

Arizona

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University of Arkansas
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California

Academy of Art University
School of Architecture
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California Polytechnic State University,
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College of Architecture
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Capital Program
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PI: Thomas Potpinka
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Florida

Florida Atlantic University
School of Architecture
PI: Aron Temkin
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University of Florida
School of Architecture
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Georgia

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Hawaii

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Humanities and Fine Arts
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University of Notre Dame
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Illinois

Illinois Central College
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Architecture Program
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Fine Arts Department
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Maryland

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Massachusetts

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and Computing
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New Mexico

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New York

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Ohio University

Human and Consumer Sciences
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University of Cincinnati

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University of Texas at Arlington

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University of New South Wales
School of Design Studies, College of Fine Arts
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University of Waterloo
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Ecuador

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Germany

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Hochschule Rosenheim

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Greece

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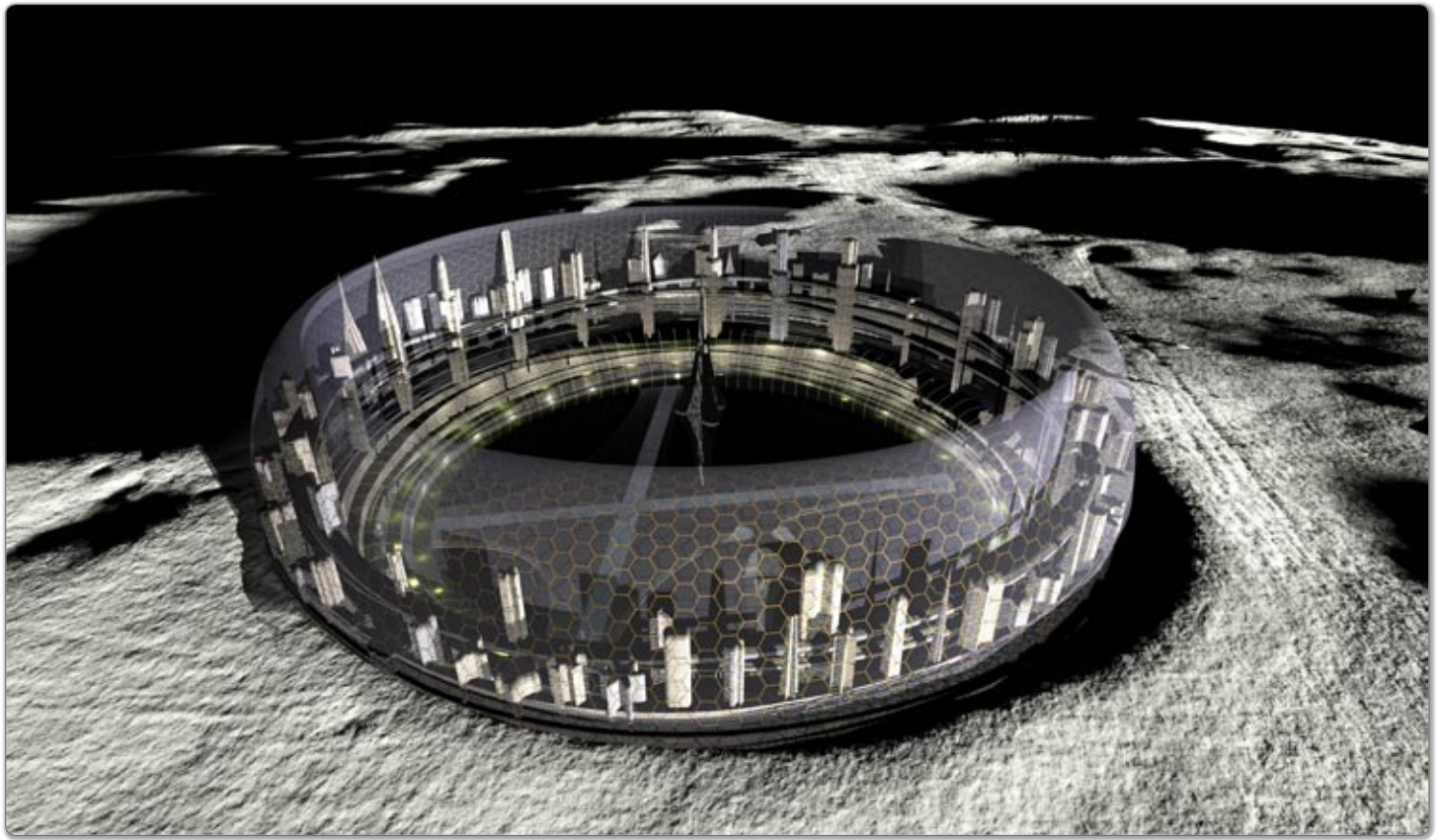
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School of Art and Design
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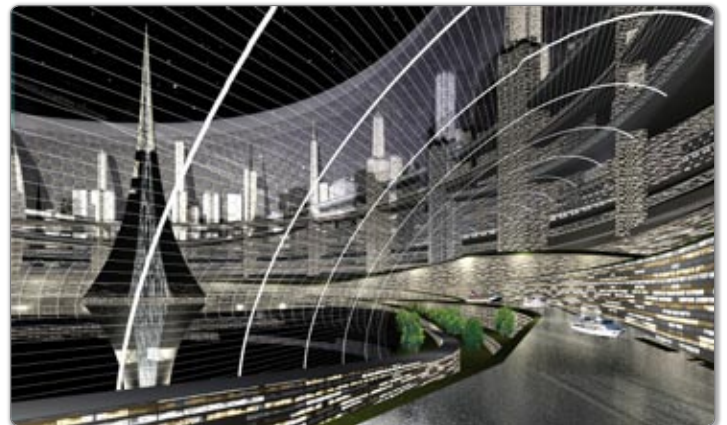
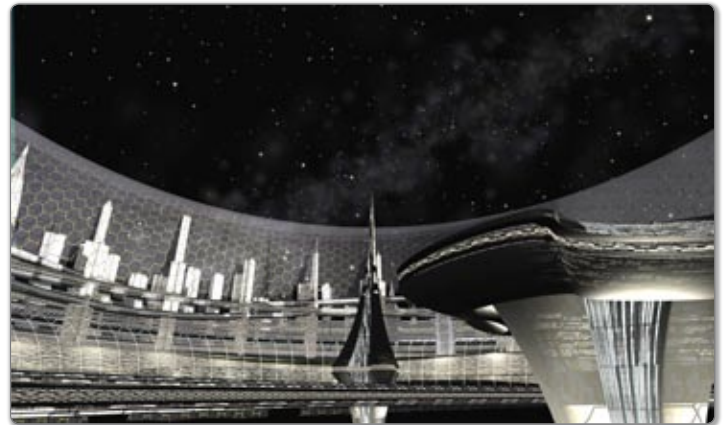
Envisioning A Lunar City

by **Kevin Cespedes**

The Boston Architectural College and Wentworth Institute of Technology

Crater city is a manifestation of lunar colonization over a period of several centuries. It was born out of a terrestrial crisis of natural resource exhaustion and overcrowding. This first Lunar City emerged from a darker period of desperate mining for Helium-3 (He-3) and water in the form of ice. Political and economic corruption fueled the crisis, which led to a final rebellion resulting in the independence of free city-states upon the moon.

Crater city has all the physical characteristics of many of the urban enclaves one might expect on Earth, but of Lunar dimensions. The 'Rim' is the main feature of the city, a dense super skyline of mile-high towers agglomerated in a ring pattern 20 km in diameter. It is veiled within a toroidal superstructure of embedded Photovoltaic (PV) mesh in order to take advantage of the continual 360 degree sunlight exposure that exists at the moon's south pole. Crater City lies embedded on the inner slopes of what was then known as Shackleton Crater, whose basin is one of the few locations in the South Polar Region that sees no light (with temperatures reaching minus 400 F). The city, as is typical of mining towns that grow around such naturally occurring material wealth, exhausted nearly all of the resource deposits some time ago. The subsequent use of the basin became a municipal historic site dedicated to the task of research and tourism. The city continues its development as a post industrial society. The city became a pleasure dome. Low gravity jump sports such as gliding and bungee become popular tourist activities. Visitors can walk the parklands at the lower base of the ring through open courtyards and plazas, enjoy low gravity water sport along the river viaduct, or pursue the more urbane and off-worldly pleasures of the lunar city.



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