Welcome

Thank you for your participation!
AGENDA

- Master Planning Process Overview
- 21st Century Schools
  - School Design 101
  - Characteristics of 21st Century Schools
  - Work Activity
- Assessment Results
  - Physical Assessment
  - Educational Adequacy
  - Security Review
  - Capacity Analysis
  - Enrollment Projections
  - Work Activity
- Wrap Up

Public Input Sessions
Strategic Goals

- Align facilities with educational programs
- Maximize effectiveness of District resources
- Address major planning considerations for the future
  - Enrollment Growth
  - Aging Infrastructure
  - Equity
  - Educational Program Change

Please answer the question:
In 3 words, how would a visitor to the ICCSD describe our current district facilities?

1
2
3
Typical Day at a One-Room Schoolhouse

- Recite the Pledge of Allegiance
- Sing a song or listen to a moral story from the Bible read by the teacher
- Day normally started with a reading lesson
- Following the reading lesson would be a writing or spelling lesson, depending on the day
- During the writing lesson, the children learned good penmanship, a very important skill
- After this, there was a short break
- After the break the children would begin their arithmetic lesson
- Lunch
- The afternoon lessons generally consisted of history, geography, civics, language
- The day would end around 4 p.m
A new reality....

Elementary School
City High School
1938

Crowe Island Elementary
Winnetka, Illinois
Yesterday’s Educational Approach:
The Factory Model

The Bell Curve of Results

Extra People

Skilled and Unskilled Laborers

Leaders
EMPLOYMENT: then and now


EMPLOYMENT: then and now

## CURRICULUM: then and now

### Social Studies

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<thead>
<tr>
<th>1960</th>
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<tr>
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### Business Education

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<td>1960</td>
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<td>Not required</td>
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<td>Life Skills PE</td>
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<td>Recreational/Leisure</td>
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<td>Independent Living</td>
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<td>Adult Living</td>
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<td>Basic Reading</td>
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<td>Practical Language</td>
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<td>Math 1</td>
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<tr>
<td>Math 2</td>
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</tbody>
</table>

“*If I had asked people what they wanted, they would have said faster horses.*”
- Henry Ford
Iowa, did you know?

Click here for video
http://www.youtube.com/watch?v=dMsNct4X_GU

21st CENTURY SCHOOLS
“Trying to Fill 6,000 Jobs, Microsoft Pitches $10,000 H-1B Visa”

6000 open positions in the US and is creating new jobs faster than it can fill them.

“Our nation faces the paradox of a crisis in unemployment at the same time that many companies cannot fill the jobs they have to offer”

“We risk these jobs migrating from the US, creating even bigger challenges for our long-term competitiveness and economic growth”
"The need to remain globally competitive. The sheer number of college graduates from other countries will change world dynamics. No longer do students from foreign countries have to come to the US for higher education. **No longer will the US have enough engineers and scientists to fill the needs.** Other countries will have numbers that create new ideas, building companies that launch innovations, and produce goods wanted by the world."

Source: Iowa Department of Education
UNIVERSAL CONSTRUCTS: Essential for 21st Century Success

- Critical Thinking
- Complex Communication
- Creativity
- Collaboration
- Flexibility and Adaptability
- Productivity and Accountability

What will students be doing in the year 2031?

What will teachers be doing in the year 2031?
Your personal learning style revealed

A = Linguistic
B = Logical-Mathematical
C = Visual-Spatial
D = Intrapersonal
E = Interpersonal
F = Musical
G = Bodily-Kinesthetic
H = Naturalistic
BEGINNING WITH THE END IN MIND

OUTCOMES
What are the skills needed?

CURRICULUM TO DEVELOP OUTCOMES
What are the courses needed to develop these skills?

LEARNING MODALITIES
How are these courses best learned?

LEARNING ENVIRONMENTS
What type of environment is needed to encourage learning?

21st CENTURY SCHOOLS

Designed to Support Educational Delivery
High Performance Environments: How the building affects teaching and learning
ENVIRONMENTAL FACTORS AFFECTING STUDENT PERFORMANCE

- Indoor air quality
- Temperature and humidity
- Ventilation
- Thermal comfort
- Lighting
- Acoustics
- Building age, quality and aesthetics

Standardized test scores

3-4%

(Schneider 2002)
characteristics of 21st CENTURY SCHOOLS

Indoor Air Quality, Temp & Humidity, Ventilation and Thermal Comfort
Energy Efficient: Consume less (25-35) kbtu sf/yr

Sustainable Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.
SUPERIOR LIGHTING

Abundant natural light

SAFE & SECUR

Transparent environment, easily observed, access controlled, a feeling of home.
PROPER ACOUSTICS

Intelligible from any location

TECHNOLOGY INFUSED

Designed for media literacy and connection to a global community of learners.
ENGAGING

“If children have interest, education happens.” Arthur C. Clark

FLUID/FLEXIBLE

Rapidly reconfigurable
**STUDENT-CENTERED**

Students are active participants in the learning process.

**TEACHERS AS PROFESSIONALS**

Designed to support professional development and collaboration.
CONNECTED TO NATURE

Encouraging environmental stewardship.

FOSTER CREATIVITY

Supporting creativity and innovation to meet the needs of the generation.
COLLABORATIVE

Allowing students to learn from students.

VARIETY OF LEARNING ENVIRONMENTS

Appropriate to the learning activities housed.
21st Century Elementary Schools
21st Century Middle Schools

Northeast Junior High School

Click here for video:
http://www.youtube.com/watch?v=NFyU99qtGHw
21st Century High Schools

Lynnwood High School

Click here for video:
http://www.youtube.com/watch?v=WXriAhgjz1c
KNOXVILLE high school

Knoxville High School

Critical thinking
- Math
- Chemistry
- STEM Lab
- Physical Science

Creativity
- Manufacturing Technology
- Consumer Sciences
- Culinary Arts
- Band/Chorus

Knoxville High School • First Floor Plan
INSTRUCTIONS

• Elect a recorder and spokesperson
• Quickly complete 3 word answer individually.
• Review the list of 21st Century School Characteristics
• As a group, come to consensus on how you will divide your $100 donation
• Report to group
Please answer the question:

In 3 words, how would you like a visitor to the ICCSD to describe our district facilities?

1 ___________________________________

2 ___________________________________

3 ___________________________________

21st Century School Priorities

- Healthy
- Sustainable & Energy efficient
- Superior Lighting
- Proper acoustics
- Engaging
- Safe & secure
- Technology infused
- Fluid/flexible
- Student-centered
- Connected to nature
# Physical Assessment

## Building Evaluation Teams

Professional “Team of Experts”

<table>
<thead>
<tr>
<th>Physical Assessments</th>
<th>Educational Adequacy &amp; Security Review</th>
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</thead>
<tbody>
<tr>
<td>• Architects &amp; Engineers</td>
<td>• Architects</td>
</tr>
<tr>
<td>• Building Principal</td>
<td>• Building Principal</td>
</tr>
<tr>
<td>• Building Custodian</td>
<td>• Special Representatives</td>
</tr>
<tr>
<td>• Special Representatives</td>
<td>– Assistant Superintendent</td>
</tr>
<tr>
<td>– Physical Plant (electrical, HVAC)</td>
<td>• Barbara Meek – team lead, consistent quality assurance</td>
</tr>
<tr>
<td>• Sam Johnson – team lead, consistent quality assurance</td>
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4/9/2013
Instructional Buildings by Age

- Instructional Space (s.f.)
- Dates of Construction/Additions

Instructional Buildings by Age

- Instructional Buildings by Age

BUILDING COMPONENTS

- Electrical
- Exterior Walls
- Fire Detection
- HVAC
- Interior

- Lighting
- Plumbing
- Roof
- Site
- Building Envelope
- School Security
Priority A: **IMMEDIATE**

Priority B: **NECESSARY**
Priority C: **RECOMMENDED**

Priority D: **OTHER**
Physical Needs Assessment: COSTS BY PRIORITY

- Immediate: $1,322,542
- Necessary: $6,852,436
- Recommended: $32,558,391
- Other: $41,581,020

Physical Needs Assessment: ALL COSTS
Physical Needs Assessment:
ALL COSTS PER SQUARE FOOT

SUMMARY OF COSTS BY COMPONENT

Architectural
MEP
EDUCATIONAL ADEQUACY

- The School Site
- Structural and Mechanical Features
- Plant Maintainability
- Building Safety and Security
- Educational Adequacy
- Environment for Education
GRADING CRITERIA

A = Excellent
B = Satisfactory
C = Borderline
D = Poor
F = Failing
X = Non-existent

BUILDING ON EXCELLENCE

Ten Recent Status Quo - Average Educational Adequacy Scores
ICCSD EDUCATIONAL ADEQUACY

Elementary Schools

ICCSD EDUCATIONAL ADEQUACY

Junior High Schools

SEJH

NWJH

NCJH
Total square footage for gym and multipurpose space

ICCSD Elementary Schools

SECURITY REVIEW
### Security Review Summary

**Of the 19 Elementary Schools:**
- Only 6 have a secured entry
  - and of those, only 3 can see people walking up to the building
- Only 5 have electronic locks
  - and of those, only 2 can lock down the building from one location
- Only 3 can lock their classrooms from the inside of the room
- Only 8 DON’T have portables
- Only 8 have air-conditioning

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### CAPACITY ANALYSIS

![One Vision Logo]

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STUDENT CAPACITY

FIRE CAPACITY

EXAMPLE:
Garner Elementary

Kindergarten Classroom
Fire Capacity: 50
Student Capacity: 24

And it’s NOT a simple equation of

\[
\text{Total square footage for gym and multipurpose space} = \frac{\text{AREA}}{\text{SF/student}}
\]

Gym/multipurpose square footage per enrolled student
STUDENT CAPACITY

Is a function of:

• Programs to be housed
• Space needed for programs
• Utilization
Function: space needed varies depending on activities housed

Chemistry Lab
Capacity: 24

Study Hall
Capacity: 40
**Utilization:**

*Percentage of the day the classroom will be occupied*

\[
\text{Utilization Formula:} \\
\frac{1250 \text{ students}}{70 \text{ class hrs}} \times 10 \text{ classrooms} = 178.5 \text{ students} \\
\frac{25 \text{ students per class}}{10 \text{ classrooms}} \times 250 \text{ students} @ .714\% = 178.5 \text{ students}
\]
### Calculating **STUDENT CAPACITY**

#### 21st Century Layout

<table>
<thead>
<tr>
<th>Room Number</th>
<th>Room Purpose</th>
<th>Area</th>
<th>Loading Factor</th>
<th>Capacity</th>
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<tbody>
<tr>
<td>101</td>
<td>Study</td>
<td>720</td>
<td>30</td>
<td>24</td>
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<tr>
<td>102</td>
<td>Lecture</td>
<td>720</td>
<td>30</td>
<td>24</td>
</tr>
<tr>
<td>103</td>
<td>Collaboration</td>
<td>3600</td>
<td>32</td>
<td>113</td>
</tr>
<tr>
<td>104</td>
<td>Studio/Project Room</td>
<td>1512</td>
<td>36</td>
<td>42</td>
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<td>105</td>
<td>Faculty Office</td>
<td>516</td>
<td>-</td>
<td>-</td>
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<td>106</td>
<td>Conference Room</td>
<td>695</td>
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<td>109</td>
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<td>1460</td>
<td>50</td>
<td>29</td>
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*Loading Factor = SF/Student*
Student Capacity vs. Enrollment
ICCSD Elementary Schools

- Capacity
- Enrollment
Student Capacity vs. Current and Projected Enrollment
ICCSD High Schools

Enrollment
Capacity
Projected 2022-23 Enrollment

WORK ACTIVITY

2

INSTRUCTIONS

• Elect a recorder and spokesperson
• Quickly complete 3 word answer individually.
• Review the list of District priority items
• As a group, come to consensus on how you will divide your $100 earmark
• Report to group
Iowa City Community School District Priorities

- Neighborhood schools
- Safe schools
- Air conditioning
- Infrastructure upgrades
- Improve energy efficiency
- Multi-purpose spaces
- Athletic facilities

- Adequate site size
- Construct facilities
- Accessibility
- Modular/temporary classrooms
- Class size
- Operational efficiencies
- Classroom upgrades
- Other

Thank You

Next Public Input Sessions: Master Plan Workshops
May 11, 13 & 14