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  University of Colorado at Boulder
- Construction Technology/ISOD, Program Plan
  Red Rocks Community College
- North Classroom Building Renovation
  Auraria Higher Education Center
- Fulginiti Pavilion Phase 2 Interiors
  University of Colorado Anschutz Medical Campus
- Lowry Campus: Master Plan
  Community College of Aurora
- Lowry Campus: Building 903 Remodel / Addition
  Community College of Aurora
- Lowry Campus: Building 859 Improvements – Planning Study
  Community College of Aurora
- Education 1 Building Anatomy Lab Renovation
  University of Colorado Anschutz Medical Campus
- Student Success Center Remodeling, Nielsen Library
  Adams State College
- IT Department / Interactive Classroom Renovation
  Arapahoe Community College
- Campus Master Plan
  Red Rocks Community College

Other Example Projects:

- Sixth Street Residence Halls
  University of Arizona  LEED Platinum
- Student Success Center Master Plan
  Adams State College
- Classroom Renovation, Science & Engineering Building
  UCCS
- Health and Wellness Center Program Plan
  University of Colorado Anschutz Medical Campus
- North Classroom Building Expansion Study
  Auraria Higher Education Center
- Programming and Concept Studies, Education Building
  Leeward Community College, Honolulu, Hawaii
- Aerospace and Mechanical Engineering Program Plan
  University of Colorado at Boulder
- Sixth Street Residence Halls
  University of Arizona
- Industrial Science and Operations Building Program Plan
  Red Rocks Community College
- Science and Engineering Building
  University of Colorado at Colorado Springs
Other Example Projects
(continued)

Science and Engineering Building Program Plan
University of Colorado at Colorado Springs

Campus Village Apartments
Auraria Higher Education Center

LASP Space Technology Research Center
University of Colorado at Boulder

Education 1 - Medical Education Building
University of Colorado Anschutz Medical Campus

Center for Bioethics and Humanities
University of Colorado Anschutz Medical Campus

Library Plaza
University of Colorado at Colorado Springs

Athletic Facility Study
Red Rocks Community College

Frasier Hall Program Plan
University of Northern Colorado

Libby Hall Dining Renovation
University of Colorado at Boulder

Farrand Hall Dining Renovation
University of Colorado at Boulder

Memorial Pavilion
United State Air Force Academy

Highland District Housing
University of Arizona

Residence Life Administration Center
University of Arizona

Engineering Building Expansion and Renovation
UCSS

Building 402 and Building 406 Remodeling
University of Colorado Anschutz Medical Campus

Northwest Campus Program Plan and Concept Design
Pima Community College, Tucson

East Campus
Pima Community College, Tucson

Academic and Performing Arts Center
Auraria Higher Education Center

Cadet Chapel Renovation
United States Air Force Academy

Classroom Office Building
Auraria Higher Education Center

Auraria Higher Education Center Master Plan Update
Auraria Higher Education Center

Vehicle Dispatch Building Remodeling
United States Air Force Academy

Visitors Center Expansion Study
United States Air Force Academy

Cadet Chapel Feasibility Study
United States Air Force Academy

Environment and Natural Resources Building
University of Arizona

Environment and Natural Resources Complex Master Plan
University of Arizona

Community Center Chapel
United States Air Force Academy

Learning and Resource Center
Red Rocks Community College

Child Care Center
University of Southern Colorado

Library Master Plan
Regis University

National Wild Animal Research Center
Colorado State University

Aerospace and Mechanical Engineering Building
University of Arizona

Integrated Engineering Complex Master Plan
University of Arizona

Parking and Transportation Center
Auraria Higher Education Center

Laboratory for Atmospheric and Space Physics, Phase 1
University of Colorado Boulder

Lawrence Street Pedestrian Mall
Auraria Higher Education Center

Architecture School Competition
Arizona State University

North Classroom Building
Auraria Higher Education Center
LASP Space Technology Research Center
Program Plan
University of Colorado at Boulder
Boulder, Colorado

At the core of the nationally recognized Laboratory for Atmospheric and Space Physics are the spirit of space exploration, science and research.

Research at the laboratory focuses on the design, fabrication, testing, and calibration of instruments for space probes, followed by operations control of those instruments in space. LASP needs changed dramatically over time because of the huge success of their programs.

Phase 1 was the first building in the University of Colorado Research Park, for which we also did the Master Planning. It was the first building on the new Research Park at the time. Initially, the LASP was to be relocated in an existing warehouse utilized by the Housing department. Our initial assessment suggested that this building was not suitable for use as a laboratory so we were then asked to do a study (comparison between utilizing the existing building and a new building). After completion of the study, it became obvious that a new building was needed, thus Phase 1 was implemented.

As part of the design, future expansion was planned for both horizontally and vertically (future 3rd floor on top of Phase 1). The compact, 2-story portion houses the primary work areas, laboratories and offices (including modular/flexible wet labs, computational labs, interdisciplinary research areas), while specialized functions (3D visualization environment and video conferencing) are located in single story wings to its east. The building connects to the Rocky Mountains and nature through a solarium and outdoor terrace at the southern edge of the main block. The solarium evokes the spirit of space exploration – it is transparent, open-ended, and asymmetrical, made of steel, glass, and aluminum. Awarded with the AIA Denver Honor Award.

As LASP program and space needs began to intensify, we were asked to provide a program plan for Phase 2, which was completed quickly and then transitioned into a full service design and construction project, occupied in 2005. Even then, space needs continued to grow, with some ancillary programs in other remote locations. Vertical expansion option was studied for cost and practical implications. Today, this remains a viable expansion option to bring programs together in this central facility.
LASP Space Technology Research Center
Addition
University of Colorado at Boulder
Boulder, Colorado

Designed to serve as an interface between scientists and engineers collaborating on aerospace projects, this project was funded in part with research grant money aimed at furthering outer-atmosphere research. NAC|Architecture designed the original building and a 45,000 SF addition a number of years later. This was the first building designed for the University of Colorado research park and needed to set the tone for the entire campus, much like the new WSU building in Everett will need to do.

Issues Addressed During Design: Part of the mission of this building is to provide a way for visiting groups to experience the nature of the research programs: the first floor of the building allows walking tours, and the program spaces feature glass walls that allow views into the various testing environments. Walking the fine line between optimizing the lab environment and allowing visual access, the building provides insight into each research zone while maintaining the extremely high technical requirements of the spaces. These spaces include class 100 clean spaces, advanced humidity control, vibration isolation, and acoustic dampening. Together the science, engineering and operations capability at LASP creates a multidimensional core research environment with strong ties to University of Colorado. Students from a wide range of academic disciplines work within the facility in a discovery-style learning environment.

The 45,000 SF addition, also designed by NAC|Architecture, expands the capabilities of the research facility through the addition of office and clean room facilities for the design, fabrication, and testing of space instruments by the Laboratory for Atmospheric and Space Physics. A key issue addressed in this during the design of the addition was to create an exterior aesthetic that was compatible with both the original building and the historic nature of the campus with its heavy use of stone.
The Advanced Manufacturing, Construction Technology and Energy Production department is one of the fastest growing programs on the Red Rocks campus. NAC|Architecture worked with the College to develop a program plan calling for a renovation and addition to this cluster, creating space for scenario-based education environments.
North Classroom Building – Renovation
Auraria Higher Education Center
Denver, Colorado

SIZE
7,700 GSF

FINAL COST
$500,000

SCHEDULE
Completed in 2008

REFERENCE
Dean Wolf, former Executive Vice President for Administration, 303.423.3978 (home)
Barb Weiske, Executive Vice President for Administration, 303.556.3445

The design and renovation of Levels 4 and 5 of the North Classroom Building was an opportunity to address new spatial needs for the Auraria campus, while maintaining the original structure and working within an incredibly tight schedule. The schedule was a major driver in the design, with the Architect selection in the end of March 2008, Bid set released in less than two months, and construction completed for the start of the semester in August 2008.

Working with Auraria and UCD, we developed a strategy to fit the budget and schedule. Consensus was built among the Departments whereby compromises evolved quickly on the remodeling needs. Acoustical privacy for offices and easy visual surveillance of the Counseling Center were paramount. Various levels of remodeling were established to fit the needs of the UCD Departments while also allowing choices to be made for the appropriate level of remodeling for each group. Extent of remodeling ranged from new finishes only, to complete remodeling. Departments included: CLAS Advising, Psychology, Math, English Writing Center, CLAS Dean’s Suite, and GES.
The Fulginiti Pavilion on the UCD Anschutz Medical Campus is a unique project and new home of the Center for Bioethics and Humanities (CBH) and the Department of Interprofessional Education. The project includes conference rooms, faculty offices and support spaces for the academic departments. The original building shell was completed in 2007.

The centerpiece of the facility is an in-the-round Forum space with a 142 seat capacity. Designed to accommodate multiple functions, the Forum facilitates CBH’s mission to engage “today’s and tomorrow’s health professionals and the community in substantive, interdisciplinary dialogue about the ethical issues surrounding contemporary healthcare.” As such, the Fulginiti Pavilion will welcome eminent scholars and experts worldwide. The design involved complex lighting and A/V technologies while resolving significant acoustical issues. Materials were carefully selected and detailed to create an appropriate environment in support of this important use.

A two-story Lobby with glazed perimeter and maple ceiling functions as a reception and pre-function space. Additional interior spaces include a flexible Art Gallery to house rotating exhibits and a Library/Conference Room.

The project used design/bid/build project delivery. The general contractor’s base bid (plus all ten add alternates) was below UCD’s construction budget. The project is pursuing LEED Gold for Commercial Interiors.
Lowry Campus – Master Plan
Community College of Aurora, Lowry Campus
Aurora, Colorado

We worked with the Community College of Aurora to develop a long term plan for campus growth that focused on improving existing buildings and concepts for improved space utilization and learning environments. From this long term plan, we then developed a phased implementation plan with cost loaded information to allow establishment of budget and improvement priorities for several smaller projects. This allowed the College to plan out several short term projects ranging in $1M increments that could be implemented based on priorities and budgets.
Building 903 Remodel / Addition
Community College of Aurora, Lowry Campus
Aurora, Colorado

The Lowry Campus lacks an identity. As an outgrowth of our Master Plan, we suggested a new entrance as a “front door” to the main building that was formerly a loading dock. The remodeling also included Student Services and a Welcome Desk in the main Lobby, a community room, and other miscellaneous remodeling for rest rooms and other public spaces. The project was completed while the rest of the building was occupied. A second phase included renovation of two science labs and creation of new offices in two vacated spaces. The exterior scope included the reconfiguration of existing pedestrian circulation, creation of a new entrance plaza and seating to compliment the architectural improvements, a new outdoor terrace and seating area overlooking the Student Quad, reconfiguration of infrastructure, and new landscaping. All design work was done with the consideration of long-term goals outlined in CCA’s Lowry Campus Master Plan.
Building 859 Improvements – Planning Study
Community College of Aurora, Lowry Campus
Aurora, Colorado

NAC|Architecture provided an assessment to improve overall building utilization, quality of student space, entrances, and use conversions. The building is remote from the main campus buildings. Included in the study were options to better connect it with the rest of the campus.

SCHEDULE
Completed: 2011

REFERENCE
Community College of Aurora
Linda Bowman, President, 303.360.4780, linda.bowman@cccs.edu
Bernice Harris, Ph.D., Community College of Denver
303.218.0247 bernice.harris@ccd.edu

Utilization Improvement Strategies

Before

After
Education 1 Building – Anatomy Lab Renovation
University of Colorado Anschutz Medical Campus
Aurora, Colorado

The Gross Anatomy Labs were upgraded to provide dedicated vertical exhaust risers and ductwork serving individual dissection tables. The work also includes air valves and controls, power, lighting, and fire protection modifications. A new rooftop exhaust fan provides for the safe dilution of embalming material into the atmosphere. The renovation creates a healthy environment in state-of-the-art anatomy labs as part of the medical education curriculum.
The new Student Success Center, designed and funded specifically to strengthen Hispanic Serving Institutions, represents the first phase of renovation to the Nielsen Library. Consolidating Student Services into a central location provides the opportunity to serve the needs of underserved and disadvantaged students, improving student success rates.

A Welcome Kiosk at the main entrance, along with a central array of glass walled offices, offers students clear access to services such as academic advising, disability services and assessment testing.

Future phases of renovation to the Nielsen library include the addition of classrooms and administrative offices to the main level and relocation of library services to the 2nd and 3rd levels of the building.
Phase 1 of this occupied remodel project relocated the IT Department to a vacated space on the ground floor. In addition to staff offices, conference room, break room and workroom, the remodel also provided a server room with dedicated HVAC system, back-up cooling and emergency generator.

The newly vacated IT space had been proposed for remodel as four traditional classrooms. The Arapahoe Community College had renovated all of their existing classrooms during the past several years, incorporating technology at the teaching wall, fixed lecterns, and table and chair seating. As the project was discussed, the College determined that they would like to explore other possible classroom configurations, specifically arrangements that would encourage collaboration in both large and small group settings. This resulted in one Interactive Classroom for 44 students and two Studio Classrooms with capacity for 30 and 24 seats.

The Interactive Classroom is designed to encourage discussion and interaction between students and instructors. While a presentation wall, primarily intended as a resource to initiate discussion, still lines the front of the classroom, the wireless technology and wide table spacing allow the instructor to move throughout the room while teaching. A monitor at the back of the room allows the instructor to see what is currently being projected without turning around or being tied to the front of the room. This and a movable lectern, as well as the easily navigated aisles, free the instructor from a static position at the front of the classroom and encourage movement throughout the space. Technology is accessible at several locations and can be operated by remote. The entire room is ADA accessible.

In the two Studio Classrooms, four to five tables are arranged with five to six students per table. Each table is equipped with a computer that the students can use to retrieve teaching materials, while the instructor presents on a central wall. The Studio arrangement encourages students to work in teams, fostering collaboration and joint learning.
NAC|Architecture created a 13 year Master Plan that analyzed the ultimate buildout of the site with respect to the existing buildings and their conceptual framework, the riparian nature of the site, and the commuter-type student body.

Components included:

- Site evaluation, verification
- Campus Wayfinding Strategies
- Site Zoning
- Master Planning for phased design, construction
- Higher Education Facility
- Offices
- Classrooms
- Flexible space
- Construction Technology Labs

**SIZE**
140 acres, 350,000 GSF existing, 470,000 GSF proposed, 820,000 GSF maximum buildout

**REFERENCE**
Cliff Richardson, former President, Red Rocks Community College, 303.556.2412 (CC of Denver President)
Gary Desmond | AIA, LEED GA
Principal-in-Charge

**EDUCATION**
Bachelor of Architecture, University of Michigan, 1966

**REGISTRATIONS**
Leadership in Energy and Environmental Design Accredited Professional (LEED AP)
Elected to College of Fellows of AIA in 1995
Registered Architect in Colorado, Arizona, California, Michigan, Iowa, South Dakota
NCARB Certified

Gary Desmond is a founding principal of NAC’s Denver Office and has received numerous honors, including Architect of the Year from AIA Denver in 2005. During his 45+ year career as an architect, Gary has directed design teams for several of NAC|Architecture’s most acclaimed residence halls. His passion is making excellent design happen through collaboration with clients, the design team and the community. His leadership helps ensure that the client’s vision, goals, and needs are understood and accomplished with exceptional success in making great places for the client’s purposes.

He has earned a reputation for providing a high level of client service, leading teams in the creation of well-detailed project deliverables from master plans to building designs.

**Select Project Experience**

**University of Colorado Anschutz**
Aurora, Colorado
Education 1 Building
Fulginiti Pavilion

**University of Colorado**
Colorado Springs, Colorado
Osborne Center for Science & Engineering Classroom Remodel

**University of Colorado Denver**
Denver, Colorado
Academic Building 1
Health and Wellness

**University of Colorado Boulder**
Boulder, Colorado
LASP
Kittredge Residence Halls

**Auraria Higher Education Center**
Denver, Colorado
Kenneth King Academic and Performing Arts Center
AHEC North Classroom Building and Expansion Study
Parking and Transportation Center
Campus Village Student Apartments
Child Care Center Concept Design
Auraria Redevelopment
AHEC Auraria Housing

**Red Rocks Community College**
Lakewood, Colorado

**Community College of Aurora**
Aurora, Colorado
Building 901 and 903
Level 1 Student Success Center
Nursing Building

**Community College of Denver**
Denver, Colorado
St. Francis Center

**University of Arizona**
Tucson, Arizona
Arbol de la Vida Hall
Likins Hall
Pueblo de la Cienega
Villa del Puente
Aerospace and Mechanical Engineering Building
School of Natural Resources and the Environment Building

**Arizona State University**
Tempe, Arizona

ASU Architecture School