The Indiana Regional Future City Competition
The Future City Project

“Real World”
Hands On
Mentorship

Future City Partners
IPFW College of Engineering, Technology and Computer Science & Helmke Library
Science Central
City of Fort Wayne
Fort Wayne Community Schools
NE Indiana Engineers Week Committee
Future City Mission

Promote Technological Literacy, Math and Science to middle school students by involving 7th and 8th graders in a real world simulation under the guidance of an engineer-mentor and teacher sponsor.

Plan
Design
Construct

Write
Present
Win!

2007 Indiana Regional Winners:
Riverview Middle School,
Huntington
National Future City

- 1992: Developed by National Engineers Week Committee
- 2007: Celebrated 15th Anniversary
- 2002-2007: 9,000 Volunteers
- 2007: Volunteers of the Year by Points of Light Foundation
- 2007: Receives Seal of Approval for Contest Listings by the National Association of Secondary School Principals
- Estimated 235,000 Students and Teachers have participated nationally since inception
- Yearly average: 30,000 students
- 2007: 38 Regions
Future City Teams

Only Schools Register Teams

A Team = 3 Students, 1 Teacher, 1 Engineer-Mentor

What grade are team members and how many teams per school?

7th & 8th graders
3 teams per school

Can more than 3 students work on the project?

Yes, a club can work on as many as 3 projects; however, three students per team must be chosen as “official” to represent a school. Future City has also been a project within gifted, science, social studies, and technology classes.

“This competition validates areas of excellence generally marginalized in middle school.”
-Teacher Survey Comment
Indiana Regional Future City

2007 Community Participation

- Schools Registered: 26
- Teams Registered: 29
- Team Members: 145
- Total Students: 200-250
- Teachers: 21
- Engineers - Mentors: 21
- Judges: 72
- Volunteers: 30
- Sponsors: 18
Future City
Educational Outcomes

• Learn about a variety of careers.
• Learn about cities:
  • Design necessary city features
  • Infrastructure and services
  • Interdependence of technology, industry, commerce
• Learn to use software as a design tool.
• Practice managing a project.
• Improve communication skills.
• Learn about the yearly theme.
• Practice math skills in model building.
• Demonstrate creativity.
• Work as a problem solving team.

2002 Indiana Team with Raytheon Engineer-Mentor
Choosing the Regional Winner: Competition Phases/Scoring

- Computer Score Sheet 20
- SimCity Map Design 80
- City Model Building 120
- Essay & Abstract 90
- Presentation 90

TOTAL 400 Points
Indiana Future City Regional Winners Advance to Nationals in Washington D.C. in February

2005
Indiana Regional Winners
Leo Jr/Sr High School
Leo, IN

2006
Indiana Regional Winners
Riverview Middle School
Huntington, IN
Competition Element: Map Design
Date of Submission: Dec. 12, 2007 by 5:00 pm on line at IPFW website
Also, Submit CD or disk with city postmarked by Dec. 12 with completed

SIMCITY 3000: Use software to design a city with at least 50,000 residents & at least year 2150

- Zoning: City Layout
- City Infrastructure
- Vital City Features
- Balance City Needs:
  - Pollution levels
  - Energy requirements
  - Population growth
  - Budget restrictions
Competition Element: Essay and Abstract
Submission: January 11, 2008 by 5:00 pm via email to Coordinator. Also, mail in a copy by January 11 and include the Essay and Abstract Forms in Handbook pages A-53 & 57

Essay (70 points)
500-700 word essay

2008 Research Theme:
Keeping Future City’s Infrastructure Healthy: Using Nanotechnology to monitor city features.

Abstract (30 points)
300-500 word written abstract describing the basic city design.
Competition Element: Models

Displayed January 19, 2008
IPFW Walb Ballroom

Models (120 points) must:

- Follow size requirements:
  - 25"(W) x 50"(L) x 20"(H)
- Built to scale & proportion
- One moving part
- Primarily use recycled items
- Submission of Expense Record
- Include identification card on model for use at competition
All models look different!

Traditional in appearance or futuristic...a city can be:

- on another planet
- any place on earth
- on or in the ocean
- underground
Teams display their models to a panel of city and county planners & engineers who judge their model presentation. Presentation time: & 5-7 min. followed by questions. Visual Aids can be: flip charts, foam boards, posters on easels. Size Rules: Single display 60”(W) x36”(H) Double display each 30”x36” Review Model and Presentation Score Sheet and Rubric
The Finalist Presentations

6 Teams Compete in a Final Round before Distinguished Judges and all participants.
2008 Future City Competition

Recognition and Awards

- Participation gifts for participants
- Medals and books to finalists
- Trophies to first and second place
- Gift certificates to top six teams
- IPFW Educator Tuition Scholarship for top 2 teachers
National Future City Competition

Regional Winners meet teams from around the U.S. in Washington D.C. during Engineers Week.
2007 Indiana Future Regional
Winners: Riverview Middle School
Who will go to Washington D.C. as the Indiana Regional Champions?!
Review of Deadlines

- School registration: October 15, 2007
- Team registration: Dec. 12, 2007
- Essay Submission: January 11, 2008
- Regional Event: January 19, 2008
- National Event: Engineers Week

LATE SUBMISSIONS SUBJECT TO 5 PT. PENALTY

Points Possible: 400,

Review Score Sheet Summary for Deductions
Indiana Regional Future City Competition

Date: January 19, 2008

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