Bruce Bukiet: Baseball fits neatly into a concept of probability theory known as a Markov Process

Mathematician Sees Subway Series A Distinct Possibility In 2007 in *Science Daily*

The Yankees and Red Sox should tie for baseball's best record with 98 wins, 2008, in *UPI Science*

Yogi Berra: It's tough to make predictions, especially about the future.
Recent progress

• Vision: A preeminent technological research university known for innovation, entrepreneurship, and engagement
  ➢ Quality of life
  ➢ Private funding
  ➢ Research funding/intellectual property management
  ➢ Developing nationally known programs
  ➢ Student recruitment
Recent progress

➢ Quality of life
   ✓ Upgraded facilities
   ✓ State-of-the-art Campus Center
Recent progress

➢ Quality of life
   ✓ Attractive Alumni Center

✓ Re-landscaped campus tying together building architecture
Recent progress

➢ Quality of life

✓ State-of-the-art private student housing

✓ Division I athletics
Recent progress

- Research funding/intellectual property management
  - Established well-functioning Office of Sponsored Programs
  - Established well-functioning Office of Technology Development
  - Revamped intellectual property policy regarding revenue sharing with inventor
  - Moved management of incubators from VP for Admin to VP for R&D
Recent progress

➢ Research funding/intellectual property management

✓ Moved management of incubators from VP for Admin to VP for R&D
Recent progress

- Research funding/intellectual property management
  - External research up 30% since FY04, first time over $45 million expenditure
  - Licenses up 175% since FY04
  - Participating in NSF ERC with Rutgers, Purdue, U PR
Recent progress

➢ Research funding/intellectual property management

✓ Completing construction of World’s largest solar telescope in the visible
Recent progress

- Private funding
  - ✓ Honors Campaign completed-goal exceeded
  - ✓ Athletics Campaign over 80% of goal
  - ✓ Alumni Relations integrated into University Advancement
  - ✓ Comprehensive Campaign efforts begun
  - ✓ Dollars raised increased 40% since FY04
Recent progress

- Developing nationally known programs
- Implemented rebranding/marketing program
Recent progress

➢ Developing nationally known programs
  ✓ Mathematics nationally recognized for fluid dynamics/mathematical biology
    • Ranked 10th in US by Academic Analytics
  ✓ Department of Biological Sciences established out of Department of Mathematical Sciences
  ✓ Architecture offerings and facilities expanded
  ✓ School of Architecture transforming to “College of Design”
  ✓ Ying Wu Chair in wireless communications established
Recent progress

- Student recruitment
  - Honors College enrollment increased from 500 to 600
  - UG Hispanic and African-American enrollment 30% of freshmen
  - First time students over 800
  - Freshmen retention rate over 80% (95% for Honors; 84% for EOP)
Major current efforts

- Completing Athletics Campaign
- Launching Comprehensive Campaign
- Pursuing Stem Cell Research Facility
- NJIT Campus Gateway Plan
- Campus Master Plan
- Implementing over 30 new academic programs in a three-year period
Major current efforts

- NJIT Campus Gateway Plan
NJIT Campus Gateway Plan Objectives

• Develop a “college town” neighborhood with amenities for students, faculty, staff, community
• Ensure a development effort that enhances NJIT and the community
• Grow the Greek community to levels above 1990 on a normalized basis
• Ensure viability of the Greek community

Members/Greek org
1990  2006
30    18

• Enhance the physical/social/recreational environment of the Greek community
Master Plan
Proposed Renovation:

1. The existing window bays which face the street will be extended down to grade to create a series of glass store-fronts.
2. In order to create a visually accessible and functionally viable sales floor, the slab of the current 1st floor will be lowered to grade.
3. To provide access to an existing courtyard, the street-side loading dock will be expanded to connect the center of the building to the street.

Business Incubator Proposal — Elevations
MLK Pedestrian “thread”
PRESIDENT’S MESSAGE
ROBERT A. ALTENKIRCH
NJIT prepares its graduates by promoting a culture of innovation and entrepreneurial thought in an urban setting. This culture is fostered through an integrated academic and research environment that emphasizes collaboration between the university and businesses, industries, and communities, thus preparing students to be leaders in their fields. This will ensure not only the success of NJIT’s graduates but also the continued growth and prosperity of the region.

MASTER PLANNING PRINCIPLES

The planning principles connect our strategic mission with our physical campus:

- Establish a distinct presence and character
- Define the edge of campus
- Create inviting approaches and powerful gateways
- Strengthen pedestrian connections to downtown and surrounding neighborhoods
- Enhance landscaping and design function within the campus as a whole

Create a strong central core:

- Increase the green spaces on campus, maintain and develop an integrated system of significant open space
- Clarify the connection between existing outdoor recreation areas
- Create powerful view corridors
- Realize potential to create a pedestrian sequence off of New Rd., from future University of NJIT, Box

Develop a
- Master plan
- Conceptual design
- Implementation
- Development

AERIAL RENDERING

NJIT’s campus master plan will guide growth in a way that establishes a network of open spaces, buildings, and pedestrian paths that connect the core campus to neighboring institutions and downtown Newark. This master plan establishes a strong visual identity for the campus, ensuring that the physical character of campus will be enhanced through improved design and function.

THE EDGE IN KNOWLEDGE
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New Jersey's Science & Technology University

The Edge in Knowledge
School of Architecture
BS/BArch Architecture
BS Industrial Design
MS/MArch Architecture
M Infrastructure Planning
PhD Urban Systems

Trans-
form

College of Design
School of Architecture
BS/BArch Architecture
MS/MArch Architecture
M Infrastructure Planning
PhD Urban Systems

School of Art & Design
BS Industrial Design
BS Interior Design
BS Digital Design
BS Graphic Design
BS Landscape Architecture
BFA Art

NJIT
New Jersey’s Science & Technology University
Major issues

- Shortfalls in state funding
- Rising tuition
NJIT Percent of Educational Costs FY94-FY08

- State Percentage
- Student Percentage

FY94 FY96 FY98 FY00 FY02 FY04 FY06 FY08

30% 35% 40% 45% 50% 55% 60% 65% 70%
Major current efforts

➢ Purchase of Central High building

“Sale and Purchase Agreement” signed first of April; implementation of terms in progress