



FLORIDA INVENTORS HALL OF FAME

5th Annual Induction Ceremony & Gala

Friday, September 7, 2018
Hilton Tampa Downtown ■ 211 North Tampa Street
Tampa, Florida

Florida Senate Resolution

By Senator Brandes

.....
A resolution recognizing the inaugural year of the Florida Inventors Hall of Fame,
located at the University of South Florida in Tampa.

WHEREAS, Florida is a state where innovation, research, and discovery thrive and where great American inventors, such as Thomas Edison, have lived and worked, and

WHEREAS, the Florida Inventors Hall of Fame endeavors to encourage individuals of all ages and backgrounds to strive toward the betterment of Florida and society through continuous, groundbreaking innovation, and

WHEREAS, the Florida Inventors Hall of Fame is located at the University of South Florida in order to honor and celebrate the inventors from this state whose achievements have advanced the quality of life of all Americans, and

WHEREAS, the Florida Inventors Hall of Fame will be one of only seven state inventors halls of fame in the nation which will recognize the best and brightest inventors from their respective states, and

WHEREAS, the Florida Inventors Hall of Fame is led by an advisory board consisting of exceptional individuals from the private and public sectors and academia, and

WHEREAS, the inductees to the Florida Inventors Hall of Fame will be chosen by a selection committee composed of equally distinguished members, and

WHEREAS, the inaugural class of inventors inducted to the Florida Inventors Hall of Fame will be recognized in September 2014, NOW, THEREFORE,

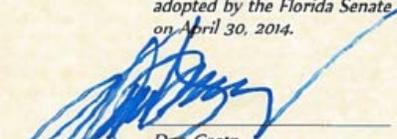
Be It Resolved by the Senate of the State of Florida:

That the Florida Inventors Hall of Fame is recognized on the occasion of its inaugural year for its commitment to honoring inventors and celebrating innovation, discovery, and excellence in this state and that the University of South Florida is commended for founding this institution.

BE IT FURTHER RESOLVED that a copy of this resolution be provided to the Florida Inventors Hall of Fame for display as recognition of the Senate's support of innovation in Florida.



This is a true and correct copy
of Senate Resolution No. 1756,
adopted by the Florida Senate
on April 30, 2014.



Don Gaetz
President of the Senate

ATTEST:



Debbie Brown
Secretary of the Senate



United States
of America

Congressional Record

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Vol. 164

WASHINGTON, WEDNESDAY, JUNE 6, 2018

No. 93

House of Representatives

HON. GUS M. BILIRAKIS OF FLORIDA

Extension of Remarks

Florida Inventors Hall of Fame 2018

Wednesday, June 6, 2018

Mr. BILIRAKIS. Mr. Speaker, I rise today to honor the seven inventors who have been recognized as the 2018 Inductees of the Florida Inventors Hall of Fame. In order to be named as an inductee, these inventors were nominated by their peers nationwide and have undergone the scrutiny of the Florida Inventors Hall of Fame Selection Committee. As a result, their innovations have been identified as significantly impacting the quality of life, economic development, and welfare of their communities, the citizens of Florida, and the United States.

The Florida Inventors Hall of Fame was founded in 2013 by Paul R. Sanberg, Senior Vice President for Research, Innovation and Knowledge Enterprise, and Judy Genshaft, President, at the University of South Florida. It was recognized by the Florida Senate with Senate Resolution 1756, adopted on April 30, 2014. Its mission is to encourage individuals of all backgrounds to strive toward the betterment of Florida and society through continuous, groundbreaking innovation by celebrating the incredible scientific work that has been or is being accomplished in Florida and by its citizens. Nomination to the Florida Inventors Hall of Fame is open to all

Florida inventors (living or dead) who are or have been residents of Florida. The nominee must be a named inventor on a patent issued by the United States Patent and Trademark Office. The impact of the inventor and his or her invention should be significant to society as a whole, and the invention should have been commercialized, utilized, or led to important innovations.

The 2018 inductees of the Florida Inventors Hall of Fame are: Sara Blakely, Tampa Bay native and graduate of Florida State University in Tallahassee, who invented the renowned undergarment SPANX and built a billion dollar enterprise that has influenced fashion worldwide; Emery N. Brown, born and raised in Ocala, anesthesiologist-statistician at Massachusetts General Hospital, MIT and Harvard professor, who made significant contributions to the advancement of the science and practice of anesthesiology; Phillip A. Furman, St. Augustine resident and distinguished alumnus of the University of South Florida in Tampa, whose revolutionary discoveries led to the development of antiviral drugs that are used to treat some of the most insidious viral diseases; Richard A. Houghten, founder and CEO of Torrey Pines Institute for

Molecular Studies, headquartered in Port St. Lucie, who has made a significant impact on the pharmaceutical industry through his novel approaches to drug discovery; Edwin A. Link (1904–1981), former trustee and vice president for the Harbor Branch Oceanographic Institute at Florida Atlantic University in Boca Raton, who invented the flight simulator, commercialized in 1929; Sudipta Seal, Trustee Chair, Pegasus and University Distinguished Professor at the University of Central Florida in Orlando, whose discoveries led to groundbreaking therapeutic applications in regenerative nano-medicine; Herbert Wertheim, optometric physician, graduate of the University of Florida in Gainesville, and honorary alumnus of Florida International University in Miami, who was the first to discover and produce ultraviolet light dye absorbers for eyeglass lenses. Innovation and invention are the building blocks of our nation. I applaud these highly accomplished individuals and the organizations that support them in their quest to change the world in ways that truly benefit humanity. Furthermore, it is because of the perseverance of these inventors that future generations are encouraged to reach beyond their limits and push the boundaries of innovation.

Florida Inventors Hall of Fame Exhibit

Indoor Exhibit Open Monday - Friday, 8 am - 6 pm
Outdoor Exhibit Open 24 hours





Welcome to the 5th Annual Induction Ceremony and Gala of the Florida Inventors Hall of Fame. We are honored to have you with us this evening.

The Florida Inventors Hall of Fame was founded in 2013 to honor and celebrate those inventors whose achievements have advanced the quality of life for Floridians, our state, and our nation. It is a privilege to be recognizing, for the fifth year in a row, the inventive spirit that is helping Florida to stand out as a leader in innovation and industry growth.

The Florida Inventors Hall of Fame was recognized on April 30, 2014, with a resolution passed by the Florida Senate to honor outstanding Florida inventors. The resolution, adopted at the request of Senator Jeff Brandes, recognizes the Florida Inventors Hall of Fame “for its commitment to honoring inventors and celebrating innovation, discovery, and excellence in this state.” With this year’s class we will have inducted a total of 35 inventors from throughout Florida.

Nomination to the Florida Inventors Hall of Fame is open to all Florida inventors (living or deceased) who are or have been residents of Florida and whose connection to Florida has informed their inventive work. The nominee must be a named inventor on a patent issued by the United States Patent and Trademark Office. The impact of the inventor and his or her invention(s) should be significant to society as a whole and should have been commercialized, utilized, or have led to important innovations.

Each year inductees are nominated by their peers through an open and highly competitive nomination process. The nominations are reviewed by our Selection Committee, comprising distinguished experts in relevant fields of innovation throughout the state. Nominees elected to the Hall of Fame are inducted at our annual gala, where their achievements are honored and their influence on society acknowledged and celebrated.

On behalf of the Florida Inventors Hall of Fame Advisory Board, we thank President Judy Genshaft and the University of South Florida for their vision and collaboration in founding and hosting the Florida Inventors Hall of Fame over the past five years.

We also thank our Corporate Partner, the Florida High Tech Corridor Council, and our companion Corridor universities — University of Central Florida and University of Florida — whose continued and generous support has been instrumental in the success of the Florida Inventors Hall of Fame.

And, finally, we are incredibly grateful to all of our valued sponsors, new and returning, for helping make this possible.

Paul R. Sanberg
Chair, Advisory Board
Florida Inventors Hall of Fame

*All
creative people
want to do
the
unexpected.*

—Hedy Lamarr

Program

MASTER OF CEREMONIES

Bill Green

OPENING REMARKS

Paul R. Sanberg
Chair, Florida Inventors Hall of Fame Advisory Board

President Judy Genshaft
University of South Florida System

Andrew Hirshfeld
*Commissioner for Patents
United States Patent and Trademark Office*

INDUCTION CEREMONY

Commissioner Hirshfeld
Dr. Sanberg

• INDUCTEES •

SARA BLAKELY

Tampa Bay native and graduate of Florida State University, who invented the renowned undergarment SPANX™ and built a billion dollar enterprise that has influenced fashion worldwide
Clearwater

EMERY N. BROWN, M.D., PH.D.

Born and raised in Florida, anesthesiologist-statistician at Massachusetts General Hospital, MIT and Harvard professor, for his innovative contributions that have significantly advanced the neuroscience and practice of anesthesiology
Ocala

PHILLIP A. FURMAN, PH.D.

Distinguished alumnus of the University of South Florida, for his revolutionary discoveries that led to the development of antiviral drugs that are used to treat some of the most insidious viral diseases
St. Augustine

RICHARD A. HOUGHTEN, PH.D.

Founder and CEO of Torrey Pines Institute for Molecular Studies for his novel approaches to drug discovery that have made a significant impact on the pharmaceutical industry
Port St. Lucie

EDWIN A. LINK (1904-1981)

Former trustee and vice president for Harbor Branch Oceanographic Institute at Florida Atlantic University, a pioneer in aviation, underwater archaeology, and submersibles, who invented the Blue Box flight simulator, commercialized in 1929
Boca Raton

SUDIPTA SEAL, PH.D.

Trustee Chair, Pegasus and University Distinguished Professor at the University of Central Florida, whose work in transition metal and rare earth oxides led to groundbreaking therapeutic applications in regenerative nano-medicine
Orlando

HERBERT A. WERTHEIM, O.D., D.Sc., M.D. (HC)

Optometric physician, graduate of the University of Florida and honorary alumnus of Florida International University, who was the first to discover and produce ultraviolet light dye absorbers for eyeglass lenses
Miami

Speakers



Bill Green, CEO

*Bill Green Enterprises, LLC
On Air Guest Host, Sales & Media Trainer*

Bill Green is the founder of Bill Green Enterprises, LLC, providing On-Air Guest Hosting Services for the Home Shopping Network (HSN) based in St. Petersburg, Florida, and The Shopping Channel (TSC), a Rogers Communications Company located in Ontario, Canada, as well as Sales & Media Training, and Consulting to electronic and brick and mortar retailers. Prior to starting his own company, Bill served for over 23 years as the Creator and Director of Quality Assurance for HSN's Fine and Fashion Jewelry Division. During his career at HSN, the world's pioneer of electronic retailing, Bill established himself as one of the most successful male sales professionals on television in electronic retailing. As a multi-category host, Bill professionally and credibly presented just about every type of merchandise in the retail industry and became one of the most well versed, well "liked" and "followed" male show hosts by viewers of all demographics, with a strong expertise in fine fashion jewelry and watches, electronics, home fashions, home organization, kitchen, cooking and culinary, women's apparel, accessories & shoes, do-it-yourself, outdoor lawn and garden, crafts and scrapbooking, and more. His unique, entertaining, sometimes comical yet sincere and down-to-earth personality connected with viewers and kept them coming back for more. Bill is a native Floridian and has served as master of ceremonies for the Florida Inventors Hall of Fame since its inception.



Paul R. Sanberg

*Chair, Florida Inventors Hall of Fame Advisory Board
2015 Inductee, Florida Inventors Hall of Fame*

Dr. Paul R. Sanberg is senior vice president for research, innovation and knowledge enterprise, Distinguished University Professor, and executive director of the Center of Excellence for Aging and Brain Repair at the University of South Florida, and founder and president of the National Academy of Inventors (NAI). He holds over 160 U.S. and foreign patents. His work has been instrumental in translating new pharmaceutical and cellular therapeutics to clinical trials and commercialization for Tourette syndrome, stroke, ALS, Alzheimer's, Huntington's, and Parkinson's disease. He is the author of more than 660 scientific publications and 14 books, with over 31,864 citations to his published work. He is a Charter Fellow of the NAI, 2015 Medalist of the Florida Academy of Sciences, Fellow of the American Association for the Advancement of Science, American Institute for Medical and Biological Engineering, and Royal Societies of Chemistry, Public Health and Medicine, and AAAS-Lemelson Invention Ambassador.



President Judy Genshaft

*University of South Florida System
Florida Inventors Hall of Fame Advisory Board*

Dr. Judy Genshaft serves as president of the University of South Florida System, one of the world's most comprehensive metropolitan research universities. USF ranks among the Top 50 research universities nationwide in total research expenditures, according to the National Science Foundation, and fifth among U.S. public universities in generating new U.S. utility patents. Serving more than 50,000 students, the three institutions of the USF System — USF in Tampa, USF St. Petersburg and USF Sarasota-Manatee — have an annual economic impact of \$4.4 billion. USF is a Charter Member Institution of the National Academy of Inventors.



Andrew H. Hirshfeld, Esq.

*Commissioner for Patents, U.S. Patent and Trademark Office (USPTO)
Florida Inventors Hall of Fame Advisory Board*

As Commissioner for Patents, Andrew Hirshfeld manages and leads the patent organization as its chief operating officer. He is responsible for managing and directing all aspects of this organization which affect administration of patent operations, examination policy, patent quality management, international patent cooperation, resources and planning, and budget administration. In his previous role as Deputy Commissioner for Patent Examination Policy, Hirshfeld served as an authority on patent laws, rules, and examining practice and procedure, and provided administrative oversight and direction for the activities of the Office of Petitions, Office of Patent Legal Administration, and the Office of the Manual of Patent Examining Procedure. Further, Hirshfeld established patent examination and documentation policy standards for the Commissioner for Patents. Prior to serving as Deputy Commissioner for Patent Examination Policy, he was the Chief of Staff to the Under Secretary of Commerce for Intellectual Property and Director of the USPTO. Hirshfeld began his career at the USPTO in 1994 as a Patent Examiner.

The United States Patent and Trademark Office America's Innovation Agency

is pleased to join in recognizing and congratulating the
2018 inductees of the Florida Inventors Hall of Fame



Congratulations!

uspto

"To raise new questions, new possibilities, to regard old problems from a new angle, requires creative imagination and marks real advance in science."

— Albert Einstein

UNITED STATES
PATENT AND TRADEMARK OFFICE

uspto

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FLORIDA INVENTORS
HALL OF FAME
INDUCTEES





Sara Blakely

Founder, SPANX®

Graduate, Florida State University

Native Floridian

- 3 U.S. patents •

SARA BLAKELY was born in Clearwater, Florida and graduated from Florida State University with a degree in communications. She worked part time at Walt Disney World in Orlando and later found employment at a local stationery company, Danka Imaging, supplementing her income selling fax machines door-to-door. The weather in Florida was extremely hot and humid and wearing traditional pantyhose everyday was not pleasant. In an attempt to continue to benefit from control top smoothness, Blakely set out to invent a kind of pantyhose that did not have seamed toes and did not roll up on her thighs. After self-patenting her idea, Blakely decided to spend her life's savings of five thousand dollars to follow her dream of becoming an entrepreneur.

Blakely moved to Atlanta, Georgia, to meet with several garment manufacturers, many of whom turned her away. Her persistence finally paid off when she met with Sam Kaplan, owner of Highland Mills. While he initially did not show any interest in Blakely's idea, Kaplan asked his two daughters whether they would be interested in wearing and buying such a product. Both of them instantly said yes and mass production of Blakely's invention began. She received her first batch of undergarments and launched sales from her apartment in August 2000.

Blakely came up with the name Spanx, trademarked it, and designed the logo herself on a friend's computer. This one-product wonder has now become a favorite clothing staple of millions, including numerous Hollywood stars, making SPANX® a must have for women worldwide. By 2014, annual revenues reached \$250 million with Blakely never having to acquire any outside investment or marketing strategies. Blakely's invention was authentic and her success continues to inspire women to follow their dreams.

Blakely founded the Sara Blakely Foundation, which helps women pursue education and training in entrepreneurship. She also funds scholarships for young females in Africa at Community and Individual Development Association City Campus. Blakely appeared on the Oprah Winfrey Show in 2006, making a donation of one million dollars to Oprah Winfrey's Leadership Academy and was a guest judge on the reality series American Inventor. In 2012, *Time Magazine* included her among the 100 most influential people in the world. Additionally, in 2013, Blakely signed the Giving Pledge and joined the ranks of the world's richest philanthropists, giving away half of her wealth to charity. While she considers Atlanta to be her home base, Blakely still owns a home in Clearwater where she grew up.





Emery N. Brown, M.D., Ph.D.

*Director, Neuroscience Statistics Research Lab
Massachusetts General Hospital
Warren M. Zapol Professor of Anaesthesia
Harvard Medical School*

*Edward Hood Taplin Professor of Medical Engineering and of Computational Neuroscience
Massachusetts Institute of Technology
Native Floridian*

• 3 U.S. patents •

EMERY NEAL BROWN was born in Marion County, Florida, where he attended Fessenden Elementary and Middle Schools, Osceola Junior High School, and North Marion High School. He graduated from Phillips Exeter Academy, in Exeter, N.H. in 1974.

Dr. Brown received his B.A. (magna cum laude) in Applied Mathematics from Harvard College, and his M.A. and Ph.D. in statistics from Harvard University. He then earned his M.D. (magna cum laude) from Harvard Medical School and completed his internship in internal medicine at the Brigham and Women's Hospital, then went on to do his residency in anesthesiology at Massachusetts General Hospital (MGH). Dr. Brown is the Warren M. Zapol Professor of Anaesthesia at Harvard Medical School; an anesthesiologist at MGH and the Edward Hood Taplin Professor of Medical Engineering and Computational Neuroscience at Massachusetts Institute of Technology (MIT). He is also an investigator in the Picower Institute for Learning and Memory at MIT.

An anesthesiologist-statistician, Dr. Brown's experimental research has shown that a primary mechanism through which anesthetics induce altered arousal states is by creating oscillations that disrupt neuronal communication among different brain regions. His research has also shown that anesthesia induced oscillations change systematically

with anesthetic drug class and with age. These oscillations, which are readily visible in the EEG, can be used to accurately monitor the anesthetic state, guide drug dosing and implement new approaches to precisely control the anesthetic state. Dr. Brown is also recognized for his statistics research in which he has developed statistical methods to analyze dynamic processes in neuroscience.

Dr. Brown is the recipient of an NIH Director's Pioneer Award, the 2011 Sacks Award from the National Institute of Statistical Sciences, a 2015 Guggenheim Fellowship in Applied Mathematics, the American Society of Anesthesiologists 2015 Excellence in Research Award, and its 2017 John W. Severinghaus Award. He is a fellow of the American Association for the Advancement of Science, the IEEE, the Institute of Mathematical Statistics, the American Statistical Association, the American Academy of Arts & Sciences, and the National Academy of Inventors.

He served on President Obama's BRAIN Initiative Working Group and is a member of the National Academy of Medicine, the National Academy of Sciences, and the National Academy of Engineering. Dr. Brown is the first African American elected to all three National Academies. In recognition of his many accomplishments, May 15, 2016 was named Dr. Emery Neal Brown Day by the Marion County Board of Commissioners.



ZOVIRAX
(ACYCLOVIR)

University of South Florida
Department of Cell Biology, Microbiology
& Molecular Biology



Phillip A. Furman, Ph.D.

*Microbiologist and Researcher
St. Augustine*

• 20 U.S. patents •

PHILLIP FURMAN received his Bachelor of Science degree from Piedmont College in 1968 and a Masters Degree from the University of South Florida (USF) in 1972. He went on to complete his Ph.D. in microbiology at Tulane University and received his postdoctoral training at Duke University. In 1975, Furman joined Burroughs Wellcome Company as a Research Scientist III and established the company's virology laboratory. He was later promoted to Research Scientist IV in 1978. In 1988, he became associate director of the Division of Virology and soon after, in 1989, Dr. Furman was promoted to director of the division and remained in that position until 1995 when Glaxo acquired Burroughs Wellcome.

Following the acquisition of Burroughs Wellcome by Glaxo, Dr. Furman and several colleagues founded Triangle Pharmaceuticals, an antiviral drug discovery and development company where he served as the chief scientific officer. In 2004, he joined Pharmasset, Inc. as the vice president of biological sciences, where he remained until 2012.

Dr. Furman is a co-inventor of the use of Retrovir® (AZT) for the treatment of HIV infection. He also was involved in the development of Zovirax® (Acyclovir), Valtrex® (Valacyclovir), Retrovir®, Emtriva®, and more recently the Hepatitis C drug Sofosbuvir (Sovaldi®). His research

has led to the understanding of the mechanism of action of several FDA approved antiviral agents including Zovirax®, Retrovir®, Emtriva®, and Sofosbuvir.

Dr. Furman has served on several NIH study sections, was a member of the editorial board of *Antiviral Research*, and has been a reviewer for various journals. He has over 100 peer-reviewed publications and is a member of the International Society for Antiviral Research where he has served as chairman of the finance committee, a member of the Board of Directors, and president of the society. Other appointments include: Adjunct Associate Professor, Lineberger Cancer Center; Adjunct Associate Professor, Department of Microbiology and Immunology, University of North Carolina, Chapel Hill, NC; and Board Member and Visiting Scientist for the European Training Network on (+)RNA Virus Replication and Antiviral Drug Development (EUVIRNA).

In 2015, Dr. Furman received the Gertrude Elion Award from the International Society for Antiviral Research for his contributions to the field of antiviral research. He later received, in December 2016, the Outstanding Alumnus Award from the Department of Cell Biology Microbiology and Molecular Biology at USF. Dr. Furman was awarded an Honorary Doctorate of Science Degree from USF in May 2017.





Richard A. Houghten, Ph.D.

Founder and CEO

Torrey Pines Institute for Molecular Studies

Port St. Lucie

• 81 U.S. patents •

RICHARD A. HOUGHTEN is the founder and chief executive officer of Torrey Pines Institute for Molecular Studies (TPIMS). Dr. Houghten received his doctorate in organic chemistry from the University of California, Berkeley in 1975. Following positions at the University of California, San Francisco, and Mount Sinai School of Medicine, he joined The Scripps Research Institute in 1981. He founded Torrey Pines Institute for Molecular Studies in 1988, beginning operations in 1989. Over the past 30 years, he has focused his scientific efforts toward the development and use of a series of interlocking and powerful “hit/probe/lead” discovery platform techniques (parallel synthesis techniques and combinatorial chemistry). He holds over 485 peer-reviewed publications and 81 issued U.S. patents.

Dr. Houghten’s strengths are in the invention and development of novel and wide-ranging approaches for the application to existing drug discovery problems. In collaboration with long-term associates at Torrey Pines, he has developed technologies with the capability to rapidly synthesize and screen millions of compounds. He has founded three companies from his scientific discoveries. The first was a for-profit research products company, Multiple Peptide Systems (MPS). The financial success of MPS enabled him to found the not-for-profit TPIMS.

Dr. Houghten has developed combinatorial techniques that permit tens of millions of compounds to be *searched* while requiring the *screening* of only 300-500 samples. These techniques can be used in virtually all existing bench top assays. Internal use of these techniques resulted in the identification of extraordinarily active and specific kappa opiate receptor tetra-peptides which were licensed to CARA Therapeutics and will be entering Phase III trials for peripheral pain management; these compounds have none of the side effects of the opiates such as morphine.

Dr. Houghten has been recognized for his contributions to the field of combinatorial chemistry and peptide science with the American Peptide Society’s Vincent Du Vigneaud Award in 2000 and Bruce Merrifield Award in 2005; the American Chemical Society’s 2004 Ralph Hirschmann Award in Peptide Chemistry. He is a National Academy of Inventors Charter Fellow 2013 and American Association for the Advancement of Science Fellow 2013, a Florida Department of Health Biomedical Research Advisory Council Senate President’s Appointee and he received the UCSD Connect Athena Pinnacle Award for Empowering Women in the Workplace. His acceptance of the Athena Pinnacle Award in 1999 further distinguishes Dr. Houghten and his dedication to the mentoring and advancement of women scientists in the workplace.





Edwin A. Link

*Former Vice President
Harbor Branch Oceanographic Institute
Florida Atlantic University
Boca Raton
(1904-1981)*

• 27 U.S. patents •

EDWIN ALBERT LINK was an engineer, pilot, industrialist, dreamer and pioneer in aviation, underwater archaeology and submersibles. He held 27 U.S. patents for his inventions in aviation, navigation and ocean engineering, but Link is most recognized for inventing the Link Trainer flight simulator in the 1920s, which helped to train countless pilots, including more than 500,000 airmen during World War II.

Link was born on July 26, 1904 in Huntington, Indiana and moved to Binghamton, New York with his family in 1910. His fascination with aviation led him to take flying lessons, and that passion and curiosity ultimately led him to invent the world's first flight simulator. Together with his wife, Marion, whom he married in 1931, Link built and managed their highly successful company, Link Aviation, Inc.

The couple went on to establish the Link Foundation together in 1953 to support research and education in the fields of aeronautics and oceanography. A generous grant from his Foundation in 1965 allowed Florida Atlantic University to create the country's first undergraduate ocean engineering degree program. The Link Foundation

has made substantial contributions to more than 120 universities and nonprofit organizations.

Later in life, Link turned his attention from the sky to the sea. In 1969, Link discovered a deserted mining channel between Vero Beach and Fort Pierce, Florida. In 1971, he helped to create Florida Atlantic University's Harbor Branch Oceanographic Institute on that site as an independent research institution for marine science and ocean engineering with the financial support of founder J. Seward Johnson. Link designed a myriad of tools to explore marine environments, including the Johnson-Sea-Link submersibles, which were built by a team of engineers at Harbor Branch in the 1970s.

Link's contributions to the worlds of aviation and ocean exploration have brought him recognition from many universities and organizations. He received honorary degrees from Tufts University, Hamilton College, State University of New York at Binghamton, Syracuse University, and Florida Institute of Technology.

Link died September 7, 1981. Just a few days before his death, the city of Binghamton in New York honored him by renaming its airport Edwin A. Link Field.





Sudipta Seal, Ph.D.

Trustee Chair

*Chair, Materials Science and Engineering
Pegasus and University Distinguished Professor
University of Central Florida
Orlando*

• 48 U.S. patents •

SUDIPTA SEAL is a Pegasus Professor, Trustee Chair and chair of the department of Materials Science and Engineering at the University of Central Florida in Orlando. Seal is being recognized for his pioneering work in the field of transition metal and rare earth oxides. His work may help solve a variety of problems faced by engineers and scientists in areas as diverse as the environment, space and medicine.

He developed green manufacturing of shape and size control nano-ceramics with mixed valence states. He has engineered nanocerium formulation for various biomedical applications and the technology is licensed to Biocurity. His work led to the creation of Zerocrete, a “green” cement substitute made from fly ash, the waste product from coal-fired power plants. To help get the product out of his lab and into the marketplace he launched nSolgel in 2009. He has also helped some of his graduate students launch their own companies.

Seal has authored and edited dozens of books, and his research has led to 63 patents worldwide. He has been honored with dozens of recognitions and awards including the Office of Naval Research Young Investigator Award and was recently inducted to World Academy of Ceramics. Seal has more than 25,000 citations and his research funding has totaled more than \$14 million. His research and entrepreneurship have earned the attention of BBC News and *The New York Times*, among others. Seal has mentored 19 doctoral candidates and 22 master’s students to completion. He has advised 13 postdoctoral associates and four engineers and research professors.

He is an Alexander Von Humboldt Fellow and a Fellow of American Society of Materials. He is also a fellow of the American Association of Advancement of Science, American Vacuum Society, Institute of Nano Technology, Electrochemical Society, National Academy of Inventors, and the American Institute of Medical and Biological Engineers.





Herbert A. Wertheim, O.D., D.Sc., M.D. (hc)

*Founder and CEO
Brain Power Incorporated
Miami*

• 7 U.S. patents •

HERBERT A. WERTHEIM is an optometric physician, alumnus of the University of Florida (UF), and honorary alumnus of Florida International University (FIU) who was the first to discover and produce ultraviolet light dye absorbers for eyeglass lenses, helping millions of people avoid cataracts and other eye diseases. Wertheim is also the founder and CEO of Brain Power Incorporated (BPI), the world's largest manufacturer of ophthalmic instruments, cosmetic and therapeutic tints for eyeglass lenses, and diagnostic products for optometrists, ophthalmologists, opticians and optical laboratories.

More recently, BPI manufactured colored dyes that have been used in diagnosing and/or treating dyslexia, autism, Parkinson's-related dyskinesia, and childhood migraines. He was the FIU Foundation Board chair and founding member of the FIU Board of Trustees. As chairman of FIU's Academic Affairs Committee, he won approval for and chaired the Medical College Initiative that founded the Medical College. In 2009, the Wertheims made a \$20 million contribution to FIU, which became \$40 million with state matching, to establish multiple endowments and eight endowed chairs for the Medical College, including

the first endowed chair in Optometry and Physiological Optics in any medical school. FIU then named the Herbert Wertheim College of Medicine in his honor. He was also instrumental in establishing FIU's Herbert and Nicole Wertheim Performing Arts Center, building the Wertheim Conservatory, and transforming the Nicole Wertheim College of Nursing and Health Sciences at FIU.

In 2011, Dr. Wertheim was formally inducted into the Horatio Alger Association in recognition of his personal and professional successes. In October 2015, UF announced the naming of the Herbert Wertheim College of Engineering in honor of the Wertheim Family Foundation's gift of \$50 million, which funded an Engineering Innovation building and fostered collaboration between UF and FIU. He has served as chairman of the Dr. Herbert and Nicole Wertheim Family Foundation since 1977, which has supported hundreds of local and international educational, cultural, sporting, and health care organizations around the world. In 2016, Herbert and Nicole Wertheim were asked to join The Giving Pledge by Bill Gates and Warren Buffet. He holds 7 U.S. patents. He received an honorary Doctorate of Technology Degree from UF in 2018.

— 2018 Selection Committee —



Randy E. Berridge

*Florida High Tech Corridor Council
Chair, Florida Inventors Hall of Fame 2018 Selection Committee*

Randy Berridge held the position of president of the Florida High Tech Corridor Council since its formation in 1996. Now he serves in an advisory and planning support role as president emeritus of The Corridor. He is also president of the Berridge Consulting Group Inc. Previously, Berridge held several positions with AT&T Corporation, including chair of the Central Florida AT&T Management Council; district manager of public relations for the Florida division; manager of legal and divestiture planning; and coordinating supervisor of budgets, forecasts, planning, human resources and telephone manufacturing. Berridge currently serves on the National Academy of Inventors Executive Advisory Board and the Florida Inventors Hall of Fame Advisory Board. He is an emeritus board member of the Astronauts Memorial Foundation and has previously served on the boards of the Enterprise Florida Stakeholder Council, Florida Chamber Foundation, Leadership Florida, Florida Research Consortium, Southern Association of Colleges and Schools Commission on Colleges (SACSCOC), the Foundation for Florida's State Colleges, Kids House of Seminole County, National Center for Simulation, Metro Orlando Military Affairs Commission, National Entrepreneur Center, Career Source Florida, Orlando Economic Partnership, Tampa Bay Partnership, Tampa Bay Technology Forum, University of Central Florida Foundation, University of Florida Center for NanoBio Sensors, University of South Florida Tampa Bay Tech Incubator, and University of Central Florida's Incubator Network.



Elizabeth Lea Dougherty

*Senior Advisor
United States Patent and Trademark Office*

Elizabeth Dougherty is the Senior Advisor at the United States Patent and Trademark Office (USPTO). As the Director of Inventor Education, Outreach, and Recognition Office of Innovation Development, she develops, implements, and supervises programs that support the independent inventor community, small businesses, entrepreneurs, and the intellectual property interests of colleges and universities. Currently, Dougherty is on a special assignment to the USPTO Office of Government Affairs where she is coordinating outreach to the Congressional Caucuses of the 115th Congress. She received a juris doctorate from the Columbus School of Law at the Catholic University of America in 1996. Dougherty is a member of the Virginia Bar, Giles S. Rich American Inn of Court, Pauline Newman American Inn of Court, the American Bar Association, Federal Circuit Bar Association, American Intellectual Property Law Association, Patent and Trademark Office Society, Supervisory Patent Examiners and Classifiers Organization, Women in Science and Engineering, Prince George's County Historical Society, and ex-officio on the board of the National Academy of Inventors.



Andrés G. Gil

*Vice President for Research and Economic Development, Dean of the University Graduate School
Florida International University*

Dr. Andrés G. Gil is vice president for research and economic development and dean of the University Graduate School and professor in the Robert Stempel College of Public Health and Social Work. He received his doctoral training at the University of Miami. His research focuses on health equity, and adolescent substance use and mental health. His research has been funded by NIH Institutes and foundations and has appeared in top tiered journals. He has been a member of several Initial Review Groups for NIH, including for the Center for Scientific Review, NIMH, NIAAA, NSF and SAMHSA. Previously he was a member of the Advisory Council for NIAAA, and the California Tobacco Related Disease Research Program. Gil has held leadership positions in various organizations, including the Latino Council on Alcohol and Tobacco (LCAT), Southeastern University Research Association, and the Council on Research for APLU.



Sharon A. Heise

*Chief Research Officer
Institute for Human & Machine Cognition*

Dr. Sharon Heise is Chief Research Officer at the Florida Institute for Human and Machine Cognition (IHMC) in Pensacola. As a member of IHMC's senior leadership team, Heise has overseen all aspects of IHMC research initiatives. She previously served 20 years in the U.S. Air Force, where she was most recently director of mathematics and information sciences at the Air Force Office of Scientific Research. She holds a Ph.D. in control engineering from Cambridge University, U.K. She is a graduate of the Program for Senior Executives in National and International Security at the Kennedy School of Government, Harvard University.



David R. Makufka

*Manager Technology Transfer Office, John F. Kennedy Space Center
NASA Kennedy Space Center Liaison*

David Makufka has more than 34 years of experience in design engineering, technology transfer and the creation of public-private partnerships at NASA's John F. Kennedy Space Center (KSC). As Manager of KSC's Technology Transfer Office, his responsibilities include intellectual property management and technology licensing; establishment of cost-shared technology partnerships with non-NASA participants; and providing strategic guidance for R&T investments. He has directly led or assisted in the execution of dozens of NASA patent license agreements and has created numerous partnerships with industry, academia, and other government organizations for the development of technologies to meet NASA's mission needs and provide benefit to the nation. Makufka is a graduate of the Pennsylvania State University with a B.S. in mechanical engineering.



David P. Norton

*Vice President for Research
University of Florida*

Dr. David P. Norton is vice president for research at the University of Florida (UF). Previously, he served as associate dean for research in the College of Engineering and professor in the Department of Materials Science and Engineering. He has 29 years of experience in science and technology research, having served 11 years as a research scientist at Oak Ridge National Laboratory (ORNL) prior to joining UF as a faculty member in 2000. Throughout his career at ORNL and UF, he has published over 350 refereed journal articles with more than 11,000 citations. He is an inventor on 10 patents and has presented more than 70 invited presentations at national and international conferences. Norton is a fellow of the American Physical Society, American Vacuum Society, and American Association for the Advancement of Science (AAAS), and Charter Fellow of the National Academy of Inventors. He holds B.S. and Ph.D. degrees in electrical and computer engineering from Louisiana State University.



Gary K. Ostrander

*Vice President for Research
Florida State University*

Dr. Gary K. Ostrander is vice president for research, president of the Research Foundation, and professor of medicine at Florida State University. He completed his Ph.D. at the University of Washington and postdoctoral training at the UW Medical School. He previously served as a faculty member and administrator at Oklahoma State University, Johns Hopkins University, and the University of Hawaii. His research initially focused on exploiting novel aspects of the biology of fishes to address fundamental questions of cancer biology. Recently, his efforts have been aimed at understanding the worldwide deterioration of coral reef ecosystems. He has authored/co-authored more than 85 peer-reviewed publications and edited or authored five books.

Paul R. Sanberg

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M.J. Soileau

University Distinguished Professor of Optics and Photonics, Electrical and Computer Engineering and Physics

University of Central Florida

2016 Inductee, Florida Inventors Hall of Fame

From 1998 until 2016, Dr. M.J. Soileau led the University of Central Florida's (UCF) sponsored research activities and management of interdisciplinary centers and institutes as the vice president for research and commercialization. Today, he is a professor of optics and photonics, electrical and computer engineering, and physics at UCF. He is known for his pioneering research in nonlinear interaction of laser pulses with optical materials and for leading the development of the internationally recognized Center for Research and Education in Optics and Lasers (CREOL) at UCF as its founding director. Soileau holds six U.S. patents, the applications of which have contributed to the advancement of high energy laser optics used by the United States Department of Defense. He is a Fellow of the American Association for the Advancement of Science (AAAS), IEEE Photonics Society Life, Optical Society of America (OSA), International Society for Optics and Photonics (SPIE), and the National Academy of Inventors. In 2016, Soileau was inducted into the Florida Inventors Hall of Fame.



Jack Sullivan, Jr.

President and CEO

Florida Research Consortium

Since 2003, Jack Sullivan has been president and CEO of the Florida Research Consortium (FRC), a strategic partnership between Florida's research assets and the business community, focused on enhancing progressive research programs in Florida to promote quality economic growth. Sullivan joined the FRC after a successful private sector career, and he continues to manage a portfolio of commercial and agricultural real estate. Sullivan's current volunteer service includes the not-for-profit boards of BioFlorida and the Florida Chamber Foundation. He earned a B.A. from Davidson College and MBA from Vanderbilt University.

Advisory Board

Randy E. Berridge

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Senator Jeffrey P. Brandes

Florida State Senator

24th District

Jeff Brandes is a lifelong resident of St. Petersburg, a veteran, and a local businessman. After serving in the Army from 1999 to 2006, he joined his grandfather in the family lumber business. He was first elected to the Florida House of Representatives in 2010. He was elected to the Florida Senate in 2012, then reelected in 2014 and 2016. He has chaired the Senate committee on Transportation, the Appropriations Subcommittee on Transportation, Tourism and Economic Development, and currently he serves as chair of the Senate Appropriations Subcommittee on Criminal and Civil Justice. He is nationally recognized as a policy leader in the areas of autonomous vehicles and mobility, flood insurance, and criminal justice reform. Senator Brandes and his wife, Natalie, have four children: Charlotte “Lottie,” Elizabeth “Lizzie,” Colin, and Conor.



Phoebe Cade Miles

President

Cade Museum

Phoebe Cade Miles founded the Cade Museum in 2004. She is also co-founder and vice-president of the Gloria Dei Foundation, a family-operated charity that awards grants to organizations that promote the common good in accordance with Christian principles. Both Gloria Dei and the Cade Museum Foundation were endowed with gifts by Miles’ parents, Dr. Robert Cade and Mary Cade. Dr. Cade, a University of Florida researcher and physician who passed away in November 2007, was best known as the leader of the team that invented Gatorade in 1965. A native of Gainesville, Florida, Miles has lived much of her adult life overseas, accompanying her husband to official postings with the U.S. Army in Nuremberg, Germany, and with the U.S. State Department in Bridgetown, Barbados; Berlin, Germany; and Buenos Aires, Argentina. She has been married to Richard Miles, also of Gainesville, since 1985. They have three children, Christian, Cecelia, and Elena.



Curtis R. Carlson

Author, Inventor and Entrepreneur

Dr. Curtis R. Carlson is founder and CEO of Practice of Innovation, LLC, a company dedicated to improving innovative performance. From 1988 to 2014, Carlson served as president and CEO of SRI International, a leader in creating major innovations, such as Siri, HDTV, and Intuitive Surgical. In 1973, he joined RCA Laboratories, which became part of SRI in 1987 as the Sarnoff Corporation. There, Carlson started and helped lead development of HDTV technology that became the U.S. standard, for which his teams won the first of two Emmy® Awards. His *BusinessWeek* Top-10 book with William Wilmot, *Innovation: The Five Disciplines for Creating What Customers Want*, describes how SRI’s proven innovation methodology can be applied to government and commercial enterprises. He is a member of the NAE initiative to recommend improved innovation practices for the NSF. He is a Charter Fellow of the National Academy of Inventors.



Kathy Castor

*U.S. Representative
Florida's 14th Congressional District*

Kathy Castor is the U.S. Representative for Florida's 14th congressional district, serving in Congress since 2007. Castor is the first woman to represent Hillsborough and Pinellas counties in the U.S. Congress. She serves as the Vice Ranking Member of the influential House Energy & Commerce Committee. Before being elected to Congress, Castor served as a Hillsborough County Commissioner and chair of the Hillsborough County Environmental Protection Commission. She is a graduate of Emory University and Florida State University College of Law, former president of the Florida Association of Women Lawyers, and a partner in a statewide law firm.



Michael J. DeLuca

*Intellectual Property Counsel
Florida Power & Light, NextEra Energy
2017 Inductee, Florida Inventors Hall of Fame*

Mike DeLuca graduated from Virginia Polytechnic School and State University with a B.S. in electrical engineering and earned his juris doctorate at Nova University in south Florida. He currently manages the intellectual property portfolio for NextEra Energy including its subsidiary Florida Power & Light. In addition to his IP management duties, DeLuca is inspiring a new generation of inventors at NextEra, helping them to cultivate their own creative problem solving abilities related to large scale clean solar and wind power. DeLuca began his career as an electrical engineer at Motorola, Inc. where he developed groundbreaking technologies for nearly twenty years. He then went on to invent for numerous assignees including SiriusXM, Google, BlackBerry, Interoperable Technologies, Vuzix, and PhotoNation. In 1997, DeLuca founded IdeoCo, Inc. to develop and manage his personal inventions including virtual reality, digital camera, flexible display, advanced acoustic, and automotive technologies. He was inducted into the Florida Inventors Hall of Fame in 2017.

Elizabeth Lea Dougherty

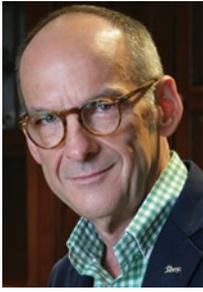
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Jonathan M. Ellen

*President and Physician-in-Chief
Johns Hopkins All Children's Hospital*

Dr. Jonathan M. Ellen is president and physician-in-chief of Johns Hopkins All Children's Hospital, a member of Johns Hopkins Medicine and vice dean for All Children's Hospital and professor of pediatrics in Johns Hopkins University School of Medicine. He is leading the transformation of All Children's from a regional pediatric referral center to an academic children's hospital and national leader in research, teaching, and patient care. Ellen has worked with leaders of the University of South Florida, Morsani College of Medicine to strengthen the ACH-USF affiliation and their combined efforts in pediatric education and research. He is teaming up with a variety of community hospitals and providers in the Tampa Bay region and beyond to expand pediatric networks that ensure optimal care for children with complex and chronic medical conditions. He has received more than \$25 million in research awards from the Centers for Disease Control (CDC), NIH, and other agencies. Ellen has authored more than 200 peer-reviewed scientific articles and 30 reviews, editorials, and book chapters.



Kenneth Ford

*Founder and Director
Florida Institute for Human & Machine Cognition
2017 Inductee, Florida Inventors Hall of Fame*

Dr. Kenneth Ford is Founder and Director of the Florida Institute for Human & Machine Cognition (IHMC), an independent not-for-profit research institute. Ford's research interests include: artificial intelligence, cognitive science, human-centered computing, and entrepreneurship in government and academia. He received a Ph.D. in Computer Science from Tulane University. Ford has served on the National Science Board, the Air Force Science Advisory Board, the Defense Science Board, and served as Chairman of the NASA Advisory Council. Ford is a Fellow of the Association for the Advancement of Artificial Intelligence (AAAI), a Charter Fellow of the National Academy of Inventors, and has received many awards and honors including the Doctor Honoris Causas from the University of Bordeaux in 2005, the 2008 Robert S. Engelmore Memorial Award for his work in artificial intelligence, the 2012 Tulane University *Outstanding Alumnus* in the School of Science and Engineering, and in 2015 Ford received the AAAI Distinguished Service Award. He was inducted into the Florida Inventors Hall of Fame in 2017.

Judy Genshaft

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William Scott Green

*Senior Vice Provost and Dean of Undergraduate Education
University of Miami*

As senior vice provost and dean of undergraduate education, Dr. William Scott Green is responsible for developing and strengthening university-wide components of undergraduate learning. He has worked to enhance, devise, and appropriately support programs in such areas as study abroad, academic advocacy for underrepresented students, career services, learning assistance, civic engagement, undergraduate research, and the honors program. Green currently holds an appointment as professor of religious studies and senior fellow in the University of Miami's Sue and Leonard Miller Center for Contemporary Judaic Studies. He is former editor of the *Journal of the American Academy of Religion*, the leading scholarly periodical in religion. Among other professional activities, he served on the board of the Association of American Colleges and Universities and the Reinvention Center, a consortium of major research universities committed to improving undergraduate education

Andrew H. Hirshfeld

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Richard A. Houghten

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Kelli Hunsucker

*President
Florida Academy of Sciences*

Dr. Kelli Hunsucker is an assistant professor of oceanography at the Florida Institute of Technology. Her research focuses on biofouling organisms such as barnacles and algae structures and their settlement of pollution on underwater surfaces. Currently funded by the Office of Naval Research to study marine paints, altered substrates, and novel biofouling prevention systems, Hunsucker and her team are researching and developing remotely operated vehicles and tools, which will groom or provide a frequent gentle wiping of a ship hull to prevent biofouling. Hunsucker specifically investigates how grooming interacts with the ecology of the organisms in order to deter their settlement. She has authored over 250 technical reports and numerous publications. Her other projects involve eco-engineering solutions for improved water quality in Florida estuarine waters. In addition to teaching and research, she is involved in community based outreach projects and marine science summer programs for children. Hunsucker is the current President of the Florida Academy of Sciences. Her other professional duties include serving as the editor of the *Marine Technology Society (MTS) Journal* and the sub-committee chair for the American Society for Testing and Materials (ASTM) section on Marine Coatings.



Richard Jove

*Director
Cell Therapies Institute, Nova Southeastern University*

Dr. Richard Jove is Distinguished Research Professor and Cell Therapy Institute Director at Nova Southeastern University (NSU) in Fort Lauderdale. He also serves as chair of the Department of Biomedical Sciences in the new NSU M.D. College. Jove received his doctoral training at Columbia University and postdoctoral training at Rockefeller University. He began his career at the University of Michigan, Ann Arbor. Subsequently, Jove helped establish the Moffitt Cancer Center as professor and director of the Molecular Oncology Program. He then was deputy director of the National Cancer Institute Comprehensive Cancer Center and director of the Beckman Research Institute at City of Hope National Medical Center in Los Angeles. Jove was continuously funded by the NIH for nearly 3 decades, has published over 230 research articles, and has almost 50 patents issued and pending.



Alan List

*President and CEO
H. Lee Moffitt Cancer Center and Research Institute*

Dr. Alan List is president and chief executive officer of Moffitt Cancer Center in Tampa. He is internationally recognized for his many contributions in the development of novel, more effective treatment strategies for myelodysplastic syndrome (MDS) and acute myeloid leukemia (AML). List lectures nationally and internationally and is the author of more than 375 peer-reviewed articles. He is active in numerous professional organizations and serves on the International Board of Directors and the Executive Committee of the MDS Foundation, Inc. List is a Charter Fellow of the National Academy of Inventors and holds 20 patents.



Julian Mackenzie

*President and CEO
MOSI*

Julian Mackenzie is President and CEO of the Museum Of Science and Industry (MOSI). He originally joined MOSI in October 2016 as Chief Financial Officer after more than 30 years in a range of business leadership roles in the USA, France, the UK, the Netherlands, and Italy. Mackenzie has developed and led multiple business turnaround plans, restructuring efforts, and rebranding campaigns within the fields of medical technology, telecommunications, manufacturing, insurance, and finance. This diversity positions him perfectly to oversee MOSI's sustainable business plan, increase its science outreach programs to school campuses, as well as vision concepts in preparation for an eventual move to Downtown Tampa in the future. Most recently, Mackenzie directed MOSI's financial turnaround plan to refocus MOSI on its mission of science education and reshape MOSI as a financially sustainable organization. That plan received a unanimous vote of support from the Hillsborough County Commission and is performing at all operational expectations and revenue goals. Mackenzie is fluent in four languages: English, French, Italian, and Portuguese. He and his wife Deborah have three children Ava, William, and Beatrice.



T. Dwayne McCay

*President and Chief Executive Officer
Florida Institute of Technology
2017 Inductee, Florida Inventors Hall of Fame*

Dr. T. Dwayne McCay (Ph.D., Auburn University) became Florida Institute of Technology President July 1, 2016. Previous service included Provost, Chief Academic Officer, Executive Vice President and Chief Operating Officer. He is also a Professor in Physics and Space Sciences and Mechanical and Aerospace Engineering. Before joining Florida Tech in 2003, McCay was Vice President for Research and Information Technology for The University of Tennessee System overseeing statewide research and information technology and the UT-Battelle management contract for the Oak Ridge National Laboratory. He also served The UT Space Institute as Alumni Distinguished Service Professor of Engineering Science, Program Chair of Engineering Science and Mechanics, and chief executive officer. His early career included: NASA Marshall Space Flight Center (senior engineer, branch chief, division chief); Air Force Rocket Propulsion Laboratory (senior research physical scientist) and ARO, Inc. (research engineer). McCay has authored over 100 technical publications including two books and holds 16 patents. He was inducted into the Florida Inventors Hall of Fame in 2017.



Arthur Molella

*Director Emeritus
Smithsonian's Lemelson Center for the Study of Invention & Innovation*

Arthur Molella, Ph.D., was the founding director, now emeritus, of the Smithsonian Institution's Lemelson Center for the Study of Invention and Innovation at the National Museum of American History. He received his Ph.D. in the history of science from Cornell University and a Doctor of Science, honoris causa, from Westminster University, U.K (2005). At the National Museum of American History, he served variously as curator of electricity, chairman of the Department of History of Science and Technology, and assistant director for History. At Johns Hopkins University, he has served as Senior Lecturer, Dept. History of Science, and currently Lecturer M.A. in Museum Studies, On-Line, Advanced Academic Programs. Molella was head curator of the Smithsonian's Science in American Life exhibition, co-curator of the international exhibition, Nobel Voices, and is co-sponsor of the International Eco-City Initiative. He has published and lectured widely on the history of science, invention, technology, and modern technological culture. His recent books include *Invented Edens: Techno-Cities of the 20th Century* (MIT, 2008), *Places of Invention* (Smithsonian, 2015), and *World's Fairs on the Eve of War* (Pittsburgh, 2015). He has published many articles and reviews. In addition to serving on the Executive Advisory Board of the National Academy of Inventors, he is on the board of the National Inventors Hall of Fame and Florida Inventors Hall of Fame.



JoAnn Newman

*President and CEO
Orlando Science Center*

Originally from Pennsylvania, JoAnn Newman has a Bachelor's Degree in Industrial Engineering from Penn State University and a Master's Degree in Industrial Engineering from Purdue University. She began her career as an engineer with AT&T Microelectronics in Allentown, PA and relocated to Orlando in 1989 with AT&T. When she left the corporation, now known as Agere Systems, in 2003, she had risen to the position of vice president of manufacturing with responsibility for a staff of 650. JoAnn joined the Orlando Science Center in 2003 and prior to being named president and CEO in 2009, she served as director of exhibits, then vice president of operations and chief operating officer. During her time as CEO, the Orlando Science Center has seen tremendous growth with total attendance doubling, now reaching over 650,000 people annually. JoAnn is dedicated to guiding the Orlando Science Center as a strong community partner for informal science education, family engagement and workforce development.



James J. Padilla

*Former President and CEO,
Ford Motor Company*

James Padilla was an operations turnaround and product launch expert at Ford Motor Company for forty years. His responsibilities took him from being a chemical engineer during the gas crisis of the early 1970s to the White House working for the Secretary of Commerce, to president of the Ford South America Operations in Brazil, to Group Vice President of Global Manufacturing and Quality, culminating in successfully leading as COO and chairman of Automotive Operations. Padilla has followed his long and distinguished career at Ford Motor Company with new leadership roles in the alternative energy sector and continued involvement with higher learning and minority business development. He continues to be regarded as one of the leaders in the Hispanic community and in Detroit charitable institutions. In his board capacities, he continues to provide insights into industry trends and governmental affairs. He currently serves as chairman of the board for TPA, Inc., Michigan's largest capacity biodiesel producer, process technology provider and algal biodiesel research facility; National Council of La Raza, the largest national Hispanic civil rights and advocacy organization in the U.S.; University of Detroit Mercy; Fusion Future Foundation; and Focus: HOPE, a nationally recognized civil and human rights organization in Detroit.



Janet E. Petro

*Deputy Director
John F. Kennedy Space Center*

Janet E. Petro is the deputy director of NASA's John F. Kennedy Space Center in Florida. Appointed to the deputy director position in April 2007, she shares responsibility with the center director in managing the Kennedy team of approximately 8,600 civil service and contractor employees, determining and implementing center policy, and managing and executing Kennedy missions and agency program responsibilities. She served a 12-month appointment at NASA Headquarters in Washington, D.C. as the deputy associate administrator and acting director for the Office of Evaluation. Petro began her professional career as a commissioned officer in the U.S. Army after graduating in 1981 from the U.S. Military Academy at West Point with a bachelor of science degree in engineering. She served in the U.S. Army's aviation branch with various assignments overseas in Germany. She also holds an MBA from Boston University's Metropolitan College.



Grover C. Robinson IV

*Commissioner, BBC District 4
Past President, Florida Association of Counties*

Grover C. Robinson IV is a seventh generation Pensacolian who grew up in Escambia County's District 4. First elected to his home district in 2006, Robinson became a Florida Certified Commissioner in June 2008 and served as the Escambia County Board of County Commissioners' chairman in 2009-10 and 2015-16 and president of the Florida Association of Counties in 2014-15. Robinson received a bachelor of science degree in economics (summa cum laude) from Birmingham-Southern College.



Mark B. Rosenberg

*President
Florida International University*

Dr. Mark B. Rosenberg is the fifth president of Florida International University (FIU). He brings over 35 years of experience in higher education leadership to this post. The author or co-editor of seven books and numerous scholarly articles in leading journals, Rosenberg was one of the principal architects of FIU's growth and expansion during the past decade and played a lead role in development of FIU's new Herbert Wertheim College of Medicine. From 2005-2008, he served as chancellor of the State University System of Florida and was instrumental in developing a new financial strategy to support the continuing development and expansion of the State University System. Rosenberg holds a Ph.D. from the University of Pittsburgh and a B.A. from Miami University of Ohio, where he was Phi Beta Kappa. He is a Fulbright Research Scholar and a member of the Council on Foreign Relations in New York.



Dennis A. Ross

*U.S. Representative
Florida's 15th Congressional District*

Representative Dennis Ross is a staunch advocate on behalf of his constituents in central Florida. He is currently serving his fourth term in the U.S. House of Representatives. He studied organizational management at Auburn University's School of Business and earned his juris doctorate from Cumberland School of Law at Samford University in Alabama. Ross has worked in a private law firm, served as in-house counsel for Walt Disney World, and later started his own practice. He was elected to the state legislature in 2000, where he has represented central Florida for four terms.

Paul R. Sanberg, Chair

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Ed Schons

*President
Florida High Tech Corridor Council*

Ed Schons is president of the Florida High Tech Corridor Council and Assistant Vice President for University Relations and Director of University Economic Development at the University of Central Florida (UCF). As president of The Corridor, Schons leads the unique economic development initiative anchored by UCF, the University of South Florida, and the University of Florida with a mission to grow the tech industry and innovation through partnerships that support research, marketing, workforce and entrepreneurship. At UCF he manages economic development for internal and external constituencies. Prior to UCF he served as the Senior Economic Development Policy Manager for Florida Power Corporation (now Duke Energy). Schons has served as the Chairman of the Florida Economic Development Council, is a member of the Florida Chamber Foundation's Florida 2030 Executive Steering Committee, and is a delegate to the Enterprise Florida Inc. Stakeholders Council. He is a recipient of the Florida Chamber "President's Award for Outstanding Service" and the Leadership St. Pete Alumni Association's "Leadership Award for Outstanding Contributions to the Community." Schons also received the prestigious "Eunice Sullivan Economic Development Professional Award" from the Florida Economic Development Council for Outstanding Dedication and Commitment to the Economic Development Profession.



Mark Sharpe

*Executive Director
Tampa Innovation Alliance*

A Tampa native, Mark Sharpe became executive director of the Tampa Innovation Alliance in 2014. He previously was elected to the Hillsborough County Commission in Countywide District 7 seat in 2004. He was re-elected in 2006 and again in 2010 to serve his final four-year term. Sharpe was the Board's vice chairman from 2007-2011. Prior to his election, Sharpe served eight years as an active-duty officer in the U.S. Navy. He retired after two decades of service, which included 12 years in the U.S. Naval Reserves. Sharpe is chairman of the Hillsborough Metropolitan Planning Organization and an active member of the Hillsborough Area Regional Transit Authority (HART). He served on the boards of directors for the Tampa Hillsborough Economic Development Corporation and Tampa Bay Partnership and also represented the County Commission on the boards of the Museum of Science and Industry and Tourist Development Council. After being termed out in 2014, Sharpe accepted his current position with the Tampa Innovation Alliance, where he has continued his efforts to bring jobs and improve Hillsborough County.



Kristiina Vuori

*President
Sanford Burnham Prebys Medical Discovery Institute*

Dr. Kristiina Vuori is president of Sanford Burnham Prebys Medical Discovery Institute (SBP) and professor and Pauline & Stanley Foster Presidential Chair. She earned her M.D. and Ph.D. degrees at University of Oulu, Finland, received postdoctoral training at SBP, and was appointed to the faculty in 1996. She served as director of the Institute's NCI-designated cancer center in 2005-2013, and she has been president of SBP since 2010. Vuori was selected PEW Scholar in 1997, fellow of the National Academy of Inventors in 2014, and is an investigator of a Stand Up To Cancer Dream Team. She serves or has served on boards of directors for the American Association for Cancer Research, California Institute for Regenerative Medicine, California Breast Cancer Research Program, and WebMD. She is co-founder of three biotechnology companies, and her research focuses on cancer metastasis. Presently, one approved drug and five therapies for cancer in Phase III trials stem from the work of SBP scientists.

Previous Inductees

• 2017 •



Issa Batarseh, Ph.D., PE

*Director of the Energy System Integration Division, Florida Solar Energy Center (FSEC),
Professor of Electrical and Computer Engineering
University of Central Florida, Orlando*

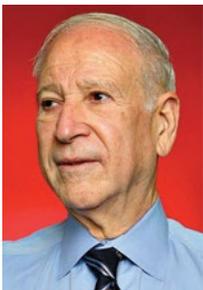
Batarseh is a professor at the University of Central Florida (UCF) who invented and developed low cost, high efficiency micro-inverters for photovoltaic (PV) applications that led to the creation of the first compact single solar PV panel. The technology developed by Batarseh and his team at UCF has made significant contributions in smart solar energy conversion. As a passionate entrepreneur and innovator, Batarseh co-founded two successful solar-focused start-up companies: Petra Systems and Advanced Power Electronics Corp. (APECOR), both of which are now operating nationally and internationally. Petra Systems launched in 2007, by licensing Batarseh's patents from UCF. Today, Petra designs and manufactures the first smart-grid interactive solar power system for installation on utility distribution poles. And, the Florida-based APECOR is a leading designer of solar chargers for military applications. Batarseh is a Fellow of the National Academy of Inventors (NAI), AAAS, and IEEE, and holds 29 U.S. patents.

Michael J. DeLuca, J.D.

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Kenneth M. Ford, Ph.D.

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Phillip Frost, M.D.

*CEO and Chairman
OPKO Health, Miami*

Frost is one of the nation's leading philanthropists, a highly-respected physician, an internationally-lauded businessman in the medical and pharmaceutical fields who invented a revolutionary disposable punch biopsy tool, as well as various therapeutic methods for treating rhinitis, cell disease, and diabetes. He was also the founder, chairman and CEO of IVAX Corporation, a Miami-based multinational pharmaceuticals company and chairman of the Board of TEVA Pharmaceuticals. Frost served on the board of regents of the Smithsonian Institution from 2006 to 2010, and as a trustee of the Scripps Research Institute until November 2012. He is a member of the board of trustees of the University of Miami (UM), and with his wife Patricia, is the namesake of the Frost Miami Science Museum, the Frost School of Music at UM, and the Frost Art Museum at Florida International University. Frost holds nine U.S. patents.



Richard D. Gitlin, Sc.D.

*State of Florida 21st Century World Class Scholar, Distinguished University Professor
Agere Systems Endowed Chair, Department of Electrical Engineering
University of South Florida, Tampa*

Gitlin is recognized for his innovative research and development in digital communications, broadband networking, and wireless systems that transformed communication technology. He has more than 40 years of leadership in the communications and networking industry. At Bell Labs/Lucent Technologies Gitlin performed and led pioneering research and development for 32 years. After retiring from Lucent as Senior VP of Communications and Networking, he was a visiting professor at Columbia University, and Chief Technology Officer of Hammerhead Systems, a venture funded networking company in Silicon Valley. He is a member of the National Academy of Engineering, a Fellow of the IEEE, a Bell Laboratories Fellow, a Charter Fellow of the National Academy of Inventors, and a co-recipient of the 2005 Thomas Alva Edison Patent Award and the S.O. Rice prize. Gitlin has co-authored a text and holds 65 patents.



Thomas H. Maren, M.D. (1918-1999)

*Graduate Research Professor, University of Florida, Chair, Department of Pharmacology
UF College of Medicine, Gainesville*

Maren was a physician and professor at the University of Florida (UF) and charter member of the UF College of Medicine faculty, who chaired the Department of Pharmacology for 22 years. Maren's research resulted in the invention and commercialization of Trusopt®, the first topical treatment for glaucoma. In 1955, Maren was recruited to UF where he was a major influence in developing the medical curriculum and recruiting faculty. At UF he continued his work on the medical effects of the inhibition of carbonic anhydrase, a prominent enzyme in renal function, respiration, and fluid secretion, which led to his revolutionary treatment for glaucoma using eye drops containing carefully designed inhibitors of carbon anhydrase. Maren was also a generous benefactor, establishing endowed chairs at the UF College of Medicine and supporting programs to promote reading efficiency among disadvantaged young students in Gainesville. During his career he accumulated over 200 research publications and is a named inventor on two U.S. patents.



Mary Helen McCay, Ph.D.

*Director, National Center for Hydrogen Research
Florida Institute of Technology, Melbourne*

T. Dwayne McCay, Ph.D.

*President and CEO
Florida Institute of Technology, Melbourne*

The McCays are the first scientist couple nominated to the Florida Inventors Hall of Fame and hold 15 joint U.S. patents in the area of metallurgical engineering, specific to laser-induced surface improvement (LISI) that has greatly contributed to increased patient safety and improved medical outcomes in facilities nationwide. Dwayne McCay is the current president and CEO of the Florida Institute of Technology (FIT) in Melbourne. Prior to coming to FIT in 2003, he held leadership positions at the University of Tennessee Space Institute, NASA Marshall Space Flight Center, and Air Force Rocket Propulsion Laboratory. Mary Helen McCay is a native Floridian, FSU and UF alumnus, former NASA Payload Specialist Astronaut, and director of the National Center for Hydrogen Research at FIT. Both highly regarded academics, the McCays' life-long commitment to education, the ideals of invention, and the advancement of science has greatly impacted the aerospace industry and advanced STEM education in central Florida.

• 2016 •



William S. Dalton, Ph.D., M.D.

Founder and CEO of M2Gen®, Director, DeBartolo Family Personalized Medicine Institute at Moffitt Cancer Center, Former President and CEO of H. Lee Moffitt Cancer Center and Research Institute, Professor of Oncology University of South Florida, Tampa

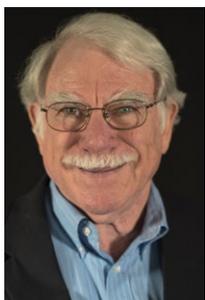
Dalton, former president and CEO of Moffitt Cancer Center and Research Institute, is the founder and current CEO of M2Gen®, a subsidiary of Moffitt, and recognized for his revolutionizing developments in cancer treatment. His research in molecular mechanisms of drug resistance led to the creation of Total Cancer Care™: personalized protocols for the treatment of cancer and information/decision tools used by clinicians worldwide. To date, Total Cancer Care™ has impacted the lives of over 120,000 patients and includes one of the largest bio-repositories and data warehouses in the U.S., dedicated to the improvement of personalized medicine. Dalton is regarded as a health policy expert on the study and development of the most effective approaches to cancer research and serves at the state level in an advisory role to the Governor, the Chief Justice, and Legislature to promote the economic growth of Florida and improve the quality of life of the citizens of Florida.



D. Yogi Goswami, Ph.D.

*Distinguished University Professor in Chemical Engineering
Director of the Clean Energy Research Center
University of South Florida, Tampa*

Goswami is known for his pioneering contributions and technology development related to solar energy and indoor air quality. Goswami's contributions in combined power/cooling cycles have impacted global research in a new class of thermodynamic cycles. He has invented nano-scale antenna technologies to convert sunlight to power and thermal energy storage technologies. He also founded Molekule, which is commercializing his technology to destroy indoor air pollutants including viruses, bacteria, mold, airborne fumes and allergens, helping allergy and asthma sufferers worldwide. The Molekule air purifier has been named one of *Time Magazine's* 25 Best Inventions of 2017 for its ability to not just trap harmful pollutants but eliminate them. Goswami has served as an advisor and given testimonies on energy policy and the transition to renewable energy to the U.S. Congress and various governments around the world. He has published 19 books and is the Editor-in-Chief of *Solar Energy* journal.



Alan George Marshall, Ph.D.

*Professor of Chemistry
Founding Director and Chief Scientist of the Ion Cyclotron Resonance (ICR) Program
Florida State University, Tallahassee*

Marshall is a professor of chemistry and founding director and chief scientist of the Ion Cyclotron Resonance (ICR) Program at Florida State University, which has attracted \$50M in grant support to Florida. He co-invented and leads continuing development of the Fourier Transform Ion Cyclotron Resonance (FT-ICR) mass spectrometry that aids in the study of molecular structure and the composition of cells. Marshall's inventions created an entirely new arena of discovery in a broad range of fields, from petroleum analysis to biomedicine. His original patents spawned the first commercial instrument (Nicolet Instrument Corp.) and subsequent FT-ICR instruments from other companies, with more than 800 FT-ICR instruments installed worldwide.



Nicholas Muzyczka, Ph.D.

*Professor of Microbiology
Edward R. Koger Eminent Scholar for Cancer Research
University of Florida, Gainesville*

Muzyczka is a professor of microbiology at the University of Florida (UF), recognized for his pivotal invention of the original patent for recombinant adeno associated virus (rAAV) vectors. Muzyczka's lab created a breakthrough with successful production of the AAV2 genome and AAV vectors. His research has led to potential therapies for neurodegenerative, pulmonary, cardiovascular, and eye diseases. In 1994 he became founding director of Powell Gene Therapy Center, making UF one of the leading institutions in AAV gene therapy. In 2001, Muzyczka founded Applied Genetic Technologies Corp (AGTC) a Florida based company that commercializes gene therapy applications.



Jacqueline W. Quinn, Ph.D.

*Environmental Engineer and Research Scientist, Project Manager for Regolith & Environment
Science and Oxygen Lunar Volatiles Extraction (RESOLVE)
NASA Kennedy Space Center, Titusville*

Quinn is a NASA environmental engineer who leads diverse environmental chemistry research at the Kennedy Space Center and invented NASA's most licensed and recognized technology for groundwater remediation, Emulsified Zero Valent Iron (EZVI). Additional environmental remediation methods created by Quinn include AMTS and SPEARS, used for removal of cancer-causing PCBs (polychlorinated biphenyls) in materials, soils and sediments. Quinn's technologies have been licensed by companies throughout the United States and internationally. In 2005, she received both NASA's Commercial and Government Invention of the Year awards. Quinn received the Federal Lab Consortium's Award for Excellence in Technology Transfer in 2006, and was inducted into the Space Technology Hall of Fame in 2007. In 2018 she was elected to the National Inventors Hall of Fame.



Andrew V. Schally, Ph.D, MDhc (Multi), D.Sc.hc

*1977 Nobel Prize in Physiology or Medicine
Distinguished Medical Research Scientist, Department of Veterans Affairs
Distinguished Professor of Pathology, University of Miami Miller School of Medicine
Chief of the Miami Veterans Affairs Medical Center Endocrine, Polypeptide and Cancer Institute,
Miami*

Schally received the 1977 Nobel Prize in Physiology or Medicine and was elected to the National Academy of Sciences in 1978 for his discovery of hypothalamic hormones. Subsequently he pioneered the application of analogues of hypothalamic hormones to cancer treatment, including the therapy of prostate cancer with agonists of LHRH used worldwide. Schally's patents are licensed to 5 companies and he is author or co-author of more than 2,400 publications.

M.J. Soileau

See page 28

• 2015 •



Henry Ford (1863-1947)

*Inventor and Businessman
Fort Myers*

Ford revolutionized the way Americans traveled and shaped the course of the 20th century. Ford was an innovator who transformed the automobile from a luxury item to a practical means of transportation. The explosive growth that followed led to the modern roadways and transportation systems that we know today. Ford not only revolutionized industrial manufacturing and production, but continued to improve upon his initial designs and explore new fields of automotive technology. Like his friend, Thomas Edison, Ford was a firm believer in finding natural solutions to industrial problems, culminating in an international search for a plant which could produce natural rubber. Two experimental rubber test sites in Florida, one of which — the Edison Botanic Research Corporation — was a collaborative effort with Thomas Edison and tire magnate Harvey Firestone. Ford also conducted aviation experiments and research development of the V-8 engine. Today, Ford's legacy of innovation and keen interest in research and education continues to inspire new generations.



Robert Grubbs, Ph.D.

*2005 Nobel Prize in Chemistry
Victor and Elizabeth Atkins Professor of Chemistry, California Institute of Technology
Graduate, University of Florida, Gainesville*

Grubbs is a 2005 Nobel Laureate in Chemistry recognized for his contribution in the field of chemistry that has led to the creation of practical, sustainable new materials in medicine and the plastics industry. His Nobel Prize was for the development of the metathesis method in organic synthesis. Grubbs Catalyst is used worldwide in virtually any application involving metathesis chemistry (redistribution of bonds). During his initial discoveries, Grubbs was mentored in the field of organic chemistry while pursuing his B.S. and M.S. degrees at University of Florida (UF). In 1998 he received his Ph.D. in chemistry from Columbia University. Although he relocated thereafter, and has taught at CalTech since 1978, he continues to support UF Chemistry through mentoring and collaborations.



Robert Holton, Ph.D.

*Matthew Suffness Professor of Chemistry
Florida State University, Tallahassee*

Holton is a Florida State University professor and American academic chemist who is known for his work regarding the chemical synthesis for Taxol, a widely-used and highly-effective anti-cancer drug. Besides Taxol, Holton was able to synthesize a range of other natural products as well. Most notable are Prostaglandin F_{2a}, a naturally occurring prostaglandin used in medicine to induce labor; Narwedine, an important chemical reaction compound; Aphidicolin, an antibiotic with antiviral and antimetabolic properties; Taxusin; and Hemibrevitoxin. Those accomplishments are a testament to Holton's dedication to science and medicine. His Taxol was the top selling anti-cancer drug in 1995 and generated over \$1.6 billion in revenues by the end of the decade. In addition, Taxol generated the largest patent payout in history for a single university (FSU).



Jerry Pratt, Ph.D.

*Research Scientist, Florida Institute for Human & Machine Cognition
Pensacola*

Pratt leads a research group at the Florida Institute for Human and Machine Cognition that concentrates around the understanding and modeling of human gait and the applications of that understanding in the fields of robotics, human assistive devices, and man-machine interfaces. Current projects include Humanoid Avatar Robots for Co-Exploration of Hazardous Environments, FastRunner Robot, and Exoskeletons for Restoration of Gait in Paralyzed Individuals. Pratt's work in walking robotics is revolutionary and he has placed Florida on the world map in this highly competitive arena. He and his research team have several patents pending on robots that are believed at this time to be the fastest running robots in the world.

Paul R. Sanberg

See page 8



Nan-Yao Su, Ph.D.

*Distinguished University Professor of Entomology
Fort Lauderdale Research and Education Center
University of Florida, Davie*

Su was recognized for the revolutionary impact of his reduced risk method for termite control as co-recipient with Dow AgroSciences for the Presidential Green Chemistry Challenge Award from the U.S. Environmental Protection Agency in 2000. His innovative research on population ecology of subterranean termites and slow-acting control agents gave Dow AgroSciences the confidence to move forward to co-develop and launch a monitoring-baiting system for population control of subterranean termites, commercially known as the *Sentricon System*. The *Sentricon System* has seen 20 years of success in the termite control market. First launched in 1995, the *Sentricon System* represented a paradigm shift in termite control and has profoundly changed the way subterranean termites are controlled worldwide.



Janet K. Yamamoto, Ph.D.

*Professor
College of Veterinary Medicine
University of Florida, Gainesville*

Yamamoto is a professor of retroviral immunology in the University of Florida College of Veterinary Medicine's department of infectious diseases and pathology. In 1984, she established the HIV/AIDS BSL3 laboratory under the joint directive of the Schools of Medicine and Veterinary Medicine at the University of California-Davis, which became the Center for AIDS Research. She is the first to demonstrate, together with Nobel laureate Dr. Françoise Barré-Sinoussi, that interferon-gamma will not protect against HIV-1, and she has served as the consultant of the second FDA-approved HIV-1 Western blot for HIV-1 confirmatory test. Yamamoto co-discovered the feline immunodeficiency virus, FIV, the feline counterpart of HIV. She also invented the first commercial FIV vaccine sold by Pfizer-Zoetis and Boehringer. Her current research focus is on the development of a T-cell based HIV vaccine and she donates all of her patent royalty/licensing income to her research.

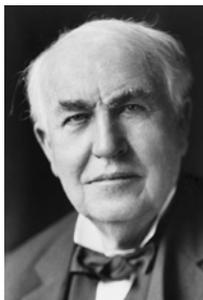
• 2014 •



Robert Cade, M.D. (1927-2007)

*Professor Emeritus
University of Florida, Gainesville*

Cade developed Gatorade, which has protected countless amateur and professional athletes from heat-related injuries and has treated millions of people with dehydration diseases worldwide. Now owned by PepsiCo, Gatorade is listed by Forbes magazine as one of the world's 40 most powerful sports brands and has annual sales of more than \$4 billion. For the University of Florida (UF) and the citizens of Florida, the success of Gatorade has translated into more resources to support research. Since 1973, Gatorade has brought more than \$200 million to the university, enabling UF to invest in countless research projects.



Thomas Edison (1847-1931)

*Inventor and Businessman
Fort Myers*

Edison is the most prolific inventor in U.S. history with 1,093 patents. No other inventor improved the standard of living of Americans in the 20th century as much as Edison. His inventions span diverse fields: electric lighting and power systems, batteries, recorded sound, and film. Edison contributed to both chemistry and botany with a project in Fort Myers to find a natural source of rubber to be grown in the U.S. during a national emergency. Credited for creating the first modern industrial research laboratory, Edison followed an empirical approach to scientific research and helped set the standard for how to invent. As the man of the millennium, Edison's research and business practices created the model for today's research laboratories, product development and invention processes.



William Glenn, B.E.E., M.S., Ph.D. (1926-2013)

*Professor Emeritus
Florida Atlantic University, Boca Raton*

Glenn had a lifetime of innovations, achievements and contributions in the fields of high resolution imaging technology, electronic/optical physics and electrical engineering. A past VP/Director of Research at CBS Laboratories and Director of the NASA Imaging Technology Space Center, he developed high-definition digital imaging technology that had utility in military, aerospace, surveillance and consumer applications (Panavision). Glenn developed the High Definition Maximum Value (HDMAX) complementary metal-oxide Semiconductor (CMOS) camera, which exceeded the resolution and performance capabilities of all existing high definition television cameras. The camera was used by NASA at the international space station and versions of the HDMAX CMOS camera were developed for U.S. military use in coastline security and surveillance and by NASA for space-flight scientific observation, inspection and medical informatics.



John Gorrie, M.D. (1803-1855)

*Inventor, Humanitarian, Physician
Apalachicola*

Gorrie invented the ice-making machine and is considered the father of air conditioning and refrigeration. Gorrie's invention began with an attempt to cure Yellow Fever during an outbreak in Apalachicola in 1841. Convinced that cold was a healer, he advocated the use of ice to cool sickrooms and reduce fever. Ice was shipped by boat from northern lakes until Gorrie's successful experimentations with the rapid expansion of gases to create refrigeration. The state of Florida honored Gorrie as a notable person in Florida's history by donating the statue of John Gorrie to the National Statuary Hall collection located in the United States Capitol Building, and naming a Florida state park and museum in his honor.



Shyam Mohapatra, M.S., Ph.D., MBA, FAAAAI, FNAI

*Distinguished USF Health Professor, University of South Florida, and
Research Career Scientist, James A. Haley VA Hospital, Tampa*

Mohapatra is recognized for his many inventions in the field of nanoscale biomedical diagnostics and therapeutics in cancers, asthma, viral infections, and traumatic brain injury. His inventions led to several customized cell-targeted nanoparticles with diverse drug payloads and a nano-HIV detection kit. Mohapatra cofounded TransGenex Nanobiotech Inc. (TGN), which specializes in manufacturing these nanoscale products. TGN is also commercializing products for 3D cancer cell culture technology and services for anti-cancer drug discovery and personalized cancer treatment (PCTx). TGN is establishing a Reference Lab for PCTx prescription in collaboration with Florida Medical Clinics. Mohapatra's research has brought the University of South Florida over \$20 million in extramural funds and includes inventions that have spun out companies. He is a Fellow of the National Academy of Inventors.



Shin-Tson Wu, Ph.D.

*Pegasus Professor of Optics in CREOL, The College of Optics and Photonics
University of Central Florida, Orlando*

Wu's contributions to liquid crystal research and the resulting patent portfolio for next-generation liquid crystal displays, adaptive optics, laser beam steering, biophotonics, and new photonic materials, have had a major impact on display technology worldwide. His most significant development to date is the mixed-mode twisted nematic LC cell, which is an integral part of high-resolution, high-contrast reflective and transfective LCDs, including direct-view, projection and wearable displays. Wu's technologies have enabled new types of optical beam control devices and have impacted many who have ever used an LCD product, such as a smart phone, computer screen and television. He is a Fellow of the National Academy of Inventors.



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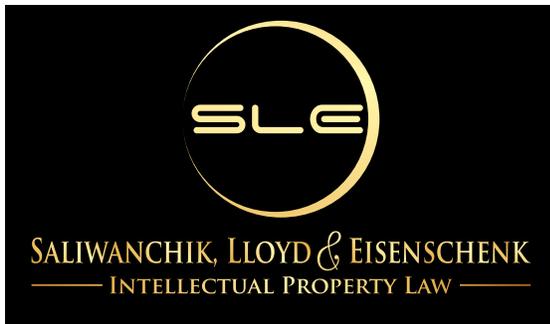
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Jonathan Cestero and Pablo Arencibia, USF School of Music

FLORIDA INVENTORS HALL OF FAME

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