Imagine Western: The Future of Our Campus

Professional Network Forum
February 3, 2012
Professional Network Forum

Table Introductions

Please state:

• your name and role

• one sustainability practice or initiative that you are aware of on campus
Imagine Western: The Future of Our Campus

Agenda

Welcome
Campus Master Plan 101
Dialogue
Sustainability at Western
Dialogue
Reflections and Next Steps
Imagine Western:
The Future of Our Campus

Table Dialogue

1) What is one thing you learned from Mike’s presentation?

2) What is one question you have, or one suggestion you would offer?
Campus Master Plan 101

The Campus Master Plan Update

Mike McLean, Architect, LEED AP
Manager, Planning, Design and Project Administration, Facilities Management
The Campus Master Plan

What is it?

A Campus Master Plan is a vision for the future development that ensures that the physical environment, both built and natural, serves the needs of the University community, enables the institution to realize its goals, and provides an effective place to work and study.
Visions from the Past…

Figure 5: 1968 Master Plan
The Campus of the 1930’s
A Vision for the Future…
...the Reality of the 1980’s

Aerial View 1985
The 2007 Campus Master Plan
2007 Master Planning Principles

- Respond to changes in academic mission and technology innovations
- Preserve existing natural features and maintain & enhance landscaped open spaces
- Provide direction for University growth and change (sustainability)
- Preserve and enhance architectural integrity
- Preserve academic interaction while decompressing the campus (supporting interdisciplinarity and creating communal space)
- Enhance University/City relationships
2007 Space Planning Principles

• Future growth – flat undergraduate, increasing graduate student population and research space

• Central space to support and enhance the student experience

• Assess space needs to target programs/areas with the greatest need (support interdisciplinarity)

• Enhance interaction and collaboration among students, faculty and staff (create communal space)
Interdisciplinarity and Common Space

Recommendations for Provision of Common Space - 2007
• Common space should be incorporated into new academic buildings and into significantly renovated academic space

Recommendations for Future Classrooms – 2009
• Classrooms appropriate for undergraduates and graduate students should be created in the centre of campus
Academics at the Core

Materials Science Addition - Classroom

Materials Science Addition – Common Space
Academics at the Core

UCC Classrooms (former pool)

UCC Common Space (former Gym)

UCC Common Space (former Gym)
Academics at the Core

Stevenson Hall
Academics at the Core

Lawson Hall
Academics at the Core
Academics at the Core
Academics at the Core
Master Plan Update – Why Now?

- To ensure that planning for the campus is tied to the academic priorities of the university.

- Change in strategic directions:
  - Increased undergraduate enrolment
  - Internationalization
Master Plan Update – Why Now?
Master Plan Update – Why Now?

- Expansion to other areas
Master Plan Update – Why Now?

The New
Richard Ivey School of Business
Master Plan Update – Why Now?
Master Plan Update – Why Now?

Advanced Manufacturing Park
Master Plan Update – Why Now?

- Incorporate recent studies
- Overall parking/transportation strategy
- Overall landscape/open space strategy
- Environmental Stewardship
The Process

- Request for Proposals: January, 2012
- Creation of a campus planning reference group who will provide the necessary commentary and direction
- Communication and updates throughout the process
- Timeline: through Fall, 2012
The Campus Master Plan Update
Professional Network Forum

Sustainability
President’s Advisory Committee on Environment and Sustainability (PACES)

- co-chairs: VP Academic and VP Resources & Operations
- established with adoption of Environment and Sustainability Policy, June 2010
- 15-members - spans Western community (including graduate and undergraduate students)
President’s Advisory Committee on Environment and Sustainability (PACES)

Mandate:

• establish specific goals for sustainability

• develop communication tools

• advise on policy

• report annually to the University Community

• June 2012 - a Sustainability Vision, with associated Goals and Objectives
Imagine 2022 – Project Overview

- Western Community Consultations
  - e.g. Focus groups, Interviews, World Cafes

- Development of Western’s Sustainability Vision and Action plan
Sustainability at Western

Presenter:

Beverley Ayeni, BESc and MBA
Energy and Environment Manager, Facilities Management
Sustainability at Western

Overview:

• Sustainability at other Universities
• Sustainability at Western
• Local Western Initiatives
Other Universities

• **Energy Conservation**
  – Eastern Kentucky – 50% reduction in energy use since 2005

• **Campus Sustainability Action Funds**
  – Queen’s, Concordia, UBC & McGill - Funded by donors, energy savings etc.

• **Transportation**
  – ETH Zurich – financial incentives for car-pooling and public transit for employees and students
Western Today

- Annual utility bill: $22.5 million
- 8 million ft² +
- 87+ buildings
- 16kms of roadway
- 15kms of sidewalks
- 1187 acres of land
- 2,000 spots for bike parking
- 6,300 parking spaces in 30 lots
Western Initiatives:
Electricity Dashboard

Wind Tunnel
- 3.57%
- Wind Tunnel has saved 40.3 kWh so far today
- Current Usage: 107.3 kW
- Wind Tunnel has consumed 1,090 kWh so far today

Collip
- 3.52%
- Collip has saved 10.8 kWh so far today
- Current Usage: 32.3 kW
- Collip has consumed 295 kWh so far today

Biotron
- 2.94%
- Biotron has saved 142.5 kWh so far today
- Current Usage: 435.6 kW
- Biotron has consumed 4,742 kWh so far today

Essex Hall
- 2.62%
- Essex Hall has saved 63.9 kWh so far today
- Current Usage: 250.9 kW
- Essex Hall has consumed 2,372 kWh so far today

Support Services
- 2.52%
- Support Services has saved 161.2 kWh so far today
- Current Usage: 619.7 kW
- Support Services has consumed 6,229 kWh so far today
Western Initiatives: Electricity Dashboard

Wind Tunnel
107.5 kW

39.7 kWh below target

.Select Node: Wind Tunnel
.Select Benchmark: Last Year

Total Consumption Budget (kWh)

[Graph showing electricity consumption with actual and target lines, indicating a 39.7 kWh below target.]
Western Initiatives: Electricity

- Last 5 years – replaced T12 lights with 50,000 more-efficient T8 lights (approx. 30% more efficient)
- Lighting control systems installed in UCC have saved 41,226kWh and $4,122

*You can save up to 15% just by turning off lights in rooms and corridors that aren’t being used*
Western Initiatives: LEED

• Leadership in Energy and Environmental Design

• Rating system for the design, construction and operation of high performance green buildings

• Ensures sustainable building design including: energy and water efficiency measures, natural material selection, and air quality

• Western has mandated that it will achieve silver certification or greater for renovations and new building projects
Western Initiatives: LEED

1 LEED GOLD certified building: The Claudette MacKay-Lassonde Pavilion (CMLP)

6 buildings registered for LEED certification:
- McIntosh Gallery
- Stevenson Hall/Lawson Hall
- Richard IVEY School of Business
- Physics and Astronomy Building
- Medical Education Centre
- New Residence
- Sign up for a tour!! www.uwo.ca/fm/greentours
Western Initiatives: Water

• Installed more efficient shower heads and faucets in residences and recreation centre saving:
  – 45,522 m³ of water and $66,000 annually
  – 140,853 m³ of natural gas and $59,000 annually

• Installing water filling stations on campus:
  – 55 installed to date; 9 residences summer 2012
  – Touchless, and quick-fill
  – Provides filtered water
Western Initiatives: Recycling

Western produces approx. 2,000 tonnes of garbage annually:
- 15% are coffee cups
  - Use a reusable mug
- 20% are items that are recyclable (paper, bottles, cans)
  - Think before you throw it away
  - Be diligent
Western Initiatives: Recycling

- 240 tonnes of organics are collected annually
- Battery collection program
  - 1000kgs diverted in 2010
  - Battery bins located on every floor in every building
- Ink Jet Recycling
- Outdoor Recycling Bins (Summer 2012)
Western Initiative

- Sustainability in Hospitality Services

Ruth Harland
Manager, Conference Services
Hospitality Services
Western Initiative

• Zero-Waste Building at Westminster Hall

Brandon Watson
Communications Officer
Facilities Management
Western’s Green Awards

Applications for 2012 are now being accepted

More information?
www.uwo.ca/fm
greenawards@uwo.ca
Imagine Western: The Future of Our Campus

Reflections and Next Steps
Thank you to our presenters!

– Gitta Kulczycki
– Mike McLean
– Beverley Ayeni
Next Professional Network Forum…

• Stay tuned for Spring and Fall Dates!
February 22nd & 23rd, 2012

Registration Now Open!

www.uwo.ca/humanresources/conference
The Western Awards of Excellence

Thurs. Feb. 16\textsuperscript{th}, 2012
2:30pm, Great Hall

Reception to follow ceremony

Registration and details will be available at:

http://www.uwo.ca/pvp/recognition/
6th Annual Faculty of Health Sciences Distinguished Lecture

Topic: Mental Health
Speaker: Margaret Trudeau

Thursday, March 29, 5:00 - 6:00 p.m.
Alumni Hall

All welcome – please spread the word!