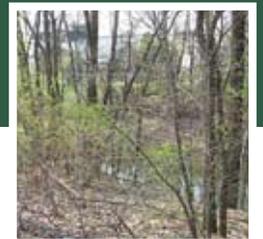
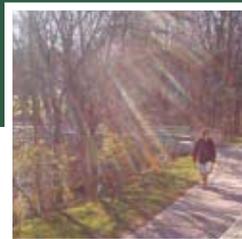




THE PRESIDENT'S COMMISSION ON THE RIVER

The River Runs Through It

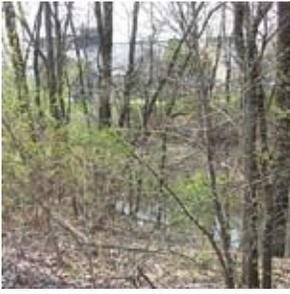


Report to the President
December 15, 2006



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The River Runs Through It...

Report to the President



Introduction and Executive Summary

The University of Toledo is an institution with many great strengths that can offer a world of opportunities to a prospective student. There are a number of pockets of excellence throughout the campuses, however, there are two words that leap to the top when students, faculty, staff, political leaders, community members or any other constituent group describe The University of Toledo:

Beautiful Campus.

The beauty of the Main Campus is perhaps the most important and reliable recruiting tool available to UT. In fact, the national award-winning Centennial Mall is among the most scenic locations on any metropolitan campus in the country and certainly in northwest Ohio.

While there is much to celebrate in terms of the aesthetics of the campus, there is significant opportunity flowing across the campus that has not been able to achieve its full potential:

The Ottawa River.

This report, submitted to President Lloyd Jacobs on December 15, 2006, represents a significant undertaking designed to change that fact.

As President Emeritus Dan Johnson wrote in his initial charge to the Commission on the River:

The Ottawa River that flows through The University of Toledo's Main Campus constitutes one of the most potentially attractive features any institution of higher education could have.

A primary goal of the Commission was to engage faculty, students, staff and community members in the planning efforts and to solicit ideas and proposals from those stakeholders for maximizing the beauty, leisure-time use, scientific exploration and environmental features of the river. The membership of the Commission reflected those important stakeholder cohorts.

The Commission began its work in March 2005, creating three work teams and holding monthly meetings. As part of its work effort, the Commission reached out to stakeholders through a planning charette conducted in April 2006. A local architectural firm that had conducted a previous study of the river in 1982, The Collaborative, was engaged to assist the Commission with the charette and subsequent design concepts. The primary result of the charette was the creation of three design concepts that incorporated ideas from the charette participants and from the on-going work of the Commission's three work teams. The ultimate goal was to develop a single concept design that would include important elements of each of the three initial designs and achieved the impact the Commission desired.

Beginning in September 2006, the Commission began to focus its work on the single concept and continued to reach out to stakeholders by conducting a series of classroom-based student focus groups in September and a campus-community forum in October. The Commission was especially

pleased with the results of the student focus groups, with written responses from more than 400 students in nine different classroom settings. Student input exceeded our expectations and weighed heavily on the final recommendations and concept that is presented in this report.

The Commission is recommending the administration move forward and create the “UT Meadow/Boardwalk” concept. The major elements of this plan include:

- Lowering the existing dike between the bridge adjacent to the Law College and the Stadium Drive Bridge (near Snyder Memorial and the Health and Human Services buildings) creating a meadows-like area extending between these bridges to the east and west and south from the river toward the Academic House;
- Developing a series of boardwalks that would cross through the meadows as well as strategic gathering areas located at key pedestrian crossing points;
- Establishing a River View Plaza on the north side of the river that would extend from the southwest corner of Carlson Library, the area between Carlson and the Student Union and to the eastern corner of the Student Union;
- Establishing a nature preserve incorporating a series of rain gardens (bio-swales) that trap and transform storm water runoff;
- Removing invasive plants and trees and selective thinning of trees to enhance view of the river;
- Stabilizing the banks of the river where needed;
- Developing riffles and other stream habitat restoration practices downstream of the bridges;
- Removing a small portion of the north side of Lot 10 to create open space adjacent to the river;
- Establishing a River Demonstration Display west of the Stadium View Drive bridge;
- Developing a nature walk garden adjacent to the proposed ARS building and new river paths/walkways along the river connecting to the proposed Rails to Trails bikeway, and;
- Developing opportunities for the Savage Hall renovation project to engage the river.

The Commission on the River truly believes that the development of the UT Meadows/Boardwalk concept would parallel in importance to what the development of Centennial Mall in 1980 achieved for the main campus, especially as it relates to the overall beauty of the campus and increasing the campus' attractiveness to current and prospective students.

The plan is student-centered and provides for scientific exploration and environmental opportunities for our faculty and students. It will not only maximize the beauty of the river but will increase the beautification of the campus itself.

The time has come to celebrate the river.



Charge to the Commission —

The Ottawa River that flows through The University of Toledo's campus constitutes one of the most potentially attractive features any institution of higher education could have. One of the major principles of the University's Master Planning Process is to "celebrate the river." Within the framework of the master planning process, the commission formed three Task Force Teams to implement the charge.

Team One – Communications, Records, Outreach and Engagement

- Engage faculty, students, staff, community members and organizations, including those involved in river restoration projects in the commission's planning efforts;
- Develop opportunities and maintain media relationships (host open meetings, establish a Web site, etc.) to keep the campus community and stakeholders informed of the work of the commission, and devise opportunities for these constituencies to comment upon and provide recommendations during the development of the action plan.
- Working with the chair, maintain good records and preserve significant documents that will provide a reliable record of the deliberations of the commission (meeting minutes, Web site, listserv, archives, etc.).

Team Two – River Habitat Restoration, Development and Beautification

- Solicit ideas, suggestions and proposals from our stakeholders (e.g.— conduct a charette) for maximizing the beauty, leisure-time use, scientific exploration and environmental features of the river.
- Review previous Ottawa River reports, studies and recommendations and review other river and waterfront projects across the nation, with a special focus on college campus projects, and bring forward creative ideas from these efforts for consideration, as well as confer with professional consultants as deemed appropriate.

Team Three – Development and Grant Funding Opportunities

- Sponsor individual student, faculty and class projects designed to help us achieve our objectives for the planning and development of an action plan for the river.
- Develop and convey to the president an action plan that integrates the river into the University's learning, discovery and engagement mission.
- Research and identify potential funding sources from federal, state and local grants, foundations, private contributions and other sources.
- Gain an understanding of the regulatory issues, maintenance and health issues that may affect the enhancement and use of the river.

Commission Leadership (Chair and Co-Chairs)

The chair and co-chairs constitute the commission's steering committee.

Steering Committee:

Chair

Dick Eastop, vice president of Enrollment Services Emeritus, UT

Co-Chairs

Dr. Hans Gottgens, professor, Environmental Sciences, UT

Dr. Patrick Lawrence, assoc. professor, Geography, UT

Dr. Steven LeBlanc, chair, University Beautification Committee; Associate Dean for Academic Affairs, Engineering, UT

Tobin Klinger, director, University Communications, UT

Task Force Team Leaders:

Tobin Klinger – Communications, Records, Outreach and Engagement

Hans Gottgens – River Habitat Restoration, Development and Beautification

Patrick Lawrence – Development and Grant Funding Opportunities

Committee Membership:

Michael Cassidy, president, Cassidy Consulting

Kristin Cavanagh, undergraduate student, UT

Todd Crail, graduate student, UT

Kurt Erichsen, president of Environmental Planning, TMACOG

Rick Francis, director, Research Information Systems, UT

Dennis Garvin, director, City of Toledo Parks, Recreation and Forestry

Dr. Dan Johnson, president emeritus, UT

Brenda Leady, coordinator, Biological Sciences, UT

Chuck Lehnert, AVP, Facilities and Construction, UT

Joel Lipman, professor, Art and English, UT

Steve Martin, associate professor, Pharmacy, UT

Richard Meyers, landscape architect, The Collaborative (Retired)

Linda Smith, University Honors Program, UT

Jim Spengler, executive director, Toledo Area MetroParks

Carol Stepien, professor and director, Lake Erie Research Center, UT

Marcia Suter, assistant. dean, University Libraries, UT

Marc Thompson, village manager, Ottawa Hills

Nick Wittenberg, undergraduate student, UT

Harry Wyatt, former associate VP, Facilities Management, UT



Ottawa River – Overview

The Ottawa River is 45 miles long with a drainage basin of 221 square miles; 147 of which are in Ohio. Its average gradient is 4 feet per mile. The river begins in northeastern Fulton County, where it is known as Ten Mile Creek, and flows east through Lucas County. It crosses through a portion of the Oak Openings region where it is joined by North Ten Mile Creek. The Ottawa continues to flow through Lucas County until it enters Maumee Bay and western Lake Erie. The soils of the watershed vary from level to gently sloping loamy and clayey soils on lake plains to level to gently sloping sandy soils on old beach ridges.

The upstream Ten Mile Creek reach, from the headwaters to the City of Sylvania, has a fairly stable channel. The banks are low (15 to 25 feet) with indistinct valleys and floodplains. The headwaters of the North Branch of Ten Mile Creek also flow through flat terrain with indistinct floodplains. Both headwater areas are primarily in agricultural land use. In addition to agriculture, there is residential land use within this reach of the river, including the City of Sylvania. The gradient here is some 4.3 feet drop per mile. Prairie Ditch, a major tributary to Ten Mile Creek in this reach, flows through Secor Metropark. The Ottawa River then continues through the Camp Miakonda Boy Scout Reservation (where a dam was removed in 2003), Wildwood Metropark, and the Village of Ottawa Hills. The River meanders through the Village and crosses the Secor Road dam located just west of the UT main campus near river mile (RM) 11. There is a current proposal to remove this dam as part of a stream restoration project.

The Ottawa River on the UT Main campus is located within the middle reach of the river, the area roughly between RM 11 and RM 5. The banks are generally high (35 to 45 feet or more) and unstable. Major problems include urbanization with the filling in of the floodplain, urban runoff, and associated water pollution. On campus the Ottawa River has a length of some 4000 feet. During bank-full conditions, the channel ranges in depth from 14 to 16 feet and in width from 60 to 70 feet. In 1960, the central section of the river through campus was straightened, widened, deepened, and levees of 4 to 6 feet height were added to the banks. These stream modifications were intended to address flooding concerns by increasing the capacity of the river channel to hold excess discharge from upstream during peak flow conditions. Recent surveys of the river on campus revealed an abundant and surprisingly diverse fish community with 26 species of fish including species of recreational interest such as northern pike, yellow perch, and largemouth bass. Steelhead trout was also observed on campus. Twelve species of native freshwater mussels have also been identified. Immediately downstream from campus, the river enters Ottawa Park, owned and managed by the City of Toledo.

The water quality of the Ottawa River on campus has been monitored by the City of Toledo on a monthly basis since 1990. Levels of dissolved solids, suspended solids and nutrients are high and highly variable within and among years. This is common for urban rivers. Fecal coliform levels, an indication of pollution with organic waste, are generally higher than the standard for recreational use. Downstream from the university campus, water quality is negatively impacted by high density urban land use and industrial pollution.

In 1991, the Toledo Health Department and Environmental Services Division, in response to health advisories issued by the Ohio Department of Health, posted warning signs along the Ottawa River within the City of Toledo limits, including the UT campus. The signs state that "Due to water pollution this area of the river is unsafe for swimming, skiing, other water activities and fishing. Fish caught in this area may be contaminated and unsafe to eat." The health advisories and subsequent sign postings were, in part, the result of analysis of fish tissue samples conducted along the Ottawa River which revealed unacceptable levels of PCBs.

During its work, the President's Commission on the River identified several management issues in regards to the Ottawa River on campus. These issues include flood control, channel modification, stormwater runoff, unstable banks, alteration of native riparian vegetation, invasive species, water quality, and changes to the floodplain. In many ways, the river has lost most of its natural aquatic habitat and function.



UT Master Plan – Implications for the Ottawa River

The University of Toledo undertook a long-range facility master plan in spring 2003. At the outset, the University recognized the strong but underutilized presence of the Ottawa River running through the middle of the Main Campus. Prior to starting the master planning process, a set of master planning principles was developed and approved by the Board of Trustees in April 2003. Among those principles was the following:

PRINCIPLE #9:

Integrate the Ottawa River into the Bancroft campus in a celebratory and environmentally sensitive way. This might involve:

- Strengthening the non-motorized circulation system along the river (river-walk, bike trail, etc.);
- Creating outdoor gathering spaces (such as a plaza or amphitheater) or informal recreation areas that take advantage of the river;
- Locating and designing buildings to take advantage of proximity to and views of the river;
- Using the Ottawa River for educational and research activities; and
- Coordinating efforts to improve the Ottawa River with surrounding communities and governmental agencies.

Throughout the master plan process, the Ottawa River was a pivotal element in discussion and evaluation of master plan alternatives. The master plan was developed and ultimately approved by the Board of Trustees in April 2005. There are several outstanding elements of the plan that embrace the river and offer opportunity for further exploration and development by the President's Commission on the River:

- A riverfront plaza development between Carlson Library and the Student Union and reaching south to the Ottawa River, which might be synergistic with an interior Information Commons project on the first floor of Carlson Library;
- Development of a science zone of campus, with a new science research building and a new building for the Agricultural Research Service (ARS) of the U.S. Department of Agriculture, which along with existing Wolfe Hall will create a new outdoor mall area that would extend south toward the Ottawa River. A new pedestrian bridge across the Ottawa River connects this science zone with the residential zone on the south side of the river. The ARS Building specifically calls for development of exhibition gardens and views toward the Ottawa River;
- Renovation and expansion of Savage Hall, both to the south and to the north toward the Ottawa River, which will be synergistic with bridge refurbishment and pedestrian accommodation to the North Parking Garage; and
- Recovering green space to the south of the Ottawa River through the elimination of Parking Lot 5 and elimination of a small portion of Parking Lot 10.

These specific elements of the University's master plan offered the President's Commission on the River a good basis to start its work. The elements are conceptual in nature and vary with regard to priority for funding.



Team One – Communications, Records, Outreach and Engagement

A key component of the work of the President’s Commission on the River involved communicating the group’s work, as well as putting into context for the campus community.



It was important to build excitement for the initiative and to develop an understanding of the scope of the effort and potential outcomes.

Ultimately, the message was simple: By working to rejuvenate the Ottawa River, the University can develop a focal point of interest that complements campus beauty and provides research and recreational opportunities for students, faculty and staff.

The institution’s traditional communications vehicles were used to highlight the effort at its inception — with stories in UT News and on the UT Web site — and during the commission’s work. Additionally, the internal organs promoted the public forums that were held to garner community input and feedback on the river. An article on the final report also is under consideration.

Through the Office of University Communications, advertisements were placed in the Independent Collegian, further promoting the commission and forums to the important student audience.

During the work of the commission, information was collected on the history of the river and important related documents have been archived.



Team Two – River Habitat Restoration, Development and Beautification

Team Two members included Mike Cassidy, Brenda Leady, Steve Martin, Jim Spengler, Harry Wyatt and Hans Gottgens (chair). The team was charged with generating ideas for enhancing the beauty, leisure-time use, scientific exploration and environmental features of the river. The overall goal was to bring forward creative proposals using previous studies, recommendations from experts, and concepts from other river and waterfront projects, with a special focus on college campuses.

Team Two used an electronic bulletin board (www.biosciences.utoledo.edu/bb) to assemble information and to communicate with other members of the commission. The bulletin board was structured to support Team Two's charge with five sub-categories. Sixteen articles were posted in five categories by seven registered users.

1. Collect detailed electronic maps of the Ottawa River (past and present).
 - Electronic maps of the Ottawa River on campus were assembled and used for public presentations, the charrette and final concept maps.
2. Compile water quality and biological records for the Ottawa River on campus.
 - Water quality data were obtained from the City of Toledo, Division of Environmental Services. Data consisted of monthly measurements on campus since 1990 for (among others) nutrients, dissolved oxygen, fecal coliform bacteria, and dissolved and suspended solids. As is typical for rivers that flow through agricultural and urban/suburban regions, levels of nutrients, coliforms, and solids were high and highly variable within and among years. Oxygen levels were generally sufficient to support heterotrophic aquatic life (such as fish and mussels).
 - In addition, the water discharge record was obtained (U.S.G.S. station #04177000) with data from 1945-1949 and 1977-present.
 - Fish are abundant in the river. Student projects uncovered the presence of a total of 26 species of fish in the campus stretch of the river. The community includes species of recreational and commercial interest (such yellow perch, northern pike and various sunfish species). In addition, 12 species of native unionid mussels and one exotic clam species have been discovered in the Ottawa on campus.
3. Inventory consultants/agency representatives that may assist in the development of proposals for the Ottawa River.
 - Two consultants were contacted to assist with the charette and the development of the final concept plans.
4. Inventory river projects on other college campuses.
 - Images were assembled of river projects on the campuses of the University of Florida and the University of Wisconsin.
 - Michigan State University was selected for an on-campus visit (March 14, 2006) by Commission members.
5. Review the 1982 Master Plan for the Ottawa River on the UT campus.
 - Major findings from the 1982 study are presented elsewhere in this report.



Team Three – Development and Grant Funding Opportunities

This team held numerous consultations and meetings with University faculty, staff, administrators and students. It also contacted several local and regional agencies and organizations, including the village of Ottawa Hills, city of Toledo, TMACOG, Ohio EPA, Lucas County and the Army Corps of Engineers. The following recommendations were made:

- Research and Sponsored Programs develop and maintain an online database of potential research funding programs related to river restoration and related projects;
- The UT Foundation and Research and Sponsored Programs consider the establishment of an annual competitive grant program to fund faculty and undergraduate research and projects related to the Ottawa River;
- The University undertake a Stormwater Management Plan for Main Campus in order to examine and address issues associated with stormwater runoff, retention and discharge into the Ottawa River;
- The University establish an annual “Celebrate the River” event to encourage community and student engagement efforts associated with the river, including stream bank cleanup, service learning activities, student learning, and public awareness;
- Research and Sponsored Programs form an UT Ottawa River Research Forum, which would consist of faculty, staff and students with research interests in various aspects of the river and that this forum would meet regularly to review research efforts and provide direction to such activities on campus;
- The Center for Teaching and Learning promote opportunities for classroom instruction and teaching related to the Ottawa River;
- The University, including expertise from the Health Science Campus, examine issues associated with water quality and related human health aspects of the river with particular focus on the aquatic ecosystem conditions as related to bacteria, contaminated sediments and levels of pollutants within fish; and
- The University continue to support and participate in regional collaborative efforts to address environmental and associated planning issues within the Ottawa River watershed with special interest on efforts in areas adjacent to Main Campus, including the village of Ottawa Hills and city of Toledo properties.



Overview of the Planning Charette

On Friday, April 7, 2006, the commission hosted a planning charette in the UT Student Union. The aim of the meeting was to introduce the University community to the work of the commission and provide some initial general ideas and concepts that could be considered for the Ottawa River on Main Campus. Approximately 60 individuals attended the meeting to hear presentations, view display materials and provide their comments and input.



Professor Hans Gottgens from the Department of Environmental Sciences gave an overview presentation on the Ottawa River, focusing on environmental issues and recent research on aspects of aquatic ecology. Steve Phillips of Oxbow River & Stream Restoration Inc. provided examples of urban stream improvements that have been completed at other sites. Display boards were placed around the room highlighting the UT Facility Master Plan, historical images of the main campus, research on fish population studies and sample stream restoration projects.

A survey was distributed to all meeting attendees and key results are listed below.

1). What would you identify as the most critical issues in regard to the Ottawa River on campus?

- address appearance and aesthetics;
- meet water quality standards;
- improve biological diversity;
- lack of awareness or understanding; and
- restoring natural habitat.

“The river needs to become a part of the University landscape rather than separate from it.”

2) What ideas or recommendations do you think should be in the final report of the Ottawa River Commission?

- connect river/floodplain to adjacent campus area;
- create riffles to filter and clean the water;
- re-establish and stabilize the floodplain and habitat diversity;
- creating recreational options (trails, gathering areas);
- bank stabilization/improve the appearance of the banks; and
- be aware and in control of the impacts of storm water runoff.

“Efforts should be made to restore the natural aquatic ecosystem in the river.”

3) How should the River Commission involve and engage members of the UT community in our efforts?

- appeal to the alumni and get them involved;
- continue program like today's informational session;
- reach out to other communities within the University such as fraternities, sororities, board members, employee unions and others who may have different concerns than the commission for their input;
- tailor class assignments/projects across many departments to include Ottawa River restoration plan; and
- engage students.

“Involve student organizations and classes on campus to work on river improvements.”

4) The University's goal is to integrate the Ottawa River into the Bancroft Campus in a celebratory and environmentally-sensitive way. If the University was in position to do ONLY ONE THING to achieve that goal, what ONE action, task, improvement or project should be pursued?

- floodplain improvements, remove levees;
- naturalize channel;
- restoring streambank and increasing vegetation while making it more interactive with the UT community (more seating around the river);
- remove hard surface parking near the water; and
- make the river an educational opportunity for everyone in the community.

"Improve the appearance of the river bank, remove garbage."

5) Any additional comments and/or suggestions?

- make the river a priority in the capital campaign;
- encourage rain gardens, porous pavement where possible;
- make the river a positive instead of an unnoticed piece of our campus;
- it is important to take a long-term view of this project;
- allow the river to grow wild around the banks – plant many species of native trees; and
- restore biodiversity and reduce silt and chemical inputs.



Overview of Site Visit to Michigan State University

Eleven members of the commission took advantage of an invitation from Michigan State University (MSU) to visit their campus. The goal was to become familiar with their approach to enhance the aesthetics of the Red Cedar River on campus and to improve its potential for research, education and public outreach. During the March 14, 2006 visit, Commission members made the following observations:

1. The MSU campus is required to comply with Phase II regulations of the Clean Water Act to control pollutants in storm water discharges to the "maximum extent practicable." As a result, MSU is working to meet its permit requirements by implementing research and education initiatives across campus. This work is coordinated through a special office (MSU Institute of Water Research/MSU Extension) with a designated staff position and an operating budget.
2. MSU is collaborating with other communities in the greater Lansing area to develop a watershed-based plan for the control of storm water in the Red Cedar/Grand River watershed.
3. The greater campus community is educated on the Red Cedar River by the use of signs, posters, Web-based information, decorated garbage cans, etc. For example, display tables are setup before sporting events when large numbers of people visit campus.
4. Efforts have been underway to maximize access to the river (outlook points, benches, selective clearing and walkways). There was talk of a fishing ordinance and allowing sport fishing on campus. There even seems to be a limited-use water trail with a canoe livery.
5. The need for the Red Cedar River to migrate laterally into its floodplain is recognized and, where possible, realized. There is a dam on the campus stretch of the river. It was not clear if the university plans to decommission this dam.
6. MSU has made a research fund available for faculty to initiate projects on the river.
7. Within the MSU capital campaign, a Campus Beautification Fund has been designated. These funds are used for programs that enhance the Red Cedar River. MSU also has a commemorative tree and bench program.
8. Grounds/maintenance
 - a. Fertilizer applications (particularly close to the river) are reduced or eliminated.
 - b. Mowing is minimized in certain areas; straight mowing lines are avoided and winding paths ("meandering lawns") are encouraged.
 - c. Mulching and composting are encouraged.
 - d. Rain gardens and porous pavement in parking lots are encouraged and applied.
 - e. An aesthetically-pleasing area has been developed where the MSU botanical gardens connect with the floodplain of the river.



Overview of the Student Focus Groups

During the week of September 11, 2006, a presentation on the ongoing work of the commission was made to nine student undergraduate and graduate classes on the Main Campus. The selected classes had some degree of environmental content. The courses included:



- | | |
|---|-------------------------------|
| GEPL 3900 Environmental Planning | CIVE 3610 Water Supply |
| GEPL 1100 Environmental Geography | PSC 4340 Environmental Policy |
| EEES 2010 Introduction to Environmental Studies | ENGL 2010 English Composition |
| EEES 3050 General Ecology | GEPL 6920 Research Design |
| EEES 2150 Biodiversity | |

For each class presentation, an overview of the main issues and concerns regarding the Ottawa River on Main Campus was provided by members of the commission, with three initial planning concepts revealed: River Paths, The Meadows and The Boardwalk. A survey was then administered to all students, resulting in a total of 403 responses. A summary of the key results, including the top five responses to each question, is provided below with the number of responses indicated.

What would you identify as the most critical issues in regards to the Ottawa River on campus?

Water Quality	256	Garbage	57
Aesthetics	47	Natural Habitats	36
Beautification	42		

The issues associated with stormwater discharge and surface runoff into the river on campus were identified as concerns, in addition to overall appearance of the river and banks.

What ideas or recommendations do you think should be in the Final Report of the Ottawa River Commission?

Improve Water Quality	62	Education	47
Protect Natural Habitats	37	Provide access/viewpoints	76
Beautification	56		

The ability to access and enjoy the river was noted by many respondents, and concerns over the presence of debris and garbage was raised.

The University's goal is to integrate the Ottawa River into the Main Campus in a celebratory and environmentally-sensitive way. If the University was in position to do ONLY ONE THING to achieve that goal, what ONE action, task, improvement or project should be pursued?

Provide Access/View points	35	Create Trails/Paths	52
Education/Awareness	39	Improve Water Quality	38
Beautification	43		

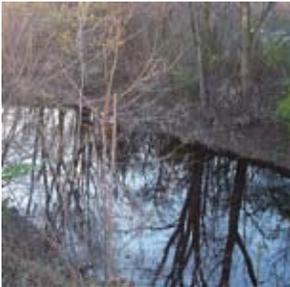
Allowing better access to the river with overlooks, view points, paths and trails was identified by many students, as was the need to provide better public awareness of the river and information on the environmental conditions.

“Make a plaza and river walk so we would be able to see the river and enjoy it.”

Of the three (3) proposed Ottawa River Planning Concepts, which would be your first choice?

River Paths	86
The Meadows	87
Boardwalk	186

The students preferred the Boardwalk concept, which provides for a mix of stream restoration, access and trails, while still maintaining the aesthetics and natural landscapes of campus.



University/Community Forum

The President's Commission on the River conducted a public forum in the Student Union on October 6, 2006. The goal of the forum was to receive input regarding the three conceptual visions the commission was developing. The three concepts were displayed on boards and in a PowerPoint presentation, and those in attendance were asked to complete a survey.

The forum was widely promoted (UT News article, two ads in the Collegian and a campus-wide e-mail from President Jacobs). Those in attendance provided interesting and valuable input to the commission. As noted in the section of this report that describes the extremely successful student focus groups (over 400 survey responses were completed), the commission believes that we have been able to solicit a more than satisfactory amount of input from students. This was important to our work since being "student centered" was always a focus of the commission's work.

Water quality and restoring the river back to its natural qualities seemed to head the list of what those in attendance would like to see. There were additional points of interest that are outlined below:

Regarding preferred concept and elements:

The Meadows and Boardwalk plans, with terraced plaza, gathering areas and overlooks (on the south side as well as north side) were the preferred concepts of those in attendance. The River Path sidewalk scheme also received support. One comment seemed to capture what most were saying:

"I prefer the Boardwalk – like the river opening up as more natural and have boardwalks as they have at Wildwood."

Regarding immediate impact opportunities:

Major themes were connecting the Student Union and Carlson Library with the river and clearing exotic vegetation and replacing those with native species.

Regarding what can be done in next five years:

Establishing the meadows by lowering the dike, removing soil and installing native plants and rain gardens were a general themes of this discussion. The establishment of a courtyard/plaza between Carlson Library, the Student Union, Snyder Memorial Hall and the river also received strong interest and support. One participant urged the commission to establish a water-monitoring program and create an actual class to continue the data collection.

Regarding long term planning:

The discussion centered on orienting any new buildings in harmony with the river (which is currently not the case for existing buildings). One participant urged the University to construct buildings with overlooking balconies in order to engage the river. Removing Parking Lot 10 and the tennis courts also were of interest.

Regarding opportunities to integrate the river into the campus in a celebratory and environmentally sensitive way:

Planting vegetation that is natural to the river and removing invasive plants and adding riffles and enhanced views of the river received support. The plaza concept and restoring the natural flood plain by lowering the dike was again mentioned.

When we asked if there were any concepts that the commission should NOT recommend, one participant seem to capture the mood of the group and certainly that of the commission.

... "to do nothing" would be the biggest mistake."



Major Findings / Observations from 1982 Ottawa River Study

The 1982 Ottawa River Study, completed by the Toledo architectural firm The Collaborative, was originally conceived as a General Concept Plan for future development and beautification of the Ottawa River through The University of Toledo campus. The study was completed under the direction of the Campus Beautification Committee and its chair at that time, Dr. James Brunner.

The report stressed that flooding periodically threatens to damage existing University buildings and facilities, and future development must attempt not only to prevent additional flooding, but also to minimize existing problems associated with those times of high water. The report specifically noted the following:

“This aspect becomes a significant challenge, as the hydrology of the Ottawa River watershed is in constant transition. Upstream development and urbanization are continually increasing the downstream flooding potential.

No attempt to control and contain dynamic natural systems can be entirely successful. Therefore the project should include a long-range management plan. The management plan should incorporate: a) Routine inspections of the river banks and levees; b) Maintenance of the inner and outer channel to insure that the channel roughness does not significantly increase with time, c) Periodic improvement of outfall structures to prevent erosion around these structures, and d) Periodic levee maintenance to insure that leakage of water through the levees does not occur during high water flows.”

The report’s concluding statement set the tone for the 2006 President’s Commission on the River:

“In conclusion, we feel the recommendations embodied in this report will, when fully implemented, result in many found and newly used areas within the campus, which are truly ‘diamonds in the rough’ just waiting to be discovered. We believe the Ottawa River can truly have a front door atmosphere, which will become a major focal point and unifying element not found at many universities in this country. At the same time, these improvements are designed to recognize and suggest solutions for the serious problems of erosion and deterioration of existing banks and levees, as well as the problems of widely fluctuating water levels and flooding which threaten several campus structures and other valuable facilities which lie within the floodplain.”

In addition to the observations noted above, the 1982 report contained a number of additional, specific recommendations. Three of those recommendations are embodied in the 2006 commission’s report:

1. Create a Campus Core / River-Oriented Focal Point directly south of the Student Union, Snyder Memorial Hall and Carlson Library.
2. Develop pedestrian walks allowing people to freely circulate on both sides of the river, from the existing pedestrian bridge at Savage Hall to the bridge at the Law Center.
3. Develop landscaping all along the river channel, with the area from the Douglas Road Bridge to the existing pedestrian bridge south of Carlson Library to be treated in a more formal way. The area west of the Carlson Library pedestrian bridge should be landscaped and maintained in a more natural, less formal way, especially on the south side of the river and west of the Law Center bridge.



Funding and Grant Opportunities

In recent years, The University of Toledo has created one of most attractive metropolitan campuses in the United States. Consistently, prospective students and returning alumni comment on its beautiful appearance. Great strides have been made to create a setting that is at once sequestered, vibrant and collegiate.

By transforming an urban stream into an environmental asset and aesthetic attraction, the Ottawa River Meadows/Boardwalk Plan will further enrich the quality of campus life both environmentally and aesthetically. In addition to advanced opportunities for student learning, community engagement and sponsored research, improvements to the Ottawa River will capture the imagination of a wide variety of potential sponsors, including alumni, friends, corporations and foundations. While not formally a priority of the current capital campaign, the river project can strengthen the campaign by providing additional sources of attractive engagement, funding and naming opportunities for donors to consider. Overlooks, rain gardens, seating areas, educational kiosks, walkways, and educational outreach programs are just a few areas donors may be interested in supporting. One such example is walkways through rain gardens that have bricks and messages with names, graduation dates, remembrances, and/or messages, which will be especially attractive donation opportunities for alumni, faculty, fraternities and sororities, parents, and students. Within the public sector, opportunities exist for competitive state and federal grants as well as Congressionally-directed funding. In addition, improvement of the Ottawa River on campus will enhance the university's relationships with the surrounding communities, enhance development of the technology corridor, and provide keystone environmental leadership that matches the university's mission.

Our review of likely sources of funding clearly indicates that a number of the sub-projects are strong candidates for particular programs or approaches. Funding possibilities for the overall project are strengthened by features of our proposal that:

- appeal to potential donors with an interest in campus beautification, environmental issues, wildlife restoration, flood control, student recruitment, and exemplary stewardship;
- are timely with respect to local and regional pilot projects for storm runoff and urban stream management;
- provide opportunities for partnership with community organizations;
- offer research possibilities for faculty and students, leveraging existing faculty expertise;
- show high potential for competitive and Congressionally-directed funding.

Projects with Strong Funding Appeal

- Improve access via river overlooks, gathering places and trails
- Beautify with native plantings along and above the banks
- Raise awareness and education by, for example, interpretive signage
- Demonstrate projects for stream restoration
- Create an urban aquatic, terrestrial and avian wildlife preserve
- Establish a real-time, online river monitoring station
- Promote faculty and student research projects in the natural sciences, landscape architecture and resource management

Foundations and Corporations

A cursory search in the Foundation Center's© online database, using a variety of search terms related to the environment and education coupled with geographical restrictions, generated 15 corporations or foundations as strong potential matches. Once the funding projects/programs are prioritized and frameworks and budgets are developed, more in-depth searches can be conducted to determine the best possible prospect pool.

Existing University Capital Projects

The University is well-poised to incorporate particular Ottawa River sub-projects in the landscaping and water management plans of the planned Agricultural Research Service building and the renovation of Savage Hall. Examples include terraces, walkways, and raingardens to manage roof and parking lot runoff. In both cases, the allocation of funds in a manner consistent with the recommendations of this report, as well as the master plan, presents an opportunity for efficient leveraging of capital project funds. It also integrates both plans into a consistent, progressive, and inviting vision of the river and adjacent buildings.

Congressionally-Directed Funding

UT has an excellent track record in securing congressionally-directed funding, particularly in areas of environmental research and impact. Funding for a core portion of the Ottawa River Project (e.g. turning the Flats area into sloped area with boardwalks and native vegetation), in the range of \$500,000 to \$1.5 million, may be pursued through congressionally-directed funding.

Competitive State and Federal Grant Programs

With the faculty expertise in its departments of Environmental Sciences, Geography and Planning, Civil Engineering, the Lake Erie Research Center and elsewhere, the University of Toledo is well-positioned to compete for a number of small and large grants (see the list of potential sponsors and programs in the Appendix). Even though it is unlikely that grants will fund a complete project, leveraging university cash and in-kind contributions through matches on proposals will greatly extend university funds while advancing the core missions of research and education. In addition, the potential for involvement of undergraduates in watershed-related research, both through summer projects and as part of the Environmental Sciences curriculum, can hardly be overstated. Our long-term, NSF-funded Research Experience for Undergraduates (REU) programs at the university are illustrative in this respect.

Conclusion

The UT Meadows/Boardwalk Plan offers a wide range of funding opportunities. The University of Toledo's commitment to this plan will not only accomplish an ambitious and lasting enhancement of the campus experience and institutional stewardship of natural resources, it will also create opportunities for an integration of sustained environmentally-centered faculty and student research on campus in timely focus areas. Moreover, it will create lasting opportunities for UT to connect more strongly with its natural stakeholders including educators, researchers, neighbors, community organizations, businesses, foundations, alumni and government agencies.



Recommendations – UT Meadows/Boardwalk

Introduction

One of the major “guiding principles” that has been a focal point for the commission is the need to celebrate our river...not hide it. In addition, several other “guiding principles” influenced our work, including student centeredness, campus beautification and enhancing faculty and student opportunities for research and education. The recommendations outlined below are divided into three separate “zones” and are illustrated on pages 26, 27 and 28.

Zone One

Zone One encompasses the portion of the Ottawa River that extends from Secor Road to the Campus View Drive bridge. The commission envisions most of Zone One to remain in a natural state and to provide various educational demonstration opportunities and beautification enhancements.

Zone One Recommendations:

North side of the river

1. Establish the “Secor Environmental Reserve” and create four rain garden sites to collect and treat storm water drainage/run-off. Native grasses and plantings that are tolerant to water would be utilized in the rain gardens. These plantings would provide filtration that would assist in a purifying function and would add to the beautification of the area. The establishment of these rain gardens may eliminate a limited number of parking spaces in the Law Center parking lot.
2. Remove invasive species and conduct a selective thinning of trees and plants in this zone, but maintain the vast majority of the existing trees in order to provide bank stabilization and screening. The south side of the river does not provide desirable views due to the existing parking lots and the back of an apartment complex.
3. Remove the chain link fence that is currently on the east side of the Law Center parking lot; however, maintain the plantings. This area is a potential site for one of the rain gardens.

South side of the river

4. Stabilize the south side bank. This is the major issue for the south side of this zone. Presently, a concrete walkway, several light posts and the north fringe of the Health Center parking lot are jeopardized by potential subsidence of the river bank. The Commission recommends that the University seek counsel and recommendations from a consulting firm that specializes in bank stabilization.

Zone Two

Zone Two encompasses the portion of the Ottawa River that extends from the Campus View Drive bridge to the Stadium View bridge. The commission envisions Zone Two to be a “high visual impact area” and would experience the most dramatic change.

Zone Two Recommendations

North side of the river

1. Establish a "River View Plaza" that will encompass the space directly south of Carlson Library, the area east of Carlson Library to the west side of the Student Union and extending to the southwestern edge of the Student Union. Provide comfortable seating and landscaping features that will create an inviting setting to encourage the University community to use this space as a major "gathering area" similar to what Centennial Mall has accomplished. The "River View Plaza" concept is compatible with the latest version of the UT Master Plan.
2. Renovate/enhance the existing Carlson Library patio area that is currently present on the east side of Carlson Library in order to become a complementary feature to the new "River View Plaza." This new space would also be a natural extension of the new Information Commons that is envisioned for the ground floor of Carlson Library.
3. Create a "Nature Walk Gardens" that would extend from the western edge of the "River View Plaza" past the future Agriculture Research Service (ARS) building and connecting to the east side of West Campus Drive. Another rain garden would be established in this area and the "Nature Walk" would complement and take advantage of the potential demonstration gardens that will be a feature of the new ARS building.
4. Remove invasive plants and trees from the West Campus View Drive extending to the Stadium Drive bridge to create/improve views of the river, especially for those using the "River View Plaza." Establish a River Walkway that would connect the "River View Plaza" to the east with the walkway that is envisioned for Zone Three.

South side of the river

1. Lower the existing dike from the Campus View Drive bridge to the library bridge. The removal of the dike would allow the area directly south of the river and extending to the Academic House to be re-established as a flood plain and would allow for the creation of a "meadow-like" area that would incorporate a variety of native plantings interspersed with mowed lawn areas that would add color and would contribute to the meadows concept. Lowering of the dike would require a careful regrading of that area in order to maintain the several mature trees and would allow the water during flood events to naturally recede back to the river.
2. Remove invasive plants and conduct a selective thinning of trees that would create opportunities to enhance river views and provide opportunities to "engage" the river.
3. Establish a series of boardwalks and pathways with educational signage that would wind through the "meadows," providing views of the meadows and allowing for maintained pedestrian traffic during the several times during the year that this area would become a flood plain. The commission recommends boardwalks that would be 20 feet wide allowing for pedestrian traffic and easy snow removal.
4. Establish five large (50 feet wide) patio decks/areas with comfortable bench seating that would be located strategically at boardwalk/pathways intersections to encourage opportunities to gather and enjoy the meadows environment.
5. Establish a football tailgating area that would be located in a "wedge-like" area on the southwest edge of the meadow (next to and west of the tennis courts).
6. Establish a link to the forested wetlands that would connect the UT Meadows/Boardwalk to the existing wetlands that lie on the west side of Parks Tower.

7. Expand a "green belt" between the library and Stadium View bridges. This would allow for a new "River Walk" on the south side of the river and would require the removal of approximately 50 spaces in Parking Lot 10. Establish a patio/gathering area west of the Stadium View Drive.
8. Provide new plantings of native trees (maples, sassafras, hickories, oaks, etc.) and other plant species that would enhance the southern views from the "River View Plaza" across the river.
9. Add a series of four "riffles" (using boulders / rocks) on the west side (downriver) of the existing bridges that would oxygenate river water, and create "rippling sounds" for the enjoyment of those utilizing the "Nature Walk" and "River View Plaza." Riffles also provide habitat for invertebrates, amphibians, fish and wading birds.
10. Establish a "River Demonstration Display" that would be incorporated in the patio/gathering area west of the Stadium View Drive. This area would allow UT faculty and students to help educate the University community and campus visitors on the ecological value of the river. For example, many do not know that the river is home to 26 species of fish (including northern pike, bass and steelhead trout) and a dozen species of native mussels.

Zone Three Recommendations

Zone Three encompasses the portion of the river that extends between the Stadium View Bridge and Bancroft Street. This zone will be impacted by the future Savage Hall extension/renovation project. Because details of that expansion are still in a preliminary stage, the commission is not in a position to offer detailed recommendations until those plans are developed. The commission believes that the section of the river that extends from the Savage Hall Bridge to Bancroft Street (south of the parking garage) should not be developed and should remain in its current state.

North side of the river

1. Extend the River Trail from the Stadium View bridge to the Savage Hall bridge to allow for pedestrian traffic and enjoyment of the river.
2. Conduct selective thinning of trees and invasive plant material to create/improve views of the river in this zone.

South side of the river

1. The Savage Hall expansion project should engage the river. The future Savage Hall project needs to take advantage of its proximity to the river and engage the river by creating river views and gathering opportunities.
2. The commission should be involved in the Savage Hall planning process. The Savage Hall expansion presents a unique opportunity for a building project to impact its surrounding area by careful planning. Involvement of the commission in these discussions would allow for the necessary discussions to occur.
3. Create a new "Rocket Terrace" patio/gathering area (located in the area of a wider, more functional Savage Hall bridge). The "Rocket Terrace" would provide an excellent venue and opportunity for the Athletic Department to acknowledge past accomplishments of its various teams.
4. Encourage connectivity of the University/Parks Bike Trail to the new "River Walk" and possible connection to the new "Rails to Trails" bikeway. The commission believes that connecting the bike trails and walkways would offer additional opportunities for members of the community to engage with the river, as well as with the campus. Plans also call for the city to develop a new bike trail that would utilize the now-abandoned CSX railroad tracks (running north/south on the east side of Douglas Road).

Additional Recommendations

1. Extend the President's Commission on the River. In order to maintain the momentum of this project and to oversee future development, the work of the commission should continue.
2. Immediately launch a campaign to fund the cost of the river developments outlined in this report. The vice president for Institutional Advancement should be charged with the development of a plan for gifting opportunities.
3. Review the recommendations in Team Three's report (on page 11) for possible implementation.

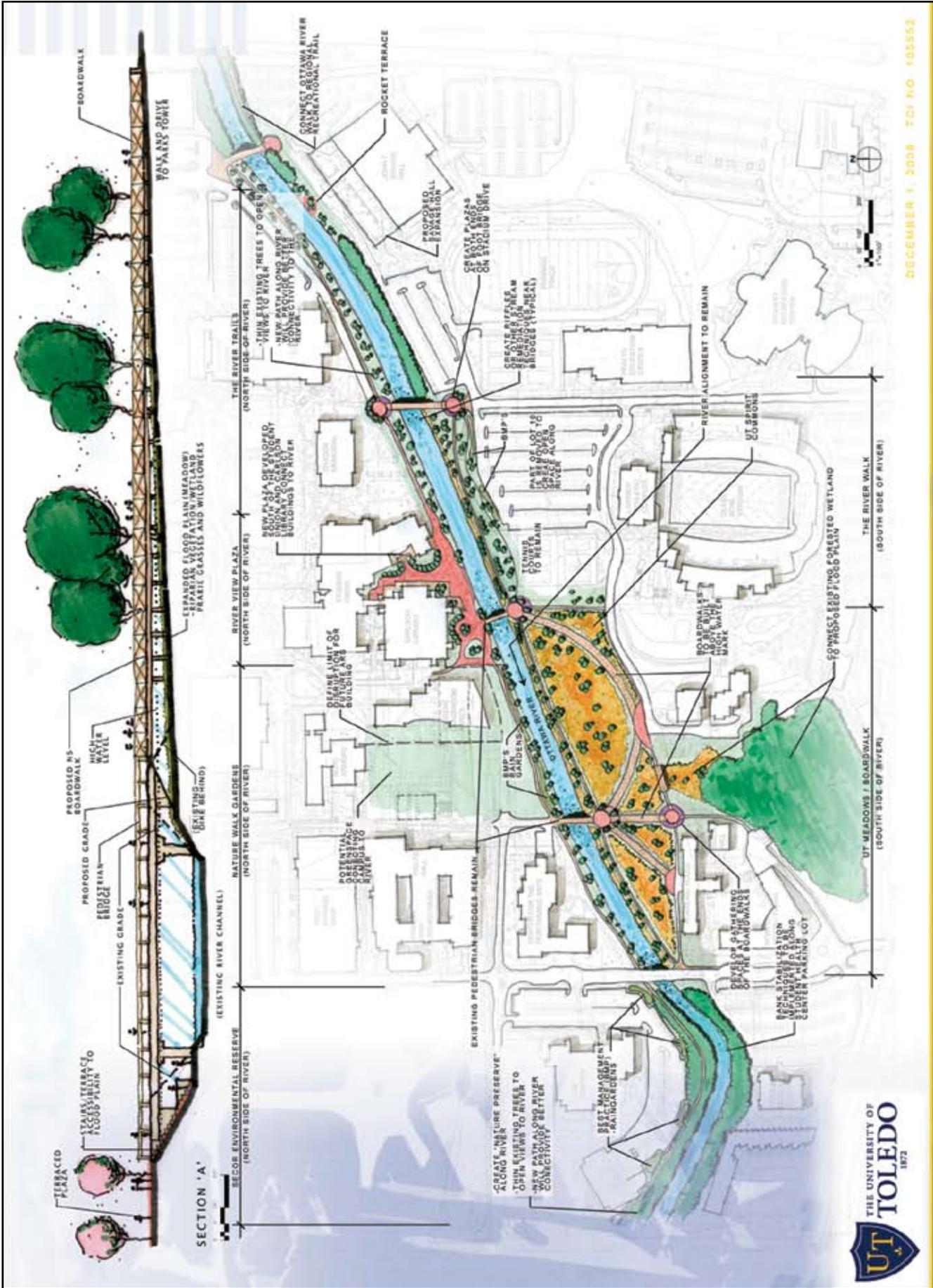
Projected Costs

1. Secor Environmental Reserve - North Side of the River	\$300,000
2. Secor Environmental Reserve - South Side of the River	\$300,000
3. Nature Walk Gardens - Science Quad North Side of the River	\$500,000
4. UT Meadows Boardwalk - South Side of the River	\$2,700,000
5. River View Plaza - North Side of the River	\$3,000,000
6. The River Walk - South Side of the River	\$500,000
7. Plazas at the Root Bridge on Stadium Drive	\$600,000
8. River Trails - North of the River	\$300,000

TOTAL	\$8,200,000
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Notes:

1. "Project Cost" includes the Cost of Construction plus Non-Construction Costs including A/E fees and reimbursables expenses, UT/SAO administration costs, UT/SAO bidding expenses, One Percent for Art, and a project reserve/contingency for change orders during construction.
2. Estimated costs are based on 2007 Cost of Construction.
3. Depending on when the projects are planned to be completed, the University should factor in an inflation factor of 3 percent per year added to the above costs.



DECEMBER 1, 2008 TCI NO 105553



OTTAWA RIVER COMMISSION

THE COLLABORATIVE, INC.



DECEMBER 1, 2008 TCI NO. 105552

OTTAWA RIVER COMMISSION

UT-COLLABORATIVE, INC.



DECEMBER 1, 2008 TOI NO 105552

OTTAWA RIVER COMMISSION

OTAWA RIVER COLLABORATIVE

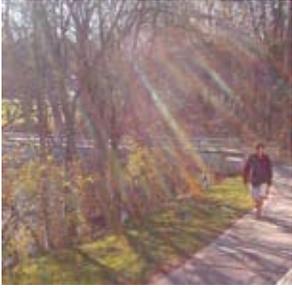


Conclusion

There are many misconceptions about the Ottawa River, on campus and in the community. The notions that the river is lifeless and unable to be restored to its former glory are false.

By investing in this potential treasure of a natural resource, UT could create a campus showpiece that would help attract new students, increase the satisfaction of current students, faculty and staff and further solidify the Main Campus as one of the most vibrant and beautiful areas in the region. The expertise already exists on campus to lead the restoration initiative, from a water quality perspective, as well as the facilities construction standpoint.

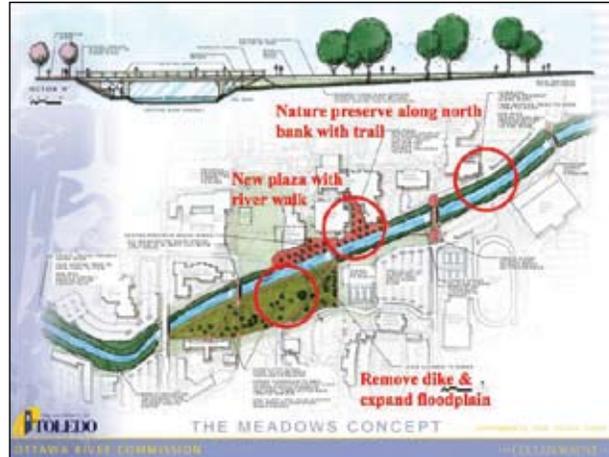
The Ottawa River represents one of The University of Toledo's greatest untapped opportunities. The President's Commission on the River enthusiastically recommends investment in the Ottawa River, with a goal of embracing and showcasing this campus treasure and demonstrating the University's commitment to celebrating our river.



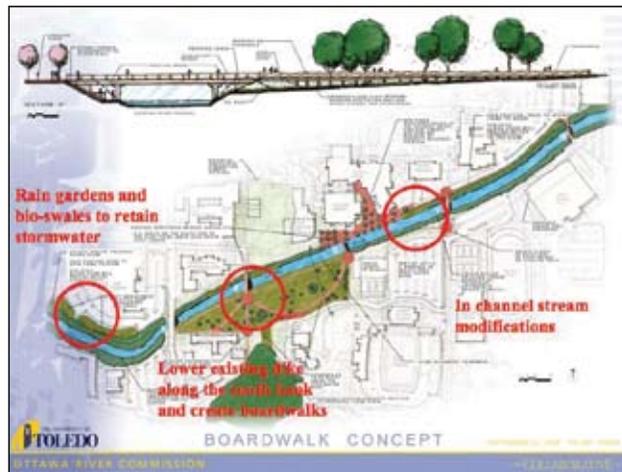


Appendix

Initial Conceptual Visions (3 graphics)



The Meadows Concept



The Boardwalk Concept



River Paths Concept

Student Focus Groups Results

GEPL 3900 Environmental Planning	CIVE 3610 Water Supply
GEPL 1100 Environmental Geography	PSC 4340 Environmental Policy
EEES 2010 Environmental Studies	ENGL 2010 English Comp
EEES 2150 Biodiversity	GEPL 6920 Research Design
EEES 3050 General Ecology	
NINE CLASSES	TOTAL SURVEYS: 403

1). What would you identify as the most critical issues in regard to the Ottawa River on campus?

Water Quality	256	Flooding	37	Stormwater	15
Garbage	57	Education	12	Aesthetics	47
Public awareness	12	Access	8	Restoration	3
Natural habitats	36	Floodplain	8	Beautification	42
Natural vegetation	6	Erosion	3	Channel	4
Aquatic habitat	10	Banks	4		

2) What ideas or recommendations do you think should be in the Final Report of the Ottawa River Commission?

Stormwater improvements	17	Clean up garbage	25
Improve water quality	62	Education	47
Restore floodplain	21	Create wetlands	2
Protect natural habitats	37	Flood protection	4
Provide access/viewpoints	76	Trails/paths	8
Community engagement	13	River restoration	31
Student involvement	3	Beautification	56
Bank Improvements	6	Create green spaces	23

4) The University's goal is to integrate the Ottawa River into the Bancroft Campus in a celebratory and environmentally-sensitive way. If the University was in position to do ONLY ONE THING to achieve that goal, what ONE action, task, improvement or project should be pursued?

Provide access/viewpoints	35	Create trails/paths	52
Stormwater improvements	5	Student Involvement	6
Education/awareness	39	Clean up garbage	26
Improve water quality	38	More green space	7
Community engagement	4	Create wetlands	3
Increase floodplain	21	Improve aesthetics	29
Protect natural habitats	21	Beautification	43

5) Of the three (3) proposed Ottawa River Planning Concepts, which would be your first choice?

River Paths	86
The Meadows	87
Boardwalk	186

Survey Results
Planning Charrette
Friday April 7, 2006
1:30-4 pm Student Union 2582

The Ottawa River Commission was established by President Johnson in 2005. The charge of the commission is to consider the opportunities for community engagement, river restoration, development, beautification, education, access and research.

Today this charrette will include two presentations and several displays with the intention of providing some initial general ideas and concepts in regard to some of the types of activities and projects that could be considered for the Ottawa River on campus.

Please take a few minutes to complete this survey and provide us with comments and feedback. We welcome your ideas and suggestions.

1). What would you identify as the most critical issues in regards to the Ottawa River on campus?

- Reduce flooding – create functional floodplains upstream (3)
- Improve physical integrity of river through campus/incised structure of the river — lack of heterogeneity (riffles/pools) and no access to floodplain (2)
- Better use/connect river to population / appearance / aesthetics (6)
- Meet water quality standards (6)
- Biological diversity (4)
- Increased turbidity
- Lack of awareness or understanding (3)
- Restoring natural habitat (3)
- Restoring the meanders (2)
- Pollution non-point pollution (3)
- Bank erosion/weeds, overgrowth on banks (2)
- Removal of upstream dam
- Showing the river as a model of how to do things “right” in an urban area since we are a higher learning institution
- Recognizing potential with regard to environmental education and understanding
- Safety issues
- Lack of access to river (outlook, boardwalks, amphitheater)

2) What ideas or recommendations do you think should be in the Final Report of the Ottawa River Commission?

- Develop a comprehensive “plan” to bring watershed into full attainment of designated use (2)
- Connect river/floodplain to adjacent campus area (2)
- Create a wilder more natural lush green space with trees/meadows/streams
- Make the river meander (2)
- Create riffles to filter and clean the water (3)
- Clean up the river upstream
- Remove dam
- Re-establish and stabilize the floodplain and habitat diversity (2)
- Creating recreational options (trails, gathering areas) (2)
- Community/campus involvement
- Bank stabilization/improve the appearance of the banks
- Reduce the amount of silt
- Restore natural setting
- Pollution mitigation
- Stop building parking areas and buildings close to the river
- Relocate parking lots, tennis courts to give river more room
- Reduce impervious surfaces
- Be aware and in control of the impacts of stormwater runoff (2)
- Creation of Storm Water Parks for aesthetics and educational purposes
- Work with those upstream who are contributing to the fecal coliform problem
- Adjustments in grounds keeping (mowing, spraying, fertilizer use, planting, etc.)
- Improve river access
- Fund data logger on river (wire-less with direct link to UT Home page)
- Allow river to access floodplain in some areas
- Heterogeneity of habitat in river channel
- Permit fishing in river (with Ohio permit)
- Amphitheater, terrace, outlook points, educational signs, boardwalks, etc.

3) How should the River Commission involve and engage members of the UT community in our efforts?

- Appeal to the alumni and get them involved
- Continue program like today's informational session (5)
- Reach out to other communities within the University such as fraternities, sororities, board members, employee unions and others who may have different concerns than the commission for their input (2)
- Involve Ottawa Hills community
- Tailor class assignments/projects across many departments to include Ottawa River restoration

plan (2)

- Engage students (2)
- Include Ottawa River as part of UT campus
- Reach out to student paper to report a series on the Ottawa River
- Show everyone our vision of the future – a lush natural environment – show someone fishing or a student couple wading in the water
- Reach out to UT News
- Displays, information at sporting events, tailgate parties
- Direct Web link to river data station on UT Web page
- Sponsored research on river
- Annual river run

4) The University's goal is to integrate the Ottawa River into the Bancroft Campus in a celebratory and environmentally sensitive way. If the University was in position to do ONLY ONE THING to achieve that goal, what ONE action, task, improvement or project should be pursued?

- Floodplain, remove levees, develop sinuosity
- Redirect river into a meandering stream
- Student involvement
- Naturalize channel
- Restoring streambank and increasing vegetation while making it more interactive with the UT community (more seating around the river)
- Channel and floodplain stabilization
- Remove hard surface parking near the water
- Dam removal (2)
- Access to river visually and participatory
- Make the river a "part" of campus
- Make the river an educational opportunity for everyone in the community, so people walking by are becoming environmentally sensitive without even knowing it
- Creation of riffles and pools
- Stabilize bank
- Improve appearance

5) Any additional comments and suggestions?

- UT should, voluntarily, comply with Phase II CWA regulations
- Make the river a priority in the capital campaign.
- Encourage rain gardens, porous pavement where possible.
- Enjoyed the program and information!
- I would like to see the University take a positive role in reducing parking lot run-off to the Ottawa River. Perhaps collaborating with local vo-tech high school programs to provide simple maintenance for student vehicles – i.e., repairing leaks. Funds could be made available from our parking fees!
- Keep the momentum going!

- Good start. We should serve as a model that others can follow.
- Make the river a positive instead of an unnoticed piece of our campus.
- It is important to take a long term view of this project. If viewed as a short-term project, it will not be feasible.
- Ponds needed for building and lot parking.
- Conduct some stream improvement at the headwaters as suggested by the second speaker. This would be a wonderful student lab.
- Allow the river to grow wild around the banks – plant many species of native trees.
- For stream bank restoration, have you considered a company that uses filter socks? I work for a company called Filtrex that does a lot of stream bank restorations and this seems like a project they might consider.
- Restore biodiversity and reduce silt and chemical.
- I am an officer of SEE (Society for Environmental Education), the environmental organization on campus. I am interested in involving the organization and student on campus to help with the commission. I would like to be in collaboration with anyone who could assist me in this.

Potential Sponsors and Programs for Ottawa River Projects

In many cases UT researchers have established relations with the program officers, and are up-to-date about funding possibilities. The Research and Sponsored Programs office will also connect opportunities with researchers.

Corporation for National and Community Service: Planning Grants

Fish and Wildlife Service:

- Cooperative Endangered Species Conservation Fund (Section 6 ESA):
- Conservation Grants; Habitat Conservation Plan (HCP) Land Acquisition; Habitat Conservation

Planning Assistance; Recovery Land Acquisition

- Fish Passage
- Great Lakes Coastal Program
- Landowner Incentive Program (LIP)
- North American Wetlands Conservation Act: Small Grants
- North American Wetlands Conservation Act: Standard Grants
- North American Wetlands Conservation Fund
- Partners for Fish and Wildlife Program
- Private Stewardship Program

Great Lakes Protection Fund

National Fish & Wildlife Foundation

- Five-Star Restoration Matching Grants
- General matching Grants
- Doris Duke Foundation

State Comprehensive Wildlife Conservation

National Fish & Wildlife Foundation

- Wal-Mart; Acres for America

NOAA

- National Oceanic and Atmospheric Administration Partnership

ODOT

- Mitigation (not a grant program. Federal mitigation credits are subject to approval by regulatory agencies)

US EPA

- Section 319 Programs (Clean Water Act)
- GLNPO

Great Lakes Aquatic Habitat Network and Funds (GLAHNF)

- National Fish and Wildlife Federation
- Bring Back the Natives (BBN)
- Great Lakes Watershed Restoration Program
- Native Plant Conservation Initiative
- Five-Star Restoration Challenge Grant Program

Center for Field Research, Proposals in Biological Sciences

- Earthwatch Link
- Watershed Management
- Limnology

Ducks Unlimited

Lake Erie Commission; Lake Erie Protection Fund (LEPF)

- Small Grants (max. \$10,000)
- Large Grants

ODNR

- Nonpoint Source Pollution Education Grants
- Watershed Coordinators
- Urban Streams Program
- Coastal Management Program

National Council on Science and the Environment

- Wildlife Habitat Policy Research Program