# University of Toronto

Office of the Assistant Vice-President, Campus and Facilities Planning

**FOR INFORMATION:**

**TO**: Planning and Budget Committee

**SPONSOR:** Elizabeth Sisam, Assistant Vice-President Campus and Facilities Planning

**CONTACT INFORMATION**: 416-978-5515; avp.space@utoronto.ca

**DATE**: October 9, 2009 for October 28, 2009

**AGENDA ITEM**: 8

Project Planning Committee for the proposed Biozone: Bioengineering Research Facility for Energy, Environmental, and Economic Sustainability

**JURISDICTIONAL INFORMATION:**

Under the Policy on Capital Planning and Capital Projects, section 5.A. the membership and terms of reference of Project Committees shall be reported to the Planning and Budget Committee.

**BACKGROUND:**

The Biozone is an interdisciplinary research community based at the Department of Chemical Engineering and Applied Chemistry's Wallberg Building at the University of Toronto. With bioengineering as their common ground, University of Toronto researchers from Chemical Engineering and Applied Chemistry, Cell and Systems Biology, Geology, and Civil Engineering collaborate to produce findings that address the urgent challenges in sustainable energy and environmental protection.

Since its beginning in 2007 with a modest renovation assisted by funding from the Canadian Foundation for Innovation (CFI), Biozone users have produced a series of highly successful peer-reviewed studies focusing on: groundwater bioremediation, pulp and paper bioprocesses, development of bio-products, genome and metagenome sequencing and computational analyses, enzyme discovery and characterization, and technology transfer and policy.

The Biozone has recently received a grant from the CFI and Ontario Research Fund (ORF) to to expand its space and augment its equipment base.

The proposed project will create open-concept shared interdisciplinary research space and will also allow for the incorporation of the University's world-class protein production and characterization facility, the Structural Proteomics in Toronto (SPiT) group, currently located in Faculty of Medicine space in the Best Building.

**PROPOSED COMMITTEE MEMBERSHIP:**

Elizabeth Edwards (Co-Chair) Principal Investigator, Professor, Department of Chemical Engineering & Applied Chemistry, Faculty of Applied Science & Engineering
Doug Reeve Professor and Chair, Department of Chemical Engineering & Applied Chemistry,Faculty of Applied Science & Engineering
Tim Bender Professor, Department of Chemical Enginering & Applied Chemistry, Faculty of Applied Science & Engineering
Kathy Weishar Technical Services Coordinator, Department of Chemical Engineering & Applied Chemistry, Faculty of Applied Science & Engineerin
Steve Miszuk (Chair) Director, Planning and Infrastructure, Faculty of Applied Science & Engineering
Nikolaos Anesiadis Graduate Student, Department of Chemical Engineering & Applied Chemistry, Faculty of Applied Science & Engineering
Adrienne De Francesco Assistant Dean and Director, Office of Infrastructure Planning, Faculty of Arts and Science
Julian Binks Manager, Capital Projects Planning, Real Estate Operations
Bruce Dodds Director, Utilities & Building Operations, Facilities & Services
Angelika Duffy Biozone Lab Manager, Department of Chemical Engineering & Applied Chemistry, Faculty of Applied Science & Engineering
Alan Webb (Secretary) Planning Officer, Campus & Facilities Planning

**TERMS OF REFERENCE:**

1. Make recommendations for a detailed space program and functional layout to accommodate the proposed Biozone expansion.
2. Demonstrate that the proposed space program will take into account the Council of Ontario Universities' (COU) space standards and University's own best practice guidelines for research space.
3. Determine the secondary effects of the project, including any necessary space reallocation, and the impact on the delivery of academic programs and activities in the building during construction.
4. Review the capacity of existing site services and infrastructure at the Wallberg Building and determine the extent of upgrades, if required.
5. Identify all existing equipment and moveable furnishings to be relocated and reused, and new equipment and moveable furnishings necessary to the project and their related costs.
6. Identify all data and communications requirements and their related costs.
7. Identify a phasing plan and implementation plan for the project, if required.
8. Identify all security and occupational health and safety requirements and their related costs.
9. Determine a total project cost (TPC) estimate for the capital project, including costs associated with secondary effects.
10. Identify all sources of funding for the capital project and increased operating costs once the project is complete.

11. Report by January 2010.