Des Moines Community School District
Central Campus

Connecting Students
Creating Futures,
@ Central Campus

Speakers

Bill Good, Chief Operations Officer – Des Moines Public Schools
Julie Rosin, Central Campus Assistant Director – Des Moines Public Schools
James Britt, AIA, Project Architect – RDG Planning & Design
Eliz Erbes, AIA, LEED AP, Educational Designer – RDG Planning & Design

District Overview & Strategy
City of Des Moines, Iowa

- Iowa’s largest city and Capital
- Population – 198,682 (Metro area 456,682)
- Median household income - $38,408

Des Moines Public Schools

Who we are

- Enrollment – 31,275
- Free and Reduced - 67%
- 50% minority
- ELL program is fastest growing segment.
- Number of school buildings – 69
- Average Age of school buildings – 63 years
- Home for Iowa’s only International Baccalaureate curriculum and public Montessori school

Des Moines Public Schools

- Energy Star Award 2012
- Partner of the Year
- 70% Achievement Increase in 5th Grade
- Saved $24M in just 4 years
Planning Process

- Superintendents Facilities Advisory Committee
  - Developed overall priorities
  - 5 year plan, 10 year vision
  - Students First
- Community Forums
- Board Approval
- Revenue purpose statement passed in September 2009

Facility Committee Priorities

1 - Safety and Security
2 - Replacement of obsolete, inefficient, or worn-out equipment or systems
3 - Money saving strategies
4 - Improvements to buildings which have not received major improvements
5 - Technology infrastructure upgrades
6 - Air conditioning classrooms
7 - Improvements to enhance research-based student achievement
8 - Program changing needs

Funding

- State wide penny – 1% local option
  - $24M per year through 2029
  - Per student allocation
  - Phase #1 bonding = $68M (2011-2013)
  - Phase #2 bonding = $71M (2013-2015)
  - Phase #3 bonding = $60M (2015-2017) projected
Central Campus

- Constructed in 1916
- Purchased in 1952 as a former Ford Motor assembly plant and more recently used for fabricating parts for jet aircraft engines.
- Former Tech High School was moved to the building in ’52 and was closed in 1986 as a high school.
- Purchased adjoining ($4,499,272) building and parking ramp in 2008
  - Renovated into Academy $11,416,000
- Total square feet of CC – $156,460
- Renovations:
  - Phase 1 (3rd floor) – $11,652,000
  - Phase 2 (Connector, entry, partial 2nd and 1st floors and sitework) – $11,974,000
  - Phase 3 (Remaining 2nd and 1st) – $4,750,000

Central Campus Programs

- Career Tech
- Academy
- Downtown Elementary School
  - Formally leased space
  - Project based curriculum
- Gateway Middle School
- Fitness Center
- District Printing department
- Multipurpose room
  - Board meetings, Community meetings, building meetings, student uses

Facility & Design Response
Master Plan and Remodel Objectives
- Maximize space allocation for learning programs
- Cluster key programs together to build learning interactions
- Provide learning suites which support and advance 21st century learning programs
- Put learning on display
- Improve building energy performance (mechanical systems and exterior improvements)
- Improve life-safety components (sprinkler, fire exiting, communications, back-up power)
- Improve building accessibility

Master Plan and Remodel Challenges
- Multi-phase approach spanning many years
- Floor layout and systems need to be flexible to respond to changes between Master Plan and implementation
- Existing building has layers of previous remodels – many unknowns
- Think beyond the existing building – thinking outside the box your in
- Six story building – each remodel will always impact at least two floors
- Making a nearly century old building meet building code ‘high-rise’ standards
- Implement everything while school is in session.
Comprehensive Infrastructure Improvements

• New mechanical system
  - Mini boilers, heat pumps, cooling towers
  - Replaced single boiler plant with high efficiency mini boilers on each floor to better respond to floor by floor needs
  - New sprinkler system
  - Building only partially sprinklered beforehand
  - New fire stairs
    - Placed at building exterior for ease of construction and greater floor plan flexibility
  - New elevators, chair lifts, and ramps to meet ADA.

Level 3 - Existing
Agriculture and Environmental Science

- Animal Science
- Horticulture
- Energy and Sustainability
- Marine Biology
- Aquarium Science

Plan: Third Floor

Plan: Marine Biology and Aquarium Science
Family & Consumer Science

- Culinary Arts
- Fashion Design & Merchandising
Culinary Arts

CTI: Proposed View, Tea Room

CTI: the Cafe
Communication Media

- Broadcasting and Film
- Commercial Photography
- Graphic Communication

Plan: Third Floor

Plan: Broadcasting & Film
CTI: Printing & Graphics

Broadcasting and Film

Education & Leadership Careers
  • Early Childhood Careers
  • The Teacher Academy
  • Army JROTC
Early childhood and the Downtown School

Family & Consumer Science
  • Culinary Arts
  • Fashion Design & Merchandising

Plan: Third Floor
Activity

• Share it
• Post it
• Photograph it

more