay Ballroom 6</td>
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<tr>
<td>1:35pm - 2:05pm</td>
<td>Keynote Speaker: Louis Foreman, CEO, Enventys Partners; Founder &amp; Director, Edison Nation</td>
<td>Tampa Bay Ballroom 6</td>
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<tr>
<td>2:05pm - 3:30pm</td>
<td>Student Presentations</td>
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<tr>
<td>3:30pm - 3:45pm</td>
<td>Break Hosted by Chapman University</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>3:45pm - 4:45pm</td>
<td>Fellows Spotlight Session (Tampa Bay Ballroom 6)</td>
<td>Tampa Bay Ballroom 6</td>
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<tr>
<td>4:45pm - 5:45pm</td>
<td>Connection Space with Exhibitors (Tampa Bay Ballroom Foyer)</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>6:00pm - 7:00pm</td>
<td>Senior Member Induction Ceremony: Hosted by Florida International University</td>
<td>Tampa Bay Ballroom 1 (4th floor)</td>
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## Tuesday, November 2, 2021

<table>
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<tr>
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<tbody>
<tr>
<td>7:00am - 6:00pm</td>
<td>Meeting Registration &amp; Information Table Open</td>
<td>Tampa Bay Ballroom Foyer</td>
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<tr>
<td>7:40am - 8:20am</td>
<td>Networking Breakfast: Hosted by Elsevier (Tampa Bay Ballroom 5)</td>
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</tr>
<tr>
<td>7:45am - 8:20am</td>
<td>Keynote Speaker: Antoine van Agtmael, Senior Advisor, FP Group; Co-Author, The Smartest Places on Earth: Why Rustbelts Are the Emerging Hotspots of Global Innovation</td>
<td></td>
</tr>
<tr>
<td>8:40am - 11:55am</td>
<td>Innovation Session B: Inclusive Innovation &amp; Post Pandemic (Tampa Bay Ballroom 6)</td>
<td></td>
</tr>
<tr>
<td>8:45am - 9:30am</td>
<td>Keynote Speaker: Robert Langer, Co-Founder, Moderna; David H. Koch Institute Professor, MIT, NAI Fellow</td>
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<tr>
<td>9:45am - 10:10am</td>
<td>Keynote Speaker: George Smith, Nobel Laureate; NAI Honorary Member</td>
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<tr>
<td>10:10am - 10:55am</td>
<td>Panel: Diversity in Innovation</td>
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<tr>
<td>10:55am - 11:10am</td>
<td>Break Hosted by New Life Regenerative Medicine</td>
<td>Tampa Bay Ballroom Foyer</td>
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**TUESDAY, NOVEMBER 2, 2021 (CONTINUED)**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:10am – 11:55am</td>
<td>Various Speakers (see detailed agenda)</td>
</tr>
<tr>
<td>12:00pm – 1:30pm</td>
<td>Keynote Luncheon: Hosted by King Abdullah University of Science and Technology (Tampa Bay Ballroom 5)</td>
</tr>
<tr>
<td>12:30pm – 1:15pm</td>
<td>State of the Academy: Paul R. Sanberg, President, National Academy of Inventors</td>
</tr>
<tr>
<td>1:40pm – 4:00pm</td>
<td>Innovation Session C: The Future of Innovation: Hosted by Fulgent Genetics (Tampa Bay Ballroom 6)</td>
</tr>
<tr>
<td>1:45pm – 2:15pm</td>
<td>Panel: U.S. Intellectual Property Alliance</td>
</tr>
<tr>
<td>2:15pm – 2:45pm</td>
<td>Various Speakers (see detailed agenda)</td>
</tr>
<tr>
<td>2:45pm – 3:00pm</td>
<td>Break: Hosted by New Life Regenerative Medicine (Tampa Bay Ballroom Foyer)</td>
</tr>
<tr>
<td>3:00pm – 3:45pm</td>
<td>Panel: From Bench to Market: Financing Your Discoveries</td>
</tr>
<tr>
<td>4:00pm – 6:00pm</td>
<td>Break Before the Gala</td>
</tr>
<tr>
<td>6:00pm</td>
<td>Buses to Depart for Armature Works: Hosted by Texas Tech University (JW Lobby)</td>
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<tr>
<td></td>
<td>6:30pm – 7:30pm Cocktail Hour: Hosted by Oak Ridge Associated Universities</td>
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<tr>
<td></td>
<td>7:35pm – 8:15pm NAI Founders Award Ceremony</td>
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**WEDNESDAY, NOVEMBER 3, 2021**

<table>
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<th>Event</th>
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<tbody>
<tr>
<td>7:00am – 12:00pm</td>
<td>Meeting Registration &amp; Information Table Open (Tampa Bay Ballroom Foyer)</td>
</tr>
<tr>
<td>8:00am – 8:50am</td>
<td>Fellow Inductee Breakfast: Hosted by University of Texas at Arlington (Tampa Bay Ballroom 5)</td>
</tr>
<tr>
<td>9:00am – 12:00pm</td>
<td>Fellows Induction Ceremony &amp; Reception: Hosted by North Carolina State University (Tampa Bay Ballroom 6)</td>
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</table>
The National Academy of Inventors (NAI) is a member organization comprising U.S. and international universities, and governmental and non-profit research institutes, with over 4,000 individual inventor members, Fellows and Senior Members spanning more than 250 institutions worldwide. It was founded in 2010 to recognize and encourage inventors with patents issued from the U.S. Patent and Trademark Office (USPTO), 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 society. The NAI works collaboratively with the USPTO and publishes the multidisciplinary journal, Technology and Innovation and the annual Top 100 Worldwide Universities Granted U.S. Utility Patents report. www.academyofinventors.org
Congratulations to the 2020 NAI Fellows being inducted at this year’s annual meeting, especially those who drive innovation at the research institutions in our 23-county Florida High Tech Corridor.

Your work is helping us establish a new paradigm for innovation and entrepreneurship in Florida that attracts changemakers with a desire to make life better, fully supports them with access to the right resources and relationships for business development, and inspires them to help others in our ecosystem who seek the same success.

Venkat Bhethanabotla, Ph.D.
University of South Florida

Steven Eschrich, Ph.D.
H. Lee Moffitt Cancer Center & Research Institute

Richard Heller, Ph.D.
University of South Florida

James Hickman, Ph.D.
University of Florida

Richard Melker, MD, Ph.D.
University of Florida

Martin Richardson, Ph.D.
University of Central Florida

Jean-Francois Rossignol, Ph.D., MD
University of South Florida

Gregory Schultz, Ph.D.
University of Florida

ONE INNOVATION can change the world.
National Academy of Inventors was founded and is headquartered in Tampa. Treasure awaits in Tampa Bay! With first-class hotels, distinct heritage, authentic culture, thrilling attractions, delicious cuisine and premier shopping, there is no better place to discover Florida’s riches. The award-winning Tampa International Airport, located just seven miles from downtown, as well as a first-rate cruise port, makes it easy for you to conquer Tampa Bay with ease. Home to a vibrant waterfront district, culturally engaging venues and museums, and countless activities that offer unique experiences for you and your crew, Tampa Bay is just waiting for your takeover. Explore a fascinating region sizzling with adventure. Unlock Tampa Bay at VisitTampaBay.com
## SUNDAY, OCTOBER 31, 2021

<table>
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<tr>
<th>Time</th>
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<tr>
<td>3:00 PM–7:00 PM</td>
<td>Meeting Registration &amp; Information Table Open</td>
<td>Tampa Bay Ballroom Foyer – (4th Floor)</td>
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<td>3:00 PM–6:00 PM</td>
<td>Welcome Reception</td>
<td>Tampa Bay Ballroom Foyer – (4th Floor)</td>
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<tr>
<td>6:00 PM–9:00 PM</td>
<td>Board Meeting &amp; Dinner</td>
<td>SkyBox Meeting Room – (3rd Floor)</td>
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## MONDAY, NOVEMBER 1, 2021

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<td>Meeting Registration &amp; Information Table Open</td>
<td>Tampa Bay Ballroom Foyer – (4th Floor)</td>
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</tbody>
</table>
| 7:30am – 8:30am | Welcome Breakfast | Hosted by University of Houston | Tampa Bay Ballroom 5 – (4th Floor)  
|             | Welcome from NAI President | Paul R. Sanberg, President, National Academy of Inventors, NAI Fellow |  
|             | USF Welcome | Rhea Law, President, University of South Florida |  
|             | Sponsor Welcome | Amr Elnashai, Vice Chancellor for Research & Technology Transfer, University of Houston |  
| 8:30am – 8:40am | Break                                                           | –                                        |
| 8:40am – 10:30am | Innovation Session A | Hosted by University of Southern California | Tampa Bay Ballroom 6 – (4th Floor)  
|             | Collaborative Applied Research Among Industry, Academia & Government | –                                        |
|             | Randolph Hall | Director of CREATE, Former Vice President for Research, University of Southern California | Industry Engaged Universities |  
|             | Stephen Saddow | Professor of Electrical Engineering, University of South Florida, NAI Senior Member | Counterfeit Electronics Identification: Keeping the Global Supply Chain Clean |
MONDAY, NOVEMBER 1, 2021 (CONTINUED)

9:30am – 10:30am  • Panel | Engineering Innovation Leadership Council (EILC) – Building a National Engineering Innovation Leadership Council
  
  Tom Byers | Entrepreneurship Professor and Faculty Director of the Stanford Technology Ventures Program, Stanford University
  
  Ellis Meng | Vice Dean for Technology Innovation and Entrepreneurship, Viterbi School of Engineering, University of Southern California, NAI Fellow
  
  Rodney Priestley | Vice Dean for Innovation, and Professor of Chemical and Biological Engineering, Princeton University
  
  Andrew Singer | Faculty Fellow for Research Innovation and Entrepreneurship Strategies in the Office of the Vice Chancellor for Research and Innovation, and Associate Dean for Innovation and Entrepreneurship, Grainger College of Engineering, University of Illinois Urbana-Champaign
  
  Phil Weilerstein | Chief Executive Officer, VentureWell

10:30am – 11:00am  Morning Break | Hosted by Chapman University
Location: Tampa Bay Ballroom Foyer – (4th Floor)

11:00am – 11:30am  Listening Session | Virtual Resource Hub and GAIN Mentors to Support Collegiate Inventors
Tampa Bay Ballroom 6 - (4th floor)
  
  Stephanie Couch | Executive Director, Lemelson-MIT Program, Massachusetts Institute of Technology
  
  Janell Ciemiecki | Awards Program Administrator, Lemelson-MIT Program

11:30am – 12:00pm  Keynote Speaker
Tampa Bay Ballroom 6 - (4th floor)
  
  Keynote Introduction | Paul R. Sanberg, President, National Academy of Inventors
  
  Keynote Speaker | Sethuraman Panchanathan, Director, National Science Foundation; NAI Fellow

12:00pm – 12:15pm  Break

12:15pm – 1:15pm  Tampa Spotlight Luncheon | Hosted by University of South Florida
Location: Tampa Bay Ballroom 5 – (4th Floor)
  
  Welcome Video | Mayor Jane Castor of Tampa Bay
  
  Welcome & Keynote Introduction | Santiago Corrada, CEO, Visit Tampa Bay
  
  Keynote Speaker | Sarah Cole, CEO, Glazer Children's Museum

1:15pm – 1:30pm  Break

1:30pm – 3:30pm  Next Generation Inventors Session | Hosted by Lemelson Foundation & University of Central Florida
Location: Tampa Bay Ballroom 6 – (4th Floor)
  
  Sponsor & Speaker Welcome | Tom O'Neal, Associate Vice President of Research & Commercialization, University of Central Florida
  
  Keynote Speaker | Louis Foreman, CEO, Enventys Partners; Founder & Director, Edison Nation
MONDAY, NOVEMBER 1, 2021 (CONTINUED)

3:30pm – 3:45pm

Video Welcome & Introduction | Cindy Cooper, The Lemelson Foundation

Student Teams Presentations

3:45pm – 4:45pm

Afternoon Break | Hosted by Chapman University
Location: Tampa Bay Ballroom Foyer – (4th Floor)

Fellows Spotlight Session
Location: Tampa Bay Ballroom 6 – (4th Floor)

• Valentine Nzengung | Environmental Geochemistry Professor University of Georgia; NAI Fellow

• Sharon Gerecht | Director of the Johns Hopkins Institute of NanoBio Technology, Johns Hopkins University; NAI Fellow

• Frank Gupton | Virginia Commonwealth University; NAI Fellow

• Michelle Marcolongo | Drosdick Endowed Dean of the College of Engineering, Villanova University; NAI Fellow

4:45pm – 5:45pm

Connection Space with Exhibitors
Location: Tampa Bay Ballroom Foyer – (4th Floor)

5:45pm – 6:00pm

Break

6:00pm – 7:00pm

Senior Member Induction Ceremony | Hosted by Florida International University
Location: Tampa Bay Ballroom 1 (4th Floor)

• Welcome Remarks | Pedro Hernandez, Director, Technology Management and Commercialization, Florida International University

• Presenter | Richard Maulsby, Senior Advisor to NAI, Former Associate Commissioner for Innovation Development at the USPTO

• Presenter | Jayde Stewart, Former Director, National Academy of Inventors; Incoming National Outreach Partnerships Specialist, USPTO

TUESDAY, NOVEMBER 2, 2021

7:00am – 6:00pm

Meeting Registration & Information Table Open
Location: Tampa Bay Ballroom Pre-Function – (4th Floor)

7:30am – 8:30am

Networking Breakfast | Hosted by Elsevier
Location: Tampa Bay Ballroom 5 – (4th Floor)

• Keynote Introduction | Mayor Brian Treece of Colombia, Missouri

• Keynote Speaker | Antoine van Agtmael, Senior Advisor, FP Group; Co-Author, The Smartest Places on Earth: Why Rustbelts Are the Emerging Hotspots of Global Innovation

8:30am – 8:40am

Break

8:40am – 10:55am

Innovation Session B: Inclusive Innovation & Post-Pandemic
Location: Tampa Bay Ballroom 6 – (4th Floor)

• Program Committee Member Introduction | Subhra Mohapatra, Professor of Molecular Medicine, NAI Chapter President, University of South Florida; NAI Senior Member
TUESDAY, NOVEMBER 2, 2021 (CONTINUED)

9:30am - 9:40am  
Keynote Speaker | Robert Langer, Co-Founder, Moderna; NAI Fellow

Break

Keynote Introduction | Kattesh V. Katti, Distinguished Curators’ Professor of Radiology, University of Missouri; NAI Fellow

Keynote Speaker | George Smith, Nobel Laureate, Curators’ Distinguished Professor Emeritus of Biological Sciences, University of Missouri, Columbia; Honorary NAI Member

Panel | Diversity in Innovation
- James Howard | Executive Director, Black Inventors Hall of Fame
- Cal Jackson (Moderator) | Executive Director, Corporate Partnerships, Courageous Conversation
- Norma Alcantar | Professor, Department of Chemical Engineering & Biomedical Engineering, University of South Florida; NAI Senior Member
- Cato T. Laurencin | The University Professor & Albert and Wilda Van Dusen Distinguished Endowed Professor, University of Connecticut; CEO, Connecticut Convergence Institute for Translation in Regenerative Engineering; NAI Fellow

10:55am – 11:10am  
Morning Break | Hosted by New Life Regenerative Medicine
Location:  Tampa Bay Ballroom Pre-Function – (4th Floor)

11:10am – 11:55am  Innovation Session B (continued)

Julia Ljubimova | Professor, Terasaki Institute for Biomedical Innovation; NAI Fellow

Andrew Maas | Associate Vice President for Research -Technology Transfer Director, Office of Innovation & Technology Commercialization, Louisiana State University

Wei Chen | Professor of Physics, University of Texas at Arlington; NAI Senior Member
New Generation of Sensitizers for Photodynamic Therapy – Deeper and Better

11:55am – 12:00pm  
Break

12:00pm – 1:30pm  Keynote Luncheon | Hosted by King Abdullah University of Science and Technology
Location:  Tampa Bay Ballroom 5 – (4th Floor)

Keynote Introduction: Ahmed Eltawil, Professor, Electrical Engineering, King Abdullah University of Science and Technology; NAI Senior Member

State of the Academy | Paul R. Sanberg, President, National Academy of Inventors

1:30pm – 1:40pm  
Break

1:40pm – 2:45pm  Innovation Session C – The Future of Innovation | Hosted by Fulgent Genetics
Location:  Tampa Bay Ballroom 6 – (4th Floor)

Sponsor Welcome | Ming Hsieh, Founder, Fulgent Genetics; NAI Fellow

1:45pm – 2:15pm  
Panel | U.S. IP Alliance
- David Kappos, Former Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office; Partner, Cravath, Swaine & Moore LLP, Founding Undersecretary for NAI
- Robert Duncan, Vice President for Research and Professor of Physics, Texas Tech University; NAI Fellow
- Warren Tuttle, Former President, United Inventors Association
TUESDAY, NOVEMBER 2, 2021 (CONTINUED)

- **Helena Wisniewski**, Chair, Management, Marketing, Logistics and Business Analytics, Founding Director ADAC, Professor of Entrepreneurship, University of Alaska Anchorage; NAI Fellow
  *The Convergence of Emerging Technologies with AI*

- **Alexander Bridge**, Counsel, Patents, Intellectual Property, Hewlett Packard Enterprise
  *The Growing Chasm Between AI Patent Disclosure Requirements and Asset Value*

2:45pm – 3:00pm  **Afternoon Break** | Hosted by New Life Regenerative Medicine
Location: Tampa Bay Ballroom Foyer – (4th Floor)

3:00pm – 4:00pm  **Innovation Session C (continued)**

3:00pm – 3:45pm  **Panel** | From Bench to Market: Financing Your Discoveries
- **Paul Sohl**, CEO, Florida High Tech Corridor (Moderator)
- **Amy Beaird**, Cluster Manager, Florida High Tech Corridor Council
- **Brian Hartman**, Managing Partner, Pharus Global
- **Sarayu Srinivasan**, Venture Capital Investor; Entrepreneur; Executive; White House Presidential Innovation Fellow, National Institute of Standards
- **Bill Williams III**, Johnson & Johnson Centennial Chair and Professor, The University of Texas at Austin College of Pharmacy; NAI Fellow

3:45pm - 4:00pm  **Ellen Ochoa**, Chair, National Science Board; Former Director, NASA’s Johnson Space Center; First Hispanic Astronaut in Space; NAI Fellow
  *2030 Plan*

4:00pm – 6:00pm  **Break**

6:00pm  **Buses to Depart** | Hosted by Texas Tech University
Location: JW Marriott Lobby

6:30pm – 9:30pm  **Gala** | Hosted by The Florida High Tech Corridor
Location: Armature Works

- **Cocktail Hour Entertainment** | Hosted by Oak Ridge Associated Universities
- **Anniversary Testimonial Video** | **Richard Maulsby**, Senior Advisor to NAI, Former Associate Commissioner for Innovation Development at the USPTO
- **Sponsor Welcome and Keynote Introduction** | **Paul Sohl**, CEO, Florida High Tech Corridor
- **NAI Founders Award Ceremony** | **Paul R. Sanberg**, President, National Academy of Inventors
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| 7:00am – 12:00pm | Meeting Registration & Information Table Open  
                      Location: Tampa Bay Ballroom Foyer (4th Floor) |
| 8:00am – 8:50am | Fellow Inductee Breakfast | Hosted by University of Texas at Arlington  
                      Location: Tampa Bay Ballroom 5 – (4th Floor) |
|               | Sponsor Welcome | Pranesh Aswath, Provost and Vice President for Academic Affairs, University of Texas at Arlington; NAI Senior Member  
               | Fellows Program Overview | Cheryl Hedrick, Program Planner Manager, National Academy of Inventors |
| 8:50am – 9:00am | Break                                                                 |
| 9:00am – 12:00pm | Fellows Induction Ceremony & Reception | Hosted by North Carolina State University  
                      Tampa Bay Ballroom 6 |
|               | Sponsor Welcome | Rodolphe Barrangou, Todd R. Klaenhammer Distinguished Professor, North Carolina State University; NAI Fellow  
               | Welcome Video | Andrew Hirshfeld, Director, USPTO; Honorary NAI Member  
               | Presenter | David Kappos, Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office; Partner, Cravath, Swaine & Moore LLP, Founding Undersecretary for NAI |
2020-2021 BOARD OF DIRECTORS

Paul R. Sanberg, President
Distinguished University Professor
Former Senior Vice President for Research, Innovation, and Knowledge Enterprise
University of South Florida
NAI Fellow

Howard J. Federoff, Vice President
Howard J. Federoff, Vice President
President, Director, and CEO
Brooklyn ImmunoTherapeutics
NAI Fellow

Sudeep Sarkar, Treasurer
Chair and Professor
Department of Computer Science and Engineering
Associate Vice President for I-CORPS Programs
University of South Florida
NAI Fellow

Karen J.L. Burg
Vice President for Research
Harbor Lights Endowed Chair
Department of Small Animal Medicine and Surgery
University of Georgia
NAI Fellow

Pierre Comizzoli
Senior Program Officer for Science
Office of the Under-Secretary for Science and Research
Smithsonian Institution
Research Biologist, Center for Species Survival
Smithsonian Conservation Biology Institute
National Zoological Park

Elizabeth Lea Dougherty
Eastern Region Outreach Director Office of the Under Secretary and Director
U.S. Patent and Trademark Office

Robert V. Duncan
President's Distinguished Chair in Physics
Professor of Physics
Texas Tech University
NAI Fellow

Cato T. Laurencin
University Professor & Albert and Wilda Van Dusen Distinguished Professor of Orthopedic Surgery
University of Connecticut
NAI Fellow

Anna M. Leese de Escobar
Distinguished Senior Scientist of Cryogenic Electronics
Naval Information Warfare Center Pacific (NIWC)
NAI Fellow

Paul Rosenthal
Deputy Chief Communications Officer
U.S. Patent and Trademark Office

Kalliat Valsaraj
Charles & Hilda Roddey Distinguished Professor of Chemical Engineering
Former Vice President for Research & Economic Development
Louisiana State University
NAI Fellow
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Jayde Stewart, Program Chair
Former Director
National Academy of Inventors
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Professor, Department of Molecular Medicine
University of South Florida
Research Career Scientist
James A. Haley VA Hospital
President, University of South Florida Chapter of National Academy of Inventors
NAI Senior Member

Michele Mossman
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Research Associate, Department of Physics and Astronomy
University of British Columbia

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Florida High Tech Corridor
Office of Corporate Partnerships at University of South Florida

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Professor of Entrepreneurship
University of Alaska Anchorage
Special Editor, AI Education, T&I, Journal of NAI
NAI Fellow

LC Charity
Director of Programs and Culture
National Science and Technology Medals Foundation

Pierre Comizzoli
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National Zoological Park
NAI Board Member, 2021 - 2022

David Conrad
Director, Technology Transfer Office Patents and Licensing
University of South Florida

Elizabeth Lea Dougherty
Eastern Region Outreach Director Office of the Under Secretary and Director U.S. Patent and Trademark Office

Kattesh V. Katti
Distinguished Curators’ Professor of Radiology
University of Missouri
NAI Fellow
Norma A. Alcantar  
Professor at Department of Chemical Engineering & Biomedical Engineering University of South Florida; NAI Senior Member

Dr. Alcantar grew up in Mexico City, Mexico. She received her Bachelor degree in Chemical Engineering with honors in 1993. She then was awarded the UNAM-DeGAPA Studies Abroad Fellowship to continue with her graduate education at the University of California-Santa Barbara (UCSB). She received her Ph.D. degree in Chemical Engineering from UCSB in 2000. She did her postdoctoral research in the Department of Chemical Engineering and Materials Science at UC Davis and UCSB from 2000 to 2001 in Surface Properties of Thin Films under Confinement. After that, she worked in the Materials Research Laboratory at UCSB in Surface Characterization and Interfacial Phenomena of Thin Films from 2001 to 2003. During this time, she also worked as a consultant engineer in SurForce Corp, Santa Barbara, CA. She joined the University of South Florida System in Tampa in August of 2003, where she is currently a professor.

Pranesh B. Aswath  
Provost and Vice President for Academic Affairs, University of Texas at Arlington, NAI Senior Member

Dr. Pranesh B. Aswath was appointed as provost and vice president for academic affairs, ad interim, effective May 2020. He joined the University of Texas at Arlington in 1990 as a Professor of Materials Science Engineering. He served as associate dean for graduate affairs in the College of Engineering from 2013 to 2016 and senior vice provost for academic planning and policy starting in 2016.

As interim provost, Dr. Aswath leads academic programs, degrees and initiatives across the University’s ten colleges and schools as well as the Libraries, Division of Student Success, Division of Faculty Affairs, Division of Academic Planning and Policy, Division of Academic Personnel, Center for Mexican American Studies and Center for African American Studies. He is committed to providing academic excellence and opportunity to one of the most diverse campus populations in the nation, consisting of over 60,000 students.

In addition to bringing a diversity of relevant experiences in academic operations, initiatives and planning, and collaborations with UT System’s Academic Affairs Office, Dr. Aswath has an extensive three-decade record of teaching and research as a materials science and engineering professor and an international authority in processing and properties of advanced materials. He was the recipient of a Fulbright Faculty Fellowship, is a Fellow of both the American Society of Materials International and the Society of Tribology and Lubrication Engineers, and was recently selected as a Senior Member of the National Academy of Inventors.

Dr. Aswath earned his Bachelor of Science in Physics/Chemistry/Math from Bangalore University in 1982; Bachelor of Engineering in Metallurgy from Indian Institute Of Science in 1985; Master of Science in Materials Science and Engineering from Brown University in 1987; and Ph.D. in Materials Science and Engineering from Brown University in 1990.
Rodolphe Barrangou
Todd R. Klaenhammer Distinguished Professor, North Carolina State University, NAI Fellow

Rodolphe Barrangou is the Todd R. Klaenhammer Distinguished Professor in Probiotics Research in the Department of Food, Bioprocessing and Nutrition Sciences at North Carolina State University; Co-Founder and Chief Executive Officer of CRISPR Biotechnologies; Co-Founder and Chief Scientific Officer of Ancilia Biosciences; Co-Founder, President and Chief Scientific Officer of TreeCo; and Co-Founder and member of the Scientific Advisory Board of Intellia Therapeutics. His research focuses on CRISPR-Cas9 in bacteria.[1]

In 2017, Barrangou was named[2] Editor-in-Chief of The CRISPR Journal, a peer-reviewed journal covering the field of genome editing and CRISPR research, which debuted in February 2018. He was elected as a member into the National Academy of Sciences in 2018.[3] He was also elected into the National Academy of Engineering in 2019 for the discovery of CRISPR-Cas genome editing and engineering microbes, plants, and animals for food and other applications.

Amy Beaird
Cluster Manager/Consultant, Florida High Tech Corridor Council

Dr. Amy Beaird currently serves as a Cluster Manager at the Florida High Tech Corridor Council. In this role, she supports high tech companies across four key industry clusters to grow and thrive in Central Florida. In her prior roles as a research director, Dr. Beaird led R&D programs for two university spinouts, both developing cutting edge nanomaterials for Department of Defense applications. Discovering the impact that technology commercialization can have on communities, and learning first-hand the challenges that small deep technology companies face, Dr. Beaird made a commitment to leverage her experience to help others. She has worked with over 50 small businesses, research institutions, non-profits, and government agencies in their federal funding pursuits. Over the last 8 years, Dr. Beaird has developed proposals and run programs for small businesses and innovation ecosystem developers ranging from $100K - $6M+, to agencies including the National Science Foundation (NSF), Department of Defense (DoD), Economic Development Administration (EDA) and the Small Business Administration (SBA). She has also served as a proposal reviewer for the NSF and SBA. Dr. Beaird holds a bachelor’s degree in chemical engineering from the University of Florida and a doctorate in chemical engineering from the University of South Carolina. She is also a member of the Chemical Angel Network, a group that invests in seed stage chemical and deep technology companies. She is particularly interested in creating environments for first-generation women and underrepresented individuals to thrive in their pursuit of high-tech careers.
Alex Bridge
Counsel, Patents, Intellectual Property, Hewlett Packard Enterprise

Alex Bridge has brought a creative, experienced, and technically focused style to managing the Artificial Intelligence and Software Defined Wide Area Networking patent portfolios for Hewlett Packard Enterprise. With over 7 years in patents practice and a half-decade of software engineering experience, Alex makes a point of providing both a lawyer’s and an engineer’s perspective to patent portfolio management. Alex has over a decade of exposure to AI technology, including as an undergraduate research assistant on DARPA’s Mind’s Eye project.

Tom Byers
Entrepreneurship Professor and Faculty Director of the Stanford Technology Ventures Program, Stanford University

At Stanford University since 1995, Professor Tom Byers focuses on education regarding high-growth entrepreneurship and technology innovation. He is the first holder of the Entrepreneurship Professorship endowed chair in the School of Engineering and also a Bass University Fellow in Undergraduate Education. He has been a faculty director since the inception of the Stanford Technology Ventures Program (STVP), which serves as the entrepreneurship center for the School of Engineering. His current activities at STVP include its initiative regarding applied ethics and responsible technology education, its Mayfield Fellows work/study program for undergraduates about entrepreneurial leadership, and its Stanford eCorner collection of thought leader videos and podcasts. He is a co-PI on the Hacking for Defense project sponsored by the Office of Naval Research to better connect entrepreneur-ship education with national security challenges. He was the director and PI of the Epicenter project, funded by the National Science Foundation to stimulate entrepreneurship education at all US engineering and science colleges. Tom is a co-author of the Technology Ventures: From Idea to Enterprise textbook from McGraw-Hill, now in its 5th edition.

Tom is a recipient of the prestigious Gordon Prize by the National Academy of Engineering in the USA and Stanford University’s Gores Award, which is their highest honor for excellence in teaching. He is a member of the Council on Foreign Relations, the board of trustees at Menlo College, and advisory boards at Harvard Business School and Conservation International. Tom was executive vice president and general manager of Symantec Corporation during its formation, and started his professional career at Accenture. Tom holds a BS in Industrial Engineering and Operations Research and an MBA from UC Berkeley. He also earned a PhD in Business Administration (Management Science) at UC Berkeley.
Jane Castor  
Mayor of Tampa Bay

Mayor Jane Castor is the 59th Mayor of the City of Tampa. Born and raised in Tampa, Mayor Castor has spent a lifetime in service to the community, first as a police officer, then as Tampa’s first female Chief of Police, and finally as the city’s 59th Mayor. She graduated from Chamberlain High School and attended the University of Tampa on an athletic scholarship.

Wei Chen  
Professor of Physics, University of Texas at Arlington; NAI Senior Member

Dr. Wei Chen is a professor at the department of Physics, UT Arlington. Currently he has published more than 300 papers in famous academic journals such as PNAS, Nano Letters, Signal Transduction and Targeted Therapy(Nature), Advanced Materials, Advanced Functional Materials, Materials Today Physics, Bioactive Materials, etc. Wei Chen presided over the compilation of 1 monograph (three volumes), and participated in the compilation of 13 monographs. His papers have been cited more than 11,800 times, and his H index is 62, including one paper with 699 citations, 4 papers with more than 500 citations, 13 papers with more than 200 times, 30 papers with more than 100 times. He has 20 U.S. patents granted. Dr. Chen's scientific research work has attracted wide attention and has been reported by the American TV program CBS. Dr. Chen received the University distinguished record of research and creative activity award in 2020. He is a senior member of the National Academy of Inventors, a Fellow of the International Association of Advanced Materials (Sweden) and a Vebleo Fellow, a Sigma Xi full member, Pencis fellow and a Fellow of Royal Society of Chemistry.

Janell Ciemiecki  
Awards Program Administrator, Lemelson-MIT Program

Janell Ciemiecki joined the Lemelson-MIT Program in 2017 as the Awards Program Administrator, where her primary role has been to manage all aspects of the national Lemelson-MIT Student Prize for collegiate inventors. Janell enjoys working in higher education and her past experience includes 12 years in executive education corporate relations at the Harvard Business School.
Sarah Cole
CEO, Glazer Children's Museum

Sarah Cole brings more than 18 years of experience working in museums across the U.S., including serving as the director of education and programs at Glazer when it first opened in 2010. Before joining the Glazer Children’s Museum, Cole served as the VP of guest experience at the Adler Planetarium in Chicago for five years. In this role, she was responsible for unifying the experience delivery teams – including exhibitions, customer service, public programs and theaters – to improve the guest experience. Additionally, Cole has held roles relating to the visitor experience at Carnegie Museum of Natural History in Pittsburgh and The Children’s Museum of Indianapolis. Cole has a passion for educational enrichment, community collaboration, and experience development. She is also a staunch advocate for diversity, equity, accessibility and inclusion, and is a sought-after speaker for webinars and conferences.

Cindy Cooper
Program Officer, The Lemelson Foundation

As a Program Officer for The Lemelson Foundation, Cindy Cooper supports U.S. and developing country higher education initiatives that promote invention education and invention-based entrepreneurship to improve lives. She also leads the Foundation’s efforts to equip tomorrow’s inventors with fundamental principles of environmental responsibility. Cindy previously co-founded and served as the Executive Director of Portland State University’s Impact Entrepreneurs Program, where she served as faculty teaching social innovation and entrepreneurship, co-led PSU’s successful bid for recognition as an Ashoka U Changemaker Campus, developed social innovation incubation programs and co-led the creation of the nation’s first online academic and professional certificate in social innovation and entrepreneurship. Previously, she co-founded Speak Shop, an award-winning social enterprise for learning Spanish online by video conferencing with teachers in Guatemala. She also has experience in global marketing and has consulted to corporations, foundations, and NGOs on social innovation and environmental impact projects. Cindy holds a Global M.B.A. with distinction from Thunderbird School of Global Management and earned a B.A. summa cum laude in Psychology/Spanish from Claremont McKenna College.

Santiago Corrada
President and CEO, Visit Tampa Bay

Santiago Corrada, President and CEO of Visit Tampa Bay provides oversight of agency activities and has received HSMAI's Top 25 Award for Extraordinary Minds in Hospitality, Sales and Marketing and was recognized as Hillsborough County’s Hispanic Man of the Year in 2013. Board Affiliations include Florida Aquarium, Hillsborough County Hotel Motel Association, Outback Bowl, Arts Council, Human Trafficking, Cultural Assets, Straz Center, Tampa Bay Sports Commission, Film Commission, Tampa Theatre, Tampa’s Lowry Park Zoo.
**Stephanie Couch**  
Executive Director, Lemelson-MIT Program

Dr. Stephanie Couch joined the Lemelson-MIT Program as Executive Director in 2016 where she leads research efforts, partnership development, and national awards and grants initiatives. Stephanie’s past positions include the interim Associate Vice President for Research and Professional Development at California State University, East Bay; the Bayer Executive Director at the Institute for STEM Education; and Director of the Gateways East Bay STEM Network at California State University at East Bay. She received the Biotechnology Educator of the Year Award from California Life Sciences Association; was selected as one of San Francisco Business Times’ Most Influential Women in Bay Area Business in 2016; and was inducted into Alameda County Women’s Hall of Fame in the education category.

**Robert Duncan**  
Vice President for Research and Professor, Texas Tech University (TTU); NAI Fellow

Robert V. Duncan, Ph.D., is vice president for research and a professor of physics at Texas Tech University (TTU). He formerly served as vice chancellor for research at the University of Missouri (MU). He was the Gordon and Betty Moore Distinguished Scholar in the Division of Physics, Mathematics, and Astronomy at Caltech in 2004–2005. He has published extensively in low-temperature physics, and he chaired a panel of the National Academy of Sciences on the Future of Fundamental Physics in Space in 2011. He holds 10 U.S. patents with multiple international filings. In 2004, Duncan co-invented a less-invasive type of percutaneous and intravascular cryosurgery that is currently in human clinical trials and which is based upon a genuinely new cryogenic technology. As an administrator, Duncan has supported innovation broadly within academia, and has started new student entrepreneurial programs at both TTU and MU. He is a Fellow of the National Academy of Inventors.

**Amr Elnashai**  
Vice Chancellor/Vice President for Research & Technology Transfer, University of Houston

Fellow of the British Royal Academy of Engineering, Dr. Amr Elnashai is the Vice President/Vice Chancellor for Research and Technology Transfer at the University of Houston. Previously, Dr. Elnashai served as Dean of Engineering at the Pennsylvania State University, where he held the Harold and Inge Marcus Chair of Engineering. Before serving at Penn State, he led the Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign and was named the Bill and Elaine Hall endowed professor in the department in 2007. He is founder and editor-in-chief of the Journal of Earthquake Engineering and editorial board member of several other journals, a member of the drafting panel of the European design codes, past chair of the UK earthquake engineering association, UK delegate to and past senior Vice President of the European Association of Earthquake Engineering and a member of the Council of the UK Institution of Structural Engineers. He is the winner of the Imperial College Unwin Prize for the best Ph.D. thesis in Civil and Mechanical Engineering (1984), the Oscar Faber Medal for best paper in the Institution of Structural Engineering, and two best paper medals from the International Association of Tall Buildings, Los Angeles.
**Louis J. Foreman**  
CEO, Enventys Partners; Founder & Director of Edison Nation

Louis Foreman is founder and Chief Executive of Enventys, an integrated product design and engineering firm as well as Edison Nation. Louis graduated from The University of Illinois with a degree in Economics. Over the past 34 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 U.S. Patents, and his firm is responsible for the development and filing of well over 700 more. The recipient of numerous awards for entrepreneurial achievement, his passion for small business extends beyond his own companies. Louis is an adjunct professor of Entrepreneurship and Innovation at Queens University. He received the Instructor Achievement Award for his teaching at Central Piedmont Community College and was recognized by the National Museum of Education for his Distinguished Contributions to Education. 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 University, and teaches in the Start-Up lab at Wake Forest University. In 2013, Louis was appointed by the SBA Administrator to serve on the National SBDC Advisory Board until the end of 2022. 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. In 2011, he was appointed by Secretary Gary Locke 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 U.S. 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.

**Sharon Gerecht**  
Professor of Chemical and Biomolecular Engineering, Director of the Johns Hopkins Institute of NanoBio Technology, Johns Hopkins University; NAI Fellow

Sharon Gerecht, Ph.D., is the Edward J. Schaefer Professor of Professor of Chemical and Biomolecular Engineering and director of the Institute for NanoBioTechnology (INBT) at Johns Hopkins University, with joint appointments in Materials Science and Engineering, Biomedical Engineering and Oncology Departments. Gerecht made significant contributions to stem cell engineering with focus on vascular differentiation and regeneration. She received numerous awards including the Allan C. Davis Medal from the Maryland Academy of Sciences, the CARRER award from the National Science Foundation and both the National Scientist Development Award and the Established Investigator Award from the American Heart Association. She holds eight U.S. patents and 15 U.S. patents in application of which several are licensed to companies. She founded one company. She has published over 160 articles, books and book chapters and serves on the editorial board of four peer-reviewed journals. Dr. Gerecht is an elected member of the National Academy of Medicine and National Academy of Inventors, and is an elected Fellow of the American Institute for Medical and Biological Engineering and the American Association for the Advancement of Sciences.
Frank Gupton
Floyd D. Gottwald, Jr. Chair in Pharmaceutical Engineering; Chair, Professor, Department of Chemical and Life Science Engineering, Virginia Commonwealth University; Fellow of NAI

B. Frank Gupton, Ph.D., is an internationally recognized scholar and industry expert. After attending the University of Richmond on a basketball scholarship, he received his master’s degree from Georgia Tech and his doctorate in chemistry at Virginia Commonwealth University. His 31-year industry career included senior positions with the Hoechst-Celanese Corporation and Boehringer-Ingelheim. In 2007, Gupton retired as executive director of process development for Boehringer-Ingelheim Pharmaceuticals. Gupton then joined the VCU College of Engineering faculty and became the Floyd D. Gottwald Junior Chair in Pharmaceutical Engineering in 2016. His research focuses on improving global health care by making pharmaceutical production cleaner and more cost-effective. To help advance these goals, he founded the Medicines for All Institute (M4ALL) with a simple idea: expand global access to lifesaving medications by producing them more efficiently. An inventor on multiple patents, including one for his work to produce nanoparticle catalysts supported on graphene, Dr. Gupton is a National Academy of Inventors Fellow. He received the Billy R. Martin Award for Innovation in 2017. For his efforts with M4ALL to develop cost-saving methods to produce the anti-HIV drug nevirapine, he won the 2019 Peter J. Dunn Award from the American Chemical Society (ACS). For that work, he and M4ALL chief technology officer D. Tyler McQuade, Ph.D., also won the 2018 ACS Green Chemistry Challenge Award and the 2018 ACS Award for Affordable Green Chemistry.

Randolph Hall
Professor in the Epstein Department of Industrial and Systems Engineering and Director of CREATE University of Southern California; Former VPR for USC

Randolph Hall served as vice president of research for nearly 15 years at University of Southern California, where he led research advancement, research ethics and research administration for USC’s $900 million research program, across all disciplines. His responsibilities included oversight for USC’s Stevens Center for Innovation and Institute for Creative Technologies. Dr. Hall founded and directed two national university centers of excellence (METRANS and CREATE), chaired the department of industrial and systems engineering, served as senior associate dean for research in the Viterbi School of Engineering, and authored books on queueing, patient flow, healthcare scheduling and transportation science. He continues as professor of industrial and systems engineering, with a focus on policies, practices and structures that enable universities to innovate and integrate education, research and clinical missions, Dr. Hall holds a Ph.D. in civil engineering and a BS in industrial engineering and operations research from the University of Southern California.
Brian Hartman
Managing Partner, Pharus Global

For over 25 years, Brian Hartman has been a highly sought after Commercial Lender in the banking industry. He specialized in measurable make sense lending and in building strong banking relationships, helping local individuals and companies achieve the results they desired, in order to meet their short and long-term goals.

Brian helped change the lives of many business owners over the years, by partnering with them as their Commercial Lender. He was like a bank doctor that learned about the business' symptoms, analyzed them, diagnosed them and filled their prescriptions, in order to bring them back to better business health. He did this via commercial mortgages, lines of credit, equipment loans and more.

Connecting the right people is what makes a difference in this world and Brian connects the dots as often as possible, through networking events and being on the Boards of many non-profit organizations to help them grow and prosper. Most importantly, he has realized that to achieve what matters most in life, you must be willing to give before you can receive.

Over four years ago now, Brian brought his experience forward and formed a new partnership known as Pharus Funding Partners, LLC (PFP), under the Pharus Global ecosystem of companies. PFP helps clients and prospects with financing needs for business acquisitions, expansions, commercial properties, multi family housing, construction projects, equipment, both short and long-term working capital and more. The company has expanded to also offer Personal Credit Repair and Business Credit Building.

Pedro Hernandez
Director, Technology Management and Commercialization, Florida International University

Pedro “Peter” Hernandez serves as the Director of Technology Management and Commercialization and provides overall leadership and direction for patents and licensing. He plans, develops, directs, and assesses the University’s Intellectual Property portfolio, including generation of licensing revenues. Mr. Hernandez also coordinates cooperative ventures with businesses and industries to promote FIU technology, facilitate industry-university collaboration and technology transfer, and advance the commercial use of FIU intellectual property. Peter earned a BSEE from the University of Miami, an MBA from Florida International University, and a JD from the University of Miami. He is a member of the Texas, Florida and District of Columbia bar associations, and is registered with the United States Patent and Trademark Office. Mr. Hernandez has over 30 years of experience in industry, engineering and intellectual property management, including transactional matters, business negotiations, patents, trademarks, trade secrets, and copyrights. He has negotiated agreements, licensing and technology transfers with universities, as well as provided numerous training sessions and presentations on all aspects of intellectual property. Prior to joining FIU, Peter worked as Chief Patent Counsel and Senior Counsel for companies such as Eastman Kodak, Goodrich Corporation, Texas Instruments, EndoSonics Corporation, and Motorola.
Drew Hirshfeld
Director, USPTO; Honorary NAI Member

Drew Hirshfeld is performing the functions and duties of the Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office (USPTO). Mr. Hirshfeld's permanent role is Commissioner for Patents, where he manages and leads the Patents organization as its chief operating officer. He is responsible for managing and directing all aspects of the organization that affect administration of patent operations, examination policy, patent quality management, international patent cooperation, resources and planning, and budget administration. Prior to serving as Commissioner for Patents, Mr. Hirshfeld held the positions of Deputy Commissioner for Patent Examination Policy and Chief of Staff to the Under Secretary of Commerce for Intellectual Property and Director of the USPTO. Mr. Hirshfeld began his career in 1994 as a Patent Examiner and became a Supervisory Patent Examiner in 2001. He was promoted to the Senior Executive Service in 2008 as a Group Director in Technology Center 2100.

James Howard
Executive Director, Black Inventors Hall of Fame

James Howard is a lecturer, historian, industrial designer, inventor of over 300 products, and holder of patents. He is the owner/operator of Entrepreneurial U, a specialty private school of Design Thinking. He's spent 20 years as design professor at County College of Morris, NJ and was the owner of Howard Design, an industrial design firm whose clients have included Coca-Cola, Colgate Palmolive, Johnson & Johnson, Pfizer, and the CIA. The NJ-based company was one of the longest-running, most profitable minority-owned design firms in the country. James is the executive director of the Black Inventors Hall of Fame, and is dedicated to immortalizing African Americans whose noteworthy inventions have improved lives yet gone unnoticed. He is a board member of the United States Intellectual Property Alliance, and he is presently assisting the National Inventors Hall of Fame curate their very first Black Inventors exhibit wing. He serves as subject matter expert on design thinking for the Keller Innovation Center at Princeton University. He earned both his MFA and BFA in Industrial Design at the University of Illinois, Urbana.

Ming Hsieh
Founder, Fulgent Genetics; Fellow of NAI

Ming Hsieh was born and raised in northern China and worked his way to the University of Southern California, where he earned a Bachelor of Science degree in electrical engineering in 1983 and a Master of Science degree in electrical engineering in 1984. In 1987, he founded AMAX Technology and in 1990 founded the Pasadena-based Cogent Inc., which revolutionized automated fingerprint identification. Hsieh is also a trustee of the University of Southern California.
Cal Jackson
Executive Director, Corporate Partnerships

Cal Jackson is the Executive Director, Corporate Partnerships. Cal has over 30 years of experience in corporate America in senior leadership. After completing the NTL Institute Diversity Practitioner Certification Program™, Cal worked as an equity, diversity and inclusion leader in Fortune 100 companies. In his current role, Cal introduces corporations to the Courageous Conversation™ protocol.

David Kappos
Partner, Cravath, Swaine & Moore LLP; Former Under Secretary of Commerce for Intellectual Property and Director of the USPTO from 2009 to 2013

David Kappos is a partner at Cravath and leader in the field of intellectual property, including IP management and strategy, the development of global IP norms, laws and practices and the commercialization and enforcement of innovation-based assets. From 2009 to 2013, Mr. Kappos served as Under Secretary of Commerce and Director of the U.S. Patent and Trademark Office, where he advised the President on IP policy matters. He was instrumental in achieving the passage and implementation of the 2011 Leahy-Smith America Invents Act. From 2003 to 2009, he served as IBM’s chief intellectual property lawyer.

Kattesh V. Katti
Distinguished Curators’ Professor of Radiology, University of Missouri; NAI Fellow

Globally recognized as the ‘Father of Green Nanotechnology’, Professor Kattesh V. Katti, MSc Ed, PhD, DSc, FRSC, FNAI, Curators’ Professor of Radiology, Director, Institute of Green Nanotechnology, within the Medical School, University of Missouri, Columbia, USA—is internationally renowned as a leader in the interconnecting fields of—chemistry, radiopharmaceutical sciences, nanotechnology/green nanotechnolo-gy and nanomedicine—for biomedical applications, specifically for molecular imaging and therapy of liv-ing subjects. Dr. Katti is an inventor of a new medical modality called as ‘Nano-Ayurvedic Medicine’—a new medical modality which he has discovered by the application of Green Nanotechnology to Ayurve-dic-Holistic Medicine. The US Patents and Trademarks office has approved the use of ‘Nano-Ayurvedic Medicine’ name in the products of this new medical modality. Several cancer therapy products, antiviral agents and antibiotics, discovered by Dr. Katti, are currently used in treating human patients. National Academy of Inventors—the largest Inventors Academy of the World has recently produced a documentary on Dr. Katti’s inventions which are used for combating COVID and related deadly infections: https://www.youtube.com/watch?v=OVI33BFMtk&t=13s.
Robert Langer is one of 12 Institute Professors at the Massachusetts Institute of Technology (MIT); being an Institute Professor is the highest honor that can be awarded to a faculty member. He has written over 1,500 articles, which have been cited over 352,000 times; his h-index of 293 is the highest of any engineer in history and tied for the 4th highest of any individual in any field. His patents have licensed or sublicensed to over 400 companies; he is a cofounder of a number of companies including Moderna. Dr Langer served as Chairman of the FDA’s Science Board (its highest advisory board) from 1999-2002. His over 220 awards include both the United States National Medal of Science and the United States National Medal of Technology and Innovation (he is one of three living individuals to have received both these honors), the Charles Stark Draper Prize (often called the Engineering Nobel Prize), Queen Elizabeth Prize for Engineering, Albany Medical Center Prize, Breakthrough Prize in Life Sciences, Kyoto Prize, Wolf Prize for Chemistry, Millennium Technology Prize, Priestley Medal (highest award of the American Chemical Society), Gairdner Prize, and the Dreyfus Prize in Chemical Sciences. He holds 36 honorary doctorates and has been elected to the National Academy of Medicine, the National Academy of Engineering, the National Academy of Sciences, and the National Academy of Inventors.
Cato T. Laurencin
The University Professor & Albert and Wilda Van Dusen Distinguished Endowed Professor, University of Connecticut; CEO, Connecticut Convergence Institute for Translation in Regenerative Engineering; 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. In receiving the 2021 Spingarn Medal given for the “highest or noblest achievement by a living African American during the preceding year or years in any honorable field,” the NAACP stated “His exceptional career has made him the foremost engineer-physician-scientist in the world. His breakthrough achievements have resulted in transformative advances in improving human life.” Dr. Laurencin is the first surgeon in history elected to all four National Academies: the National Academy of Sciences, the National Academy of Medicine, the National Academy of Engineering, and the National Academy of Inventors. He is the founder of the field of regenerative engineering and received the National Medal of Technology and Innovation from President Barack Obama in ceremonies at the White House, the nation’s highest honor for technological achievement.

Dr. Laurencin’s expertise encompasses broad areas of engineering, medicine, and science. In engineering, he received the Simon Ramo Founder’s Award, the oldest/highest award of the National Academy of Engineering. In medicine, he received the Walsh McDermott Medal, one of the oldest/highest awards of the National Academy of Medicine. In science, he received the Philip Hauge Abelson Prize from the American Association for the Advancement of Science, given for “signal contributions to the advancement of science in the United States”

Dr. Laurencin is internationally renowned in engineering, medicine, and science. In engineering, he is a Fellow of the Royal Academy of Engineering, a Fellow of the Indian National Academy of Engineering, and an Academician of the Chinese Academy of Engineering. In medicine, he received the UNESCO Equatorial Guinea International Prize for Research in the Life Sciences. In science, he is a Fellow of the National Academy of Sciences, India, the Benin Academy of Sciences and Arts, and the African Academy of Sciences.

Dr. Laurencin 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.
Rhea Law
President, University of South Florida, Honorary NAI Member

Rhea Law is a proud fifth-generation Floridian who is passionate about the success of the state. Actively involved in corporate, public policy, civic and charitable work, Law holds top leadership positions with many Florida-based organizations. She received gubernatorial appointments to serve on the inaugural Board of Trustees for the University of South Florida, as well as the Board of the Florida Council of 100, the public policy liaison with Florida's governor, cabinet, legislative leadership and Supreme Court. Rhea served as Chair of the Board for both organizations. Further, she served on the Presidential Search Committee for the University of South Florida in 1999 and 2019. In addition, she was a two-time Chair of the Tampa Hillsborough Economic Development Corporation and the Tampa Bay Partnership during times of reorganization and expansion. She also served as Chair of the University of South Florida Health Professions Conferencing Corporation which operates the Center for Advanced Medical Learning and Simulation and Chair of the Stetson University College of Law Board of Overseers, as well as serving on the Board of Trustees of Stetson University. Currently, Law serves on the Board of Directors of Tampa Electric Company, which supplies electricity to the Tampa area, and Peoples Gas, which provides gas throughout Florida. She also serves on the Executive Committee of the Tampa Bay Economic Development Council, the Tampa Bay Chamber, and on the H. Lee Moffitt Cancer Center Board of Directors and National Board of Advisors. As a member of the USF President’s Council Society, she is among honored donors who have made a lifetime commitment of $100,000 or more or a legacy gift to USF. Law is the former CEO and Chair of the Board of Fowler White Boggs, a Florida law firm. She led the merger of Fowler with a national firm, Buchanan Ingersoll & Rooney in 2014 where she continued to serve as Chair, Florida Offices until 2021. The consolidation of the firms created a powerhouse firm with law offices throughout the country and hundreds of lawyers who specialize in a broad spectrum of business areas such as Energy, Finance, Healthcare and Life Sciences.
Julia Ljubimova
Professor, Teraski Institute for Biomedical Innovation; NAI Fellow

Julia Ljubimova obtained her MD degree from Kiev National University, Kiev, Ukraine and Ph.D. from Academy of Sciences of Ukraine, Kiev, Ukraine. She completed her postdoctoral training at the Department of Cell Biology, Baylor College of Medicine, Houston, TX and Department of Pathology at the University of California, San Diego.

Dr. Ljubimova's discovery-oriented research has resulted in a number of high impact inventions in the new class of nanomedicines and cancer treatment methods. Dr. Ljubimova has directed studies combining basic research in specific human tumor markers with translational new drug engineering. Nano immuno therapy for the breast and brain tumor local immune modulation is one of the newest projects started in her laboratory. The combined delivery of checkpoint inhibitors to the tumor site together with inhibitors of tumor molecular markers is a new promising approach in cancer therapy actively developed by Dr. Ljubimova.

Dr. Ljubimova's technology has contributed to higher education, research and welfare to society at large. Her inventions have inspired both academicians and industrialists globally to investigate economically viable and most importantly, clinically effective ways of using nanomaterials. This contributed to economic developments nationally and internationally. Dr. Ljubimova's inventions in cancer treatment have made transformative difference in the field of anti-cancer medicines and constantly continue to play

Since 2006, Dr. Ljubimova has obtained over $31.5 million through NIH grants, and $20 million from industry and private extramural funding. She has recently completed a preclinical study of a nanodrug to treat glioblastoma on non-human primates, Cynomolgus macaques for new drug submission to IND/FDA. She is a holder of 21 US, European, Japanese and Australian patents in the field of nanomedicine.
Michelle Marcolongo
Drosdick Endowed Dean of the College of Engineering, Villanova University, Fellow of NAI

Dr. Michele Marcolongo is the Drosdick Endowed Dean of Engineering at Villanova University where she is also a Professor of Mechanical Engineering. Prior to this position, she has served as Senior Associate Vice Provost for Translational Research at Drexel University, Associate Dean of Intellectual Property for the College of Engineering and Associate Vice Provost for Research. Most recently, she was Department Head of Materials Science and Engineering, where she was a faculty member for over twenty years. Dr. Marcolongo’s field of research is biomaterials or materials that can be implanted into the body to replace diseased or damaged tissues. Specifically, she works on injectable biomaterials and macromolecules to replace and augment degenerated soft tissues. Dr. Marcolongo has co-founded three companies. She is a fellow of NAI, AIMBE, and Alpha Sigma Mu. She has authored a book, Academic Entrepreneurship (Wiley 2017), a “how-to” on translating research from discovery to commercialization for academics. Dr. Marcolongo received her doctorate from the University of Pennsylvania, Philadelphia and had worked for GE and DuPont before joining academia.

Richard Maulsby
Senior Advisor to NAI, Former Associate Commissioner for Innovation Development at the USPTO

Richard Maulsby has been a Senior Advisor to the National Academy of Inventors since his retirement from the United States Patent and Trademark Office in 2015. During a 20 year career at the USPTO he served as Director of Public Affairs and Associate Commissioner for Patents. In that capacity he was responsible for all aspects of the agency’s external and internal communications and its outreach to the intellectual property community. Prior to joining the USPTO, Richard worked in broadcasting, video production and public affairs in Washington, DC. A native of Nebraska, he received a BA from the University of Nebraska Lincoln’s Johnny Carson School of television, film and theatre. Richard also received an MA from the State University of New York at Buffalo. He currently resides in Sarasota, Florida.

Andrew Maas
Associate Vice President for Research - Technology Transfer; Director, Office of Innovation & Technology Commercialization, Louisiana State University

Andrew J. Maas (Andy) joined LSU in June 2014 and is currently the Associate Vice President for Research and Director of the Office of Innovation & Technology Commercialization. Andy is an engineer by training with a BS and MS in Civil Engineering from Brigham Young University and the University of Texas at Austin, respectively. He is a licensed professional engineer in the state of Texas where he worked for several years and grew a start-up engineering company from two individuals to 14 employees. Andy also has a JD from the University of Akron School of Law, as well as a LLM with a focus on intellectual property. His research focus for his LLM degree was “early stage patent valuation under the new America Invents Act.” He has been published in the Journal of the United States Patent and Trademark Office, as well as in Cement and Concrete Research.
Dr. Subhra Mohapatra is a Professor of Molecular Medicine at the University of South Florida (USF) and a Research Career Scientist at the James A Haley VA Hospital. She is a Senior Member of the National Academy of Inventors, and the current President of the USF Chapter of the NAI. Dr. Mohapatra is an interdisciplinary researcher with a broad background in chemistry and immunology, whose work employing cell molecular biology and nanoscale technologies over the past 25 years has been instrumental in advancing the frontiers tissue engineering and regenerative medicine. She holds numerous patents for her work several of which have been licensed. She pioneered a tumor-on-a-disc technology involving a nanofiber-inspired smart scaffold that uniquely allows tumor generation from cancer cells and allow tailoring of personalized cancer treatment. This platform has led to a line of cell biology products including 3D nano fiber discs, tumor microtiter plates, and customized 3D tumors for drug discovery research, which are being commercialized globally. In addition to cancers, pioneering research in her lab has identified key immune targets for brain inflammation and injury that have led to the design of novel therapies for traumatic brain injury and for long-hauler COVID-19. She is the co-founder of TransGenex Nanobiotech, Inc., and Agile Diagnostics Inc, which respectively commercializes drugs targeting cancer stem-cells and POC diagnostics.
Valentine Nzengung
Environmental Geochemistry Professor University of Georgia; NAI Fellow

Valentine Asongu Nzengung, Ph.D., is Professor of Environmental Geochemistry at the University of Georgia. For over 26 years, he has worked to move innovative environmental remediation technologies from the academic laboratory to the field. Nzengung holds multiple patents focusing on sustainable environmental remediation methods, most notably breakthrough technologies for neutralization and destruction of conventional and homemade explosives, and chemical warfare agents. His inventions are designated by the U.S. Environmental Protection Agency and the National Academies of Sciences, Engineering and Medicine among mature alternative technologies to open burning and open detonation of conventional explosives. He is the founder of MuniRem Environmental, LLC, University of Georgia Entrepreneur of the Year in 2016, and named a Georgia Groundbreaker in 2020. Nzengung has published over 110 peer-reviewed journal articles, book chapters, conference proceedings, and reports, has served on multiple peer review panels, and consults as a subject matter expert on international chemical security.

Ellen Ochoa
Chair, National Science Board; Former Director of NASA’s Johnson Space Center; First Latina Astronaut in Space; NAI Fellow

Ellen Ochoa was the Director of NASA’s Johnson Space Center in Houston, TX from 2013 until her retirement in May 2018. She became the first Latina to go to space when she flew on a nine-day mission aboard the shuttle Discovery in 1993. She has flown in space four times, logging nearly 1,000 hours. She currently serves on several boards including as Chair of the National Science Board. Prior to her astronaut career, Dr. Ochoa was a research engineer and holds three patents for optical systems. She received a B.S. in Physics from San Diego State University, and both an M.S. and Ph.D. in Electrical Engineering from Stanford University. She is a member of the National Academy of Engineering and a Fellow of NAI, AAAS, AIAA, and OSA. She is honored to have six schools named for her and has been inducted into the Astronaut Hall of Fame.

Tom O’Neal
Associate Vice President of Research & Commercialization, University of Central Florida

Nationally recognized as an “entrepreneur in the business of helping entrepreneurs,” Dr. Tom O’Neal is dedicated to creating and supporting successful and sustainable innovation ecosystems in Florida. Tom’s efforts focus on building strong research programs at UCF and the transfer and commercialization of research results into the marketplace. This work helps to build an innovation based economy for Central Florida. Currently, Tom is the Associate Vice President of Research & Commercialization at the University of Central Florida. He also serves as the Executive Director of the UCF Business Incubation Program and the Florida Economic Gardening Institute. Some of his areas of responsibility include the sponsored programs office, technology transfer, compliance, the venture lab, the UCF Business Incubation Program and the Florida’s Economic Gardening Institute. Tom has been part of UCF’s Office of Research & Commercialization team working to help UCF become a leading metropolitan research university since 2000. He also serves as a core member of the Florida High Tech Corridor Council.
Sethuraman Panchanathan
Director, National Science Foundation; NAI Fellow

The Honorable Sethuraman Panchanathan is a computer scientist and engineer and the 15th director of the U.S. National Science Foundation (NSF). Panchanathan was nominated to this position by the President of the United States in 2019 and subsequently unanimously confirmed by the U.S. Senate on June 18, 2020. NSF is an $8.5B independent federal agency and the only government agency charged with advancing all fields of scientific discovery, technological innovation and STEM education. Panchanathan is a leader in science, engineering and education with more than three decades of experience. He has a distinguished career in both higher education and government, where he has designed and built knowledge enterprises, which advance research innovation, strategic partnerships, entrepreneurship, global development and economic growth. Panchanathan previously served as the executive vice president of the Arizona State University (ASU) Knowledge Enterprise, where he was also chief research and innovation officer. He was also the founder and director of the Center for Cognitive Ubiquitous Computing at ASU. Under his leadership, ASU increased research performance fivefold, earning recognition as the fastest growing and most innovative research university in the U.S. Prior to joining NSF, Panchanathan served on the National Science Board as chair of the Committee on Strategy and as a member of the External Engagement and National Science and Engineering Policy committees. Additionally, he served on the National Advisory Council on Innovation and Entrepreneurship. He was chair of the Council on Research of the Association of Public and Land-grant Universities and co-chair of the Extreme Innovation Taskforce of the Global Federation of Competitiveness Councils. Arizona's Governor appointed Panchanathan as senior advisor for science and technology in 2018. He was the editor-in-chief of the IEEE Multimedia Magazine and editor/associate editor of several international journals. Panchanathan's scientific contributions have advanced the areas of human-centered multimedia computing, haptic user interfaces, person-centered tools and ubiquitous computing technologies for enhancing the quality of life for individuals with different abilities; machine learning for multimedia applications; medical image processing; and media processor designs. He has published close to 500 articles in refereed journals and conference proceedings, and has mentored more than 150 graduate students, postdocs, research engineers and research scientists, many now occupy leading positions in academia and industry. For his scientific contributions, Panchanathan has received numerous awards, such as Distinguished Alumnus Awards and the Governor's Innovator of the Year for Academia Award for his development of information technology centric assistive and rehabilitative environments to assist individuals with visual impairments. Panchanathan is a fellow of the National Academy of Inventors, where he also served as vice president for strategic initiatives. He is also a fellow of the American Association for the Advancement of Science, the Canadian Academy of Engineering, the Association for Computing Machinery, the Institute of Electrical and Electronics Engineers and the Society of Optical Engineering. Panchanathan is married to Sarada “Soumya” Panchanathan, an academic pediatrician and informatician, who has taught medical students, pediatric residents and informatics fellows. They have two adult children, Amritha and Roshan.
Rodney Priestley
Vice Dean for Innovation, and Professor of Chemical and Biological Engineering,

Rodney Priestley grew up watching documentaries on National Geographic. He originally considered studying marine biology or geology. During high school he became increasingly interested in chemistry. Priestley eventually studied chemical engineering at Texas Tech University and graduated in 2003, where he competed in long jump. As part of a Research Experiences for Undergraduates programme at the University of Connecticut Priestley first encountered polymers; with the look to develop artificial bone materials. He completed his doctoral research at Northwestern University, where he studied nanoscale confinement of polymers. In particular, Priestley made use of fluorescence and dielectric spectroscopy to investigate how confinement and interfacial effects impacted the glass transition temperature and physical ageing of polymers. Priestley was a postdoctoral fellow at the Ecole Superieure de Physique et de Chimie Industrielles de la Ville de Paris (ESPCI).

In 2009 Priestley returned to the United States and joined the faculty at Princeton University. At Princeton, Priestley studies the nanoscale properties of materials, and how to tune these for novel device applications. He has continued to study the glass transition temperatures of polymers, with a focus on the controlled formation of thin films and nanocolloids. Priestley has studied the transition temperatures of substances that are composed of two or more polymers, attaching fluorescent reporting tags to the different components and using the brightness of the tag to infer whether the polymer is in a glassy or rubbery phase. As part of this work, Priestley studied plexiglas, a composite system of poly(methyl methacrylate) (PMMA) and poly(butyl methacrylate) (PBMA) that is found in coronary stents and paints. He combines experimental studies with computational investigations to better understand the distribution of the PMMA and PBMA throughout the plexiglass. Through his understanding of phase transitions, Priestley has shown that it is possible to precisely control nanostructures, and realised self-assembled biopolymers for use in artificial skin. Alongside his work on polymeric systems, Priestley has investigated nanoparticles, specifically engineered nanoscale zerovalent iron (enZVI) particles, as a means to clean groundwater. He proposed the use of Janus particles for the use in surfactant-free cleansing.

In 2019 Priestley was promoted to full Professor, and was one of the first African-Americans to hold such a position at Princeton University. In 2020 he was made Vice Dean of Innovation. He is the founder of the science-based Cativa health cannabidiol. Priestley is an Associate Editor of JACS Au, an open-access journal.
Stephen Saddow
Professor of Electrical Engineering, University of South Florida; NAI Senior Member

Dr. Stephen E. Saddow received his doctorate in electrical engineering from the University of Maryland at College Park in 1993 and is currently Professor in the Department of Electrical Engineering and Professor in the Department of Medical Engineering at the University of South Florida (USF), Tampa, FL. He also is currently Collaborating Scientist at the Italian Synchrotron Light Source (Elettra, Beamline BEAR); and a Guest Researcher at the National Cancer Institute. He was elected Fellow of the AIMBE for seminal contributions to the field of Silicon Carbide (SiC) Biomedical Technology, significantly advancing in vivo biomedical devices and systems. Dr. Saddow is a Senior Member of the IEEE and National Academy of Inventors and holds more than 15 Patents, mostly on SiC biomedical device technology.

Paul R. Sanberg
President, National Academy of Inventors; NAI Fellow

Paul R. Sanberg, Ph.D, FNAI, is the president and founder of the NAI. A Florida native, he is also a Distinguished University Professor of medicine, engineering and business, and the executive director of the Center of Excellence for Aging and Brain Repair at the University of South Florida. His work has been instrumental in translating new pharmaceutical and cellular therapeutics to clinical trials and commercialization for stroke, ALS, Alzheimer’s, Tourette’s syndrome, and Parkinson’s disease. He has significant experience with start-ups, venture capital, and pharmaceutical companies. He is an inventor on 55 U.S. and over 100 foreign patents; author of over 700 scientific articles and 14 books and is highly cited. He has served on the editorial boards for over 30 scientific journals, is editor-in-chief of NAI’s journal, Technology & Innovation, and has received numerous scientific awards. These have included AAAS-Lemelson Invention Ambassador; AIMBE Fellow Advocate Award; Australian National University Alumni Award; Bryden Alumni Award (York University); Florida Academy of Science Medal; Florida Inventors Hall of Fame Inductee; Fulbright Specialist to Australia; Johns Hopkins Society of Scholars; McGovern Science and Society Award; Fellow of AAAS, IEEE, BMES, ACNP, AIMBE, NAI (Charter), Sigma Xi (Inaugural) and ASEMFL (Inaugural). He was educated in Canada and Australia and elected Fellow of six Royal Societies, including Aeronautics (Master Flight Instructor), Arts, Biology, Chemistry, Public Health, and Medicine. He has served on numerous advisory boards and committees, e.g. U.S. National Medal of Technology and Innovation; USPTO-Smithsonian; and APLU Commission on Innovation, Competitiveness and Economic Prosperity.
George Smith  
Nobel Laureate, Curators’ Distinguished Professor Emeritus of Biological Sciences, University of Missouri, Columbia; Honorary NAI Member

Dr. George P. Smith received his Bachelor of Arts degree in biology from Haverford College in 1963 and his Ph.D. in bacteriology and immunology from Harvard University in 1970. From 1970 to 1975 he was a postdoctoral fellow at the University of Wisconsin in the laboratory of Oliver Smithies, who shared the 2007 Nobel Prize in Physiology or Medicine. Dr. Smith joined the Division of Biological Sciences at the University of Missouri in Columbia as Assistant Professor in 1975, and continued there as Associate Professor and Professor until his retirement in 2015. Dr. Smith’s training was in molecular immunology, and that continued to be a focus of his research throughout his career. That was the context of his work developing phage display technology, for which he shared the 2018 Nobel Prize in Chemistry with Greg Winter and Frances Arnold.

Andy Singer  
Associate Dean for Innovation and Entrepreneurship, Fox Family Professor of Engineering, Director, Technology Entrepreneur Center, University of Illinois at Urbana-Champaign

Dr. Andrew C. Singer received the S.B., S.M., and Ph.D. degrees, all in electrical engineering and computer science, from the Massachusetts Institute of Technology in 1990, 1992, and 1996, respectively. Since 1998, he has been on the faculty of the Department of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign, where he is currently holds the Fox Family Endowed Professorship and the rank of Professor in the Electrical and Computer Engineering Department and serves as Associate Dean for Innovation and Entrepreneurship in the College of Engineering. He also holds the rank of Professor in the Departments of Industrial and Enterprise Systems Engineering and in the Department of Business Administration in the College of Business. During the academic year 1996, he was a Postdoctoral Research Affiliate in the Research Laboratory of Electronics at MIT. From 1996 to 1998, he was a Research Scientist at Sanders, A Lockheed Martin Company in Manchester, New Hampshire, where he designed algorithms, architectures and systems for a variety of DOD applications. His research spans algorithms and architectures for statistical signal processing and communication systems, as well as information theory and machine learning. He was a Hughes Aircraft Masters Fellow, and was the recipient of the Harold L. Hazen Memorial Award for excellence in teaching in 1991. In 2000, he received the National Science Foundation CAREER Award, in 2001 he received the Xerox Award for Outstanding Faculty Award, and in 2002 was named a Willett Faculty Scholar. He has received numerous awards and honors, including Best Paper Awards from the IEEE Solid State Circuits Society in 2006 for his paper in the Journal of Solid State Circuits, and in 2008 from the IEEE Signal Processing Society for his paper in the Signal Processing Magazine. Dr. Singer has served as an Associate Editor for the IEEE Transactions on Signal Processing and is a member of the MIT Educational Council, and of Eta Kappa Nu and Tau Beta Pi. He is a Fellow of the IEEE and was selected as a Distinguished Lecturer of the IEEE Signal Processing Society in 2014.
Jayde Stewart  
Former Director, National Academy of Inventors

Jayde V. Stewart, MS served as Director of the National Academy of Inventors (NAI) from 2018 through 2021. In this role, she upheld the mission of NAI to encourage and promote the importance of academic innovation and invention for current and future generations. She helped grow the organization to a network of over 4,000 inventor members and 250+ institutions worldwide, launching key programs and initiatives to provide tangible resources and value including the Global Academic Inventors Network mentorship platform, Innovation Certificate and IP Curriculum, the Senior Member program, and two video series: ScholarShare webinars and From Campus to Commerce. She served as the liaison to key partners and leaders, including the United States Patent and Trademark Office, NAI Board of Directors, United States Intellectual Property Alliance Board and a number of academic institutions and non-profit/governmental agencies worldwide. Jayde is a dedicated professional with extensive experience in business management, development and operations. She earned her bachelor’s degree in public health from the University of Pennsylvania and a master’s degree in entrepreneurship in applied technologies from University of South Florida. She received the USF Women in Leadership & Philanthropy Virginia Gregory Endowment in Entrepreneurship Scholar award, the Outstanding Student of the Year Award and Michael W. Fountain scholarship and the Onyx Honor Society honor award. She is an elected member of The Junior League of Tampa and certified in Post-Crisis Leadership and Diversity, Equity and Inclusion in the Workplace. She will soon assume the role of National Outreach Partnerships Specialist for the United States Patent & Trademark Office.

Paul Sohl  
CEO, Florida High Tech Corridor

Paul Sohl is CEO of the Florida High Tech Corridor Council, an economic development initiative of the University of Central Florida, the University of South Florida and the University of Florida, to attract, retain and grow high tech industry and innovation – and the workforce to support it – in a 23-county region. As CEO, he facilitates collaboration between the three universities and their partners in economic development, and oversees The Corridor Council’s portfolio of programs, including its Matching Grants Research Program and its K-12 educational resource stemCONNECT. Sohl joined The Corridor Council in June 2020, following more than three decades of service in the U.S. Navy as an F/A-18 Hornet pilot, test pilot and acquisition professional. Sohl holds a bachelor’s degree in aeronautical engineering from the Massachusetts Institute of Technology and a master’s degree in aeronautical and astronautical engineering from Stanford University. Additionally, he is a graduate and former Commanding Officer of the U.S. Naval Test Pilot School, Patuxent River, Maryland.
Sarayu Srinivasan
Venture Capital Investor; Entrepreneur; Executive; White House Presidential Innovation Fellow, National Institute of Standards

Sarayu Srinivasan is a venture capitalist, technology executive and operator. She recently served as a Senior Advisor and White House Presidential Innovation Fellow detailed to the Office of Management and Budget (OMB) in the White House and to the National Institute of Standards and Technology (NIST), specifically recruited for her venture capital and industry expertise.

At OMB, Sarayu supported the establishment of the public-private partnership GEAR Center and its extensive network of best-in-class private sector resources to help solve large scale federal management and operational challenges across agencies including driving new technology adoption, improved citizen services and more effective stewardship of public resources.

At NIST, Sarayu was the venture capital expert on the National Science and Technology Council (NSTC) Lab-to-Market subcommittee working with all federal agencies including DOD, NASA, DOE, NIH, NGA, DOT, SBA, FDA, USDA and National Laboratories to drive better engagement between investors, industry and federally-funded innovation. She also advised agencies on creating more entrepreneurial environments, tech transfer, innovation and investment matters.

Prior to federal service, Sarayu was CEO/Founder of KAARGO, a mission-driven consumer transport and logistics marketplace backed by the Chairmen/CEOs of Intel and Loews. She was also a Visiting Scholar at the University of Edinburgh, visiting EIR/VIR at Arizona State University, and a lecturer at universities globally including Columbia, Hult, Kenan-Flagler, École Nationale des Ponts et Chaussées, Copenhagen Business School, MIT, École des Mines, Harvard and NYU.

Earlier, Sarayu was a venture capitalist with Intel Capital investing in sector agnostic technology companies in the US, India & the emerging markets. Sarayu moved from the US to India to launch and deploy Intel’s first $250M emerging markets fund and build out an ecosystem and network across Eurasia & the US to support Intel’s mission. Select investments include IndiaMART (IPO), Comat (acquired by Glodyne), and Microland. Earlier, Sarayu was a venture partner co-founding firms alongside scientific principals, while running a growth accelerator.

Prior to her investment career, Sarayu held senior operating roles at a series of successful early-stage technology pioneers, beginning with heading marketing for converged communications pioneer uReach (acquired by Genband). Sarayu was also a brand manager at Pepsi, running two $300M brands. During her tenure, her brand Mug moved from three to two in-category and won a national competitive claim. Sarayu was also responsible for Pepsi’s first brand websites. Sarayu held a research fellowship at the Harvard Business School, where she was asked to join the PhD program, authoring a body of research and award-winning textbooks while developing a popular C-level exec-ed program for leaders entering emerging markets.

As an analyst and author, Sarayu has published a range of academic and practitioner’s literature and is a frequent speaker on VC, global investment, and entrepreneurship. Sarayu earned a BA in Architecture from Barnard College/Columbia University, Certificates in Medieval European Studies and Shakespeare from Cambridge University, an MBA from Ecole Nationale des Ponts et Chaussées, and held a research fellowship at the Harvard Business School pre-Phd.
Brian Treece
Mayor of Columbia, Missouri

Brian Treece is the Mayor of Columbia, Missouri, currently serving his second term in office. Before becoming mayor Treece was chairman of the Downtown Leadership Council and served on the city’s Historic Preservation Committee. He and his wife Mary Phillips founded the lobbying firm TreecePhillips in Jefferson City, Missouri; in 2011 they married at their home in Columbia. He has been an advocate for transparency in government and has called for a city-wide audit. Treece announced the hiring of Columbia’s newest city manager John Glascock on July 15, 2019. He has described himself as a “fiscal conservative.” As Mayor he is chair of the Columbia City Council.

Warren Tuttle
Former President, United Inventors Association

Warren Tuttle has for many years overseen the Open Innovation product programs for several industry leading companies including Lifetime Brands in the housewares and table top arenas (Farberware, Kitchen Aid and 40 other brands), Techtronsics Industries Power Tool Group in the power tool and hardware industries (Ryobi, Rigid, Hart Tools and other brands) and Merchant Media in the Direct Response Television category (Smart Spin, True Touch and many other brands). He was also the person behind the launch of several highly successful consumer products including MISTO, The Gourmet Olive Oil Sprayer and the SmartSpin Storage Container System. Warren personally interacts with many thousands of inventors every year and has initiated well over 100 new consumer product licensing agreements that have collectively generated over a billion dollars in retail sales. Warren is also a well-known advocate for inventor rights. He served for 12 years as the President of the United Inventors Association Board of Directors, a national 501c3 non-profit with high ethical standards that helps inventors through education, advocacy and the sponsorship of inventor booth pavilions at several industry trade shows, most notably the National Hardware Show. Warren is also a member of the National Pro Bono Patent Commission and the United States Patent and Trade-mark Office National Council for Expanding American Innovation. Warren’s new book, Inventor Confidential: The Honest Guide to Profitable Innovation, is published by Harper Collins and available on Amazon. He lives with his wife Lynn in Southern Connecticut and has three wonderful daughters, all well-educated and working. He enjoys skiing, motorcycling, golf and travel. Please visit Warren’s website www.tuttleinnovation.com or email him at wwtuttle@yahoo.com for more information.
Antoine van Agtmael
Senior Advisor, FP Group; Co-Author, The Smartest Places on Earth: Why Rustbelts Are the Emerging Hotspots of Global Innovation

Mr. van Agtmael is senior adviser at the FP Group that publishes Foreign Policy Magazine. He founded and was for 25 years CEO/CIO of Emerging Markets Management LLC, a successful investment firm with investments in emerging Asia, Latin America, Eastern Europe, the Middle East and Africa. Earlier, he worked at Bankers Trust, TISCO, the World Bank and IFC (where he coined the term "emerging markets"). He is co-author of *The Smartest Places on Earth* and author of *The Emerging Markets Century*. He is board chair of the Smithsonian’s National Museum of Asian Art (Freer Sackler Galleries), a Trustee of Brookings, the NPR Foundation (and its former chair), and was on the board of Magnum Photos and NPR. He is also a member of the Advisory Board of Yale’s Jackson Institute and its President’s Council on International Activities. He is a graduate of Erasmus University in Rotterdam, has an MA in Russian and East European Studies from Yale and an MBA from New York University’s Stern School.

Phil Weilerstein
Chief Executive Officer, entureWell

Phil has led VentureWell since its founding in 1996 and today serves as President and CEO. By developing and expanding VentureWell’s programs on a national and global scale, Phil has helped advance VentureWell’s mission to solve global challenges through science- and technology-driven innovation and entrepreneurship. He’s accomplished this goal by designing and overseeing a suite of programs that encourage and support the deeper engagement of higher education and research institutions in curricular innovation, and developing and strengthening innovation communities. Phil is committed to sharing VentureWell’s learnings and resources to support the creation of inclusive and more equitable pathways for student innovators to succeed in venture creation. Under Phil’s leadership, VentureWell has collaborated with key science funding agencies, major philanthropies, and hundreds of universities to train and support thousands of emerging students, researchers and faculty innovators. After celebrating VentureWell’s milestone 25-year anniversary in 2021, Phil remains driven to fortify the broader innovation ecosystem and continue guiding the launch of groundbreaking innovations.

Phil attended the University of Massachusetts where he was a co-founder of a bio-technology company developing naturally occurring pest control products. He is a Founder and Past Chair of the ASEE Entrepreneurship Division, and a recipient of the 2008 Price Foundation Innovative Entrepreneurship Educators Award, the 2014 Engineering Entrepreneurship Pioneers Award from ASEE, and the 2016 Deshpande Symposium Award for Outstanding Contributions to Advancing Innovation and Entrepreneurship in Higher Education. pweilerstein@venturewell.org
Helena Wisniewski
Chair, Management, Marketing, Logistics, and Business Analytics Department, Professor of Entrepreneurship, University of Alaska Anchorage, NAI Fellow

Dr. Helena S. Wisniewski, a Fellow of NAI, has extensive leadership experience in industry, government, and academia, and service on boards. At University of Alaska Anchorage (UAA), as Vice Provost for Research and Graduate Studies she led and significantly grew the research and technology commercialization enterprises. She is Founding Director of the Arctic Domain Awareness Center that she created to develop technologies to improve crisis response to Arctic maritime challenges. Currently, as Professor of Entrepreneurship and Chair, Management and Marketing Department, created their first AI course and established the first Alaskan NAI Chapter. Prior to UAA, she was Vice President for Research and Enterprise Development at Stevens Institute of Technology, where she tripled research revenues, and launched nine startups. She was an executive at Lockheed, and a Vice President at the Titan Corporation, and ANSER. As CEO and Founder of Aurora Biometrics, she built an international business, and sold the company. At DARPA, she identified and directed breakthrough advances in science and engineering including AI, as Manager of the Applied and Computational Mathematics Program. Prior to DARPA, she served at the CIA. The Alaska Governor, appointed her to his Alaska Development Team, to grow private sector jobs and diversify the economy. She is a co-author of the book *Creating an Eco System for Academic Entrepreneurship*, with R. Hisrich, and T. Stanco. She received awards for outstanding leadership, and contributions to advancements in scientific research and technology. She earned her Ph.D. in mathematics from the Graduate Center of CUNY; MS in mathematics, Stevens Institute of Technology; and BA in mathematics, William Paterson University where she is a Distinguished Alumni.
Arizona State University (ASU) is a top-ranked public metropolitan research university, with five academic campuses and four innovation campuses across greater Phoenix and four regional learning centers throughout Arizona. ASU is a comprehensive public research university, measured not by whom we exclude, but rather by whom we include and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves. For three years in a row, U.S. News & World Report has ranked ASU as the #1 Most Innovative School in America.

Auburn University, chartered in 1856, is a public land-grant, sea-grant, and space-grant institution with an enrollment of 29,000 students and a three-part mission of teaching, research, and outreach. Recognized in the Carnegie Classification as a “Higher Research Activity” doctoral university, AU has a $5.4 billion annual impact on the state economy and features a growing research park established in 2008. Strategic areas of research emphasis include health sciences, advanced manufacturing, and cybersecurity.

NAI is honored to welcome The Chinese University of Hong Kong (CUHK) as its first Sustaining International Member Affiliate. The university, which overlooks Tolo Harbour, is the largest educational institution in Hong Kong, averaging twenty-thousand students each year. The university is honored to be ranked #53 in the world.

With a strong focus on innovation, CUHK’s top areas of research are Interdisciplinary and Translational Biomedical, Artificial Intelligence, and Robotics & Automation. “As a member of the NAI community, we look forward to increasing recognition of the economic impact generated from academic discovery at CUHK,” says Daniel HS Lee AVPO and Chief Innovation and Enterprise Officer at the university. “It also offers our researchers a direct communication channel with others in their specialized areas of concentration. This access to the NAI network is invaluable for collaborating.”
Established in 1809, Miami University is consistently ranked among the top 50 national public universities by U.S. News & World Report for providing students with an Ivy League-quality education at a public school price. Located in quintessential college town Oxford, Ohio—with regional campuses in Hamilton and Middletown, a learning center in West Chester, and a European study center in Luxembourg—Miami serves more than 21,600 undergraduates across 120 areas of study, and more than 2,500 graduate students through 70 master’s and doctoral degree programs. At this comprehensive research university, students engage and conduct research with premiere teacher-scholars. Miami adds $2.3 billion each year to Ohio’s economy through innovative partnerships and job creation. Miami is a NCAA Division I school, serving more than 500 student athletes across 19 varsity sports.

Founded in 1831, NYU is one of the world’s foremost research universities and is a member of the selective Association of American Universities. NYU has degree-granting university campuses in New York, Abu Dhabi, and Shanghai; has eleven other global academic sites, including London, Paris, Florence, Tel Aviv, Buenos Aires, and Accra; and both sends more students to study abroad and educates more international students than any other U.S. college or university. Though its numerous schools and colleges, NYU is a leader in conducting research and providing education in the arts and sciences, engineering, law, medicine, business, dentistry, education, nursing, the cinematic and performing arts, music and studio arts, public administration, social work, and professional studies, among other areas.

NC State University is a research powerhouse and a powerful economic engine for North Carolina. The Office of Research Commercialization (ORC) plays a crucial role in this by protecting and promoting University research discoveries and intellectual property, working with and guiding industry partners, and promoting the acceleration of startups. We’re driving economic growth by facilitating the commercialization of research discoveries.
SUSTAINING MEMBERS

PRINCE MOHAMMAD BIN FAHD UNIVERSITY

Founded in 2006, PMU is a fast growing private institution of higher learning in the Kingdom of Saudi Arabia. This university, with its highly innovative student-centered approach to impart education, offers a chance to students to explore genuine paths to learn and innovate when being groomed for their future roles as hardcore professionals. PMU intends on building its potential and entrepreneurial spirit through its colleges, to be a leader in conducting research and providing education in the engineering, computer science, business, law and other areas.

TEXAS TECH UNIVERSITY

Texas Tech University is located in Lubbock, Texas. Created by legislative action in 1923 as Texas Technological College, the name was changed to Texas Tech University in 1969. Campus physical facilities include a total of 7,449,218 square feet in 188 buildings. The university is composed of more than 26,400 undergraduate, 5,200 graduate and 700 law students. Annually, total research expenditures exceed $125 million. The Carnegie Foundation classifies Texas Tech University as a RU/H: Research Universities (high research activity).

UNIVERSITY OF CALIFORNIA RIVERSIDE

The University of California, Riverside (UCR) is a powerful engine of economic growth for Inland Southern California and beyond, having contributed more than $2.7 billion to the U.S. economy during the fiscal year 2015-16 alone. UCR students and visitors contribute more than $287 million to the Inland region. The campus proudly partners with entrepreneurs, corporate leaders, and fellow research enterprises from around the world.

UNIVERSITY OF CENTRAL FLORIDA

The University of Central Florida (UCF) and its 13 colleges provide opportunities to 66,000 students from all 50 states and 140 countries. Located in Orlando, Florida, UCF is the nation’s second-largest university with 210 degree programs to choose from. UCF is ranked as one of the “Most Innovative” universities by U.S. News & World Report, a best-value university by The Princeton Review and Kiplinger’s, and one of the nation’s most affordable colleges by Forbes.
The University of Florida’s mission is to prepare our students to lead and influence the next generation and beyond for economic, cultural and societal benefit. Recognized as among the top 10 public universities by U.S. News & World Report, UF is one of the nation’s largest public universities, and is the only member of the Association of American Universities in Florida. UF scientists and scholars conduct about $800 million in research annually and UF consistently ranks among the top universities at transferring its discoveries to the marketplace. Teaching, research and scholarship, and service span all of UF’s academic disciplines and represent its commitment to be a premier university that the state, nation and world look to for leadership.

The University of Nebraska–Lincoln is a top-tier national research university and a member of the Big Ten Academic Alliance. Like the university’s founders in 1869, students and faculty at Nebraska look challenges and opportunities in the eye, using fresh thinking and creativity to forge new paths. The expansive geography of the state fosters a closeness and collaboration that makes way for solutions applied nearby and around the world, including innovative public-private partnerships and through Nebraska Innovation Campus, the university’s rapidly growing research campus. Nebraska is the state’s flagship and land grant university and continues to grow in size and prominence. Nebraska has nearly 26,000 students and more than 180 undergraduate and 120 graduate degree programs, and is ranked as a best-value university by Fiske Guide to Colleges, Kiplinger’s and others.

The University of South Florida, established in 1956 and located in Tampa, is a high-impact, global research university dedicated to student success. The USF System includes three campuses: USF Tampa; USF St. Petersburg; and USF Sarasota-Manatee. Serving more than 49,000 students, the USF System has an annual budget of $1.6 billion and an annual economic impact of $4.4 billion. USF is ranked in the Top 30 nationally for research expenditures among public universities, according to the National Science Foundation. In 2016, the Florida Legislature designated USF as “Emerging Preeminent,” placing USF in an elite category among the state’s 12 public universities. USF is a member of the American Athletic Conference.
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Arizona State University
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Australian National University
Baylor College of Medicine
Ben-Gurion University of the Negev
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Drexel University
Dublin City University
Duke University
East Carolina University
Embry-Riddle Aeronautical University
Emory University
Florida A&M University
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Florida Institute of Technology
Florida International University
Florida International University
Florida Polytechnic University
Florida State University
Georgetown University
Georgia State University
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Harvard University
Hualien Tzu Chi Hospital
Idaho State University
Illinois Institute of Technology
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National Taiwan University
Naval Information Warfare Center - NIWC Pacific
New College of Florida
New Jersey Institute of Technology
New Mexico State University
New York University
North Carolina State University
North Dakota State University
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University of Colorado Denver
University of Connecticut
University of Dayton
University of Delaware
University of Evansville
University of Florida
University of Georgia
University of Houston
University of Idaho
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University of Iowa
University of Kansas
University of Kentucky
University of Limerick
University of Louisiana Lafayette
University of Louisville
University of Maryland
University of Massachusetts Amherst
University of Massachusetts Boston
University of Massachusetts Lowell
University of Massachusetts Medical School
University of Miami
University of Michigan
University of Minnesota
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University of Missouri-St. Louis
University of Nebraska-Lincoln
University of Nevada, Las Vegas
University of Nevada, Reno
University of New Hampshire
University of North Dakota

University of North Florida
University of North Texas
University of Oregon
University of Pennsylvania
University of Pittsburgh
University of Queensland
University of Rhode Island
University of Rochester
University of South Alabama
University of South Carolina
University of South Florida
University of Southern California
University of Virginia
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University of Wisconsin-Madison
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University of Wollongong, Australia
Utah State University
Vanderbilt University
Virginia Commonwealth University
Virginia Polytechnic Institute and State University
Wake Forest University
Washington State University
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LEADING SPONSORS

The Florida High Tech Corridor Council (The Corridor Council) is an economic development initiative of three of the country’s largest research institutions: University of Central Florida, University of South Florida and University of Florida. Chaired by presidents of the three universities, its mission is to grow high tech industry and innovation – and the workforce to support it – in a 23-county region known as The Florida High Tech Corridor (The Corridor). By facilitating collaborations between partners in academia, industry and economic development, The Corridor Council creates communities with unlimited potential. Learn more at www.floridahightech.com and search “Florida High Tech” to connect on Twitter, LinkedIn and Facebook.

Based in Portland, The Lemelson Foundation uses the power of invention to improve lives. Inspired by the belief that invention can solve many of the biggest economic and social challenges of our time, the Foundation helps the next generation of inventors and invention-based businesses to flourish. The Lemelson Foundation was established in the early 1990s by prolific inventor Jerome Lemelson and his wife Dorothy. To date the Foundation has made grants totaling more than $290 million in support of its mission. For more information, visit http://www.lemelson.org.

HOSTING INSTITUTIONS

See Sustaining Members page
Established in 2009, King Abdullah University of Science and Technology (KAUST) is a graduate research university devoted to finding solutions for some of the world’s most pressing scientific and technological challenges in the areas of food, water, energy and the environment. With 19 research areas related to these themes and state of the art labs, KAUST has created a collaborative and interdisciplinary problem-solving environment, which has resulted in over 11,000 published papers to date. With over 100 different nationalities living, working and studying on campus, KAUST has brought together the best minds and ideas from around the world with the goal of advancing science and technology through distinctive and collaborative research. KAUST is a catalyst for innovation, economic development and social prosperity in Saudi Arabia and the world.
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2019 FELLOW
QIZHI CATHY YAO
MD, PhD
Professor of Surgery, Molecular Virology & Microbiology and Pathology & Immunology

2020 FELLOW
ANANTH ANNAPRAGADA
PHD
Professor of Radiology and OB/GYN, Vice Chief for Research & Director of Basic Research, Texas Children’s Hospital - Radiology

2021 SENIOR MEMBER
JAMES MARTIN
MD, PhD
Director of the Cardiomyocyte Renewal Lab, Texas Heart Institute and Professor of Molecular Physiology

THEY JOIN A LEGACY OF NAI FELLOWS & SENIOR MEMBERS AT BCM

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MD, PhD

2016
MARTIN MATZUK
MD, PhD

2017
E. LYNN ZECHIEDRICH
PhD

2018
MARY ESTES
PhD

2018
HUDA ZOGHBI
MD

2018
BERT O’MALLEY
MD

For more information:
www.bcm.edu
CELEBRATING REAL TRIUMPHS!
Florida International University congratulates the Fellows and Senior Members of the National Academy of Inventors

2019 FELLOW
MADHAVAN P. NAIR
Distinguished Professor and Chair, Department of Immunology and NanoMedicine; Director, Institute of Neuromune Pharmacology; Associate Dean of Bio-Medical Research, Associate Vice President for NanoMedicine
Herbert Wertheim College of Medicine

2020 FELLOWS
JOHN L. VOLAKIS
Dean, College of Engineering & Computing and Professor
Electrical and Computer Engineering Department
NAPHTALI RISHE
Professor
School of Computing and Information Sciences

2020 SENIOR MEMBER
ARVIND AGARWAL
Chair and Distinguished Professor
Mechanical and Materials Engineering Department

2021 SENIOR MEMBER
ANURADHA GODAVARTY
Associate Professor and Undergraduate Program Director
Biomedical Engineering Department

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Blue Knight offers physical residency at select JLABS locations, as well as a virtual engagement option. Physical residency is available at:
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- Automated Cell Counter
- Spectrophotometer
- Microcentrifuges and Benchtop Centrifuge
- PCR System
- Benchtop 3D printer
- Fragment Analyzer and Next Generation Sequencing
- Flow Cytometer
Congratulations to Penn State’s 2021 National Academy of Inventors Inductees

Vijaykrishnan Narayanan
A. Robert Noll Chair Professor, School of Electrical Engineering and Computer Science, College of Engineering

- Pioneered open-source architectural power estimation methodologies and tools
- Developed embedded vision systems for assistive, defense, and commercial applications
- Supervised 110 graduate students, many of whom have gone on to lead successful startups and commercial products

John Mauro
Professor, Department of Materials Science and Engineering, College of Earth and Mineral Sciences

- Invented high-strength glasses for personal electronic devices, including Corning Gorilla Glass products
- Developed new models for glass structure, thermodynamics, kinetics, and mechanics
- Authored two textbooks, 300 journal publications, and 61 granted U.S. patents
Anton Hopen
Past USF NAI Chapter President
U.S. Registered Patent Attorney
Board Certified Intellectual Property
TO THOSE AMONG US WHO ARE MAKING A BETTER WORLD,
THANK YOU

Tech Launch Arizona congratulates the University of Arizona innovators honored by the National Academy of Inventors.

LAURENCE HURLEY
Professor Emeritus, Medicinal Chemistry

ROBERT NORWOOD
Professor, Optical Sciences

EUGENE GERNER
Professor Emeritus, Cellular & Molecular Medicine

MEREDITH HAY
Professor, Physiology

MAY KHANNA
Assistant Professor, Pharmacology

THOMAS MILSTER
Professor, Optical Sciences

LUCA CAUCCI
Assistant Professor, Medical Imaging

MINYING CAI
Research Professor, Chemistry & Biochemistry

Thank you for all you do to make a better world for all.

techlaunch.arizona.edu

Tech Launch Arizona  @UATechLaunch
THE UNIVERSITY OF GEORGIA congratulates its faculty on their recent elections to the National Academy of Inventors.

2021 FELLOW

Dr. Rahul Shrivastav is vice president for instruction at UGA and a prominent researcher in the field of assistive communication technology and speech sciences. The holder of nine U.S. patents, Shrivastav was cofounder of Audigence, Inc., which developed solutions to enhance hearing aid performance and secured more than $3.5 million in funding before its technology was licensed to the world’s leading manufacturer of cochlear implants. He created the company while serving as director of the University of Florida’s Voice Acoustics and Perception Laboratory.

2021 SENIOR MEMBERS

Mark Eiteman
Professor
College of Engineering

Mark Jackwood
J.R. Glisson Professor of Avian Medicine
College of Veterinary Medicine

Holly Sellers
Professor
College of Veterinary Medicine

2020 SENIOR MEMBERS

Richard Meagher
Distinguished Research Professor of Genetics

Ron Orlando
Professor
Biochemistry & Molecular Biology; Chemistry

Moving technologies to the marketplace
research.uga.edu/gateway
CONGRATULATIONS
to all the University of Illinois Urbana-Champaign faculty members who are fellows and senior members in the National Academy of Inventors!

FELLOWS

XIUING LI  
Professor, Electrical and Computer Engineering

STEPHEN BOPPART  
Professor, Electrical and Computer Engineering

JIANJUN CHENG  
Professor, Materials Science and Engineering

DAVID KRANZ  
Professor, Biochemistry

PAUL HERGENROTHER  
Professor, Chemistry

SENIOR MEMBERS

ARJIT BANERJEE  
Assistant Professor, Electrical and Computer Engineering

PENGFEI SONG  
Assistant Professor, Electrical and Computer Engineering

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A Carnegie Research-1 institution and Texas Tier One university, The University of Texas at Arlington is home to 19 NAI fellows, the most in Texas. The University celebrates the innovative spirit, intellectual curiosity, and entrepreneurial ambition that drive the newest class of inductees. Congratulations to all.

UT Arlington is proud to recognize our newest inductees to the National Academy of Inventors

FELLOWS
David Hunn and Surendra Shah

SENIOR MEMBERS
Pranesh Aswath, Wei Chen, Haiying Huang, Hanli Liu, Kytai Nguyen, Zui Pan, Gabriela Wilson, and Robert Woods

UTA.EDU
USF President Rhea Law Welcomes the NAI’s 10th Annual Meeting to Tampa

The University of South Florida Congratulates its Newest NAI Fellows

Venkat R. Bhethanabotla 2020
Richard Heller 2020
Jean-Francois A. Rossignol 2020
Samuel Wickline 2019
Fred Leonberger 2019

USF Senior Members

2021
Mildred Acevedo-Duncan
Sanjukta Bhanja
Julianne Harmon (awarded posthumously)
Stephen Saddow
Jing Wang

2020
Barry Bercu
Wayne Guida
Clifford Merz
Niketa Patel
Manoj Ram
Cyndy Sanberg

2019
Cesario Borlongan
Robert Frisina
George Philippidis
Sylvia Thomas

2018
Norma Alcantar
Dominic D’Agostino
Subhra Mohapatra
Kyle Reed

Look for USF faculty, technology transfer experts and students throughout the meeting

usf.edu
Inspired by inquiry.

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Congratulations to our 2020 inductees into the National Academy of Inventors: From left, Fellow Eric Beckman; Senior Members Bryan Brown, Michael Lotze and Kacey Marra.
The UConn NAI Chapter congratulates new Fellows and Senior Members of the National Academy of Inventors.

**Fellows**
Dr. Ki Chon (2020)
Dr. Thomas C. Katsouleas (2020)

**Senior Members**
Dr. Mostafa Analoui (2021)
Dr. Yupeng Chen (2021)
Dr. Gregory Gallo (2021)
Dr. Chengchun Liu (2021)
Dr. Randall Spencer (2020)
CONGRATULATIONS

NAI FELLOW INDUCTEES OF 2021

James Hickman

Martin Richardson

and all 14 University of Central Florida NAI Fellows
Florida Atlantic University congratulates Jang-Yen Wu, Ph.D., Schmidt Senior Fellow and Distinguished Professor in the Charles E. Schmidt College of Medicine on being named a 2020 NAI Senior Member.

Dr. Wu’s discoveries have led to the development of novel treatments that improve the lives of patients afflicted with neurodegenerative diseases such as Parkinson’s disease, epilepsy and stroke.

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USC Viterbi School of Engineering congratulates 2019 & 2020 National Academy of Inventors Fellows

Gianluca Lazzi 2019
Keith Chugg 2020
Gerald Loeb 2020
Neil Siegel 2019
C.-C. Jay Kuo 2020

Where Possibility Meets Opportunity

There’s a campus-wide movement occurring at East Carolina University®. ECU innovators are turning their ideas into reality and translating their research into technology that’s helping eastern North Carolina and beyond.

ECU’s robust innovation ecosystem helps inventors and entrepreneurs along the way. From start to finish, ECU’s Office of Innovation and New Ventures is there, from helping to find grants that jumpstart research projects to patent signings and product launches.

ECU’s innovation-minded programs and resources — including I-Corps@ECU, the Small Business and Technology Development Center at ECU, and entrepreneur-focused collaboration spaces — are making a difference. Whether it’s a new medical therapeutic, software, or a life-saving device, our Pirates are steering the innovation ship in eastern North Carolina.

HTTPS://REDE.ECU.EDU/INNOVATION/

Congratulations, Dr. Moore!
National Academy of Inventors Senior Member
East Carolina University’s Office of Innovation and New Ventures congratulates College of Human Health and Performance Assistant Professor Sharon Rogers Moore on her accomplishment!
The Donnelly Centre for Cellular and Biomolecular Research congratulates

Sachdev Sidhu, Ph.D.

2020 National Academy of Inventors Fellow

Dr. Sidhu is Director of the Toronto Recombinant Antibody Centre (TRAC), a state-of-the-art laboratory for protein engineering and therapeutic antibody development. For over a decade, the TRAC’s powerful technologies and highly productive collaborations have enabled the production of thousands of therapeutic-grade antibodies and biologics against numerous diverse targets. Interested in collaborating with the TRAC? Email sachdev.sidhu@utoronto.ca

The Thomas J. Watson College of Engineering and Applied Science congratulates

Professor Lijun Yin
from the Department of Computer Science

2021 National Academy of Inventors Senior Member

Binghamton University
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Congratulations to Ravi Sandhu, Ph.D.
Lutcher Brown Endowed Chair
Professor, Computer Science
Director, Institute for Cyber Security
The University of Texas at San Antonio

for his induction into the National Academy of Inventors

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Carrick Detweiler
Susan J. Rosowski
Associate Professor of Computer Science and Engineering
2021 Senior Member of the National Academy of Inventors

NAI Fellows from the University of Nebraska:
David A. Horsley, Ph.D.
2020 Fellow of the National Academy of Inventors

David Horsley is a professor of mechanical and aerospace engineering at UC Davis. He is known for his innovative micro-electromechanical sensors (MEMS) technology for next-generation sensors and actuators for consumer electronics. He is the co-founder and chief technology officer of TDK-Chirp microsystems, which manufactures ultrasonic sensors using MEMS technology. These small, low-power sensors use sonar to detect objects in 3D.

Other applications have included drone and robot navigation, precise 3D tracking for virtual/augmented reality/gaming and wearable tags for COVID-19 contact tracing. He holds 21 issued and licensed U.S. patents and 11 patent pending applications.
Florida Inventors Hall of Fame congratulates our Inductees who are Fellows or Senior Members of the National Academy of Inventors

Norma Alcantar 2018
Michael Bass 2013
Issa Batarseh 2015
Emery Brown 2015
William Dalton 2013
Mark Dean 2014
Kenneth Ford 2012
Richard Gitlin 2012
D. Yogi Goswami 2012
Robert Howard Grubbs 2013
Robert Holton 2018
Richard Houghten 2012
Thomas Lipo 2012
Alan List 2012
Alan Marshall 2016
T. Dwayne McCay 2016
Mary Helen McCay 2017
Shyam Mohapatra 2012
Israel Morejon 2016
Nicholas Muzyczka 2016
Joshua Rokach 2018
Jean-François Rossignol 2020
Paul R. Sanberg 2012
Andrew Schally 2015
Christine Schmidt 2018
Sudipta Seal 2013
Marion J. Soileau 2012
Nan-Yao Su 2012
Shin-Tson Wu 2012
Janet Yamamoto 2014

floridainvents.org
KAUST Innovation congratulates Dr. Donal Bradley, Vice President for Research and Distinguished Professor of Materials Physics & Device Engineering at KAUST on his fellowship to the National Academy of Inventors.

Professor Bradley is a pioneer in the field of soluble semiconductors and his work has contributed to numerous technology developments and created new fields of study. His discoveries have also led to his co-invention of polymer light-emitting diodes which have been used in solar energy generation, electronics, imaging and sensing, and photonics.

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<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Name</th>
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<tbody>
<tr>
<td>AAAS</td>
<td>American Association for the Advancement of Science</td>
</tr>
<tr>
<td>AACR</td>
<td>American Association for Cancer Research</td>
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<td>AAM</td>
<td>American Academy of Microbiology</td>
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<td>AAP</td>
<td>Association of American Physicians</td>
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<td>AAU</td>
<td>American Association of Universities</td>
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<td>ACerS</td>
<td>American Ceramic Society</td>
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<td>ACM</td>
<td>Association for Computing Machinery</td>
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<td>ACS</td>
<td>American Chemical Society</td>
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<td>AHA</td>
<td>American Heart Association</td>
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<td>AIC</td>
<td>American Institute of Chemists</td>
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<td>AIChe</td>
<td>American Institute of Chemical Engineers</td>
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<td>AIMBE</td>
<td>American Institute for Medical and Biological Engineering</td>
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<td>APA</td>
<td>American Psychological Association</td>
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<tr>
<td>APLU</td>
<td>Association of Public and Land-grant Universities</td>
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<td>APMI</td>
<td>American Powder Metallurgy Institute</td>
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<td>APS</td>
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<td>APhilS</td>
<td>American Philosophical Society</td>
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<td>ASCE</td>
<td>American Society of Civil Engineers</td>
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<td>ASCI</td>
<td>American Society for Clinical Investigation</td>
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<td>ASEE</td>
<td>American Society for Engineering Education</td>
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<td>ASM</td>
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<td>ASM International</td>
<td>American Society for Metals International</td>
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<td>ASME</td>
<td>American Society of Mechanical Engineers</td>
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<td>AUTM</td>
<td>Association of University Technology Managers</td>
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<td>BMES</td>
<td>Biomedical Engineering Society</td>
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<td>DARPA</td>
<td>Defense Advanced Research Projects Agency</td>
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<td>FDA</td>
<td>U.S. Food and Drug Administration</td>
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<td>HHMI</td>
<td>Howard Hughes Medical Institute</td>
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<td>IAPR</td>
<td>International Association of Pattern Recognition</td>
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<td>IEEE</td>
<td>Institute of Electrical and Electronics Engineers</td>
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<td>IET</td>
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<td>NIST</td>
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<td>NSF</td>
<td>National Science Foundation</td>
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<td>OSA</td>
<td>Optical Society of America</td>
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<td>PAS</td>
<td>Pontifical Academy of Sciences</td>
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<td>PECASE</td>
<td>Presidential Early Career Award for Scientist and Engineers</td>
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<td>RSC</td>
<td>Royal Society of Chemistry</td>
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<td>SDB</td>
<td>Society for Developmental Biology</td>
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<td>SFB</td>
<td>Society for Biomaterials</td>
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<td>SPIE</td>
<td>International Society for Optics and Photonics</td>
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<td>TMS</td>
<td>The Minerals, Metals and Materials Society</td>
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<td>U.S. DoD</td>
<td>United States Department of Defense</td>
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<td>U.S. DOE</td>
<td>United States Department of Energy</td>
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<td>USPTO</td>
<td>United States Patent and Trademark Office</td>
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Congratulations to our 2019, 2020 and 2021 inductees, who join their colleagues in a legacy of excellence that will be felt for generations.

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12 NAI Fellows and Senior Members

#42 NAI 2020 worldwide universities granted U.S. utility patents

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