

IPRO 324 Midterm Report

Fall 2006

**Disaster Recovery:
Do-It-Yourself Home Building**

Advisor: Frank Flury

1.0 Objectives

I PRO 324, Disaster Recovery: Do-It-Yourself Home Building is focused on designing a building manual to aid disaster victims in building new buildings. The objectives of this group are to design a simple but adequate floor plan, create a manual illustrating how to build this design, and to market this manual to a disaster relief organization that would be responsible for the distribution of this manual. Over the course of this semester, the team will be focusing explicitly on aiding an artist community known as New Harmony, located in Gulf Port, Mississippi. The design of the building has been refined and will consist of a large open space with one bathroom and one kitchen area. This design can be used not only by the New Harmony artist community as either a studio, gallery, or living space, but also can also be applied to many other situations. The construction of this design will be very simple, maintaining the original objective of providing a design that someone, with little or no relevant construction experience, can perform much of the labor on their own. The building cost remains approximately \$15,000 - \$20,000. It still appears that this amount of money will be reasonable after the group's research of funding. Future research into funding will be primarily focused on assisting disaster victims in obtaining federal funding. This focus is a result of interaction with the New Harmony community, which informed us that most of the money available to them for construction will be federal funding. In addition, the group will refine possible funding proposals to major corporations. This will assist in procuring additional funding in the event that the federal funding obtained is insufficient. The team is still investigating the means for I PRO 324 to become a not-for-profit organization, if the team should choose to do so in the future. This step will only be taken if the team determines that it is impossible to receive donations without achieving not-for-profit status.

2.0 Results to Date

Currently, the team has accomplished the initial phases of creating the design of the building.

The Design subgroup has evaluated several potential designs, and has chosen one that will fulfill the group's initial objectives. The business team has further researched possible donors and means to obtain funding from these donors; has created a template for the brochure to be used for marketing purposes; and has created an organization name, slogan, and mission statement to be used on marketing materials, as well as if the IPRO should become a not-for-profit organization. Also, the group website is now functional, and the addition of new information is ongoing. The group has also researched the steps for disaster victims to receive federal funding for construction, and has maintained contact with the New Harmony community regarding their status of receiving such funding.

3.0 Revised Tasks/Event Schedule

Several of the tasks expected duration has changed since the original project plan. Establishing a building design that would both fulfill the group objective of a simply constructed, multi-purpose space and that would be the specific needs of our potential client presented more obstacles than originally anticipated. As a result of this, completion dates for detailed design specifications has been altered. This change also affects the completion dates of marketing materials, because the content of these materials is heavily dependent on design specifics. Also, it has been decided that a client contact letter is not necessary due to the circumstances of potential clients living conditions. An informational brochure will serve the purpose of this letter, as it will be more easily circulated and will better present information to potential clients. Further, the initial task scheduled allowed for the final month of the semester to be dedicated to the construction of a full scale mock-up of the design. At this point, it is unclear if the potential benefit of this task will be worth the time required. However, despite the need to push-back several completion dates for the project, the team still expects to complete all necessary tasks by the end of the semester.

TASK	DURATION	START	FINISH
BUSINESS GROUP TASKS			
Develop Project Logo	2 days	8/11/2006	8/14/2006
Establish Mission Statement	2 days	9/14/2006	9/15/2006
Web Page	18 days	8/29/2006	9/21/2006
Develop Web Template	5 days	9/15/2006	9/21/2006
Insert Mission Statement	1 day	9/18/2006	9/18/2006
Write History/Reason of IPRO	1 day	8/29/2006	8/29/2006
Write Info on Past Project	1 day	8/29/2006	8/29/2006
Current Project Info	2 days	8/29/2006	8/30/2006
Input Up-to-date Design Drawings	ongoing	8/29/2006	11/30/2006
Input History of Project	2 days	8/29/2006	8/30/2006
Update Project Progress Report	ongoing	8/29/2006	11/30/2006
Update Contact Information	1 day	8/29/2006	8/29/2006
Project Plan	19 days	8/29/2006	9/22/2006
Develop Template	3 days	9/12/2006	9/14/2006
Define Objectives	1 day	8/29/2006	8/29/2006
Write Project Background	2 days	9/21/2006	9/22/2006
Write Project Methodology	2 days	9/21/2006	9/22/2006
Write Expected Results	2 days	9/21/2006	9/22/2006
Update Schedule of Tasks with Milestones	2 days	9/21/2006	9/22/2006
Record Assigned Responsibilities	2 days	9/13/2006	9/14/2006
Research Clients	5 days	9/14/2006	9/20/2006

Compile Contact Information	5 days	9/14/2006	9/20/2006
Research Investors			
Compile Contact Info	12 days	9/05/2006	9/20/2006
Brainstorm sessions: How to get them to donate	8 days	9/05/2006	9/14/2006
Record Investment History	7 days	9/12/2006	9/20/2006
Research Non-for-Profit	6 days	9/05/2006	9/12/2006
Find out how to get involved with one	14 days	9/04/2006	9/21/2006
Find out how to become one	14 days	9/04/2006	9/21/2006
Develop Investor Initial Contact Letter	40 days	9/05/2006	10/30/2006
Investor Presentation	2 days	9/21/2006	11/09/2006
Develop Template	7 days	9/21/2006	9/29/2006
Establish Argument for Investing	2 days	9/21/2006	9/22/2006
Create Powerpoint	9 days	10/27/2006	11/09/2006
Client Presentation	7 days	9/21/2006	11/09/2006
Develop Template	7 days	10/21/2006	10/28/2006
Establish Argument to Commit	2 days	9/21/2006	9/22/2006
Create Powerpoint	7 days	9/21/2006	11/09/2006
DESIGN GROUP TASKS	31 days	9/14/2006	10/26/2006
Conceptual Design/Design Programming	14 days	9/14/2006	10/03/2006
Model for Presentation	4 days	9/14/2006	9/19/2006
Schematic Design	11 days	10/03/2006	10/17/2006
Design Development	10 days	10/17/2006	10/10/2006
Materials of Construction	5 days	10/17/2006	10/24/2006
Sections, Dtls, etc	10 days	10/17/2006	10/31/2006
Establish Method of Transport	2 days	10/28/2006	10/30/2006
Develop Method of Construction	3 days	10/31/2006	11/03/2006
Establish Schedule of Construction	3 days	10/31/2006	11/02/2006
Finalize Construction Documents	3 days	10/31/2006	11/02/2006
GENERAL TASKS			
IPRO day presentation	30 days	10/20/2006	11/30/2006
Design Brochure	7 days	11/22/2006	11/30/2006
Design Booklet	7 days	11/22/2006	11/30/2006
Build Mock-up	30 days	10/20/2006	11/30/2006
Mid-Term Report	5 days	10/16/2006	10/20/2006

4.0 Updated Task Assignments and Designation of Roles

The updated task assignments reflect the changes in the task schedule. Much of the work listed on the project plan was continued to this point. Now that the initial design phase is complete, more specific tasks will be assigned and completed as needed. At this point, tasks are still generally assigned to either the business or design team, and individual task assignments and subtasks will be developed as a more detailed design is developed.

First Name	Last Name	Major / Minor	Skills and Strengths	Experience and Academic Interests	Team	Why they are on the Business or Design team.	Assignments done for IPRO so far.
Kelleny	Allen	Architecture	-Dreamweaver -Microsoft Office -Adobe Suite -CAD -3d Max	-3D animation project -Large scale model -Personal Website -Marketing	Design	Architecture Major	-Worked on Design -Worked on Project Plan
Christina	Barrett	Computer Science / Business	-Proficient with Microsoft Office, Microsoft Money, Paint Shop Pro 7, Print Artist 8, and Java. -Familiar with Access, Adobe InDesign, Unix, C, C++	-Built a loft. -Interested in any type of multimedia. -Created a PowerPoint similar to a web site and one similar to a small cartoon. -Helped plan and create an IIT Yearbook.	Business	Business Minor	-Went to the IPRO Games -Went to the Project Plan Workshop -Webmaster -Researched information on how to be a non-profit org -Collected personal information for the Project Plan -Interviewed

							Professor Frank Flury for the IPRO background -Edited project plan for use in midterm report
Julian	Beltran	Mechanical Engineering	-Proficient with AutoCAD, Pro-E, and Microsoft Office -a hard worker -a reluctant leader at times -hates to lose -hates having to compete with something not up to par -mentally prepared for IPRO Day	-Worked at an internship over the summer at Zebra Technologies as a design engineer. Because of that, knows how important it is to minimize costs of materials and labor.	Business	Felt that the design portion was suited more for an architecture student rather than an engineer, so he joined the Business Team.	-Brainstorming our logo, motto, mission statement and group name as a possible nonprofit organization. -Researched into Home Depot, Lowes and Menards as possible donors/partners. -Brainstorming direction IPRO should take (e.g. prebuilt house v. true do-it-yourself). -Project Plan - Methodology and Expected Results in cooperation with Jeremy Saulog.
Frank	Carello	Architecture / Construction Management	-Freehand drawing -Isometric and perspective drawing -Model building, 3D	-Works part-time at Ridgeland Associates Inc, an Architecture Firm	Design	Architecture Major and enjoys design.	-Helped with design scheme and concept development.

			<p>modeling in CAD, Photoshop and Illustrator CS, AutoCAD 14R through AutoCAD 2007.</p> <ul style="list-style-type: none"> -CAD drafting -Photoshop -Design 				
Lukasz	Dakowicz	Architecture	<ul style="list-style-type: none"> -Carpenter -Furniture builder, great with "hands-on" 	-Craftsman for 7 years	Design	Architecture Major	-Helped with the design scheme.
Susanna	Duecker	Architecture, City and Regional Planning	<ul style="list-style-type: none"> -architectural and business, pr, communications -Can do quick and critical analysis of situations. -Able to find innovative solutions. -Good communicator/facilitator. 	-Interested in urban studies, sociology, psychology, and the world.	Business	<ul style="list-style-type: none"> -Studied economics for two semesters -Interested in the entrepreneurial field, especially non-for-profit. 	<ul style="list-style-type: none"> -Researched the possible advantages / disadvantages of establishing a non-for-profit organization for our IPRO and possible existing non-for-profit liaisons.
Melissa	Gandhi	Political Science/Philosophy (Pre-Law)	<ul style="list-style-type: none"> -Fast typer -Good at researching and writing papers and financial proposals 	-Interested in Political aspects and social aspects.	Business	<ul style="list-style-type: none"> -Took an accounting class and used to major in business. -Has a background in financing. 	<ul style="list-style-type: none"> -Wrote the background part of the Project Plan. -Brainstormed on what the name and logo could be -Reserached investors.
Amanda	Hallberg	Architectur / Psychology	<ul style="list-style-type: none"> -Building Design -Graphic Presentation -Communication 	-Interested in the link between individual and group psychologies and the built environment.	Design Team Leader	<ul style="list-style-type: none"> -Interested in both the design problem as well as the execution of 	<ul style="list-style-type: none"> -Helped with Building Design and contacting and working with Ruth Thompsen (Hancock Center

						graphically presenting this type of an idea (and how to build it) to the non-architect/disaster victim.	Art Director).
Veronica	Hernandez	Architecture with a specialization in Architectural History	Certified in Architecture Technology A.A.S and Computer Aid Design, Intern Architect mathematics, research, drafting, designing, & graphics	Experience in Retail management, & construction documents and any matters concerning Architecture. I am interested in pursuing a Master in Architecture and Structural Engineering and Design Build projects (hands on training).	Design	-Joined the IPRO Design to get hands on training. -Experience in the Architecture field, which consists of site field work (analysis), construction documents, and code.	-Worked in concept design, charrettes and research of materials and architectural innovations.
Sabine	Kollwitz	Architecture	-Freehand drawing -Analyze critically design	-Sociological impact of Architecture	Design	-Enjoys designing. -Hates red tape and bureaucracy.	-Came up with a sketch plan. -Inputs on the design team.
Melissa	Lemons	Aerospace Engineering	-Technical report writing -Analysis using excel -Studious -Hardworking	-Interested in aeronautics -Experience working in the satellite field (Lockheed Martin)	Business	-Knew that she would be a greater asset to Business than to Design. -Has the common	-Worked on the beginning of a business plan -Researched possible donors (large corporations) -Wrote objectives

						sense it takes to manage money -Has the people skills to deal with donors.	section of the project plan. -Wrote initial draft of midterm report
Jimmy	Rotella	Architecture	-Computers: hardware and software -Hard working -Goal oriented -Quick learner -Easy going and friendly	-Work at an architecture firm -Have worked with computers and software for many years.	Design	-Enjoys designing. -Has good design skills.	-Helped with the preliminary design.
Jeremy	Saulog	Aerospace and Mechanical Engineering	-Proficient with AutoCAD and Microsoft Office -Fast learner -Hard working	-Aerospace and Psychology	Business	-Felt that he was more suited to be on business team than on the design team.	-Brainstormed logo, motto, and mission statement. -Researched into various corporations as possible donors, sponsors, etc. -Did the methodology and expected results portions of the Project Plan in cooperation with Julian Beltran.
Peter	Smagur	Civil Engineering	-Use of MS Project, Excel, Word, Power Point, and Access and CAD. -Strong organizational leadership skills	-Professional Experience managing installation and construction projects -Professional experience in timber construction -Classroom and professional experience	Business Team Leader	Has practical experience in both the design and business aspects of the project,	-Attended IPRO Project Management Workshop. -Established timeline of tasks to complete

				estimating construction costs. -Experience working with Habitat for Humanity		specifically cost and management.	project. -Established preliminary project budget. -Researched product sales letters and brochures. -Developed initial marketing brochure template -Compiled final midterm report
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Designation of Roles

Minute Taker: This person is in charge of taking minutes each week. The person taking the minutes varies each week.

August 24, 2006	IPRO first class in HUB Ballroom, took test
August 29, 2006	We all watched an intro slide show.
August 31, 2006	Melissa Gandhi
September 5, 2006	Melissa Lemons
September 7, 2006	Peter Smagur
September 12, 2006	Frank Carello
September 14, 2006	Frank Carello and Peter Smagur
September 19, 2006	Peter Smagur
September 21, 2006	Christina Barrett
September 26, 2006	Peter Smagur
September 28, 2006	Christina Barrett
October 3, 2006	took IPRO test
October 5, 2006	Melissa Lemons
October 10, 2006	Peter Smagur
October 12, 2006	Christina Barrett
October 17, 2006	Christina Barrett
October 24, 2006	Christina Barrett
October 26, 2006	Christina Barrett

Master Schedule Maker: This member is responsible for collecting schedules from all the team members and developing a master schedule, which tells the team when members are available and how to contact them.

Melissa Gandhi

Minute Organizer: This member is responsible for collecting and putting the weekly minutes into a set template.

Christina Barrett

Webmaster: This member is responsible for creating and maintaining the IPRO 324 web site.

Christina Barrett

5.0 Barriers and Obstacles

One of the greatest obstacles faced by the team thus far was creating our objectives. It was hard to get the whole team to agree on the design of the building, i.e., whether it would be modular in nature, whether it would be a permanent or temporary structure. Another large obstacle that the team is still faced with is that of funding. Through the research performed by members of the business team, the process of becoming a not-for-profit organization was discovered to be incredibly long and cumbersome. It became evident to the team that although the team could complete the necessary steps and paperwork, we would not see our status as a not-for-profit organization granted within the limit of the duration of the IPRO. Most organizations will not donate to a group that does not have this status, so the business team was faced with the obstacle of figuring out how to get funding without having this status. Also, it is difficult to know how much funding is needed to assist the New Harmony community because they do not know how much federal funding they will be receiving; nor do they know the details regarding how that money may be spent. The main difficulty experienced by the design team was attempting to create a design that would meet the needs of the Artist community now, but would be applicable to broader cases later.