



Stony Brook University

Chapter of the National Academy of Inventors

*Uxqp { 'Dt qqm Wp kxgt ulv { 'Ej cr vgt 'qh
Vj g'P cv kqp cn Cec fgo { 'qh' Kp xgp vqt u*

Annual Meeting

NAI Member Induction Ceremony

**Thursday, Oct 32, 2022
via Zoom 5:00-7:20pm**



Stony Brook University

The State University of New York



**STONY BROOK UNIVERSITY CHAPTER
of
THE NATIONAL ACADEMY OF INVENTORS**



Imagination is more important than knowledge, for imagination embraces the world. – Albert Einstein

In universities across the nation and around the world, great scientists, scholars and educators are teaching the next generation of researchers and inventors.

The **National Academy of Inventors** (NAI) was founded at the University of South Florida to recognize and encourage inventors who have a patent issued from the U.S. Patent and Trademark Office (USPTO); enhance the visibility of university technology and academic innovation; encourage the disclosure of intellectual property; educate and mentor innovative students; and translate the inventions of its members to benefit society.

A researcher's contribution reaches the benchmark of inventorship as recognized by the USPTO because its discovery had no significant prior art, was not obvious to someone else skilled in the field, and had a specific use. Although every invention and every inventor is unique, some things are common to all. It takes imagination and ingenuity to be an inventor.

Without inventors we would not have our iPads, smart phones, automobiles or new sources of energy. As a society, we are eager in anticipation of the cure for cancer, HIV, diabetes, and neurological disorders such as Alzheimer's or Parkinson's disease. An inventor feels a sense of pride when the years of hard work come to fruition with either a miraculous discovery in medicine or the next generation of information technology.

Inventors truly should be recognized for their imagination and accomplishments, and called upon to share their special translational talents within the university and the wider community.

Therefore, the **Stony Brook University Chapter of the National Academy of Inventors** has been established to recognize the contributions of scientist-inventors across all disciplines in our university community.

The Stony Brook University Chapter of the National Academy of Inventors (NAI-SBU Chapter) is open to all members of the university community, including faculty, staff, alumni and affiliates, who have received an issued patent from the USPTO. An annual meeting and recognition ceremony will be held during the academic year and a list of members will be published, in order to enhance networking, recognition, and the opportunity to share your experiences.

Membership in the NAI is available through local university chapters only. Chapter members are automatically enrolled as members of the NAI, with all rights and privileges thereof.

The NAI-SBU Chapter is looking forward to working with the campus community and affiliated institutions for encouraging and bolstering academic inventions and entrepreneurship, as well as education cultivating the next-generation of academic inventors.

Sincerely yours,

Iwao Ojima, Ph.D.
President, NAI-SBU Chapter,
NAI Fellow

NAI-SBU Chapter

Chapter President: Iwao Ojima, Executive Director: Sean Boykevisch

Executive Committee: Arie Kaufman, Roger Johnson, Sanjay Sampath, Wei Zhao

Chapter Board: Ester Takeuchi, Benjamin Chu, Benjamin Hsiao, Iwao Ojima, Jahangir Rastegar, Lorne Golub, Arie Kaufmann, Clinton Rubin

Administrator: Roxanne Brockner, Treasurer: Linda Galvin, Secretary: Maureen Case, Public Relations: Olga Kaufman



Stony Brook
University



SBU Chapter of the National Academy of Inventors

Annual Meeting, NAI Member Induction Ceremony
Thursday, May 12, 2022
Via Zoom

3:00 - 3:15 pm

Opening Remarks

Moderator: Sean Boykevisch, Ph.D., Executive Director, NAI-SBU Chapter
Message from President Maurie McInnis, Stony Brook University
Richard Reeder, Ph.D., Vice-President for Research, Stony Brook University

3:15 – 3:30 pm

State of NAI-SBU Chapter

Presenter: Iwao Ojima, Ph.D., President, NAI-SBU Chapter

3:30 – 3:45 pm

Induction of New NAI Members and NAI Honorary Members

Moderator: Sean Boykevisch, Ph.D., Executive Director, NAI-SBU Chapter
Presenter: Iwao Ojima, Ph.D., President, NAI-SBU Chapter
Message from NAI President, Paul Sanberg to New Inductees
Pin Ceremony, Diana Jerome, NAI Asst. Program Director

3:45 – 4:05 pm

Keynote Lecture

Moderator: Iwao Ojima, Ph.D., President, NAI-SBU Chapter
Stanislaus Wong, Distinguished Professor, NAI-Fellow
"Rationally Designed Nanowires as Catalysts for Energy Applications"

4:05 – 4:30 pm

Award Ceremony for Young Academic Inventors

Moderator: Sean Boykevisch, Ph.D., Executive Director, NAI-SBU Chapter
Presenter: Iwao Ojima, Ph.D., President, NAI-SBU Chapter
Winners: Lei Wang, Ph.D.
Yasha Karimi, Ph.D.

4:30 pm – 4:50pm

Words from New NAI Members, NAI Honorary Members, Young Academic Inventors and NAI Chapter members

4:50 pm – 5:00pm

"Propelling your Invention into the World" Ann-Marie Scheidt/Anurag Purwar

5:00pm

Closing Remarks

Sean Boykevisch, Ph.D., Executive Director, NAI-SBU Chapter

NAI Fellows



Dr. Iwao Ojima received his B.S., M.S., and Ph.D. (1973) degrees from the University of Tokyo, Japan. He joined the Sagami Institute of Chemical Research and held a position of Senior Research Fellow until 1983. He joined the faculty in the Department of Chemistry, State University of New York at Stony Brook first as Associate Professor (1983), was promoted to Professor (1984), Leading Professor (1991), and then to Distinguished

Professor (1995). He served as the Department Chairman from 1997 to 2003. He has been serving as the founding Director for the Institute of Chemical Biology and Drug Discovery (ICB&DD) from 2003. He has a wide range of research interests in synthetic organic and medicinal chemistry as well as chemical biology, including discovery and development of anticancer agents and antimicrobials, targeted drug delivery, catalytic methodologies and asymmetric synthesis. His awards and honors include Arthur C. Cope Scholar Award (1994), E. B. Hershberg Award for Important Discoveries of Medicinally Active Substances (2001), the Medicinal Chemistry Hall of Fame (2006), ACS Award for Creative Work in Fluorine Chemistry (2013) from the American Chemical Society; the Chemical Society of Japan Award (1999); Outstanding Inventor Award (2002) from the Research Foundation of the State University of New York; Elected Fellow of J. S. Guggenheim Memorial Foundation, the American Association for the Advancement of Science, the New York Academy of Sciences, the American Chemical Society and the National Academy of Inventors.



Dr. Esther Takeuchi received her B.S. from the University of Pennsylvania in Chemistry and History and completed her Ph.D. in Chemistry at Ohio State University. She completed her post-doctoral research at the University of North Carolina and the State University of New York at Buffalo. Upon completing her post-doctoral research, Dr. Takeuchi was employed at Greatbatch, Inc. in Clarence, NY where she conducted research on batteries for unique environments, including implantable applications. She led the battery research team and was involved in the development of several battery systems including the lithium/silver vanadium oxide (Li/SVO) battery, which powers the majority of implantable cardiac defibrillators (ICDs). Dr. Takeuchi began her academic career at SUNY Buffalo where she held joint appointments in the Department of Chemical and Biological Engineering and the Department of Electrical Engineering. Dr. Takeuchi was awarded the National Medal of Technology and Innovation by President Obama (2009). She was inducted into the National Inventors Hall of Fame (2011), elected as a Charter Member of the National Academy of Innovation (2013), received the E. V. Murphree Award and the Astellas Award from the American Chemical Society and the Battery Division Technology Award from the Electrochemical Society. She is a Fellow of the Electrochemical Society (ECS) and the American Institute of Medical and Biological Engineering and a member of the National Academy of Engineering. A prolific inventor, Dr. Takeuchi holds over 150 patents.



Dr. Benjamin S. Hsiao received his B.S. degree from National Taiwan University, Ph.D. from the University of Connecticut, and post-doctorate training at the University of Massachusetts. He joined the DuPont Company as a staff scientist and spent 8 years in R&D before coming to Stony Brook University. He served as Chair of the Chemistry Department and as Vice President for Research at Stony Brook

University. Currently, Dr. Hsiao is a Founding Co-Director of Innovative Global Energy Solutions Center, aiming to prototype 'sustainability for off-grid communities of tomorrow', using the Turkana Basin Institute in northern Kenya as a living laboratory. He is also the Director of Center for Advanced Technology in Integrated Electric Energy Systems, with the mission to enhance the development and integration of advanced technologies into electric energy systems on multiple scales. Dr. Hsiao has a distinguished reputation in polymer science, and his research interests are mainly focused on the development of sustainable nanostructured materials for energy and water purification applications. He was elected as Fellow of American Association for the Advancement of Science, Fellow of American Chemical Society, Fellow of the American Physical Society, Fellow of Materials Research Society, Fellow of National Academy of Inventors, and received SUNY Distinguished Professor, Honorary Professor from University of Queensland in Australia, Chang-Jiang Scholar from Education Ministry of China, Co-operative Research Award from Division of Polymeric Materials Science and Engineering of American Chemical Society, NSF Special Creativity Award and DuPont Young Faculty Award.



Dr. Benjamin Chu received his B.S. degree, magna cum laude from St. Norbert College (1955) and his Ph.D., from Cornell University (1959). At the University of Kansas, he served as Assistant Professor of Chemistry (1962-1965) and Associate Professor of Chemistry (1965-1968). At the State University of New York at Stony Brook, he served as Chairman of the Department of Chemistry (1978-1985),

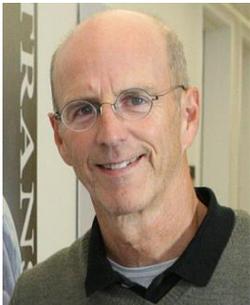
Professor of Chemistry (1968-1988), Professor of Materials Science and Engineering (1982-1992), Leading Professor of Chemistry (1988-Present) and Distinguished Professor (1992-Present). Dr. Chu has been awarded the Alfred P. Sloan Research Fellow (1966-1968), John Simon Guggenheim Fellow (1968-1969), Humboldt Award for Senior U.S. Scientists (1976-1977, 1992-1993), American Physical Society Fellow, American Institute of Chemists Fellow, High Polymer Physics Prize of the American Physical Society (1993), Langmuir Distinguished Lecturer Award, Division of Colloid and Surface Chemistry of the American Chemical Society (1994), Award for Distinguished Service in Advancement of Polymer Science by the Society of Polymer Science, Japan (1997), Gutenberg Lecture Award, Johannes Gutenberg University (2007), and National Academy of Inventors Fellow (2013). He is an Honorary Member of the Society of Polymer Science, Japan (2008). Dr. Chu has 650 publications, 41 patents/patent applications and written 6 books. His research is focused on environmental problems, especially those related to water and air.

NAI Fellows



Dr. Jahangir Rastegar received his B.S. from SMU in 1969 and his M.S. and Ph.D. degrees from the Mechanical Engineering Department of Stanford University in 1972 and 1977 respectively. He joined the General Engineering and Bioengineering faculty at the University of Illinois at Urbana-Champaign. He then worked five years in engineering firms designing

machinery for the steel industry. In 1987, he joined the Mechanical Engineering Department at SUNY at Stony Brook. His current research interests include the optimal design of structures for machinery and devices, kinematics, dynamics, biomechanics, vibration and control as related to high speed and precision machinery and robotics, passive and active vibration isolation and damping, the development of smart materials based actuators and systems, sensor and actuation devices. He is a co-founder of Omnitek Partners, LLC. He has published over 240 journal and conference papers. He is former Associate Editor of the ASME Journal of Mechanical Design for Mechanisms and Robotics and Associate Editor of the ASME Journal of Medical Devices. He has 206 U. S. and seven foreign patents issued and over 90 pending. He is a Fellow of the American Society of Mechanical Engineers (ASME). He is the recipient of the American Society of Mechanical Engineers (ASME) "2010 Machine Design Award," for "eminent achievements as an inventor and scholar in the field of machine design, particularly in the area of smart actuation and control." He is a fellow of the National Academy of Inventors.



Dr. Clinton Rubin received his B.A. in Physiology from Harvard University and a Ph.D. in Anatomy from University of Bristol, United Kingdom. Dr. Rubin is a SUNY Distinguished Professor of Biomedical Engineering, and Director of the Center for Biotechnology at Stony Brook University in Stony Brook, New York. Rubin's research is targeted towards understanding the cellular mechanisms responsible for the growth,

healing, and homeostasis of bone, and how mechanical stimuli mediate these responses through the control of mesenchymal and hematopoietic stem cell differentiation and proliferation, to establish non-drug treatment strategies for osteoporosis, obesity and diabetes. Dr. Rubin holds ~30 patents in the area of wound repair, stem cell regulation, and treatment of metabolic disease, and is a founder of Exogen, Juvent, and Marodyne Medical, which use physical signals to regulate biologic processes. He has published over 300 articles, has been cited ~24,000 times, with an H-index of 80. He is a fellow of AAAS and AIMBE, and a recipient of the Presidential Young Investigator Award from the NSF.



Dr. Lorne Golub received his D.M.D. (1963) and M.Sc. degrees (1965) from the University of Manitoba, Canada. With support from the National Research and Medical Research Councils (Canada), he completed his clinical specialty training (Periodontics) at the Harvard School of Dental Medicine, with additional research training at the Mass. Gen. Hospital, Harvard Medical School (1968). He returned to Manitoba to co-

develop the first specialty training program (Periodontics) combined with a Ph.D. in Oral Biology. He was a founding member of the faculty when the SUNY Stony Brook School of Dental Medicine opened in 1973. He was promoted to Professor in 1977, and SUNY Distinguished Professor in 2003. He served as Associate Dean for Research (1993-2003) and Interim-Dean of the Dental School (2008-2009). In 2006, his research was highlighted in "Technology Transfer Stories - 25 Innovations that Changed the World." AUTM, The Better World Report, Ch.24. He has generated innovations on matrix-metalloproteinases and their therapeutic inhibition by inventing FDA (and internationally)-approved novel NON-antibiotic tetracycline formulations as inhibitors of collagenolysis during a variety of oral and systemic diseases (periodontitis, arthritis, cancer, diabetes, heart and lung diseases). More recently, he, and his Department of Chemistry colleague, developed and patented novel chemically-modified curcumins as pleiotropic MMP-inhibitors. He holds 55 U.S. and 104 international patents which were licensed to and marketed by several corporations and is scientific co-founder of two start-up companies. He has published more than 300 scientific articles .



Dr. Arie Kaufman received his B.S. in Mathematics and Physics from the Hebrew University of Jerusalem, M.S. in Computer Science from the Weizmann Institute of Science, Israel, and a Ph.D. in Computer Science from Ben-Gurion University, Israel. He is a Distinguished Professor of Computer Science and Radiology, the Director of the Center of Visual Computing (CVC), the Chief

Scientist of the Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University (SBU). He joined the faculty at SBU in 1985 and served as Chair of Computer Science for 18 years (1999-2017). He also held posts at the Hebrew University, Tel-Aviv University, Florida International University, Ben-Gurion University, Columbia University and Harvard University. Dr. Kaufman is most well-known for developing virtual colonoscopy for colon cancer screening that has been licensed, FDA approved and commercialized; the Cube hardware for real-time volume rendering that has been licensed and commercialized, enabling 3D medical imaging on PCs; and the Reality Deck, the largest resolution immersive visualization facility, enabling visual analytics of big data. He received the prestigious IEEE Visualization Career Award and was inducted into the LI Technology Hall of Fame. He holds 99 patents, 52 of which have been licensed to 9 companies. He is the co-founder of Viatronix, Inc. He has published in excess of 330 refereed papers/books/chapters, and more than 300 conference presentations, and was the founding Editor-in-Chief of IEEE Transaction on Visualization and Computer Graphics (TVCG), 1995-98. He is a member of the European Academy of Sciences, IEEE Fellow, ACM Fellow, and NAI Fellow.

NAI Fellows



Dr. William Studier earned a B.S. in biophysics from Yale in 1958, followed by a Ph.D. from the California Institute of Technology in 1963. He worked as a postdoctoral fellow in the Department of Biochemistry at Stanford University School of Medicine, and then joined Brookhaven Lab's Biology Department in 1964 as an assistant biophysicist. Over the years, Studier rose through the department's ranks, receiving tenure in 1971 and becoming a tenured senior

biophysicist in 1974. He served as chair of the Biology Department from 1990 to 1999 and then returned to research. His achievements have been recognized by election to the American Academy of Arts and Sciences in 1990, the National Academy of Sciences in 1992, and as a Fellow of the American Association for the Advancement of Science in 2007. Retired from Brookhaven Lab in 2015, he retains the title of Senior Scientist Emeritus. He holds 15 patents of which 9 patents have been licensed and commercialized, including those on the T7 system, which is the most successful Brookhaven Lab technology invented to this day.



Dr. Kenneth Kaushansky Dean, Stony Brook School of Medicine, is a physician-scientist specializing in hematology, is known internationally for his seminal research on the molecular biology of blood cell production. He began his clinical and research career at the University of Washington, where he rose to become Section Chief of Hematology and received several NIH grants. While at the University of Washington, and subsequently at the

University of California, San Diego, Dr. Kaushansky and his research team cloned several of the genes important in the growth of differentiation of blood cells, including thrombopoietin, a key regulator of stem cell and platelet production. He and colleagues then established that thrombopoietin exerts a profound influence on hematopoietic stem cells and affects the expression of a number of transcription factors that influence stem cell fate decisions. This work also led to a better understanding of the pathobiology of several congenital disorders of platelet and stem cell production. Prior to coming to Stony Brook in 2010, Dr. Kaushansky was the Helen M. Ranney Professor and Chair of the Department of Medicine at the University of California, San Diego School of Medicine, where he grew the department's research, educational and clinical impact. During his tenure at Stony Brook thus far, Dr. Kaushansky has spearheaded the expansion of academic programs and training within the School of Medicine and Health Sciences and has overseen the development of the Medical and Research Translation (**MART**) Building. With its opening next month, the MART will serve as an incubator for new approaches to understanding the causes for, and treatments of cancer, using sophisticated imaging and informatics, work that is expected to lead to many more Stony Brook Medicine inventions.



Dr. Israel Kleinberg earned his Doctor of Dental Surgery degree from the University of Toronto and his Doctor of Philosophy degree from the University of Durham. Dr. Kleinberg founded Stony Brook School of Dental Medicine's Department of Oral Biology and Pathology. Dr. Kleinberg's devotion to discovery has informed and inspired his immense success which includes over 300 scientific publications, over 60 years of continuous research

funding, and the issuance of 21 patents and numerous foreign patents. Dr. Kleinberg's countless accolades include the William J. Gies Award for Vision, Innovation and Achievement of the ADEA Gies Foundation, ADEA, and Outstanding Inventor Award, State University of New York. Through innovative translational research and pioneering partnerships across the field of oral biology, Dr. Kleinberg developed and helped bring to market multiple products with the potential for the enhancement of human health and wellbeing. Of note, his inventions include Smartmouth™ Mouthwash and BasicBites® soft chews, both dentifrice products purchased by Colgate®, and the Ortek Electronic Caries Detector, an FDA-approved device for the early detection of caries.



Dr. Stanislaus Wong earned a B.Sc. in Chemistry from McGill University (Canada) in 1994 followed by an A.M. in Chemistry from Harvard University in 1996. He earned a Ph.D. degree in Chemistry from Harvard University in 1999. He worked as a postdoctoral fellow in the Department of Chemistry at Columbia University. He then joined the Department of Chemistry at Stony Brook University as an Assistant Professor in 2000 with a joint appointment with

Brookhaven National Laboratory in the Condensed Matter Physics & Materials Sciences Division (9/1/2000 - 8/31/2017). He is currently a SUNY Distinguished Professor, and serves as the Vice Chair for Research, Budget, and Facilities in the Department of Chemistry. Dr. Wong's work is characterized by impressive productivity and creativity. His inventions in the chemical functionalization of carbon nanotubes, the synthesis of new multi-metallic metal oxide nanostructures, and the preparation of metal-based nanowires have not only enhanced the effectiveness of these tailored 'nanoscale' materials for applications as diverse as energy storage, solar energy harvesting, catalysis, magnetism, and medical diagnostics but also facilitated the development of innovative nanoscale products for the aerospace, automotive, optoelectronic, marine, and sports industries. Dr. Wong is a Fellow of the American Association for the Advancement of Science, the American Chemical Society, and the Royal Society of Chemistry. Moreover, he has received the American Chemical Society Inorganic Nanoscience Award, an Alfred P. Sloan Fellowship, the ACS Buck-Whitney Award, and a National Science Foundation CAREER Award. In 2018, SUNY granted him the SUNY Chancellor's Award for Excellence in Scholarship and Creative Activities, and in 2019, he was named a SUNY Distinguished Professor. In addition, he has been involved with *ACS Applied Materials and Interfaces* as an Associate Editor since 2014 and an Executive Editor since 2018.

NAI Fellows



Dr. Craig Lehmann is a registered clinical chemist and a Fellow in the National Academy of Clinical Biochemistry. He is also Dean of the School of Health Technology and Management at Stony Brook University. As Dean and Professor, Dr. Lehmann leads Undergraduate and Graduate Programs for Clinical Laboratory Sciences; Respiratory Care; Physician Assistant; Cytotechnology; Occupational Therapy; Physical Therapy; Health

Sciences and Healthcare Policy and Management. Under his direction, the School of Health Technology and Management is now the largest of all of the health professions schools at Stony Brook University. For the past several years, Dr. Lehmann has participated in national and international conferences, lecturing on emerging technologies that improve the aging experience. Dr. Lehmann presented at Capitol Hill in Washington, D.C., where he led President Bush's Advisor for Science and Technology in discussions that focused on the benefits of e-technology and the major disease states suited for application; principally, diabetes, cardiovascular disease and congestive heart failure. To that end, he invented a medication management device that assists clients and caregivers managing complex medication regimens and may help reduce the \$100-300 billion spent in the U.S. each year for medication non-adherence issues. Dr. Lehmann has also served as a United States delegate for the American Society for Clinical Laboratory Sciences at three world congresses in Holland, Sweden, and Australia. He is the recipient of many awards including the "Outstanding Contributions in Education Award from the American Association for Clinical Chemistry, and the Stony Brook University Provost's Award for "Exceptional Service to Undergraduate Education" at Stony Brook University.



Dr. Serge Luryi is a Distinguished Professor of the SBU department of Electrical and Computer Engineering. He is also a Fellow of the American Physical Society, and a Fellow of the Optical Society of America. Dr. Luryi joined the faculty of Stony Brook University in 1994. From 1994 to 2016 he served as Chair of the Department of Electrical and Computer Engineering. Since 1998, he has been the Founding Director of the New York State Center for

Advanced Technology in Sensor Systems (Sensor CAT). The Sensor CAT was driven by needs of New York State industries that develop, manufacture, or employ sensors and supported science-based start-ups, especially those connected with university research. This support included universal modern prototyping facilities, assistance by the CAT's Entrepreneur-in-Residence, and the CAT's connections with the New York investment community. The Sensor CAT has developed an "All in One" Electrical Engineering Educational Kit, including laboratories, which allowed Stony Brook University to become the first research institution to offer a Bachelor of Science in Electrical Engineering online degree. Most of this activity was based on the patented inventions of Dr. Luryi and his associates in such diverse sensor-related fields as DNA sequencing and high-energy radiation detection. A preeminent research scientist, Dr. Luryi was elected to the Fellow of the IEEE *for contributions in the field of heterojunction devices*, Fellow of the American Physical Society *for theory of electron transport in low-dimensional systems and invention of novel electron devices*, and Fellow of the Optical Society of America *for outstanding and pioneering contributions to semiconductor optoelectronics, especially to the physics and photonic applications of low-dimensional semiconductor structures*. In 2006, he received the IEEE Long Island Section's Papoulis Award for Excellence in Engineering and Technology Education with the citation: " *For pioneering contributions to include entrepreneurial skills in engineering education on Long Island.* " Dr. Luryi's most impactful invention to industry and society is the endowment of silicon chips with various capabilities, e.g. optoelectronics. In his impressive career, Dr. Luryi has been a pioneer in semiconductor research and its commercial application by translating research discoveries into new technologies.

NAI New Members



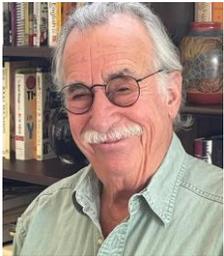
Dr. Andisheh Abedini

Research Associate Professor
Department of Chemistry



Dr. I.V. Ramakrishnan

Professor
Department of Computer
Science
Associate Dean for Strategic
Initiatives



Dr. Joel Levine

Professor Emeritus
John S. Toll Professor
Department of Neurobiology and
Behavior



Dr. Dimitris Samaras

SUNY Empire Innovation
Professor
Department of Computer
Science



Dr. Yi-Xian Qin

Distinguished Professor and
Chair
Department of Biomedical
Engineering

Honorary Members



James Harrington, Esq.

Attorney at Law and Partner
Hoffmann & Baron, LLP

Young Academic Inventor's Award Recipients



Dr. Lei Wang

Associate Scientist, Brookhaven
National Laboratory
(Ph.D. 2016, Chemistry, Stony
Brook University).

*“For her numerous inventions
in the field of energy storage
and the implementation of renewable energy”*



Dr. Yasha Karimi

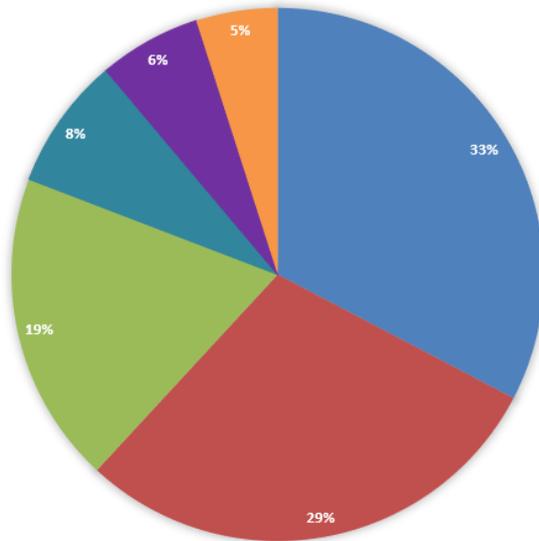
Staff Analog/mixed-mode IC
design Engineer, Iota Biosciences,
Alameda, CA (Ph.D. 2019,
Electrical and Computer
Engineering, Stony Brook
University).

*“For his ultra-low power inventions in the areas of
internet-of-things and medical devices”*

TOP 100 WORLDWIDE UNIVERSITIES GRANTED U.S. UTILITY PATENTS 2020

INSTITUTION RANKING	# OF PATENTS	INSTITUTION RANKING	# OF PATENTS		
1	UNIVERSITY OF CALIFORNIA, THE REGENTS OF.....	597	27	UNIVERSITY OF MASSACHUSETTS.....	84
2	MASSACHUSETTS INSTITUTE OF TECHNOLOGY.....	383	28	UNIVERSITY OF ARIZONA / THE ARIZONA BOARD OF REGENTS ON BEHAFT OF THE UNIVERSITY OF ARIZONA.....	81
3	STANFORD UNIVERSITY.....	229	29	UNIVERSITY OF ILLINOIS.....	80
4	UNIVERSITY OF TEXAS.....	207	30	DUKE UNIVERSITY.....	78
5	JOHNS HOPKINS UNIVERSITY.....	185	30	KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION.....	78
6	PURDUE RESEARCH FOUNDATION.....	175	32	INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY.....	76
7	WISCONSIN ALUMNI RESEARCH FOUNDATION....	162	33	KING ABDULAZIZ UNIVERSITY.....	71
8	CALIFORNIA INSTITUTE OF TECHNOLOGY.....	156	34	RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK.....	70
9	TSINGHUA UNIVERSITY.....	155	35	SEOUL NATIONAL UNIVERSITY RESEARCH & DEVELOPMENT BUSINESS FOUNDATION (SNU R&DB FOUNDATION).....	68
10	HARVARD COLLEGE, PRESIDENT AND FELLOWS..	154	35	VANDERBILT UNIVERSITY.....	68
11	ARIZONA STATE UNIVERSITY.....	140	37	NEW YORK UNIVERSITY.....	64
11	UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED.....	140	38	NATIONAL TSING HUA UNIVERSITY.....	63
13	UNIVERSITY OF MICHIGAN.....	134	38	UNIVERSITY OF COLORADO, THE REGENTS OF....	63
14	KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS.....	127	38	UNIVERSITY OF NORTH CAROLINA.....	63
15	UNIVERSITY OF SOUTH FLORIDA.....	123	41	RUTGERS UNIVERSITY.....	61
16	NORTHWESTERN UNIVERSITY.....	122	42	FLORIDA INTERNATIONAL UNIVERSITY.....	60
17	UNIVERSITY OF PENNSYLVANIA.....	111	43	WASHINGTON UNIVERSITY.....	59
18	UNIVERSITY OF MINNESOTA, THE REGENTS OF...	110	43	YALE UNIVERSITY.....	59
19	COLUMBIA UNIVERSITY.....	107	45	KING SAUD UNIVERSITY.....	58
20	UNIVERSITY OF PITTSBURGH.....	106	46	JIANGNAN UNIVERSITY.....	57
21	CASE WESTERN RESERVE UNIVERSITY.....	105	46	UNIVERSITY OF BRITISH COLUMBIA.....	57
22	UNIVERSITY OF CHICAGO / UCHICAGO ARGONNE LLC.....	99	48	GEORGIA TECH RESEARCH CORP.....	56
23	UNIVERSITY OF WASHINGTON.....	91	48	SUNGKYUNKWAN UNIVERSITY RESEARCH & BUSINESS FOUNDATION.....	56
24	UNIVERSITY OF MARYLAND.....	88	50	PRINCETON UNIVERSITY.....	55
25	CORNELL UNIVERSITY.....	87			
26	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST).....	86			

Number of US Patents and Patent Applications Among Colleges and Schools at SBU (2022)

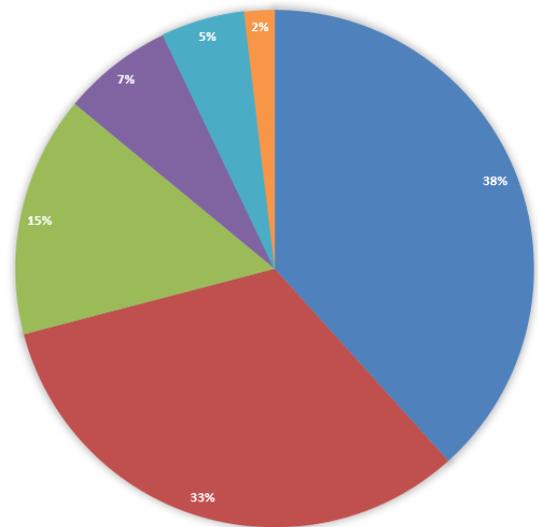


TOTAL US PATENTS ISSUED: 808

Total US Patents: 808

PIE CHART

- College of Engineering and Applied Sciences
- School of Medicine
- College of Arts and Sciences
- Collaboration Between Schools
- School of Dental Medicine
- Other



TOTAL US PATENTS FILED: 2,641

Total US Patent Applications: 2,641



Stony Brook University

We thank the following sponsors who contributed funds for this event



Stony Brook University Office of the Vice-President for Research

Stony Brook University School of Medicine

Stony Brook University School of Dental Medicine

Stony Brook Cancer Center

Stony Brook University Department of Pathology

Stony Brook University Department of Medicine

Stony Brook University Oral Biology and Pathology

Stony Brook University Department of Chemistry

Stony Brook University Office of Economic Development

Stony Brook University College of Engineering and Applied Sciences
