2012Exhibition of School Planning and Architecture

Centennial Junior High School

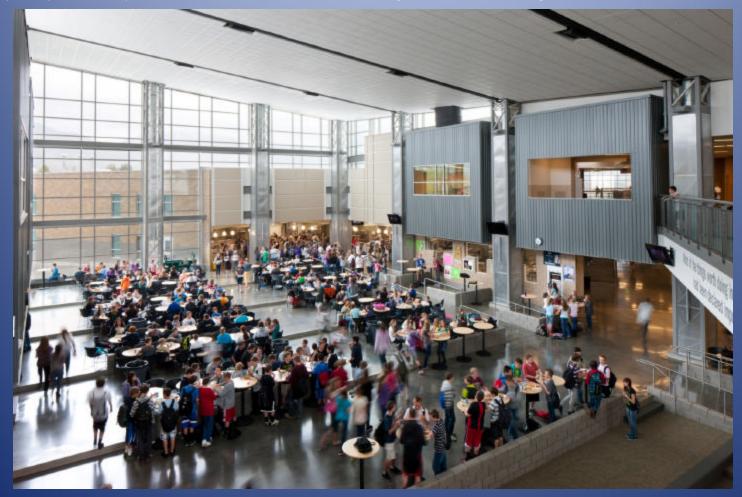
Kaysville, Utah Middle/Junior High School Project of Distinction VCBO Architecture

Centennial Junior High School



Student Commons

Community Environment: The Centennial Junior High School project serves its surrounding community as a center for public events, as an inspiring place for learning, and as an attractive focal point that identifies the community as both progressive and committed to quality. Designed as a sustainable 70-year building, Centennial's design nods to the contextual architecture of its community, and demonstrates a hopeful optimism and positive attitude at the same time. Additionally, the site serves as a regional detention basin.



Student Commons

Community Environment, cont'd: Bryan Turner, AIA, Director of New Facilities for the district, states, "Centennial's design is the result of focused collaboration between the architect, the owner, and the community. The District is progressive and forward-thinking and the design reflects our vision for the community."



Classroom

Learning Environment: This school is the latest generation of the award-winning Davis Middle School Prototype. Originally designed to create a state-of-the-art learning environment that buffers middle school students at the "turning point" of their lives from the stress and fragmentation associated with the typical large junior high school experience, the new school has been revamped to achieve a number of additional goals, including the drastic reduction of energy use.

The key to the original design solution – the arrangement of the classrooms into three separate, grade-level specific, double-lobed academic learning centers, each surrounding (but connected through significant fenestration) a lively central collaboration space – has been maintained in the new school. These academic "houses" provide a highly flexible, open, and extremely visible environment for group collaboration, which fosters critical student/student and student/teacher relationships. Classrooms, conference rooms, faculty planning offices, student and faculty toilet rooms, and grade-specific lockers make up a "house", promoting a cohesive environment in which students may live and learn.



Learning Spaces

Learning Environment cont'd:

Improvements to the plan include redesigned Food and Clothing labs, a more formal Performance Space, and the addition of LCD monitors, into which students can plug their netbooks, throughout all commons and collaborative areas to promote "on demand", serendipitous learning opportunities. Teachers' desks have become mobile furniture, accommodating teacher flexibility for the next level of collaborative learning. Technologically, each classroom and the collaboration spaces all include sound reinforcement systems and computer projection. Newly hired staff was handpicked for their eagerness to become a part of a 21st century educational team.



Physical Environment

Physical Environment: Centennial Junior High School was designed as a student-centric collaborative community. Each "Education Community" is arranged around a central collaboration space which is designed not as a circulation space with added seating, rather as a meaningful programmatic element. Learning takes place both in and out of the classroom, often simultaneously. Students all have netbooks, making this one of the few schools in the country with one-to-one technology. The collaboration spaces are organized to be flexible so that the students can make them "their own". The concept of Small Learning Centers is to create an intimate community within a large school – students will spend most of their school day within their community.

Learning opportunities here are integral to the architecture. At Centennial, named in honor of the School District's 100th anniversary, the Learning Centers take the identity of the last ten decades, creating daily learning opportunities. Signage throughout provides a snapshot of inspiring scientific and historic discoveries and



Learning Environment

Physical Environment cont'd: technologies, including the first electric traffic light, invented by a policeman in Salt Lake City in 1912, through the invention of the automatic bread slicing machine, to Scotch tape, computers, the Polio vaccine, fiber optics, mobile phones, the World Wide Web, texting, and the ipod. At the Entries to each house, students see a timeline of inventions and discoveries, a timeline which also encircles the Dining/Commons.

The school is sited to allow all classrooms to face either north or south, allowing controllable daylighting into the learning spaces. The energy demand of the building has been drastically reduced through the use of automatic-dimming, super energy-efficient lighting and the extensive daylighting. Located on the roof are two photovoltaic panel arrays which provide some of the electricity that powers the school, and the lights in the parking lot are completely solar powered, costing the District nothing to run. Utilizing these energy advancements as a learning tool, the school has a "building dashboard" which allows students to see at any time, on an interactive monitor, how much energy the building is producing, and how much is being used by the lights, the heating or cooling. Building materials utilize sustainable and locally produced products, like concrete masonry units, metal panel, and floors are mainly ground concrete, great for maintenance and sustainable at the same time.



"It is difficult to say what is impossible, for the dream of yesterday is the hope of today and the reality of tomorrow."

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> "Here men from the planet Earth first set foot upon the Moon. July 1969 AD. We came in peace for all mankind."

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- 1962 The Test computer video game, Sporewart, invented 1982 - Light Emitting Doets 0.EDs (Introduced
- 1963 Fiber Optics used for parminisation
- 1963 Concuter mouse developed
- 1964 BASC programming language created
- 1967 IBM develops first flagoy disk 1989 - America anticipan of the internet was introduced
 - 69 Arpenet, prototype of the trannet, was introduced 69 - Neil Armstrong becomes the first man on the moon.



"Design is not just what it looks like and feels like. Design is how it works."

Steve Jobs

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Exterior

Planning Process This school is the result of a lively collaboration of stakeholders including teachers, students, District staff, community members, and architects. The District and architects began by assessing the previous award-winning facility, assigning a committee to define and update the original junior high program. Architectural post occupancy studies were analyzed, and those involved in the new school reassessed the effectiveness of the design to extend the vision of education for the 21st century.

The design team evaluated materials, electrical, and mechanical systems, exploring the newest technologies, and applied the best concepts to this new facility. Since building energy use and sustainability were an important part of the building vision, building energy modeling was utilized as an assessment tool, and extensive meetings with district maintenance staff were conducted to ensure the future maintainability of all building systems.



Exhibition of School Planning and Architecture Project Data

Submitting Firm :	VCBO Architecture
Project Role	Design Architect
Project Contact	Jeanne Jackson, AIA, LEED®AP
Title	Partner
Address	524 South 600 East
City, State or Province, Country	Salt Lake City, Utah 84102
Phone	801.575.8800

Joint Partner Firm:	
Project Role	
Project Contact	
Title	
Address	
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Phone	

Other Firm:	
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	

Construction Firm:	Hughes General Contractor
Project Role	General Contractor
Project Contact	Mr. Dan Pratt
Title	Vice President
Address	900 North Redwood Road
City, State or Province, Country	North Salt Lake, Utah 84054-0700
Phone	801.292.1411

Exhibition of School Planning and Architecture Project Details

Project Name	Centennial Junior High School
City	Kaysville
State	Utah
District Name	Davis School District
Supt/President	Dr. W. Bryan Bowles (Supt.)
Occupancy Date	August 2011
Grades Housed	7-9
Capacity(Students)	1,500
Site Size (acres)	23 Acres
Gross Area (sq. ft.)	172,000 SF
Per Occupant(pupil)	115.27
gross/net please indicate	
Design and Build?	No
lf yes, Total Cost:	
Includes:	
lf no,	
Site Development:	3,868,000
Building Construction:	22,032,000
Fixed Equipment:	Included in building cost
Other:	
Total:	25,900,000









