

# Engineer in the Classroom Award Winning Education

**74<sup>th</sup> Annual IWEA Conference**  
**Indianapolis, Indiana**  
**November 16-18, 2010**

Monte Cherry – Decatur Sanitary District  
Terrence K. Boyer - Clark Dietz Inc.



YOU MAKE IT  
SIMPLE  
WE MAKE IT  
TOUGH!



Mt. Zion Internediot



# Engineer in the Classroom



Welcome



Shayne's Cup

Carol's Cup

2

HOURS  
100 MON-SAT  
DAVE'S COUNTRY CLUB

new contents  
Ashley

9

Mrs. Platt

SR

MAX TO BE USED TO SUNBURN RESISTANT 96H



# Engineer in the Classroom



**MISSION STATEMENT** Encouraging students to consider 'Engineering' as a career is not only a duty to your profession, but should be part of every organization's 'Business Plan'

**???But How Do I Do That???**





# Engineer in the Classroom



EITC is an award winning educational program bringing the wonderful world of Engineering to 5<sup>th</sup> grade students



# Engineer in the Classroom



## Membership

Is

Open to All

We are seeking any and all who are interested in promoting this worthwhile program



1. Why did you choose this project?  
2. What materials did you use?  
3. How did you build it?

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9. How did you build it?

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10. What materials did you use?  
11. How did you build it?



# Engineer in the Classroom



## The Program:

Involves the Engineer administering a comprehensive and flexible curriculum, designed and distributed by EITC, to the 5<sup>th</sup> grade class



# Engineer in the Classroom



## The Program:

Includes a “hands on” activity called the Rube Goldberg Device competition.





# Engineer in the Classroom



## The "Rube"

Students bring 'stuff' from home  
and then:

conceive, design, build and  
debug a working mechanical  
device



# Engineer in the Classroom



## The "Rube"

All of the devices must accomplish the same  
specific goal

such as:

- Break a balloon
- Launch a paper airplane
- Capture a moving object



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## The "Rube"

At the end of the program the devices compete in a one day event at the local venue



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©





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Engineer in the Classroom



## Starting a Local EITC Chapter



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Identify a 'local' Champion



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Build on

**“Teamwork”**

By developing a local Board



# Engineer in the Classroom



## 'Strategic' Partnerships

- University, College and Technical School's Student Engineering Groups
  - Local Engineering Community
    - Consultants
    - Industries
  - State and Local Govt. Units



RUBE'S  
HOLE IN  
ONE

HAR RISTIC  
ELEMENTA



# Engineer in the Classroom



## First Steps (for newly formed board)

- Board Meeting Schedule
- Engineer recruitment
- School Engagement
- Training Schedule
- Competition Venue
- Critical Mass



# Engineer in the Classroom



## EITC Timeline (Typical)

- Receive Goal, Rules (Sept.)
- Suggested School Announcement (Sept.)
- School Sign-up Deadline (Oct.)
- Engineering Recruitment (ongoing)
- Engineer Training Luncheon (Nov.)
- Engineer/Classroom Assignment (Nov.)
- Engineers Schedule 1<sup>st</sup> Classroom Visit (Nov.-Dec.)



# Engineer in the Classroom



## Program Calendar

- EITC Introduction to Classroom – (right after Thanksgiving Break)
- Begin Program – (Anytime after Dec. 1<sup>st</sup>)
- Weekly Classroom Sessions – December to End of February
- EITC Competition – Last Saturday in February
- Regional Competition – U of I Engineering Open House – Early March



# Engineer in the Classroom



## Program Materials

All program materials are developed, produced, and distributed by the EITC Program Office in Decatur. Strict adherence to the EITC administration procedures is required to maintain the program's integrity and assure fairness in all Chapters and competitions. Applicable materials will be emailed to the designated local Board member for distribution to the Chapter.



# Engineer in the Classroom



## What do we still need?

- Entities willing to “step up” and be local Champions!!!!
- Engineering Community interest, commitment and participation



# Engineer in the Classroom



You Can

Program a

PLEASE

!!!!!!



???Questions???



# Engineer in the Classroom



## Our EITC Organization

National Coordinator-Rexlyn Nicole

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Monte Cherry – Decatur Champion

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Terry Boyer – Champaign Champion

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Emil Cook – Springfield Champion

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