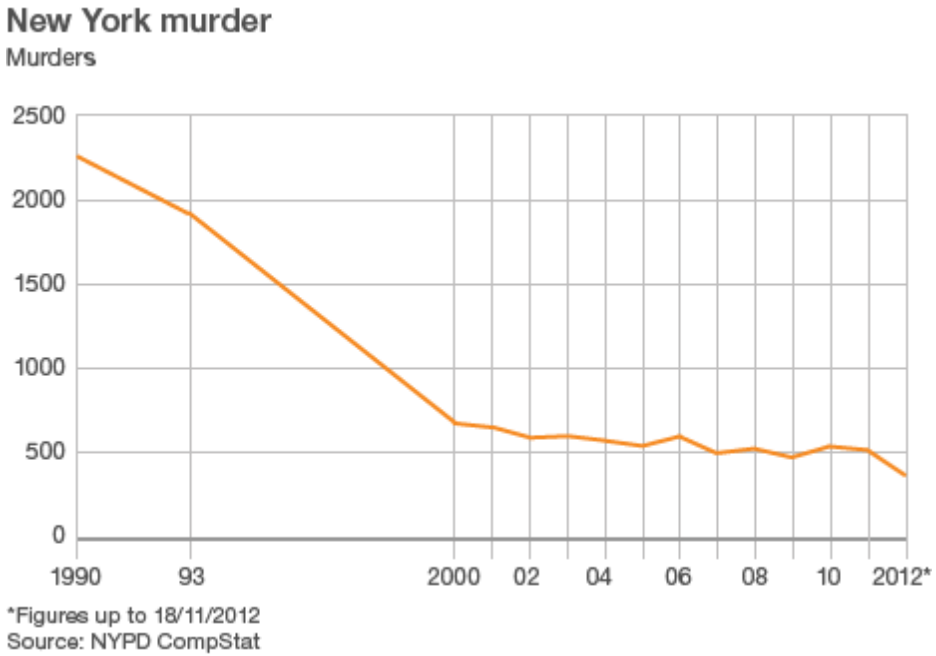
Memories From the SEAS Time Capsules

The Fourteenth Decade: 1995-2004

150
COLUMBIA | ENGINEERING
The Fu Foundation School of Engineering and Applied Science
1864–2014

New York Moments
The Fourteenth Decade: 1995-2004

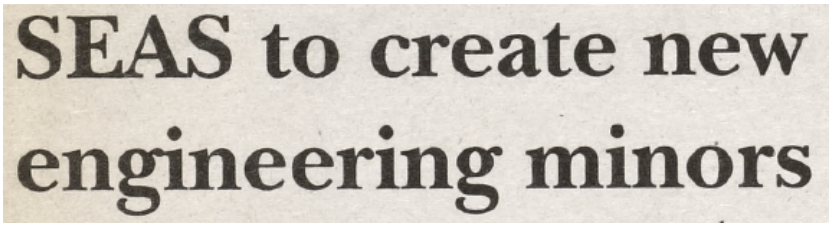


- The renaissance of New York City is in full swing.
- Business and tourism zoom as crime plummets.

The graph is from http://www.bbc.com/news/magazine-20536359

From the SEAS Time Capsules

The Fourteenth Decade: 1995-2004



- As reported in the March 29, 1995 *Spectator*, IEOR majors will be able to minor in economics.
- Minoring across disciplines expands beyond department-specific programs to the whole school. The April 17, 1996 *Spectator* reports that SEAS students majoring in one department will be able to minor in another SEAS department.

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Students travel the Information Superhighway

Administrators plan to increase public terminals

- Students gain increasing access to e-mail and the internet via public terminals and Rohm Data Phones in their rooms, as reported in the April 26, 1995 *Spectator*.

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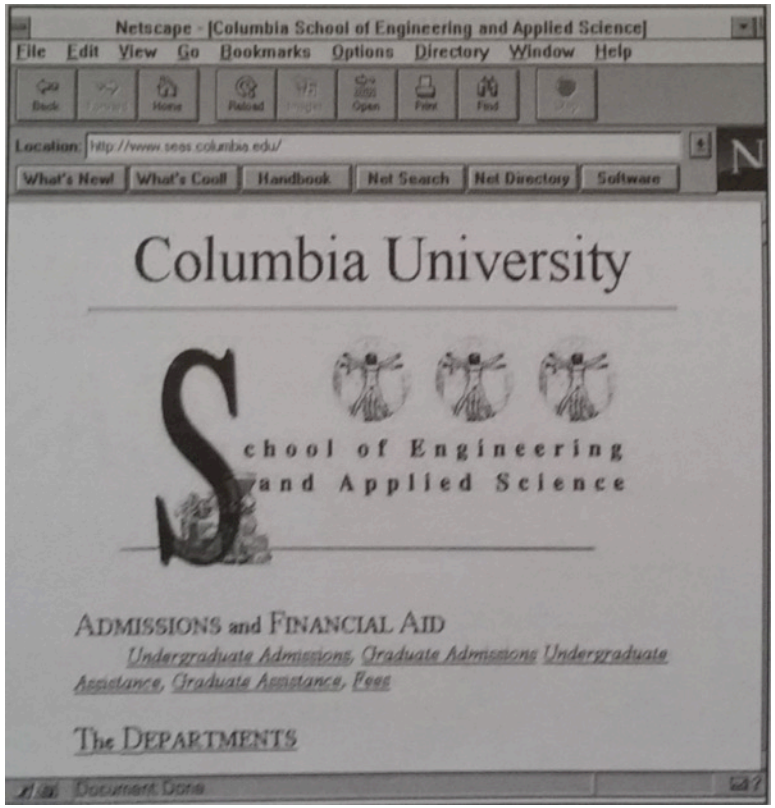

- Shown is an early example of the SEAS home page, from the Spring 1996 *Engineering News*.
- *Newsweek* magazine proclaimed 1995 as "The Year of the Internet."

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- 1996 – Students working with Prof. Christian Meyer on glasscrete, a decorative combination of concrete and recycled glass that can be used on buildings and other structures, as shown in the Fall 1996 *Engineering News*.

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Gateway laboratory dedicated to alumnus

By MEG BARTELT
Contributing Writer

The School of Engineering and Applied Science dedicated its Gateway Laboratory—a state-of-the-art multimedia computing facility—to engineering alumnus Edward Botwinick, at a ceremony held yesterday afternoon.

Botwinick, who received a BA in Physics from Columbia in '56 and a B.S. in Electrical Engineering in '58, contributed $1 million to the lab located on the 12th floor of the Mudd Engineering Building. Botwinick served on Columbia's Board of Trustees from 1988 to 94 and was instrumental in obtaining a $25 million grant from the National Science Foundation for Columbia. He founded Timeplex, Inc., a data communications firm in 1969 and he now invests in small high-technology firms.

Dean of the School of Engineering and Applied Science Zvi Galil praised the lab as "one of the jewels on Columbia's crown and certainly the jewel in Columbia Engineering."

University President George Rupp said the facility "is absolutely crucial for engineering education, especially for first year students," all of whom take a class in the lab.

Rupp emphasized that the lab is a resource for all students, noting that it has been used by art, math, physics, and engineering students. Rupp introduced Botwinick, thanking him for a facility that "will be indispensable as we prepare students to be engineers in then twenty-first century."

Botwinick emphasized his hope that the students would be the main beneficiaries of the facility.

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STAFF PHOTOGRAPHER—MARC SCHNEIDER

Dean of SEAS Zvi Galil examines the plaque for the Botwinick Gateway Laboratory, which was dedicated to alumnus Edward Botwinick yesterday.

- Above, the Oct. 10, 1996 *Spectator* reported on the dedication of the Botwinick Multimedia Learning Laboratory, used for the Gateway course.

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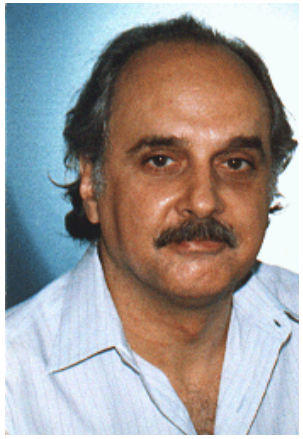

- Whereas SEAS undergraduates generally took courses exclusively in the College their first two years, only coming to SEAS to begin their majors in the junior year, this begins to change.
- The Gateway laboratory course in computerization and technology, introduced in Nov. 1994, is required of all first year students and as of Fall 1997 entering undergraduates are required to take at least one "preprofessional course" in their first two years.
  - Initially, seven "preprof" courses are offered.
  - Two of these courses were first introduced in 1996-1997:
    - *Introduction to Electrical Engineering*, by Prof. Tsividis (shown, upper).
    - *Physics of the Human Body*, by Prof. Herman (shown, lower, on the right).

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SEAS officially renamed

Fu honored for $26 million donation

STAFF PHOTOGRAPHER—MATT KING

Yesterday President George Rupp presented Z.Y. Fu with a plaque in honor of his $26 million donation to SEAS.

- SEAS is officially renamed "The Fu Foundation School of Engineering and Applied Science" in recognition of a generous gift from the Fu Foundation. This is celebrated on Oct. 22, 1997, as reported in the *Spectator* the following day.
- APAM Prof. C.K. (John) Chu and Dean Zvi Galil are instrumental in cultivating this donation.
- This gift is used to build up the School's efforts in computer science, applied mathematics, biomedical engineering, and electrical engineering.

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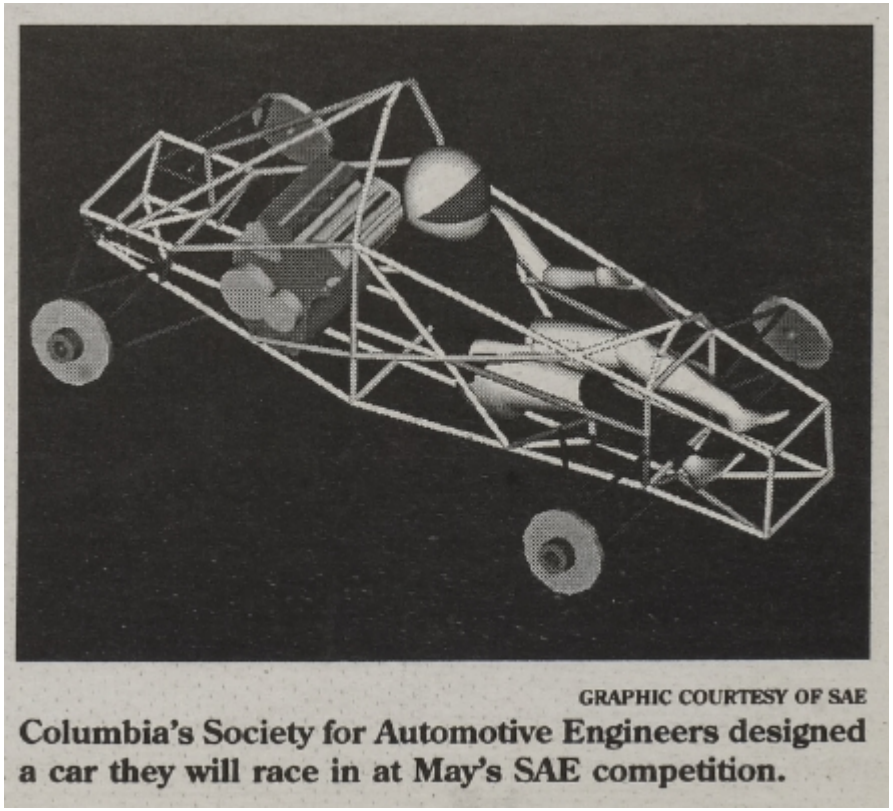
Engineers Design Race Car for Competition



GRAPHIC COURTESY OF SAE

Columbia's Society for Automotive Engineers designed a car they will race in at May's SAE competition.

- SEAS students' new Society for Automotive Engineers constructs a car to race against entries from 110 other colleges at a competition organized by the Formula Society for Automotive Engineers (SAE), as reported in the March 31, 1998 *Spectator*.
- This is expected to be an annual activity.

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- 1998 – Prof. Horst Stormer shares the Nobel Prize in Physics with two colleagues "for their discovery of a new form of quantum fluid with fractionally charged excitations."

From the SEAS Time Capsules
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- SEAS students enter Solar Splash, the world's first inter-collegiate solar/electric boat regatta, with entry "Bubbles" placing second overall, as reported in the Fall 1998 *Engineering News*.

From the SEAS Time Capsules

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- 1998 – The first of several major research centers in materials, nanoscience and energy, the Materials Research Science and Engineering Center (MRSEC) and the Environmental Science Institute (EMSI), open, followed in later years by the Nanoscale Science and Engineering Center (NSEC) and the Energy Frontier Research Center (EFRC).

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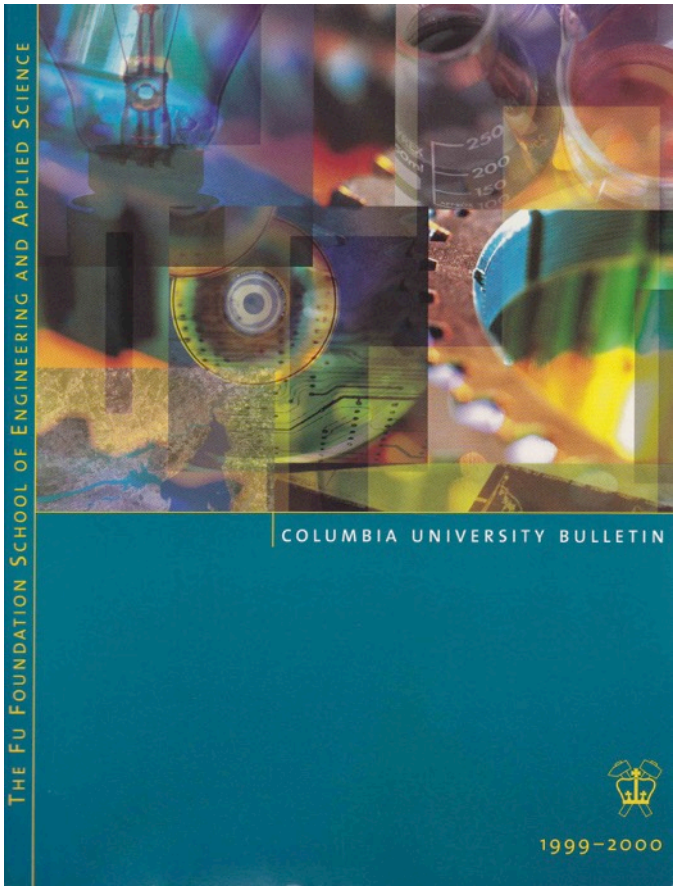

- 1999 – For the first time, the average SAT score of first-year undergraduates is higher in SEAS than in Columbia College.

New York Moments

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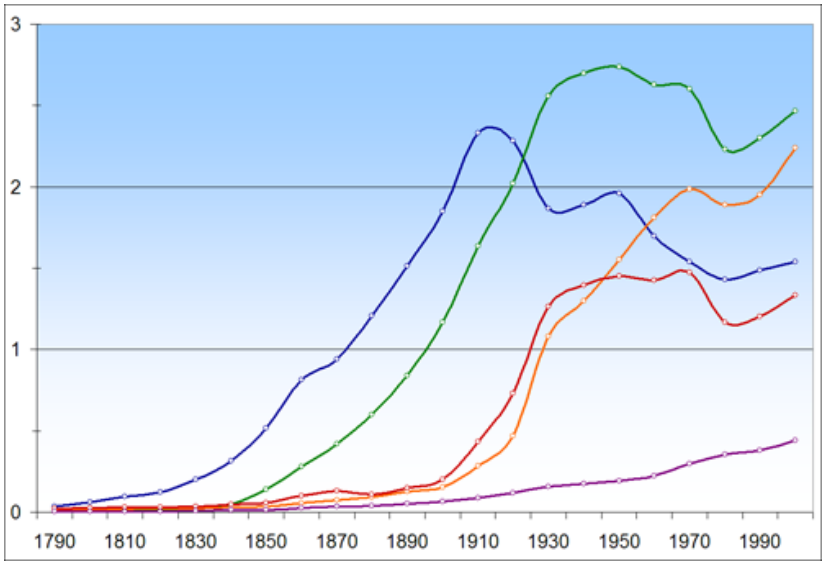

http://en.wikipedia.org/wiki/Brooklyn#mediaviewer/
File:New_York_City_Demographics_05_500px_Julius_Schorzman.png

- 2000 – After a decade of growth, the population of New York City reaches 8 million for the first time, a sign of the City's rebirth.
  - After reaching a peak of 7.89 million in 1950, the population of New York City declined to 7.07 million in 1980, signaling to many a declining quality of life in the City.
  - Growth continues after 2000, with the population reaching 8.41 million in 2013.
  - The population of the five boroughs is shown (in millions), with Brooklyn (green), Queens (orange), Manhattan (blue), the Bronx (red), and Staten Island (purple).

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- January 1, 2000 – The Department of Biomedical Engineering (BME) begins, assisted by a grant from the Whitaker Foundation, with Prof. Van C. Mow as founding chair.
- In 2004, the ASME establishes the annual Van C. Mow Medal to honor a person who earned their doctorate ten to twenty years earlier for contributions to bioengineering through research, education, professional development, leadership, mentorship, and service.

New York Moments

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- 2000 - The New York Yankees win their 101st* World Series championship, including their fourth in five years, as they defeat the New York Mets.
- This was the first "Subway Series" (intra-New York City World Series) since 1956, when the Yankees beat the Brooklyn Dodgers, as Don Larsen pitched the only perfect game in World Series history.

* In base 5; 26th in base 10.

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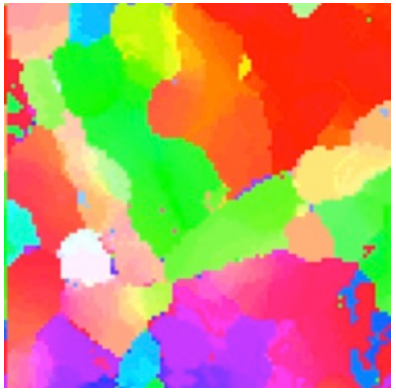

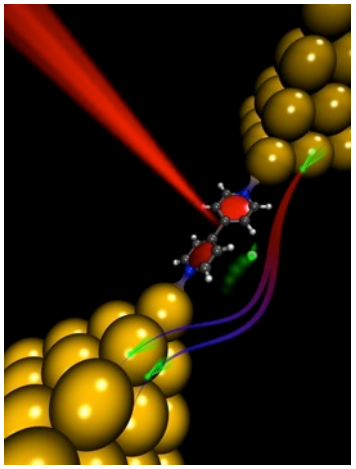

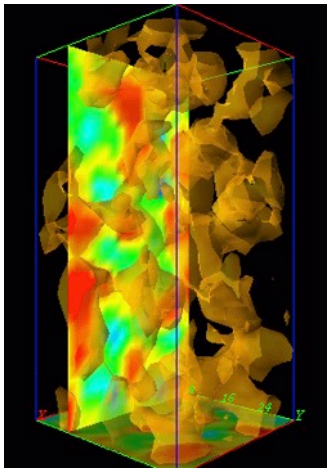

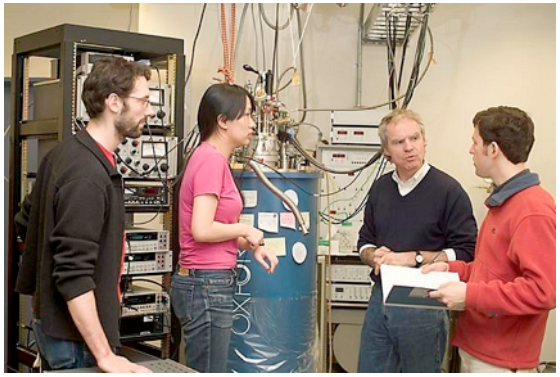

- 2000 – Dean Zvi Galil places the Materials Science and Engineering Program of the Henry Krumb School of Mines within the Department of Applied Physics and Applied Mathematics, thereby creating a department with interacting applied physics, applied mathematics, and materials science and engineering programs.

New York Moments
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- September 11, 2001 changes New York City and the world.

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- 2002 – Dr. Michael Massimino (ENG'84) (shown) took a Columbia Engineering School flag on his first space shuttle flight (STS-109).
- On his second (STS-125), in 2009, he took a gray Columbia Engineering T-shirt covered with the signatures of as many Engineering School students and faculty as could fit.
- Fellow astronaut Gregory H. Johnson MS'85 pilots the Space Shuttle Endeavour in 2008 and again in 2011, its last mission and the penultimate mission of NASA's Space Shuttle program.

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- 2003 – The Earth and Environmental Engineering (EEE) Department, the newest department in SEAS, is founded, with Prof. Nickolas Themelis as founding chair.
  - This is part of a reorganization of the Henry Krumb School of Mines, which is now composed of the EEE department and the materials science and engineering program in APAM.