

Evolution of Engineering College Council October 2017

ECC: Historical Context

The Council: A Profile

- The Engineering College Council was created as an advisory board to the dean in the 1940s, during the administration of Solomon Cady Hollister. It was one of the first—perhaps the very first—of the college advisory councils at Cornell.
- For some years, the president of the university served as chairman of the council. Through 1948-49, this was Edmund Ezra Day. The acting president, Cornelius W. deKiewiet, served for two years, and then President Deane Malott was chairman through 1955-56.
- Since then, the membership of the council has included people from industry and academia, both alumni and non-alumni.
- The function of the council has been and is to advise the college administration on long-range planning and development in all aspects of the program, *notably instruction, research, and, increasingly, cooperative ventures with industry.*

Value of ECC: Dean's Perspective

- ECC provides counsel
- Strategic input
- Networking opportunities
- Time, talent, treasure



Experience on ECC: Chair and Vice Chair's Perspective

Task Force Structure: Function

- A task force structure provides an opportunity for ECC members to engage deeply on strategic areas of focus for College
- Unlike a standing committee structure, a task force is topic and deadline driven allowing for high level specificity in developing a strategy and action plan which will provide counsel and guidance to the Dean

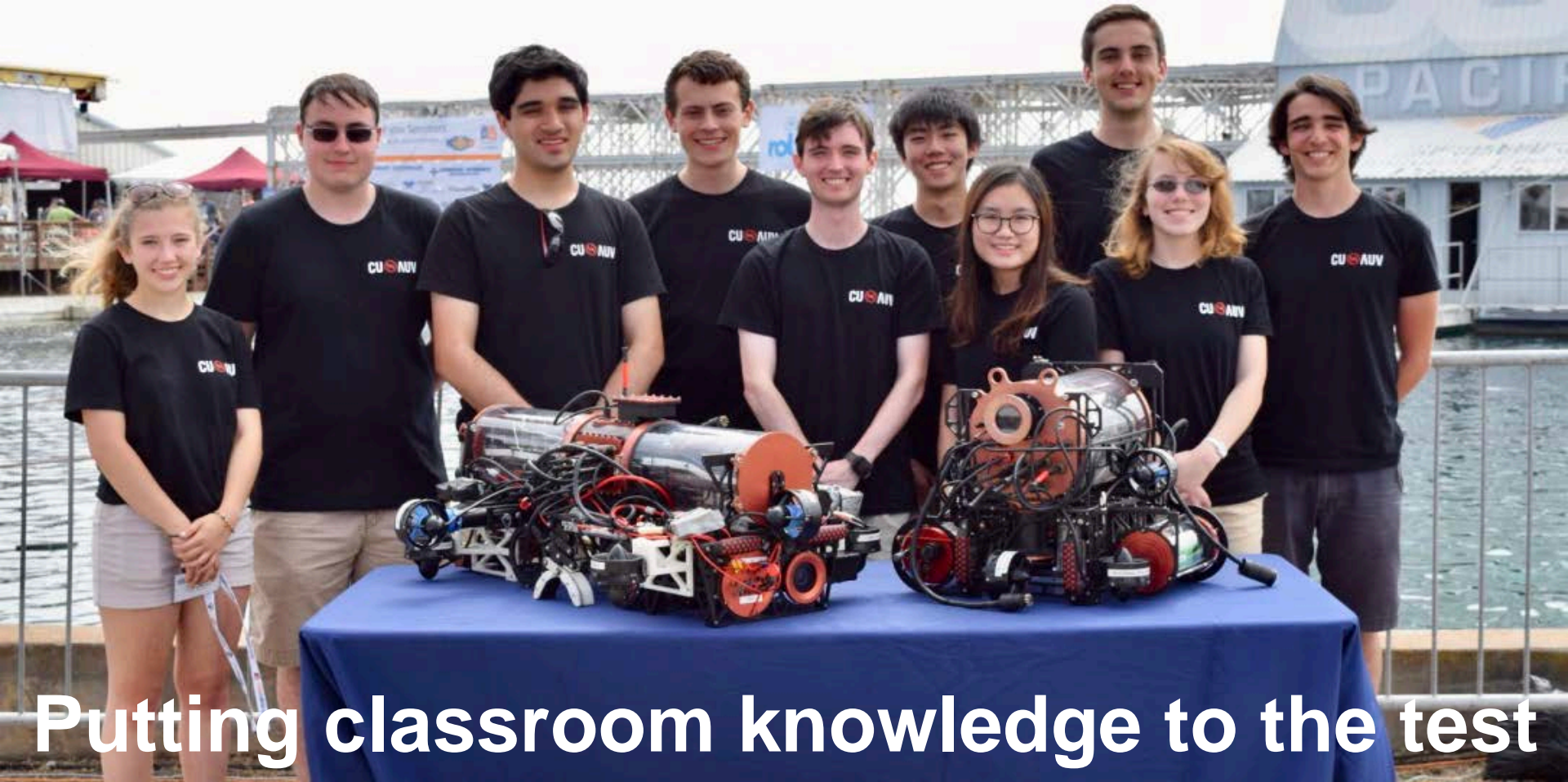
New Educational Paradigm

Charge: Provide strategic counsel to enhance, transform, and disrupt traditional approaches to educating undergraduate and graduate students.

- **What attributes do you seek in a new hire?**
- **And what programming in their background would impress you the most?**

Recent examples of programs include: Engineering Leadership Program, Commercialization Fellows, Kessler Fellows Program, eHub, Engineering Minor in Entrepreneurship, International Internship Program, Student Project Teams; McCormick Teaching Excellence Institute





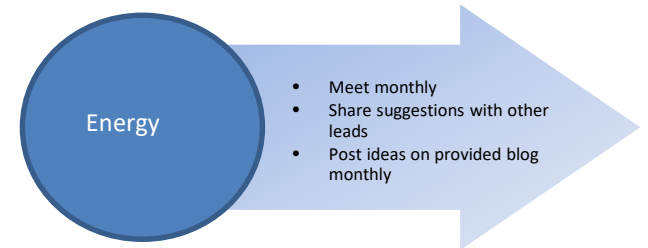
Putting classroom knowledge to the test

Energy and the Environment

Charge: Provide strategic counsel on research and education related to existing and emerging energy technologies, carbon sequestration, energy management, and the use of the campus as a “living laboratory”.

- Advice is particularly sought regarding the role of partnerships with industry, foundations, and the state.

Recent examples of programs and areas of focus include: Energy Institute; Earth Source Heat; Transportation; Atkinson Center for a Sustainable Future



Energy Institute

Hydrocarbon Extraction

Sequestering Carbon

Renewable Energy Sources

Distribution/Management

Energy Storage

ACSF

Environment

Energy

Economic Development



Living Laboratory

CornellEngineering

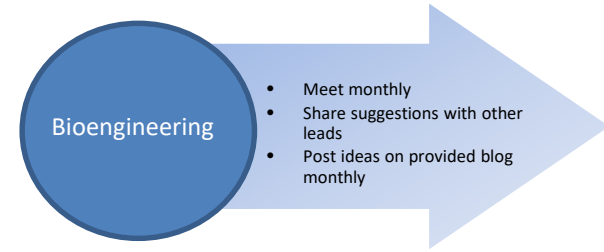


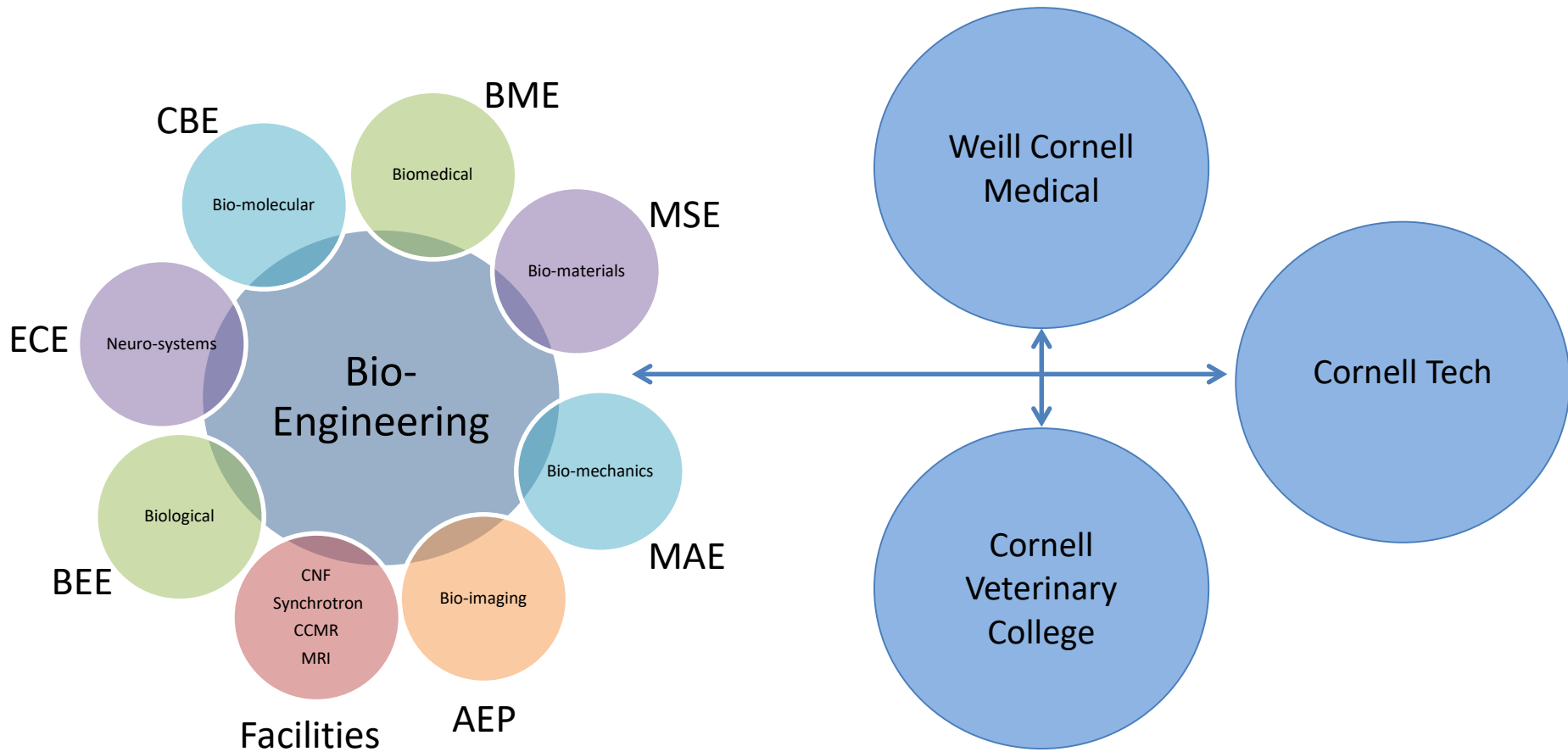
Bioengineering

Charge: Provide strategic counsel about enhancement of bioengineering research, teaching and interdisciplinary engagement across the College, and the University.

- **What is the aspirational objective for bioengineering at Cornell?**
- **How do we strengthen the connections among these different entities?**

Recent examples of programs and areas of focus could include curriculum development, industry partner outreach. Evaluation of ways to evolve partnerships with WCM, College of Veterinary Medicine, and Cornell Tech



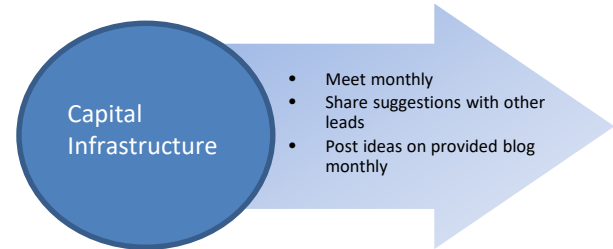


Capital Infrastructure

Charge: Provide counsel, insight, and offer feedback on strategic planning and marketing for major capital infrastructure renovation for the College of Engineering. Ultimate goal is to completely transform the Engineering educational, teaching and research experience at Cornell through reinventing physical spaces.

- **How do we engage our constituencies on our capital project needs?**

Recent examples of programs and areas of focus could include: Facilities Master Plan; Impact of infrastructure on faculty recruitment, improved undergraduate and graduate educational experience, co-location of interdisciplinary research and its impact on graduate student experience





Task Force Structure

Proposed Timeline for Implementation:

Topic breakout sessions followed by group discussion on the implementation of a task force actions during the Fall 2017 ECC meeting.



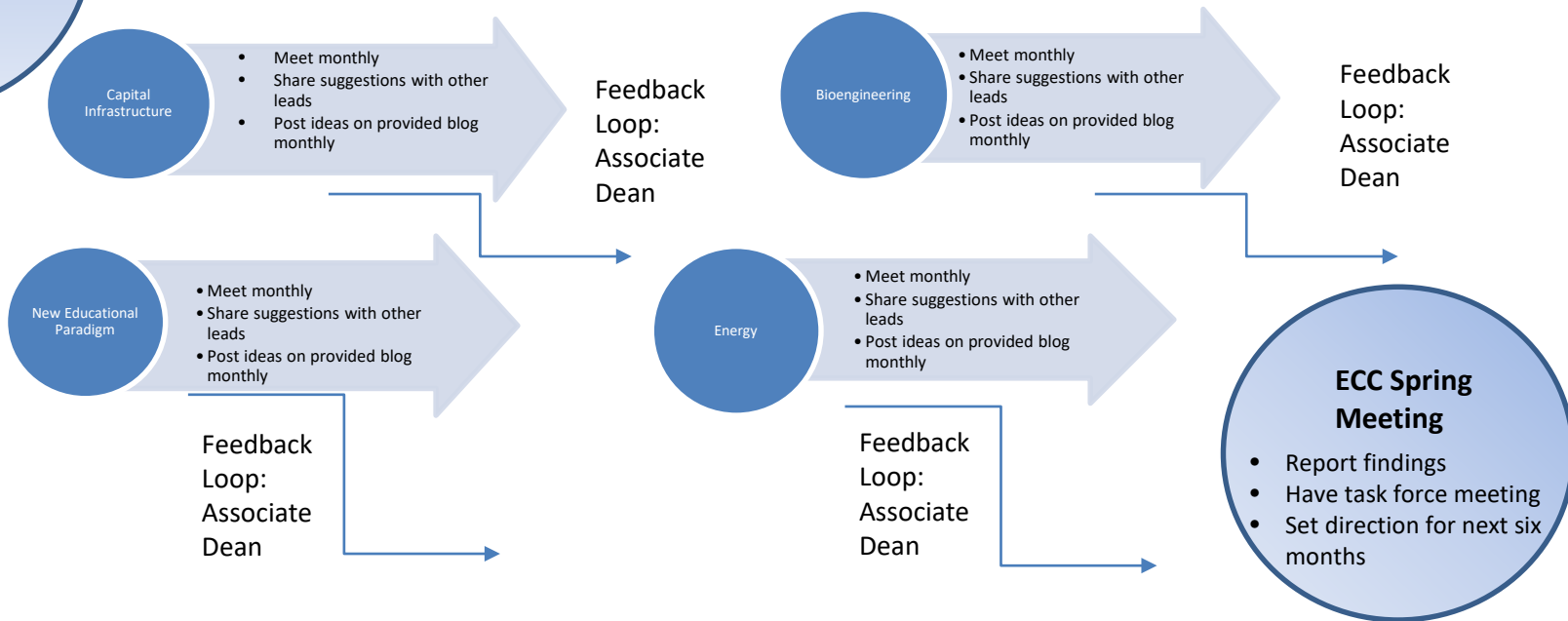
Expected Outcomes:

Goal to develop focused task forces to guide ECC conversations, and input to Dean Collins between formal meetings. Proposed actions for task forces should include a task force chair, monthly phone calls, interim reports to Associate Dean, and a formal report at the Spring 2018 meeting.

New Task Force Structure: Implementation

ECC Fall Meeting

- Report findings
- Have task force meeting
- Set direction for next six months



Task Force Implementation: Blogs for Task Forces

- Collaboration
- Formulate charge
- Strategy documents
- List Action Plans
- Brainstorm Ideas
- Formulate deadlines
- Measure success

<https://sites.coecis.cornell.edu/capital/>

The screenshot displays the Cornell Engineering website's 'Capital Infrastructure' section. At the top, the header reads 'CornellEngineering Engineering College Council' and 'Capital Infrastructure'. A navigation bar includes links for 'Home', 'Strategic Documents', 'Action Plans', 'Deadlines', and 'Success Measurements'. Two blog posts are visible:

- Brainstorming Blog:** A post by 'lg75' dated October 24, 2017, with 'No comments yet'. The content area contains placeholder text: 'df aski fjdsl jfsdl jfsdka jfsdka jfsk jfst, jastf jfasik flajsdk jikasj adfjk jaskurewqir ioej lkdsfj oifjfa . dfaspier wjl sfaj jlkajfd lq lk jfsad'.
- Discussion Blog:** A post by 'lg75' dated October 24, 2017, with '1 comment'. The content area contains placeholder text: 'fdejka jk asdfjk jkafsd jkfasd jkfasd lkjafs dlq faskq fask fask jfasik ajfsdkq fdsik sfadkjdds j'.

Evolution of ECC: Task Forces?

Questions to consider-

- Is this the right approach?
- Have you worked in this organizational structure on other boards?
- Share best practices
- Share potential challenges
- How will we measure success?
- Are these the right topics for task forces?

