IPRO 324
Disaster Recovery
BACKGROUND

• Hurricanes and other natural disasters have a devastating effect on thousands of people every year.
• Hurricane Katrina severely damaged much of the Gulf Coast area leaving many people with next to nothing.
• People are in need of simple, in-expensive buildings for use as homes, work spaces, etc.
GULFPORT, MISSISSIPPI

- Elevation = 25ft above sea level
- Median Household Income = $32,779
- Median House Value = $80,300
- Demographic
  - 60.9% Caucasian
  - 33.5% African American
  - 2.6% Hispanic
TEAM METHODOLOGY

• **Beginning Stages**
  – Define problem to be addressed
  – Divide problem into subtasks
  – Develop sub-teams to address tasks
  – Develop project plan and initial design

• **Implementation Stages**
  – Divide subtasks to individual team members
  – Sub-team leaders check daily progress
  – Sub-team leaders report to full team weekly
  – Team leader checks progress according to project plan
SUB-TEAM TASKS

• Business Team
  – Develop project plan based on team objectives
  – Research funding methods & potential sponsors
  – Research and contact potential clients
  – Create sales and informative documents

• Design Team
  – Develop design to meet team objectives
  – Create construction drawings
  – Construct model
  – Create conceptual images for use in team documents
CLIENT

- Lynn Meadows Discovery Center with the Mississippi Arts Council
LYNN MEADOWS DISCOVERY CENTER

• **Mission**

The Lynn Meadows Discovery Center expands a child’s world by encouraging shared learning experiences to enrich the minds and hearts of children and adults through interactive and entertaining exhibitions and programs.

Through activities designed to simulate the real world of South Mississippi, children have the opportunity to learn about the past and the present; it is with a better understanding of themselves and their community that children can grow to be responsible, global citizens.

• **History**

Today, more than 400 children’s museums throughout the United States break the rules of traditional museums encouraging visitors to touch, talk, have fun and learn. In a children’s museum, the audience rather than the objects are key. The exhibits are catalysts for questions, exploration and discovery and the entire experience is a playground for the mind. The Lynn Meadows Discovery Center is the first children’s museum in Mississippi.

From its inception, The Lynn Meadows Discovery Center has been a community project. With initial funding in 1991 from Gulfport Junior Auxiliary, co-founders Rose Alman and Carole Lynn Meadows have lead the team to make the dream a reality. The Mississippi City Elementary School, constructed in 1915 and an architectural exhibition itself, offers 15,000 square feet of indoor exhibit space, six acres of outdoor play space including a tree house village, an organic garden, an outdoor Performing Pavilion, meeting rooms for workshops as well as camps and a Celebration room for parties.
NEIGHBORHOOD

The Lynn Meadows Discovery Center
LONGITUDINAL SECTION
COST ESTIMATE

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>QUANTITY</th>
<th>PRICE/</th>
<th>TOTAL PRICE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Slab</td>
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<td></td>
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</tr>
<tr>
<td>concrete</td>
<td>1200</td>
<td>$2.00</td>
<td>$2,400.00</td>
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<td>1200 sqft of reinforcing mesh</td>
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<tr>
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<tr>
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<td>18</td>
<td>$1.88</td>
<td>$33.84</td>
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<td>$859.54</td>
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<tr>
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<tr>
<td>doors</td>
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<td>30&quot;x0&quot; fireplace, 36&quot;x0&quot; for laundry</td>
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<tr>
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<td>miscellaneous, nails, bolts, adhesives, paint, etc.</td>
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TOTAL PRICE OF STRUCTURE: $16,831.82
POTENTIAL FUTURE CLIENTS

- Government agencies, such as FEMA.
- Charitable organizations, such as the Red Cross.
- Private individuals residing in areas suffering damage from natural disasters.
OBTAINING CLIENTS

- Contact federal and charitable organizations to discuss their needs and the benefit of our design.
- Go to disaster areas and meet with people in need.
- Distribute informational brochures.
- Contact local governments to obtain method of initial contact for individuals in need.
POTENTIAL SPONSORS

• Major Corporations, such as Motorola, The Home Depot, The Chicago Bears, Lowes.
• Individuals Federal Funding
• Individuals Personal Funds, such as insurance money.
• Many corporations will only donate to not-for-profit organizations.
OBTAINING SPONSORS

- Research Potential Sponsors
- Sent potential sponsors informational booklet.
- Follow up with sponsor / set up meeting.
- Make formal presentation (in person).
- Mediate concerns.
- Ask for commitment.
POTENTIAL DONOR PRESENTATION AND BOOKLET

• Provide background for project, emphasizing the damage incurred.
• Provide information on potential clients (ie Artist Community).
• Provide details on what money will be spent on (building materials, labor, permitting, etc.)
• Provide information on design.
• Provide timeline of construction.
METHOD OF BECOMING NOT-FOR-PROFIT

- Reserve name with Secretary of State
- File Articles of Incorporation with Secretary of State
- Notify County Recorder of Deeds
- Obtain local business license
- Apply for Employer Identification Number
- Obtain tax exempt status (IRS form 501(c)(3))
- Register as a charity
- Get sales tax and property tax exemptions
- Register as a Withholding Agent
ETHICAL ISSUES ADDRESSED

• How to develop a solution that:
  – Quickly helps those in need
  – Is affordable to the mass public
  – Can be safely constructed by novice builders

• How the new construction will affect the area:
  – Affecting local vernacular
  – Affecting local plant and animal life
FUTURE IPRO GOALS

• **Construction: a hands-on learning approach.**
  – A team of students will co-build the project with members of the local community.
  – Disaster victims learn skills to help their neighbors will similar economic building solutions.

• **Building Manual**
  – Students will design a construction manual that explains the building process in a way that relates to the novice builder.

• **Establish Funding**