D.L. Adams Associates (DLAA) provides consulting and design services in acoustics, performing arts, IT and low-voltage systems with offices located in Denver, CO and Kailua, HI. Since 1979, the firm has grown internationally and provides consulting and design services for clients throughout the United States, South America, Europe and the Pacific Rim.

**DESIGN**
Architectural Acoustics (Room Acoustics, Sound Isolation, etc.)
Video Conferencing and Distance Learning System Design
Theatre Consultation
Performance Lighting and Stage Rigging Systems Design

**ENGINEERING**
Environmental Noise Assessment and Impact Analysis Studies
Transportation Noise and Vibration
Industrial Noise Control Engineering
Building Machinery and Mechanical System Noise and Vibration Control

**TECHNOLOGY**
Information Technology, Telecommunications and Low-Voltage Systems Design
Audio-Visual System Design
Digital Signage Systems Design
CATV and CCTV Design
ADAMS STATE UNIVERSITY MUSIC BUILDING & LEON RECITAL HALL, Alamosa, CO
Adams State University renovated their music building and 220-seat recital hall to correct issues with the building systems and acoustics. The recital hall features variable acoustics and a 21-rank pipe organ. We provided acoustical consulting and designed the recital hall audio recording system and AV infrastructure to allow for future expansion.

AIMS COMMUNITY COLLEGE STUDENT CENTER, Greeley, CO
We provided room acoustics, sound isolation, and mechanical noise and vibration control for this 51,000 square foot student center. This project posed several challenges including noise abatement of large air handling units located next to the library and classrooms. We provided consultation for sound isolation of the student common areas designed to support student functions such as live bands. The centrally located common areas are adjacent to acoustically critical spaces such as the library, conference rooms and classrooms.

AIRFORCE ACADEMY, ARNOLD HALL, Colorado Springs, CO
Arnold Hall serves the United States Air Force Academy as the entertainment hub for both Cadet Wing and community functions. Hosting diverse functions such as briefings, concerts, dances, Broadway shows, and official Academy functions, the historic facility requires constant adaptation and flexibility. The theatre has a full-fly counter-weight rigging system with the grid at approximately 70 feet above the stage. The counterweight rigging was replaced and motorized-assist lift units added to lighting pipes above the stage. The entire ETC theatrical lighting system was upgraded, adding circuits and additional control positions. D.L. Adams Associates provided the theatre consulting and systems designs for the project while meeting the stringent requirements for USAFA design and CAD standards, as well as LEED and historic preservation guidelines.

ASHLAND UNIVERSITY ATHLETIC COMPLEX, Ashland, OH
Design of the technology systems for the new complex.

AURARIA CAMPUS, ADMINISTRATIVE BUILDING, Denver, CO
We provided recommendations for wall constructions for sound isolation and mechanical noise and vibration control for the lobby space and to control noise from the mechanical system chiller in the building.

AURARIA CAMPUS – UNIVERSITY OF COLORADO DENVER, STUDENT COMMONS BUILDING, Denver, CO
The new Student Commons Building at the University of Colorado Denver campus includes two 150-seat lecture halls, a 250-seat auditorium, many small meeting rooms, classrooms and campus Visitor Center all equipped with digital audio-video systems. The lecture halls and auditorium have multiple video projectors and cameras for presentations and distance learning. Instructor courses are recorded by an integrated Media Retrieval System. Centralized control of the cameras and recording is provided in the Educational Support Services Control Room. Flat panel displays with local AV inputs are available in most rooms for impromptu meetings. We provided AV systems design and acoustical.
AURARIA PLAZA BUILDING CHILLER, Denver, CO
Noise from rotary screw chillers was easily audible in classrooms across a hallway. Improvements to the vibration isolation of the chiller significantly reduced noise levels in the classrooms.

AURARIA SCIENCE BUILDING, Denver, CO
The existing 143,000 sf three story Science Building was renovated and a new 181,346 sf four story building was added as part of the $121M project. This project consolidated and added new offices, classrooms, teaching and research labs for Biology, Chemistry, Anthropology, Earth Sciences, and Math & Computer Sciences as well as teaching and research labs for the Community College of Denver, Metropolitan State College of Denver, and the University of Colorado Denver. We provided acoustical consulting services, i.e., room acoustics, sound isolation and mechanical noise and vibration control. The project received LEED Gold Certification.

AURARIA-ST. CAJETAN, Denver, CO
We provided acoustical consulting services for this historic landmark. Design included flexibility to support a range of activities from presentation of audio-visual media, to music recitals. Variable acoustics were designed to fulfill this requirement including window draperies that both darkened the space and provided variable sound absorption for the space.

BRIGHAM YOUNG UNIVERSITY-IDAHO, IDAHO CENTER, Rexburg, ID
The 435,000 sf multi-purpose building includes a 15,000-seat auditorium and large activities center with multiple gyms for intramural sports. The auditorium is designed for multipurpose use by choirs, orchestra, other types of musical performances, as well as, presentations, student commencements, devotionals, church services, etc. We provided acoustical consulting and the 3D room model used for the design of the sound system for this very large space.

BRIGHAM YOUNG UNIVERSITY-IDAHO ELIZA R. SNOW PERFORMING ARTS CENTER, Rexburg, ID
The Snow Performing Art Center was renovated to add a Black Box theatre, Multipurpose Rehearsal Room, individual and group practice rooms, percussion practice rooms and classrooms for theatre instruction. We provided acoustical consulting, theatre consulting, AV and theatre systems designs. The Black Box theatre includes a full pipe grid with a rolling trolley catwalk to allow safe and easy access to the lighting instruments, drapery, scenery, etc. that are suspended on the pipes.

BRIGHAM YOUNG UNIVERSITY-IDAHO HYRUM MANWARING STUDENT CENTER, Rexburg, ID
The BYU Idaho Manwaring Student Center in Rexburg, ID was renovated to better serve student needs. The facility includes dance studios, meeting rooms, multipurpose spaces and a large food court style dining area. We provided acoustical consulting services to address concerns with room acoustics, sound isolation and mechanical noise.
CASPER COLLEGE GERTRUDE KRAMPERT THEATRE, Casper, WY
The Krampert Theatre was renovated to improve sightlines, upgrade theatrical lighting and provide safe access to lighting and rigging over the stage. This required a change in the seating layout and the installation of new motorized rigging line sets and catwalks in the main theatre. A Black Box theatre, dance rehearsal and dance performance theatre were also added to the building. The Black Box and Dance Rehearsal spaces were designed with new sound and lighting systems. We provided acoustical, theatrical and AV consulting and designs.

CASPER COLLEGE LECTURE HALL, Casper, WY
We provided acoustical consulting and AV design services for this state of the art lecture hall including the room layout, sightline analysis, sound isolation, mechanical noise and vibration isolation, room acoustics, AV equipment selection and control booth orientation and placement.

CASPER COLLEGE MUSIC BUILDING, Casper, WY
Casper College desired to consolidate the music program with the addition of the College of Music Building that includes a 450-seat auditorium, Choral, Instrumental, Percussion, small ensemble and general practice room rehearsal spaces. We are providing the acoustical consulting, audio-visual, technology and security systems designs. The auditorium is equipped with variable acoustics and a digital recording system that connects to the recording studio for post-production work.

CENTRAL WYOMING COLLEGE LIBRARY, Riverton, WY
Acoustical consulting services included mechanical noise and vibration control to achieve established acoustical criteria for this new library. Acoustical analysis and sound isolation recommendations for the Community Room, Kitchen Area and Dining Area were also included.

COLORADO COLLEGE EDITH KINNEY GAYLORD CORNERSTONE ARTS CENTER, Colorado Springs, CO
The Edith Kinney Gaylord Cornerstone Arts Center was designed to encourage collaboration between the artistic disciplines. The entire building was designed to be a performance space, with two Studio theatres, a film screening room with 7.1 surround sound playback, several intelligent classrooms and multiple flexible rehearsal spaces. The facility also includes the 450-seat South Theatre that is equipped with an advance electro-acoustic system to vary the room reverberation time between 1 second for theatre performance and presentation uses, to 2.5 seconds for concert performances. We provided acoustical and AV systems design for this new arts facility.

COLORADO MOUNTAIN COLLEGE ACADEMIC BUILDING AND STUDENT CENTER, Steamboat, CO
We provided acoustical recommendations for classrooms, meeting spaces, Dining Center and 200-seat auditorium/lecture hall. As programming requirements were better defined, we were asked to provide theatrical consulting and systems designs for the auditorium. Our designs allow multipurpose use of the space for presentations, as well as, performances.
COLORADO MOUNTAIN COLLEGE CASCADE LEARNING CENTER, Vail, CO
Services we provided included acoustic analysis and consulting for a multi-use building that houses classes for dance, art, and performing arts. Additionally, our services were required for a 250-seat auditorium was incorporated which is used for movies and performing arts.

COLORADO SCHOOL OF MINES BROWN HALL ENGINEERING BUILDING, Golden, CO
Brown Hall, at the Colorado School of Mines, is an Addition and Renovation to the existing Brown Hall. The hall houses various engineering disciplines at the school, and contains offices for faculty and graduate students, classroom and laboratory spaces, student work spaces, and a large lecture auditorium. DLAA consulted on HVAC and mechanical systems noise and vibration, room acoustics, and sound isolation.

COLORADO SCHOOL OF MINES, MARQUEZ HALL, Golden, CO
Marquez Hall is a state-of-the-art $25 million, teaching and research facility dedicated to Petroleum Engineering. There are a total of 60,000 sf of classrooms and laboratory equipped for interactive presentations. We provided acoustical consulting and recommended sound isolation, mechanical noise control and room acoustics recommendations.

COLORADO STATE UNIVERSITY CLARK BUILDING, Fort Collins, CO
The 255,000 sf CSU Clark Building has multiple classroom and lecture hall spaces that were renovated updating the room acoustics and technology for presentation. We provided technology programming and cost opinions along with acoustical recommendations to improve the speech intelligibility in the learning spaces. Project cost $6M.

COLORADO STATE UNIVERSITY COMPUTER SCIENCE BUILDING, Fort Collins, CO
A $14M Computer Science building with 46,500 sf was built on campus with the support of Hewlett Packard and Sun Computing Systems. Their mantra, “Computing is not about computers anymore. It is about living.” ~ Nicholas Negroponte, is realized in curriculum applied in the computer classrooms and labs, such as the Interactive/Teaching, Linux and Open Labs. We provide acoustical consulting and designed the AV systems for the facility.

COLORADO STATE UNIVERSITY LORY STUDENT CENTER THEATRE, Fort Collins, CO
The Lory Student Center Theatre $6M renovation increased flexibility for events by having a flat floor and expandable seating, allowing for more concerts, ballroom events, banquets and receptions, as well as events requiring tiered seating. Additions to the building include bathrooms, a new green room and a small catering service. The theatre features one of the first retractable seating systems of its kind in the United States. The versatile seating, which moves around to accommodate a variety of performances and functions, holds up to 500 people and can retract to leave the floor space completely open. We provided acoustical and theatre consulting, and designed the retractable seating, orchestra pit lift, theatrical rigging, lighting and AV systems.
COLORADO STATE UNIVERSITY CENTER FOR THE ARTS, Fort Collins, CO
The University Center for the Arts includes the 500-seat Edna Rizley Griffin Concert Hall, 317-seat University Theatre, 200-seat Studio Theatre, William E. Runyan Music Hall, 250-seat University Dance Theatre, two Dance Studios, Instrumental Rehearsal and the 500-seat Casavant Organ Recital Hall. The facility also includes multiple instructor studios and a compliment of practice rooms for individual and ensemble rehearsal. The concert hall, dance studios, instrumental rehearsal and percussion rehearsal spaces are additions to the old Fort Collins High School building that was renovated to create the Center for the Arts. We were able to achieve high levels of sound isolation and acoustical performance using relatively light-weight wall and floor-ceiling constructions. This was necessary due to limits imposed by the existing building structure. We provided acoustical consulting and design services for the entire project including the concert hall platform shell, room wall and ceiling element shaping and materials and seating, sound isolation, mechanical system noise control. We provided technology designs for a digital recording system, technical intercom system, video distribution and the sound reinforcement system. A total of 129,293 sf was renovated for a cost of $22,856,575. The Edna Rizley Griffin Concert Hall was listed in The Denver Post as one the five best places in Colorado to listen to chamber music.

EASTERN MONTANA COLLEGE, CISSEL MUSIC RECITAL HALL, Billings, MT
The 240-seat Cissel Music Recital Hall was renovated to improve the acoustics and add recording capabilities. Our services included acoustical consulting for room acoustics, sound isolation, mechanical system noise and vibration control, as well as, audio recording system and performance lighting system designs. In addition, we provided consultation and acoustical design for a large rehearsal room, music practice rooms and faculty teaching studios and music library incorporated into the renovation of an existing dormitory building.

FORT LEWIS COLLEGE CONCERT HALL, Durango, CO
Consulting and design services for this 600-seat Concert Hall include room acoustics, sound isolation, mechanical noise and vibration control, rigging, performance lighting, sound reinforcement, audio recording and reproduction. Design services for a pit lift, motorized variable acoustic system and a custom orchestra shell were also included.

JOHNSON & WALES UNIVERSITY TREAT HALL, Denver, CO
We provided initial planning for the renovation of Treat Hall to create a Student Center with café, auditorium and classrooms at the university. The renovation of the hall required special attention to the sound isolation, room acoustics and mechanical noise issues since this is a relatively old and historic building on campus. We reviewed the existing building drawings and provided acoustical and technology recommendations for sound isolation and renovation of the theatre for performance use by the students.

MESA STATE UNIVERSITY, SCIENCE & CLASSROOM BUILDINGS, Grand Junction, CO
Roof top mechanical equipment was causing issues with noise and vibration in the classroom areas. We provided testing and analysis of mechanical noise and vibration, as well as, acoustical analysis and sound isolation recommendations for the Community Room, Kitchen Area and Dining Area.
MONTANA STATE UNIVERSITY, BRICKBREEDEN FIELD HOUSE, Bozeman, MT
We assisted the university administration and sports representatives with the renovation and replacement of the sound system in the field house.

NORTHEASTERN JUNIOR COLLEGE, Sterling, CO
Northeastern Junior College located in Sterling, Colorado, is one of the state’s best two-year schools, providing a diverse program in Arts and Humanities. The renovation of E.S. French Hall included the expansion of the main lobby, classrooms, galleries, performance and support spaces, including the 550-seat, proscenium-style Dorthy J. Corsberg Theatre where the acoustical finishes and materials, the audio-visual (AV) system, the technical intercom, the assistive listening systems, theatre rigging, drapery, and the performance lighting systems were all replaced. A new flexible drama classroom/theatre space, complete with a pipe grid, was created for rehearsals, instructional use or small performances, much like an experimental or black box theatre. D. L. Adams Associates, Inc. was the acoustical and theatrical consultant for the project and provided analyses and acoustical recommendations to address sound isolation and mechanical noise for the entire building and designed all of the theatre performance systems.

RED ROCKS COMMUNITY COLLEGE COMMUNITY ROOM, Golden, CO
Acoustical consulting for this multipurpose room included developing acoustical design criteria, developing treatment recommendations and assisting the architect in room configuration, and ceiling/wall orientations to provide an aurally acceptable environment for the users.

REGIS UNIVERSITY FELIX POMPONIO FAMILY SCIENCE CENTER, Denver, CO
The Science Center at Regis University includes multiple laboratory classrooms for teaching General Biology, Human Biology and Advanced Molecular/Biology Research. The labs are equipped with multiple fan hoods and we provided acoustical recommendations to reduce the noise levels so the Instructor can be heard by the students. Follow up tests were done to document the level of improvement.

REGIS UNIVERSITY LECTURE HALL, Denver, CO
Consultation included recommendations for sightlines and room acoustics for the remodel of the lecture hall in the Adult Learning Center.

SANTA FE COMMUNITY COLLEGE HENDERSON FINE ARTS CENTER, Farmington, NM
The Henderson Fine Arts Center, named after James Henderson a former president and champion for the arts at the college, is a 750-seat Fine Arts Auditorium designed for a full-range of college theatrical and musical uses. The facility also includes meeting and conference room spaces to augment the theatre for education uses. Our design services included acoustical and theatre consulting, and design of sound reinforcement, performance lighting, stage rigging and drapery systems.

SANTA FE COMMUNITY COLLEGE MULTIMEDIA CENTER, Albuquerque, NM
Multimedia presentation systems for classroom, lecture hall and administrative boardroom. Systems include computer controlled interactive audio-visual equipment allowing instructors to prepare classroom programs utilizing “state-of-the-art” CDROM, video tape, laser disk and audio materials as teaching aids.
SNOW COLLEGE SOUTH SEVIER VALLEY MULTI-EVENT CENTER, Richfield, UT
The Snow College Multi-Event Center includes an 800-seat theatre, 5,000-seat arena and multiple classrooms used by Snow College and the local high school. We provided acoustical consulting as well as theatre design of AV, performance lighting, pit filler and full-fly counterweight rigging systems. Systems include touch screen control of the arena sound system to recall room presets. ADA assistive listening systems were provided with an infrared system in the theatre and radio frequency system in the arena.

UNIVERSITY OF COLORADO BIOCHEMISTRY LECTURE HALL, Boulder, CO
We provided acoustical consulting and AV design services for the addition of a lecture hall.

UNIVERSITY OF COLORADO DAL WARD CENTER, Boulder, CO
We provided room acoustics analysis, sound isolation recommendations, mechanical noise control and audio-visual system design for this 85,000 square foot athletic building addition to Folsom Stadium at the University of Colorado. AV systems with distribution to the facility’s squad room were designed for use by the coaching staff.

UNIVERSITY OF COLORADO JOINT INSTITUTE LABORATORY FOR ASTROPHYSICS (JILA) BUILDING ADDITION PROGRAM PLAN, Boulder, CO
D. L. Adams was the acoustics and vibration consultant for the Program Plan to renovate and add to the existing JILA facility in Boulder, Colorado. We met with the architectural and engineering team, CU faculty, and staff at JILA to assess the needs with respect to noise and vibration in the various laboratories. We wrote the noise and vibration design criteria that will be used in design of the new addition. We also wrote criteria for site vibration surveys and construction noise monitoring.

UNIVERSITY OF COLORADO INTEGRATED TEACHING AND LEARNING (ITL) LABORATORY, Boulder, CO
We provided room acoustics, sound isolation, and HVAC noise control design services for classrooms, laboratories and common areas. Unique challenges were posed because that all of the building elements, from noise control materials to mechanical equipment and vibration isolation, are visible for instructional purposes and employ the latest remote engineering monitoring technologies.

UNIVERSITY OF COLORADO MATHEMATICS BUILDING, Boulder, CO
We provided room acoustics and sound isolation design services for this 23,000 square foot, 7 million dollar, major addition to the University of Colorado Engineering building.

UNIVERSITY OF COLORADO MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY, Boulder, CO
Consulting services included room acoustics design, sound isolation design and mechanical system noise control design. Also included was the design of the AV system for the 235 seat lecture hall.
UNIVERSITY OF COLORADO STUDENT RECREATION CENTER, Boulder, CO
We provided room acoustics, sound isolation, and mechanical noise control for this 51,000 square foot addition to the existing student recreation center at the University of Colorado. The addition provides a large gymnasium, running track, aerobics studio, conference rooms and offices. We also designed the paging/background music system and gymnasium sound reinforcement systems for the facility.

UNIVERSITY OF COLORADO THEATRE, Boulder, CO
The University Theatre is an historic structure located on the main quadrangle of campus. It was renovated to better serve the drama department and add spaces for dance rehearsal and performance. We provided consulting and design services, from feasibility through construction.

UNIVERSITY OF COLORADO WARNER IMIG MUSIC BUILDING REMODEL, Boulder, CO
The recital hall originally constructed in the 1960’s was renovated in order to upgrade the acoustics, on-stage hearing, sound isolation, mechanical system noise and vibration control, lighting and finishes.

UNIVERSITY OF COLORADO, COLORADO SPRINGS CENTENNIAL HALL, Colorado Springs, CO
After the new Engineering and Sciences Building was completed, UCCS went forward with a $14M renovation of the original 51,000 sf engineering building. This included upgrade of the classrooms, labs and corridor study spaces that were fit with new acoustical clouds to control reverberation and reduce noise in the building. The existing 290 seat Auditorium/Lecture Hall also received an $800,000 upgraded with a new digital media system that includes HD video projection, surround sound playback and performance lighting on motorized rigging for presentations and performances. We provided the acoustical, AV and lighting designs for the renovation.

UNIVERSITY OF COLORADO, COLORADO SPRINGS EL POMAR CENTER, Colorado Springs, CO
The El Pomar Center is the media center for the campus with videoconference room for meetings between campus administrators, distance learning classrooms, 2,600 square foot HDTV Studio with adjacent control and production areas in addition to the traditional library stacks. We provided acoustical consulting, AV systems and broadcast TV Systems design for this 110,000 square foot library building addition to the existing facility. There are two distance learning classrooms, one dedicated video teleconference room and 2,600 square foot production TV studio with adjacent control areas.
UNIVERSITY OF COLORADO, COLORADO SPRINGS OSBORNE CENTER FOR SCIENCE AND ENGINEERING, Colorado Springs, CO
The $47M, 156,000 sf UCCS Osborne Center for Science & Engineering, recipient of two energy awards, brings together the departments of biology, physics, and mechanical and aerospace engineering, and also the Institute for Science and Space Studies and the CU Institute for Bioenergetics into a single facility. The building has laboratories and classrooms used for optics and nanotechnology research that required special vibration isolation. D.L. Adams Associates provided acoustical consulting and designed the floating floor vibration isolation system for the specialized optical and nanotechnology research areas.

UNIVERSITY OF COLORADO DENVER HEALTH SCIENCES CENTER, SCHOOL OF PHARMACY, Denver, CO
We provided acoustical, mechanical system noise and vibration control and designed the AV systems for this laboratory facility.

UNIVERSITY OF COLORADO DENVER PHARMACY AND PHARMACEUTICAL SCIENCES BUILDING, Denver, CO
Measured field vibration transmission on the building site and used this information to predict vibration levels from future light rail which will be located across the street. Evaluated vibration from internal and external sources and consulted on control measures for vibration sensitive equipment and laboratories.

UNIVERSITY OF COLORADO DENVER SCHOOL OF PHARMACY, Aurora, CO
We provided acoustical, mechanical system noise control and specialty vibration analyses for a new research laboratory facility located on the Fitzsimons campus.

UNIVERSITY OF DENVER COLLEGE OF HOSPITALITY AND RESORT MANAGEMENT, Denver, CO
We provided SD programming of the new facility along with systems concepts and cost opinions for AV systems used as teaching aids in the kitchen classroom, dining area and presentation spaces.

UNIVERSITY OF DENVER CRAIG HALL GRADUATE SCHOOL OF SOCIAL WORK, Denver, CO
We provided acoustical and AV designs for the renovation of Craig Hall. The AV systems included observation and recording systems used to evaluate the student’s counseling skills.

UNIVERSITY OF DENVER DANIELS COLLEGE OF BUSINESS, Denver, CO
The Daniels College of Business is a new 160,000 square foot building including three floors of classrooms. We provided consulting services for room acoustics, sound isolation and mechanical system noise and vibration control. These services were provided for administrative office areas, meeting rooms and other public spaces in addition to the classrooms.
UNIVERSITY OF DENVER ENGINEERING BUILDING, Denver, CO
The new School of Engineering and Computer Science building at the University of Denver is part of the school’s expansion of their interdisciplinary STEM opportunities. The building includes research and instructional spaces, flexible classrooms, interdisciplinary centers and institutes, community areas, faculty and administration offices as well as food service. The new building allows STEM students of various disciplines to collaborate in one location.
D.L. Adams Associates provided acoustical analysis and recommendations for sound isolation and room acoustics, as well as analysis and recommendations for noise and vibration control of the building’s mechanical system. The atrium rotunda space, utilized for presentations, was given special attention.

UNIVERSITY OF DENVER HOUSTON FINE ARTS CENTER (LAMONT SCHOOL OF MUSIC), Denver, CO
Renovation of a 700-seat theater, 350 seat recital hall, black box theatre, facility studios and practice rooms were a part of this project. Acoustical analyses of the spaces were conducted. New sound systems and computerized lighting systems were designed. The counterweight rigging system in Corkin Hall was renovated and a concert enclosure was designed. Also, a former art studio was renovated into a jazz recording studio.

UNIVERSITY OF DENVER STURM COLLEGE OF LAW, Denver, CO
Designed AV systems for 120 seat Moot Courtroom, 30 seat Training Courtroom, (10) Classrooms ranging from 50 to 90 seats, Jury Deliberation Room, (3) Attorney Interview Rooms, (5) Seminar Rooms and Forum/Center Commons area. The systems feature touchscreen control, video projectors for display of computer and video images, document cameras, lapel microphones, ceiling microphones and cameras for recording of lectures and video conferencing in (1) Seminar Room. The Training Court has multiple remote controlled cameras and microphones so that classroom sessions can be recorded for playback and review by the student and instructor. The Forum area is equipped with sound reinforcement to accommodate three different presenter locations. The AV systems are networked for centralized control by the university AV staff.

UNIVERSITY OF HAWAII MANOA CAMPUS SCHOOL OF NURSING SIMULATION CENTER, Honolulu, HI
A new 13,000 sf Nursing Simulation Center was built to immerse the students in real world challenges outside the hospital. The facility has several simulation rooms and inside the Large Nursing Simulation Room, students are exposed to emergency situations in different environments through the use of images displayed on a 6’ tall, 25’ wide video-wall along with audio playback for different locations, such as the beach, a mall, etc. We provided acoustical consulting and designed the AV simulation systems.

UNIVERSITY OF NORTHERN COLORADO GUNTER HALL, Greeley, CO
Gunter Hall originally housed a pool and gymnasium spaces that were renovated to create classrooms for the School of Nursing. We provided acoustical consulting and designed the AV systems used for Observation and Therapy rooms to provide record and playback for student evaluations in medical teaching facility.
UNIVERSITY OF NORTHERN COLORADO KEPNER HALL, Greeley, CO
An existing building was renovated to house the business school. The renovation included the incorporation of a 200-seat lecture hall that also doubled as a recital hall to maintain the historic character of the building. Services provided include room acoustics, audio and video design, sound isolation, mechanical noise and vibration control.

UNIVERSITY OF UTAH RICE-ECCLES STADIUM, Salt Lake City, UT
A new, 46,500 seat stadium was renovated for the 2002 Winter Olympics in Salt Lake City. Services provided included the design of the stadium sound system with emphasis on speech intelligibility. Loudspeakers are distributed in the concourses, private suites, and control rooms for listening to the main PA or a separate back-of-house PA system. A computer control system is used to remotely control and monitor the operation of the stadium sound system. Broadcast systems were also provided with stadium camera feeds to satellite broadcast trucks. A CATV head-end and distribution system feeds the off-air TV and the local TV and radio to the concourses, banquet areas and private suites. Intercom for coaches, production intercom and ADA compliant assistive listening equipment were also included in the system design.

UNIVERSITY OF WYOMING ARTS AND SCIENCES AUDITORIUM, Laramie, WY
The Arts and Sciences Auditorium, originally built by the WPA in 1939, was renovated to upgrade the theatre and sound systems. We designed a new sound system, technical production intercom, performance lighting and control, stage rigging, draperies and fire curtain for the room. We also consulted on building codes and safety requirements for access to the stage and dressing room areas.

UNIVERSITY OF WYOMING CLASSROOM BUILDING, Laramie, WY
We provided consultation and design services for the renovation of the existing Classroom Building to implement AV display technology for instructional use. We provided acoustical consulting and AV systems design for standard classrooms as well as control systems for broadcast and recording of distance learning classes. One of the larger lecture halls doubles as a film theatre with cinema projector, a large screen and full surround sound playback.

UNIVERSITY OF WYOMING CRANE STUDIO, Laramie, WY
The Crane Studio is a multipurpose studio space used for dance, film and rehearsal. We provided room acoustics, sound isolation and design the AV system with video projection and surround sound film playback.

UNIVERSITY OF WYOMING ENZI EDUCATIONAL LABS, Laramie, WY
The University of Wyoming Enzi facility includes science, engineering and STEM classrooms that include laboratories with fume hoods. There is also an emergency generator nearby. We provide acoustical consulting to address concerns with noise and vibration isolation and laboratory hood noise.
UNIVERSITY OF WYOMING FIELDHOUSE, Laramie, WY
The fieldhouse had issues with speech intelligibility when used for student or athletic functions. We conducted acoustical testing and evaluation of the sound system currently installed in the space. Our testing showed the interior finishes provided little absorption and the sound system was not the primary issue. We recommended upgrades to the interior acoustics as the first priority to improve the level of intelligibility of the existing sound system and any future upgrades.

UNIVERSITY OF WYOMING SCHOOL OF ENERGY RESOURCES, Laramie, WY
The Energy Resource Building includes laboratories and research departments involving the computer sciences, mathematics, geological sciences and engineering who are working together researching oil, gas, wind, solar, geothermal and other energy resources. The building has roof mounted solar and wind turbine test areas that are used for testing of systems. A computer simulation room or “CAVE” provides 3D visualization for research in oil drilling and mining. We provided acoustical consultation for sound isolation between spaces, room acoustics to control noise levels and improves speech intelligibility in the classrooms and recommended vibration isolation for mechanical and roof mounted equipment.

UNIVERSITY OF WYOMING STUDENT CENTER, Laramie, WY
We provided acoustical consultation and sound system design services for the renovation of the Student Center. Our designs also included AV systems for the Ballroom, Student Council Meeting Room, Conference Rooms, Student Book Store and Student Lounge. We also provided sound and performance lighting systems design for the Ballroom and Student Lounge for use by the students.

UTAH VALLEY STATE COLLEGE DAVID O. MCKAY EVENT CENTER, Orem, UT
The David O. McKay Events Center includes an 8,500 seat multifunction arena, conference rooms, classrooms and dance instruction spaces. We provided acoustical consultation and designed the AV systems for the entire facility.

UTAH VALLEY UNIVERSITY UCCU CENTER, Orem, UT
We provided consultation and design services for the UCCU Center that included an 8,500-seat Arena for sports and concerts, classrooms, conference rooms and dance studios. The acoustics of the arena will accommodate all types of concerts from the BYU Choir to, most recently Maroon 5, Imagine Dragons and others. We provided acoustical consulting and designed the AV systems for the building.

WEBER STATE UNIVERSITY VAL A. BROWNING CENTER FOR THE PERFORMING ARTS, Ogden, UT
Weber State University renovated the 1,737-seat Austad Auditorium, 320-seat Allred Theater and expanded the performing arts facility by adding the Eccles Experimental Theater. The Eccles Theater is a flexible black box style performance space seating up to 175 persons. Overhead catwalks provide safe access to the lighting, drapery and sound equipment. We provided acoustical and theater consulting services, designed the lighting, rigging and sound systems. We also designed and assisted the university with the specification of a new orchestra shell for the Austad Auditorium.
Western State Colorado University’s Quigley Hall, originally built in 1967, was recently renovated to support the school’s plan to offer a better educational experience to its students. The building suffered from poor sound isolation, noisy mechanical systems and old outdated technology. Quigley Hall is home to the university’s music and art departments and includes a concert hall, art gallery, music teacher studios and laboratories, two small practice rooms, an ensemble room, a choir room, band room, and recording studio.

Our acoustical analysis of the building revealed the sources of sound leaks that we addressed during design by recommending architectural upgrades to walls, ceilings and doors used to separate critical spaces. We also reviewed the design of the replacement mechanical system. Again our analysis showed noise and vibration would be excessive so we developed methods to achieve quieter background levels appropriate for performance and rehearsal spaces.

D.L. Adams Associates provided comprehensive acoustical and technology designs to increase sound isolation between spaces, reduce background noise and improve the interior acoustics of the rooms. By reshaping the concert hall and applying our suggested interior finishes, we optimized the acoustics of the room for the audience and performers alike. We also assisted the Owner with the replacement of the audio-visual (AV) systems by developing the initial AV design, performance requirements and budgeting that was used by the contractor who finalized the design and installed the equipment. After the project was completed, we visited the school to conduct acoustical tests and review the AV system installation.

Western State College Taylor Hall Renovation and Addition, Gunnison, CO

We provided consultation and design services for the renovation of this 19,700 sf auditorium and a 6,200 SF Black Box or experimental theatre addition. Services provided included room acoustics, sound isolation, sound system design, performance lighting system design, rigging/drapery system design, fire curtain design and the design of a removable stage thrust extension.

Windward Community College Student Center, Kaneohe, HI

We provided acoustical consultation and design services for the renovation of the Student Center. The facility includes student lounges, study areas and dining area.

Additional Experience

Airforce Academy Fairchild Hall, Colorado Springs, CO

Armand Hammer United World College Auditorium, Montezuma, NM

Auraria Higher Education Center Events Center, Denver, CO

Byu-Idaho Auditorium, Rexburg, UT

Byu-Idaho Hart Building, Rexburg, UT

Byu-Idaho John Taylor Building, Rexburg, UT

Byu-Idaho Jacob Spori Classroom Building, Rexburg, UT

Casper College Visual Arts Building, Casper, WY
ADDITIONAL EXPERIENCE (cont.)

CHADRON STATE UNIVERSITY MEMORIAL HALL, Chadron, NE

COLORADO COLLEGE CORNERSTONE ARTS CENTER, Colorado Springs, CO

COLORADO MOUNTAIN COLLEGE ALPINE CAMPUS AUDITORIUM, Steamboat Springs, CO

COLORADO MOUNTAIN COLLEGE HEALTH AND PHYSICAL EDUCATION RECREATION SPACE, Steamboat Springs, CO

COLORADO SCHOOL OF MINES, CENTER FOR TECHNOLOGY & LEARNING MEDIA, MECHANICAL NOISE CONTROL, Golden, CO

FORT LEWIS COLLEGE BIOLOGY, Durango, CO

HILL HALL AT THE SCHOOL OF MINES, Golden, CO

MONTANA STATE UNIVERSITY STADIUM, Bozeman, MT

NEW MEXICO STATE UNIVERSITY NATATORIUM, Las Cruces, NM

NORTHERN NEW MEXICO COLLEGE NICK SALAZAR PERFORMING ARTS CENTER, Espanola, NM

PUEBLO COMMUNITY COLLEGE GORSICH THEATRE, Pueblo, CO

RED ROCKS COMMUNITY COLLEGE COMMUNITY ROOM, Golden, CO

ST. JOHN’S UNIVERSITY ALCUIN LIBRARY, Collegeville, MN

SAN JUAN COMMUNITY COLLEGE FINE ARTS CENTER, Farmington, NM

SANTA FE COMMUNITY COLLEGE PHYSICAL EDUCATION CENTER, Santa Fe, NM

SANTA FE COMMUNITY COLLEGE CAMPUS CENTER EXPANSION, Santa Fe, NM

SOUTH DAKOTA SCHOOL OF MINES, TECHNOLOGY AND PALEONTOLOGY BUILDING, Rapid City, SD

TIVOLI CLASSROOMS AURARIA CAMPUS, Denver, CO

TRW AUDITORIUM, Aurora, CO

UNIVERSITY CENTER FOR ATMOSPHERIC RESEARCH, FL 0 CHILLER, Boulder, CO

UNIVERSITY OF COLORADO BENSON EARTH SCIENCES, Boulder, CO

UNIVERSITY OF COLORADO BOULDER REGENTS ATRIUM, Boulder, CO

UNIVERSITY OF COLORADO BUCKINGHAM HALL, Boulder, CO
ADDITIONAL EXPERIENCE (cont.)

UNIVERSITY OF COLORADO CRISTOL CHEMISTRY, Boulder, CO

UNIVERSITY OF COLORADO DENVER ACADEMIC BUILDING, Denver, CO

UNIVERSITY OF COLORADO EKELEY BUILDING, Boulder, CO

UNIVERSITY OF COLORADO GEOLOGICAL SCIENCES BUILDING, Boulder, CO

UNIVERSITY OF COLORADO GOLD BUILDING, Boulder, CO

UNIVERSITY OF COLORADO HUMANITIES BUILDING, Boulder, CO

UNIVERSITY OF COLORADO KITTREDGE WEST HALL, Boulder, CO

UNIVERSITY OF COLORADO MUENZINGER ROOM E050, Boulder, CO

UNIVERSITY OF COLORADO MUSIC ROOM REMODEL, Boulder, CO

UNIVERSITY OF COLORADO NURSING LECTURE HALL, Boulder, CO

UNIVERSITY OF COLORADO, COLORADO SPRINGS EDUCATION CLASSROOMS, Colorado Springs, CO

UNIVERSITY OF DENVER CRAIG HALL, Denver, CO

UNIVERSITY OF DENVER NAGEL HALL, Denver, CO

UNIVERSITY OF DENVER PHYSICS LECTURE HALL, Denver, CO

UNIVERSITY OF DENVER SHWAYDER BUILDING OFFICE REMODEL, Denver, CO

UNIVERSITY OF DENVER STUDENT UNION, Denver, CO

UNIVERSITY OF DENVER STURM HALL LINDSAY AUDITORIUM, Denver, CO

UNIVERSITY OF NORTHERN COLORADO CARTER HALL, Greeley, CO

UNIVERSITY OF NORTHERN COLORADO BUTLER HANCOCK FIELD HOUSE, Greeley, CO

UNIVERSITY OF NORTHERN COLORADO JACKSON STADIUM, Greeley, CO

WESTERN STATE COLLEGE MEARS DORMITORY, Gunnison, CO

WINDWARD COMMUNITY COLLEGE ARTS & HUMANITIES, Honolulu, HI