

## **BICYCLE RACK DESIGN COMPETITION** for bicycle enthusiasts, artists, and designers

UO Transportation and Livability Student Group (LiveMove), seeks participants for a design competition for a creative bicycle rack for the University of Oregon. This project celebrates the bicycle as a sustainable mode of transportation, provides a functional transportation amenity, and adds visual appeal to the University of Oregon campus. LiveMove welcomes the creative energy of the greater community to assist in the creation of this important element of street furniture – the bicycle rack.

### *ELIGIBILITY*

This competition is open to anyone living in Lane County, Oregon. Bicycle enthusiasts, Lane Community College, and University of Oregon students are encouraged to apply.

### *PROPOSALS*

#### **Design renderings**

Design renderings must indicate material(s), color(s), and dimensions of the proposed bicycle rack. Renderings must be mounted neatly on one (1) poster board, 1/4" foam core or cardboard. Boards should not exceed 11" x 17"

#### **Written Description**

One (1) page maximum, which describes your overall approach to the project.

#### **Contact Information**

First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

Address: \_\_\_\_\_

If part of a team, please list additional member name(s): \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Web Site: \_\_\_\_\_

Please tell us where you learned of this opportunity: \_\_\_\_\_

For questions concerning the selection process, please contact Cortney Mild at [cmild@uoregon.edu](mailto:cmild@uoregon.edu)

**DEADLINE: 3 PM Friday, April 22, 2011**

## ***SPECIFICATIONS FOR DESIGN***

This project will emphasize the balance between form and function.

### **Function**

The bicycle rack must be designed to withstand the outdoor elements as well as heavy use. The design must accommodate a minimum of thirty (30) bikes for the entire site and be user-friendly for a wide range of cyclists (child-adult).

Any weather-resistant, durable, non-abrasive material that can be easily maintained and does not scratch or damage bicycle frames will be considered. Designers should approach the project as a permanent installation to be installed into a concrete surface, with a minimum 10-year life expectancy.

The rack must be safe for pedestrians and bicyclists. A bicycle should not have to be lifted off the ground to access and be secured to the rack. Racks that would be easy to climb are discouraged.

There must be a minimum two-point connection between the bicycle frame and the rack. In addition, artwork must allow for at least one wheel to be secured to the rack. Most sizes and shapes of frames and wheels should be able to secure to the rack utilizing generic, commonly available u-locks and/or chains utilized by bicyclists.

Artists/designers are encouraged to review the standard bicycle parking included at the end of the application (from APBP and Appendix A of UO's Bicycle Management program <http://uplan.uoregon.edu/plandoc/plandoc.html>).

### **Form**

Applicants that manage to take creative license with the approved bicycle parking systems, while incorporating the dimensions that provide for optimum function, will have a competitive advantage.

Designs should be aesthetically unique, creative, and innovative with universal appeal. Applicants should design their rack to be fit for installation across from the Urban Farm, west of the Gallery walkway. The Gallery Walkway is a high foot and bicycle traffic route, especially during sporting events. References to the Urban Farm, AAA, Art, or Architecture are encouraged.

By submitting a proposal you consent to modification(s) as seen fit by the design committee and Campus Planning Committee. The winning design concept will be subject to approval by the Campus Planning Committee.

## ***BICYCLE RACK LOCATION***

The bicycle rack will be installed across from the University of Oregon Urban Farm pending approval from Campus Planning Committee; University of Oregon, LiveMove, and the Campus Planning Committee reserve the right to relocate the rack if the location is not approved or after the initial installation.



**Figure 1: Bicycle Rack Location**

## ***DESIGN SELECTION***

The Selection Committee will be comprised of bicycle advocates, AAA, Design Bridge, PPPM, and Campus Planning representatives. This group will review all submissions.

## ***APPLICATION PROCEDURES***

Submit proposals by **3 PM Friday, April 22, 2011** to:

**Mail:** Department of Planning, Public Policy & Management  
Attn: Cortney Mild  
1209 University of Oregon  
119 Hendricks Hall  
Eugene, OR 97403-1209

**E-mail:** [cmild@uoregon.edu](mailto:cmild@uoregon.edu)

Jeff Mapes, author of *Pedaling Revolution*, will announce the Selection Committee's decision at a LiveMove Speaker Series event on May 19<sup>th</sup>. All applicants are invited to attend the event and share their design concepts during the social hour preceding Mr. Mapes's presentation.

*Although special care will be taken in the handling of all submissions, LiveMove cannot be held responsible for any materials that are lost or damaged while in our possession or in transit.*



# RESOURCES

## Short Term Bicycle Parking

### Description

Short term bicycle parking facilities are best used to accommodate visitors, customers, messengers and others expected to depart within two hours. Bicycle racks provide support for the bicycle but do not have locking mechanisms. Racks are relatively low-cost devices that typically hold between two and eight bicycles, allow bicyclists to securely lock their frames and wheels, are secured to the ground, and are located in highly visible areas. They are usually located at schools, commercial locations, and activity centers such as parks, libraries, retail locations, and civic centers.


### Graphics

## 1. THE RACK ELEMENT

**Definition:** the rack element is the part of the bike rack that supports one bicycle.


The rack element should:

- Support the bicycle upright by its frame in two places
- Prevent the wheel of the bicycle from tipping over
- Enable the frame and one or both wheels to be secured
- Support bicycles without a diamond-shaped frame with a horizontal top tube (e.g. a mixte frame)
- Allow front-in parking: a U-lock should be able to lock the front wheel and the down tube of an upright bicycle
- Allow back-in parking: a U-lock should be able to lock the rear wheel and the seat tube of the bicycle




Comb, toast, school-yard, and other wheel-bending racks that provide no support for the bicycle frame are NOT recommended.


The rack element should resist being cut or detached using common hand tools, especially those that can be concealed in a backpack. Such tools include bolt cutters, pipe cutters, wrenches, and pry bars.




**INVERTED "U"**  
One rack element supports two bikes.




**"A"**  
One rack element supports two bikes.



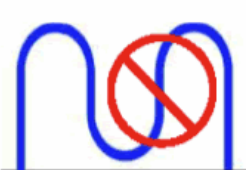
**POST AND LOOP**  
One rack element supports two bikes.




**COMB**  
One rack element is a vertical segment of the rack.



**Not recommended**



**WAVE**  
One rack element is a vertical segment of the rack. (see additional discussion on page 3)



**TOAST**  
One rack element holds one wheel of a bike.

### Bike Rack Recommendations

Source: Association of Pedestrian and Bicycle Professionals, 2002

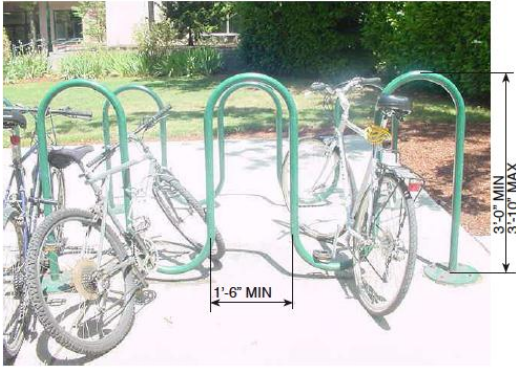


Custom artistic racks

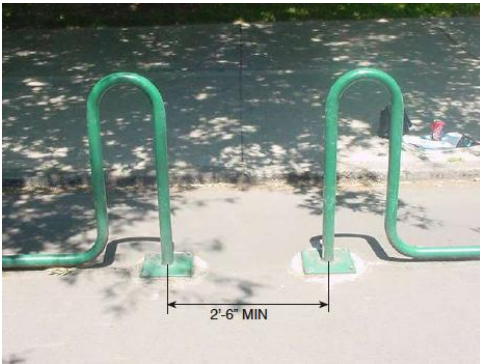


Simple post-and-ring style rack

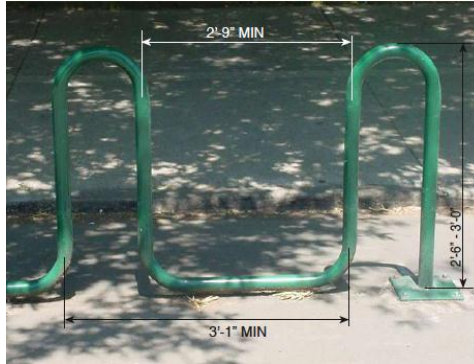
UO Standard Bicycle Parking Source: UO Bike Management Program



Wave



Hairpin



Straight Hoop Parking



Diagonal Hoop Parking

