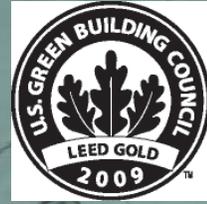


# Castetter

UNM DEPARTMENT OF BIOLOGY ALBUQUERQUE, N.M.

# Hall

*South Addition*



## LEED® FACTS

UNM CASTETTER HALL  
ALBUQUERQUE, N.M.

LEED FOR NEW CONSTRUCTION  
CERTIFICATION AWARDED AUG. 7, 2009

|                                 |       |
|---------------------------------|-------|
| GOLD                            | 40*   |
| SUSTAINABLE SITES               | 8/14  |
| WATER EFFICIENCY                | 2/5   |
| ENERGY & ATMOSPHERE             | 9/17  |
| MATERIALS & RESOURCES           | 6/13  |
| INDOOR ENVIRONMENTAL<br>QUALITY | 13/15 |
| INNOVATION & DESIGN             | 2/5   |

\*OUT OF A POSSIBLE 69 POINTS



30% WATER SAVINGS

30

31% ENERGY COST SAVINGS

31

80% FSC CERTIFIED WOOD

80

“Having strong programs in ecology, our department is proud to have the first LEED-certified project on the UNM campus. The quality of the spaces created by the LEED requirements has insured the best possible environment to support years of successful research. Such research efforts bring prestige, funding and outstanding training opportunities to our state and university.”

*E.S. “Sam” Loker, Ph.D., Professor  
UNM Department of Biology Chair*



**Owner’s Representative:**

Christopher Carian  
UNM OCP  
1841 Lomas Blvd. NE  
Albuquerque, NM 87131  
505-277-2236

**Structural Engineer:**

Chavez-Grieves Consulting Engineers Inc.

**Electrical Engineer:**

The Response Group

**Civil Engineer:**

The Hensley Engineering Group

**Laboratory Consultant:**

Research Facility Design

**Project Size:**

15,867 s.f.

**Total Project Cost:**

\$4.3 million

## UNM CASTETTER SOUTH ADDITION

# “LEED-ing” the Way

The UNM Department of Biology goes green.

### PROJECT BACKGROUND

The Department of Biology’s research has advanced conservation programs including biodiversity, water management, global climate change and the impact of pathogens and parasites on the health of people globally. Once the addition is completed, the department will offer high-caliber training for students not easily fulfilled elsewhere in the state while enabling the University of New Mexico to maintain its competitiveness in seeking funding through organizations including the National Institutes of Health and the National Science Foundation. The research laboratories will provide opportunities for students and faculty to work on health-related problems affecting the world while also allowing researchers to contribute to critical issues in New Mexico such water quantity and quality. When the facility earned a LEED® Gold rating Aug. 7, 2009, the \$4.3 million addition became UNM’s first building to achieve LEED certification.

### A NEW FIRST FOR UNM

While on the surface this may not seem like a big deal, it is a substantial benchmark in UNM’s long history. The State of New Mexico has mandated that any building on the state’s university campuses meet or exceed the U.S. Green Building Council’s (USGBC) silver-level certification. And, in the past, high-tech research facilities have come with a high energy cost.

### STRATEGIES AND RESULTS

Because laboratories are traditionally high energy users, mechanical systems filter and re-circulate already conditioned air as much as possible, keeping the interiors contaminant-free while lessening demand on heating and cooling systems. Efficient mechanical systems, coupled with building orientation and reduction of solar gain, allow the building to consume 31.5% less energy overall than similar buildings on campus. Plentiful natural light and operable windows enhance the environmental quality for the building’s inhabitants, even those working in the laboratories.

The paints, adhesives and sealants feature low chemical emissions. Composite wood products have no added urea-formaldehyde. More than a third of the materials used for the project contain recycled content and 64% of construction waste was recycled.

### ABOUT UNM’S DEPARTMENT OF BIOLOGY

The Department of Biology’s research activities generate \$6-\$13 million annually. The department is committed to providing strong programs in ecology, parasitology, comparative immunology and genomics.