

# **BICYCLE TRANSIT CENTER**

## **OVERVIEW**

The mission of the Delaware Valley Green Building Council (DVGBC) is to advance and promote sustainable and environmentally responsible planning, design, construction and operation of the region's buildings, landscapes, cities and communities, mindful of the legacy left for future generations.

Each year, the DVGBC conducts a Sustainable Design Competition to engage students from regional colleges and universities. Professors are encouraged to incorporate the Design Competition with the Spring 2010 college and university curriculum. This year the DVGBC would also like to invite young professionals to enter the competition. Integrated with the LEED Green Building Rating System, the Design Competition unites students and young professionals with esteemed individuals from the DVGBC and the local design community. The goal is to incorporate sustainable design strategies into the college curriculum and empower the students and young professionals within the green building movement to become future leaders.

The competition will award a number of cash prizes as well as a grand prize stipend to attend Greenbuild, the USGBC's annual Green Building Conference and Expo ([www.greenbuildexpo.org](http://www.greenbuildexpo.org)). Greenbuild 2010 will be held in Chicago.

## **ELIGIBILITY**

The Competition is open to all college and university level students as well as young professionals within 2 years of graduation. Participants may work individually or as part of a team. Multidisciplinary teams are encouraged within and between educational institutions. Teams may be no larger than 5 individuals and only one entry is permitted per team.

We strongly encourage individuals not participating as part of a design studio class to secure a faculty member or industry professional to act as an advisor during the design portion of the competition. Please check the USGBC website for a list of LEED Accredited Professionals in your area or contact your local USGBC chapter for help in identifying a professional advisor.

## REGISTRATION

There is no registration fee. Each team/individual may submit only one entry.

### Individuals

Visit the DVGBC website and register online at [http://www.dvgbc.org/sustainable\\_design\\_competition](http://www.dvgbc.org/sustainable_design_competition). Registration with DVGBC will be available January 4th 2010 at the above link. All information must be complete to be considered a valid entry. A confirmation email will be sent from DVGBC within seven (7) business days of receiving the registration, and will contain information on how to proceed. Registration is mandatory to receive additional instruction on project submittals.

### Teams

Only one entry form should be submitted per team and a primary contact is required. This person will receive important information from the Competition Committee and is responsible for final submission. The team contact will be responsible for all communication between the design team and the Competition Committee. Additionally, the team contact should disseminate all information from the Competition Committee to their entire team.

## COMPETITION CHALLENGE

With the rise of fossil fuel and parking costs, Philadelphia has experienced an increased number of bicyclists within the city. To encourage this growth, the City of Philadelphia is expanding urban infrastructure to promote bicycle ridership and ensure bicyclist safety, such as the installation of bicycle racks and additional bicycle lanes for major roadways. As an alternative to single-occupant automobile use, bicycles produce no smog-forming or greenhouse gas emissions and reduce traffic congestion and noise pollution. Most importantly, bicycles promote an active and healthy lifestyle.

The project shall act as a gathering space for visitors exploring the city by bike, while also providing shower and changing facilities for commuters on their way to work. The project site must be located adjacent to a major public transportation hub to allow for connections to the greater Philadelphia area and beyond. Participants are encouraged to consider how the project interfaces with the city as a whole. Due to the environmental and human health benefits associated with bicycle use, this project is well suited for the exploration of the principles of integrated design, sustainability and innovation.

## SITE

### Option A

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Participants may elect to place their design in close proximity to any of the three major transportation hubs in downtown Philadelphia. These major transportation hubs are:

**Market East**  
**Suburban Station**  
**30th Street Station**

**9th & Market Streets**  
**16th Street & JFK Boulevard**  
**30th & Market Streets**

### Option B

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Participants may also elect to identify and describe an alternative site location. If making an independent site selection, please choose a site near a major transportation hub. Please be sure the site has open access to the public, or clear your site visit with local authorities.

## PROJECT PROGRAM

The Bicycle Transit Center contains two major spaces. The first part of the program is for a local bicycle advocacy group. The second is for a public bicycle repair and community workshop space that could be overseen by a community bicycle organization.

- Space for the Advocacy Group includes: office space for a staff of 12, a large conference/board room, meeting/classroom space, a library, exhibit space and storage.
- Space for the Public Bicycle Repair & Community Workshop includes: bike rental and retail, a repair shop with workshop space, and storage. The repair component of the Public Repair Shop could be contracted solely to one operator, but the hope is that it would be operated as a shared space among different local repair shops. The community workshop space could host classes on repair and maintenance utilizing the repair shop facility, when applicable. Other workshops could be administered by local advocacy organizations. The rental and retail components could be contracted out to independent local companies.
- The Bicycle Transit Center will also house a café, shower/changing facilities for both men and women, and covered bicycle parking.

<b>Office Space for Local Bicycle Advocacy Group</b>	
This includes: Open Plan Seating, Conference Room, Classrooms, Library, Exhibit Space, Storage (Specific square footage requirements for the program spaces are up to the individual/team unless otherwise noted – in total the office space should not exceed 5,000 SF. The specified figures are included in the 5,000 SF total.)	
<b>Main Conference/Board Room</b> Include 2 ways of exiting: 1 office connection, 1 direct to outside access	700 SF
<b>Meeting Rooms/Classrooms</b> (Multipurpose Space) 2 @ 750 SF each rooms should open up to transform into one large space	1,500 SF
<b>Open Plan Seating</b> Approx. 12 Staff Members	Not specified
<b>Small Library</b>	Not specified
<b>Exhibit / Gallery Space</b>	Not specified
<b>Total SQ FT for Advocacy Group's Space</b>	5,000 SF
<b>Public Bicycle Repair &amp; Community Workshop Space</b>	
This includes: Bike Rental, Basic Retail, Bike Repair, Workshop Space, Storage	
<b>Bicycle Rental</b> For 30 Bikes	1,000 SF
<b>Retail Shop</b> Sells basic bike parts and helmets.	750 SF
<b>Bicycle Repair &amp; Workshop Space</b> 2 separate spaces, but should be connected Repair Shop should include 3 repair stations (SF is combined total)	1,000 SF
<b>Storage</b>	500 SF
<b>Total SQ FT for Repair &amp; Workshop Space</b>	3,250 SF
<b>Cafe</b> Provide Seating for 15 People	1,000 SF
<b>Shower/Changing Facilities - Male</b> Should include: approx. 100 small storage lockers, and enough showers, toilets/lavatories, and changing area for a peak of 50 people.	800 SF
<b>Shower/Changing Facilities - Female</b> Should include: approx. 100 small storage lockers, and enough showers, toilets/lavatories, and changing area for a peak of 50 people.	800 SF
<b>Service Areas</b>	300 SF
<b>BUILDING TOTAL</b>	11,150 SF

SITE PROGRAM	
<p><b>Bicycle Parking</b> Provide covered parking for 250 bikes, with additional exposed parking for 25 bikes. There is no SF requirement for parking, however, basic standards for bike sizes must be met.</p> <p>Consider how your building will interact with existing and planned city infrastructure.</p>	Not specified
<p>Note: Participants should be mindful of conventional building code requirements, though no codes other than ADA need to be explicitly met (i.e. local building code, IBC or UBC, fire code, etc.)</p>	

## SUBMISSION REQUIREMENTS

### Board

Each entry, whether individual or team, must consist of one (1) 30" x 40" foamcore or rigid poster board presentation board. Drawings must be mounted or drawn directly on the presentation boards in a landscape or portrait orientation. Any two-dimensional media may be used to present concepts including three-dimensional renderings, other digital renderings, photography, collage and hand renderings. All submissions must include a scaled and labeled site plan, building floor plans and a representation of the building elevations and building section information. Elevations and building section information is not limited to conventional oblique drawings. Presentation of the site selection analysis is strongly encouraged, particularly if the site selection was driven by sustainable thinking. LEED is a guideline, not a standard. Do not include any type of LEED 'scorecard' on the board. Please be aware that a 1" x 1" tag will be placed on the lower right hand corner of the board during judging and presentation.

All entries shall be anonymous. Entries will be identified by the accompanying submission form and survey found on page 8. Completed forms must be in a sealed envelope affixed to the back of the presentation board.

### Design Analysis

Each entry must also submit a written design analysis of no more than 200 words discussing both design intentions and sustainable design strategies. The written design analysis may be incorporated directly into the information on the front of the presentation board or alternatively attached to the board in an envelope securely mounted to the back of the board.

### Compact Disk

All entries must include two digital copies of the presentation board and a PDF of the written design analysis on a compact disk media. One digital copy should be submitted in JPEG or TIFF format at 300 dpi, full size; the other copy should be submitted in JPEG or TIFF format at 72 dpi or web resolution.

### Submission Date

The presentation board, with envelope including printed written statement, CD, submission form and survey in an envelope attached to the back of the board must be received by **Monday, May 3rd, 2010 at 12:00 PM** at the DVGBC office located at (Failure to follow the submission requirements could result in disqualification at the judges' discretion.):

1617 JFK Blvd., Suite 999  
One Penn Center  
Philadelphia, PA 19103

## SUBMISSION EVALUATION CRITERIA

- Conceptual design
- Program and design goals fulfillment
- Integration of sustainable design strategies and applicability to LEED criteria
- Creativity in process, design and innovation
- Engagement of environmental, economic, and social aspects of the project
- Overall energy reduction and its documentation
- Special consideration will be given to multi-discipline teams to further reward an integrated design process and encourage collaboration.

## AWARDS

A diverse panel of judges will be assembled to select the winners based on the evaluation criteria. Please consult the competition website for an announcement of judges and awards event time and location.

### DVGBC Competition Awards

Cash prizes will be awarded ranging from \$250 to \$1000. All winners will receive a 1 year student Emerging Green Builders membership to the DVGBC. The DVGBC will also be providing a stipend for the 1st place individual or team to attend Greenbuild 2010.

## SUBMISSION DISPLAY

It is intended that the award winning entries will be displayed in diverse venues such as DVGBC events, the Center for Architecture, the EPA Regional Office, the circulating through participating Colleges and Universities, etc.

## COMPETITION SCHEDULE

January 4, 2010 Spring 2010	Registration available on the DVGBC website. Check the DVGBC competition website often for additional info regarding available lectures, reviews and resources.
May 3, 2010 @ 12:00pm	Latest time for submissions to arrive at DVGBC office location.
Week of May 3rd, 2010	Awards Ceremony – check the DVGBC competition website for location and time.

## DISCLAIMER

DVGBC reserves the right to refuse any entry. DVGBC is not liable for lost or misdirected, late or substantially incomplete entries, as well as any entries containing text/images that identify the designer to jurors. The decisions and opinions of the jurors represent their professional viewpoints, not the opinion of DVGBC. All prizes will be awarded at the discretion of DVGBC and all decisions are final.

All drawings, photographs, photocopies and other physical materials submitted to the competition become the property of the DVGBC and will not be returned. It should be emphasized that this competition is purely conceptual, and the selection of finalists or prize-winners in no way indicates intent of the property owners to implement the proposed schemes. Upon registering for this competition, all competitors agree to waive any and all claims against the DVGBC as a result of the competition. Also, by registering, the entrants transfer unlimited use for publication, exhibition and electronic posting of all entries to the DVGBC. All images must either be created by the team or sufficiently cited. Failure to do so will result in disqualification. This competition, headed by the DVGBC, has no intention to award or grant any building contracts for the designs submitted in this competition.

For additional information and questions, visit [http://www.dvgbc.org/sustainable\\_design\\_competition](http://www.dvgbc.org/sustainable_design_competition). Contact: [sustainabledesigncomp@dvgbc.org](mailto:sustainabledesigncomp@dvgbc.org) with any questions regarding the program or any questions not answered on the above site.

## RESOURCES

It is assumed that the DVGBC web site will be used as the primary means to communicate information regarding the Competition during the process. Please consult the website for forthcoming information regarding site information, tours, case studies, relevant websites and lectures pertaining to the program. [www.dvgbc.org/sustainable\\_design\\_competition](http://www.dvgbc.org/sustainable_design_competition) Become a fan of the DVGBC Sustainable Design Competition 2010 on Facebook, which will be updated with important event information.

## SUBMISSION FORM

TO BE ENCLOSED IN A SEALED ENVELOPE AFFIXED TO THE BACK OF THE SUBMISSION BOARD. ALL ENTRIES MUST BE RECEIVED BY May 3rd, 2010 at 12pm EST. PLEASE SEE THE COMPETITON WEBSITE FOR DELIVERY LOCATION. ALL INFORMATION BELOW MUST BE COMPLETE IN ORDER TO BE CONSIDERED AN OFFICIAL SUBMISSION.

Title of Submission: \_\_\_\_\_

Entrant's Name: \_\_\_\_\_

Team Name: \_\_\_\_\_

School/University Affiliation: \_\_\_\_\_

Mailing Address of participating student(s): \_\_\_\_\_

Contact Information for notification in the event of a winning submission:

Telephone number(s): Cell: \_\_\_\_\_ Home: \_\_\_\_\_

Email(s): \_\_\_\_\_

Name of faculty sponsor or industry professional: \_\_\_\_\_

Faculty sponsor or industry professional telephone (optional): \_\_\_\_\_

Faculty sponsor or industry professional email (optional): \_\_\_\_\_

Would you like to receive information regarding events and student memberships in the DVGBC through Emerging Green Builders via e-mail?

Yes

No, Thanks

Please include this completed form, with a compact disk including your project and a printed narrative in a sealed envelope affixed to the back of your submission board.

**THANKS FOR YOUR SUBMISSION!**

## SURVEY

Please fill out the survey below. (5 being excellent and 1 being poor)

	5	4	3	2	1
How would you rate your knowledge of sustainable design before the competition?					
How would you rate your knowledge of sustainable design after the competition?					
How would you rate the quality and clarity of the program?					
How was your experience in registering for the competition?					
How helpful was the website and information found there to you?					
How well did the competition succeed in increasing your interest in sustainable design?					
How challenging did you find the program? (With 5 the most difficult)					

	Yes	No
Have you competed in this competition before? Would you compete in this competition again? If no, why not? <hr/>		
Have you competed in other sustainable design competitions?		
Are you a member of the DVGBC?		
Are you a member of the USGBC?		
Did you reach out to a client? Why or why not? If so, was it helpful? <hr/>		
Do you have any thoughts about both current students and young professionals being eligible for this year's competition? <hr/>		

