

Discoveries

Our commitment to both research and excellence has led to many ground-breaking discoveries.

- Identification and cataloging of 328 distant galaxies
- The link between smoking and emphysema
- Development of the drug ReoPro®, recommended for all cardiac angioplasties
- An ultrasound method to speed up healing of bone fractures
- Creation of the smallest electronic switch, using just one electron
- The cause of Lyme disease
- 3-D imaging software for 3-D colonoscopy
- The golden bamboo lemur, *Haplemur aureus*
- The most primitive fossil bird, linking birds to dinosaurs
- Construction of the first nuclear magnetic resonance image of a living organism
- *Homo floresiensis*, a hobbit-like 17,000 year-old hominid
- The “Giant Frog From Hell,” *Beelzebufo ampinga*, a 10-pound ancient frog in Madagascar
- Design and synthesis of a new class of weakened polioviruses, demonstrating that a synthetic weakened virus can immunize an animal
- Thermoplastic spray paint made from old plastic bottles
- Parthenogenesis (virgin birth) in a female hammerhead sharks
- The first commercially successful bar code reader
- A new species of mouse lemur *Microcebus mittermeieri*

Facilities

Stony Brook boasts modern state-of-the-art facilities for the campus community.

- The Charles B. Wang Center, celebrating Asian and American cultures, is a conference and events facility, a showcase for the arts, and a sophisticated global communications center allowing the worldwide exchange of ideas in real time.
- Our Kenneth P. LaValle Stadium, seating 8,300 fans, is home to Stony Brook’s Division I teams, including football, soccer, and lacrosse.
- Stony Brook University Medical center is the region’s only academic medical center, providing advanced, specialized health care to serve the needs of Long Island residents.
- Our 246-acre Research and Development Park is home to the Center of Excellence in Wireless and Information Technology (CEWIT), a test bed for emerging wireless technologies, and the Advanced Energy Research and Technology Center.
- All 26 residence halls, covering 1.5 million square feet and accommodating 6,000 undergraduates, were completely renovated—an \$80 million project unprecedented in American higher education.
- Completion of a new \$37.5 million 85,000 square foot Campus Recreation Center is expected by 2012. The CRC is designed to become a campus landmark with glass windows spanning much of the exterior. It will be visibly prominent and inviting, providing those on the outside with a view of the many diverse activities available within.
- Stony Brook Manhattan, at 401 Park Avenue South, is a state-of-the-art facility featuring classrooms for undergraduate and graduate classes, conference rooms, offices, a new Center for Wine, Food, and Culture, and a reception space for special events.

Research

The breadth of scholarly and creative activity engaged in by Stony Brook researchers not only generates new knowledge, but also infuses our undergraduate and graduate curricula and has a substantial impact on the region’s economy.

- Stony Brook faculty members have been responsible for more than 1,500 inventions and more than 450 patents.
- With 70 academic departments, Stony Brook is among the top 40 institutions funded by the National Science Foundation.
- Total expenditures on Organized Research, from external and internal sponsors, have reached \$210 million, reflecting activity in some 1,200 projects involving hundreds of investigators and providing jobs for 1,800 individuals.
- Stony Brook has been responsible for 95% of the licensing revenues that have won SUNY its top 20 national ranking in technology transfer, according to the Association of University Technology Managers.
- Stony Brook is one of only 94 institutions in the country to be designated a “Very High Research University” by the Carnegie Foundation.
- The University co-manages Brookhaven National Laboratory, joining such universities as Princeton, MIT, Cornell, University of California, and University of Chicago that run federal laboratories.
- New York Blue—one of the planet’s most powerful supercomputers—links Stony Brook’s New York Center for Computational Sciences with Brookhaven National Laboratory. New York Blue is capable of 102 trillion calculations per second.

Faculty

Stony Brook's distinguished faculty, celebrated for their exceptional scholarship and innovative thinking, continue to receive the highest recognition.

Honors, Prizes, and Awards

- Nobel Prize in Economics
- Nobel Prize in Physics
- Nobel Prize in Medicine
- Nobel Peace Prize
- Pulitzer Prize
- Crafoord Prize
- Ewald Prize in Crystallography
- Fields Medal in Mathematics
- National Medal of Science
- National Medal of Technology
- Benjamin Franklin Medal
- National Book Critics Circle Award
- Chevalier de l'Ordre National de Merit de la France
- Chevalier de l'Ordre National de Madagascar
- NASA Distinguished Service Medal

Fellowships and Academy Memberships

- 18 Members of the National Academy of Sciences
- 3 Members of the National Academy of Engineering
- 4 Fellows of the Royal Society
- 12 Members of the American Academy of Arts & Sciences
- 3 Members of the Institute of Medicine
- 71 Guggenheim Fellows
- 54 Fulbright Fellows
- 41 Sloan Foundation Fellows
- 11 Rockefeller Foundation Fellows
- 1 Member of the Johns Hopkins University Society of Scholars

Education

As a leading public university, we are proud of our exceptionally strong academic programs and policy of selectivity that bring the best students to Stony Brook.

- One of only 9 public institutions recognized for its undergraduate research program by *U.S. News & World Report*.
- The prestigious London *Times Higher Education World University Ranking* places Stony Brook University in the top 1% of universities worldwide.
- A member of the invitation only Association of American Universities (AAU). We are one of only 63 members, joining such institutions as Harvard, Yale, Johns Hopkins, Princeton, and Stanford.
- We are one of 16 Leadership Institutions named by the Association of American Colleges and Universities.
- Our Graduate School was awarded the CGS/Peterson's Award for Innovation in promoting an Inclusive Graduate Community.
- Our School of Medicine was named one of the nation's top 50 primary care training programs by *U.S. News and World Report*.
- Our School of Marine and Atmospheric Sciences was given top ranking in coastal oceanography, ranked eighth overall by the National Research Council for Ph.D. programs in oceanography.
- We are one of ten universities given a National Science Foundation recognition award for successful linking of research and education at all levels, and in creating a "discovery-rich environment" on campus.
- We are eighth among public institutions placing students in graduate programs in medicine, law, and business, according to a Wall Street Journal survey of undergraduate programs.

Schools & Colleges

Stony Brook offers more than 150 undergraduate programs, more than 100 master's programs, and more than 40 doctoral programs. The University is divided into 12 academic units:

- The College of Arts and Science offers degree programs in fine arts and humanities, biological and physical sciences, mathematics, and social and behavioral sciences.
- The School of Journalism is the first and only undergraduate school of journalism in New York State's public university system.
- The School of Marine and Atmospheric Sciences is one of the leading coastal oceanography institutions in the world.
- The College of Business offers a major in business management, an MBA programs, and an MS degree in Management and Policy.
- The College of Engineering and Applied Sciences offers a wide range of programs, including seven ABET-accredited majors.
- The School of Nursing offers full- and part-time educational opportunities in preparation for professional nursing practice.
- The School of Health Technology and Management offers baccalaureate, master's, and doctoral degrees in both clinical and non-clinical areas.
- The School of Social Welfare offers undergraduate and graduate degree programs in social work.
- The School of Medicine consists of eight basic science and 18 clinical departments providing preclinical and clinical education of medical students.
- School of Dental Medicine offers the Doctor of Dental Surgery degree.
- The Graduate School offers advanced degree programs in many fields leading to the master's and doctoral degrees.
- The School of Professional Development provides part-time graduate education for working adults.

- Christoph Carl H. Adami '91 PhD, Professor, California Institute of Technology; Recipient of the NASA Exceptional Achievement Medal
- Craig Allen '79, Chief Meteorologist, CBS "This Morning" & WCBS Newsradio 88
- Michael Anastasio PhD, Director of the Los Alamos National Laboratory
- Josephina Victoria "Joy" Behar, '66 MA, Co-host of the talk show The View
- Linda A. Capuano, Vice President, Emerging Technology, for Marathon Oil Corporation
- Wen-Ping Chen; '90, Professor, National Central University, Taiwan
- "Jack" Chuanjie Song, CIO, Agricultural Bank of China Shandong and Shandong provincial legislator
- Daniel Corbett '90 BS, Weather forecaster on the BBC News at Six
- Patricia S. Cowings '70, Director of Psychophysiological Research at NASA's Ames Research Center; the first American woman astronaut
- Barry Cozier, '71, former Associate Justice of the Appellate Division of the New York State Supreme Court
- Jane Delgado, '81 PhD, President/CEO of National Alliance for Hispanic Health
- Theodore G. Eppenstein '68, Lecturer on Arbitration, argued landmark McMahon case before the U.S. Supreme Court
- Diane Farr BA, Actress best known for role as FBI agent Megan Reeves in CBS series NUMB3RS.
- Jacqueline Fischer, '81, head of Naval Research Laboratory's Infrared-Submillimeter Astrophysics & Techniques Section in the Remote Sensing Division.
- Lee A. Fleisher, '86 MD, Professor and Chair of Anesthesiology and Critical Care and Professor of Medicine at the University of Pennsylvania School of Medicine
- Rear Admiral Steven K. Galson, '78, former Acting U.S. Surgeon General
- Robert Geary '68, Senior executive vice president of business affairs at Columbia TriStar Motion Picture Group

- David Hillel Gelernter '82 PhD, Professor of Computer Science at Yale University and author of *Drawing Life: Surviving the Unabomber*
- Richard Gelfond, '76, Co-Chairman and Co-CEO, IMAX Corporation
- Christine Goerke, '94 BA, Opera Singer, recipient of the 2001 Richard Tucker Award, 1999 & 2003 Grammy Award for Best Choral Performance
- Dario Gonzalez '79 MD, Medical Director of New York's Urban Search and Rescue Team - Task Force One - at "Ground Zero" for 9/11 World Trade Center Tragedy
- Kedar P. Gupta, '73, Founder of Advanced Renewable Energy Company, producing energy-efficient LED bulbs
- Gail S. Hackett, '85, MasterCard International Executive Vice President, General Manager, Citibank Global Team
- John Harris '78, Professor of Physics, Yale University, Spokesperson for STAR
- Julia R. Heiman, '75 PhD, American sexologist and psychologist; fifth Director of the Kinsey Institute for Research in Sex, Gender, and Reproduction at Indiana University
- John Hennessey '77 PhD, President, Stanford University
- Scott Higham '82, Investigative Journalist for The Washington Post and winner of the 2002 Pulitzer Prize
- David S. Joachim, '93 BA, Weekend Editor in the Washington Bureau of The New York Times.
- Stephen Kaplan, MA, Founder/Director of the Vampire Research Center and Parapsychology Institute of America
- Pery Kivolowitz, '81 BS, Won an Academy Award for Scientific & Technical Achievement in 1996 for invention of shape-driven warping and morphing
- Hyun-Soon Lee, '79 MS, '81 PhD, Vice Chair of the Research and Development Division, Hyundai Motor Company
- Hal Lieberman '75 BA, Former president of production for Universal Pictures

- Russell T. Lewis '69, Former CEO and President, The New York Times Company
- Lynn Matthews, '98, Astronomer, Haystack Observatory
- Matthew A. Moskowitz '95, Editor/Producer at CNN
- Joe Nathan, '97, Closer for Minnesota Twins Baseball Team
- Jon Oringer, '97 BS, Founder/CEO of Shutterstock; Pioneered the subscription-based microstock photography business model when he created Shutterstock in 2003
- Sandy Pearlman '66 BA, Music producer, manager, poet, and songwriter, best known for his work with the band Blue Oyster Cult
- Hanspeter Pfister, Professor, Harvard University; chief architect of VolumePro, Mitsubishi Electric's award-winning real-time volume rendering hardware for PCs.
- Terry Pinkard, '74 PhD, noted Hegel scholar and Professor of Philosophy at Georgetown University
- Carolyn Porco, '74, Leader of Imaging Team for the Cassini Mission to Saturn
- V. Ramanathan '73, Distinguished Professor of Atmospheric and Climate Sciences at the Scripps Institution of Oceanography
- Jef Raskin '64 BS, '65 BA, Author and Co-Creator of the Macintosh Computer at Apple Computer, Inc.
- John Reiner '78, Syndicated cartoonist, Laugh Parade, Howard Huges, The Lockhorns
- Stuart Rosenblum, '87 PhD, named a "Hero of Chemistry" by the ACS in 2004, for his role in the discovery of cholesterol-lowering drug Zetia as part of a Schering-Plough team
- Tamara Schnurr, '96 MD, former flight surgeon for the U.S. Navy Blue Angels
- Laura Schlessinger, BS, Nationally syndicated radio talk show host of the Dr. Laura show
- Abraham Silberschatz, PhD, Professor and Chair of the Computer Science Department at Yale University
- Dan Slepian, '93, NBC Dateline producer
- Scott Wolk, '96, Astrophysicist, Harvard-Smithsonian Center for Astrophysics

• Education, Arts, and Culture

Center for India Studies
Center for Italian Studies
Center for Lifelong Learning
Center for Teaching,
Center for Science, Math and Technology Education
Center for Wine, Food, and Culture
Charles B. Wang Center
Humanities Institute
Language Laboratory and Research Center
Latin American & Caribbean Studies Center
Poetry Center
Point of Woods Laboratory and Parenting Clinic
Pollock-Krasner House and Study Center
Reinvention Center
Staller Center for the Arts

• Social and Behavioral Sciences

Center for Global History
Center for Study of Working Class Life
Center for Survey Research
Turkana Basin Institute

• Physical Sciences, Mathematics and Engineering

Center for Thermal Spray Research
Garcia Center for Polymers at Engineered Interfaces
NYS Center for Advanced Technology in Sensor Systems
and Diagnostic Tools
C.N. Yang Institute for Theoretical Physics
Institute for Mathematical Sciences
Laser Teaching Center
Mass Spectrometer Facility
Mineral Physics Institute
Nuclear Theory Institute
Nuclear Structure Laboratory
Proteomics Center
Simons Center for Geometry and Physics

• Biomedical Sciences

ALS Comprehensive Care Center
Carol M. Baldwin Breast Care Center
Center for Medical Humanities, Compassionate Care, and
Bioethics
Center for Biotechnology
Centers for Molecular Medicine and Biology Learning Laboratories
Center for Developmental Genetics
Center for Infectious Diseases
Center for Structural Biology
Cerebrovascular and Stroke Center
Cody Center for Autism and Developmental Disabilities
Heart Center
Institute for Cell and Developmental Biology-Biochemistry
Institute for Medicine in Contemporary Society
Institute for Mental Health Research- Psychiatry
Institute of Chemical Biology and Drug Discovery
Long Island Cancer Center
Long Island State Veterans Home
Lyme Disease Center
Molecular Toxicology Center
Pediatric Multiple Sclerosis Center
Stony Brook University Medical Center
Trauma Center

• Environmental Sciences

Center for Environmental Molecular Science
Coastal Ocean Action Strategies Center
Institute for Terrestrial and Planetary Atmospheres
Institute for Ocean Conservation Science
Living Marine Resources Institute
Long Island Groundwater Research Institute
Marine Sciences Research Center (MSRC)
New York State Sea Grant Institute
Waste Reduction and Management Institute

• Technology and Business

Advanced Energy Research and Technology Center
Center for Emerging Technologies
Center of Excellence in Wireless and Information
Technology
New York Center for Computational Science
Small Business Development Center