AGENDA

• Call to Order – Steve Beer
• Announcements from Joe Burns (Dean of Faculty) - 3 minutes
• Approval of Minutes from 12 September 2012 Senate Meeting (Steve Beer) – 2 minutes
• Conversation with President David Skorton on Current Issues – 15 min
  – Q&A – 10 min
• Report from Dean Dan Huttenlocher on NYC Tech – 20 min
  – Q&A – 10 min
• Report from Committee on Academic Programs and Policies (CAPP) – (Thom Cleland, Chair of CAPP) – 25 minutes
  – Resolution to Approve a Master of Science Degree in Information Systems at Cornell NYC Tech as part of a Dual Degree Program with Technion
• General Good and Welfare – 5 min
Review Agenda

Introductions

Out-of-Ordinary Activities
  Faculty Lunch Flourishing
  MOOC Faculty Forum 9/24
  Committee of Faculty Formed

Next Steps?

Most Senate Committees Have Met
APPROVAL OF MINUTES FROM 12 SEPTEMBER 2012 MEETING
Q&A
CONVERSATION WITH DEAN DANIEL HUTTENLOCHER
OCTOBER 10, 2012
Q&A
Tech Campus Fall 2012 Update

Dan Huttenlocher
Dean and Vice Provost
Building a New Tech Culture

• Collaborative mix of academic leadership, commercial intent and societal good
• Infusing campus with entrepreneurial spirit
  – Tech companies and nonprofits on campus
• Matrix of interdisciplinary tech-oriented hubs and core technology fields
• Strong ties but also complementary to Ithaca
• Technion-Cornell Innovation Institute (TCII), a global partnership for a global city
Fueling the Information Economy

• Industrial age pipeline/funnel model of technology innovation breaking down
  – Research and product development in tech sector often parallel rather than sequential
  – New collaboration opportunities and imperatives

• Change in tech R&D towards deep customer engagement a great fit for NYC

• Cornell Tech focus on “information layer” of urban life and commerce
Academic Disciplines and Hubs

• Core tech sector disciplines: CS, IS, ECE, ORIE
  – One-year professional masters degrees
• Interdisciplinary hubs
  – Planned two-year dual MS degree with Technion
• All fused with business and entrepreneurship
  – Johnson School, courses and Accelerated MBA
  – Entrepreneurial Office, projects and practicums
• Enrollment driven by resident faculty size and student quality
Connective Media

Art and Design

Transportation
City and Regional Planning

Computer Science
Electrical Engineering
Information Science
Operations Research
Business/Entrepreneurship

Health Sciences
Human Ecology
Biomedical Engineering

Healthier Life

Mechanical Engineering
Advanced Materials
Statistics

Built Environment

Architecture
Civil and Environmental Engineering

Communications
Sociology
Psychology

NYC Tech
Academic Programs

• Hands-on apprenticeship style learning
  – Projects supervised by faculty and industry mentor
  – Practicum Fridays for real-world ties and skills
• All students study mix of tech and business
• Broadly interdisciplinary – faculty regularly teach in multiple disciplines and hubs
• Full masters degree programs, doctoral students spend initial year in Ithaca
  – Programs for juniors/seniors (no degrees)
Technion-Cornell Innovation Institute

• A 50-50 academic partnership with the Technion
  – Half of TCII faculty from each institution
  – Separate self-supporting finances

• Key part of the campus
  – Responsible for delivering interdisciplinary hub-based dual degree masters programs
    • Approval of faculty at both universities (fields at Cornell)
  – Collaborative research projects focused on hubs

• Follow Cornell policies as part of campus
Faculty

- Mix of tenure-track faculty, instructors and researchers
  - Academic excellence and broader tech impact
- Tenure-track faculty appointed in an existing department or school (tenure home)
  - Teaching and research at Cornell Tech, service to both, salary paid by Cornell Tech
- Majority of faculty teaching in a program are field members based in NYC
Academic Planning

• Grad fields and departments in core disciplines

• Faculty Planning Committee
  – Co-chaired by R. Manohar and D. Shmoys
  – Dual degree sub-committees of Cornell and Technion faculty
    • Cornell leads C. Cardie, S. Henderson, K. Pratt

• CAPP recommendations on academic structures

• Executive Committee of academic leadership
  – Co-chaired by Collins and Huttenlocher
Ithaca Campus Impact

• Separate self-supporting campus finances
• High visibility
  – Indications of positive impact on gifts to Ithaca campus and on enrollment yield
  – Opportunity to leverage for overall reputation
  – Increased opportunity for corporate ties
• Potential for broadening and growing faculty in range of departments/schools, particularly core
• Requires careful planning to build close ties and maintain complementary focus
High Degree of Public Interest

The New York Times
Cornell’s High-Tech Campus Will Have a Temporary Home at Google

The Seattle Times
New York is vying to become global high-tech hub

THE WALL STREET JOURNAL
In novel move, NYC campus gets US patent officer

Newsweek
Roosevelt Island: New York’s New Tech Hub

Forbes
Former Twitter CTO Throws Down with New York Tech Campus

THE CHRONICLE of Higher Education
Computer Scientist Leaves UCLA for the Fledgling CornellNYC Tech
Roosevelt Island Site
Unique Urban Location
Campus Planning Principles

• River-to-river experience
  – Develop views from center of site to both riverbanks
• Diverse collection of open spaces
• Close link between indoor and outdoor spaces
• North-south pedestrian spine
• Buildings optimized for use and performance
• Sustainable campus
  – Net-zero goal for first academic building
1 ACADEMIC
2 CORPORATE CO-LOCATION
3 RESIDENTIAL
4 EXECUTIVE EDUCATION CENTER
5 CENTRAL UTILITY BUILDING
6 EXISTING DEP PUMP STATION TO REMAIN
Draft Phase I Site Plan

1. ACADEMIC
2. CORPORATE CO-LOCATION
3. RESIDENTIAL
4. EXECUTIVE EDUCATION CENTER
5. CENTRAL UTILITY BUILDING

A. MEADOW
B. TREE NURSERY

Cornell University
Timeline

- S’13 Beta semester – CS MEng at 111 Eighth Av
- F’13 2 or 3 masters programs
- S’14 demolition and construction at RI campus
- F’17 move to RI campus (Phase I)
  - Multiple degrees, 300+ students, 40+ faculty
  - 200K sf academic space, 300-800K total space
- F’37 full build
  - Approx. 2000 students, 250 faculty
  - Approx. 2M sf total space, 1/3+ academic use
Proposal to establish a new Master of Science (MS) Degree in Information Systems (*Concentration in Connective Media*)

To be offered at CornellNYC Tech by the Cornell Graduate Fields of Computer Science and Information Science, as a dual degree with the Technion-Israel Institute of Technology.

*Five existing Cornell M.Eng. degree programs have been implemented in slightly modified form at CornellNYC Tech, as reported to the Senate in May 2012. The present proposal is the first dual degree designed for CornellNYC Tech.*
Physical location: Cornell NYC Tech Campus

- Cornell NYC Tech
- TCII
- Technion - IIT

MS Information Systems

MS degree program approved by NYS DOE
Review by the General Committee of the Graduate School:

• MS is an academic degree (as opposed to professional).
  *The two-year program duration, intensive combination of technical and nontechnical materials, and extensive project component reflect properties of academic degrees.*

• Master’s project content and written Research Project Report satisfy thesis requirements for the academic MS degree.

• Some existing MS programs in New York State are more professionally oriented than the CornellNYC program.

• The Technion’s complementary MS degree program already has been approved by NYS DOE.
The General Committee of the Graduate School and the Committee on Academic Programs and Policies (CAPP) both suggested and required revisions to the original proposal.

The General Committee unanimously approved the revised proposal for a MS degree in Information Systems at CornellNYC Tech on 25 September 2012.

The Committee on Academic Programs and Policies also approved the revised proposal without dissent on 2 October 2012.

CAPP recommends approval of the following Senate resolution:
Resolution to Approve a Master of Science Degree in Information Systems (Concentration in Connective Media) at Cornell NYC Tech, to be Offered by the Graduate Fields of Computer Science and Information Science as a dual degree with the Technion-Israel Institute of Technology.

WHEREAS, the General Committee of the Graduate School has reviewed and approved the proposal to create a new M.S. degree program in Information Systems (Concentration in Connective Media) at the Cornell NYC Tech campus as part of a dual-degree program with the Technion-Israel Institute of Technology;

WHEREAS, the Committee on Academic Programs and Policies has reviewed and recommends approval of the same proposal;

THEREFORE BE IT RESOLVED that the Faculty Senate approves the establishment of a new Master of Science degree program in Information Systems (Concentration in Connective Media) to be offered at Cornell NYC Tech by the Cornell graduate fields of Computer Science and Information Science, as a dual degree with Technion-Israel Institute of Technology.
GENERAL GOOD AND WELFARE