# **IPRO 306**



# Enhancing Psychology Research Through Advanced Communications Technology

## Purpose

There exists an uncertainty in the data of psychology research. The reliability of the clinically depressed population's retrospective recall of mood is unproven. The term "Retrospective recall of mood" refers to the ability to remember past emotional experiences. While the scientific literature shows exaggeration of positive affect with healthy individuals, the cognitive patterns in clinically depressed individuals are still unknown." IPRO 306 will help to assess whether the patterns of retrospective recall of mood found in clinically depressed individuals are different from those seen in the non-depressed clinical population.

The results of this study are both scientific and clinical in application. Advanced technology allows researchers to obtain instantaneous measurement of mood which can be used to determine the accuracy of a person's retrospective recall.

This is done by evaluating recall accuracy in the non-hospitalized clinically depressed population and comparing it to that of the non-clinical population.

## Goals

The specific objective of the Fall 2006 semester were as follows:

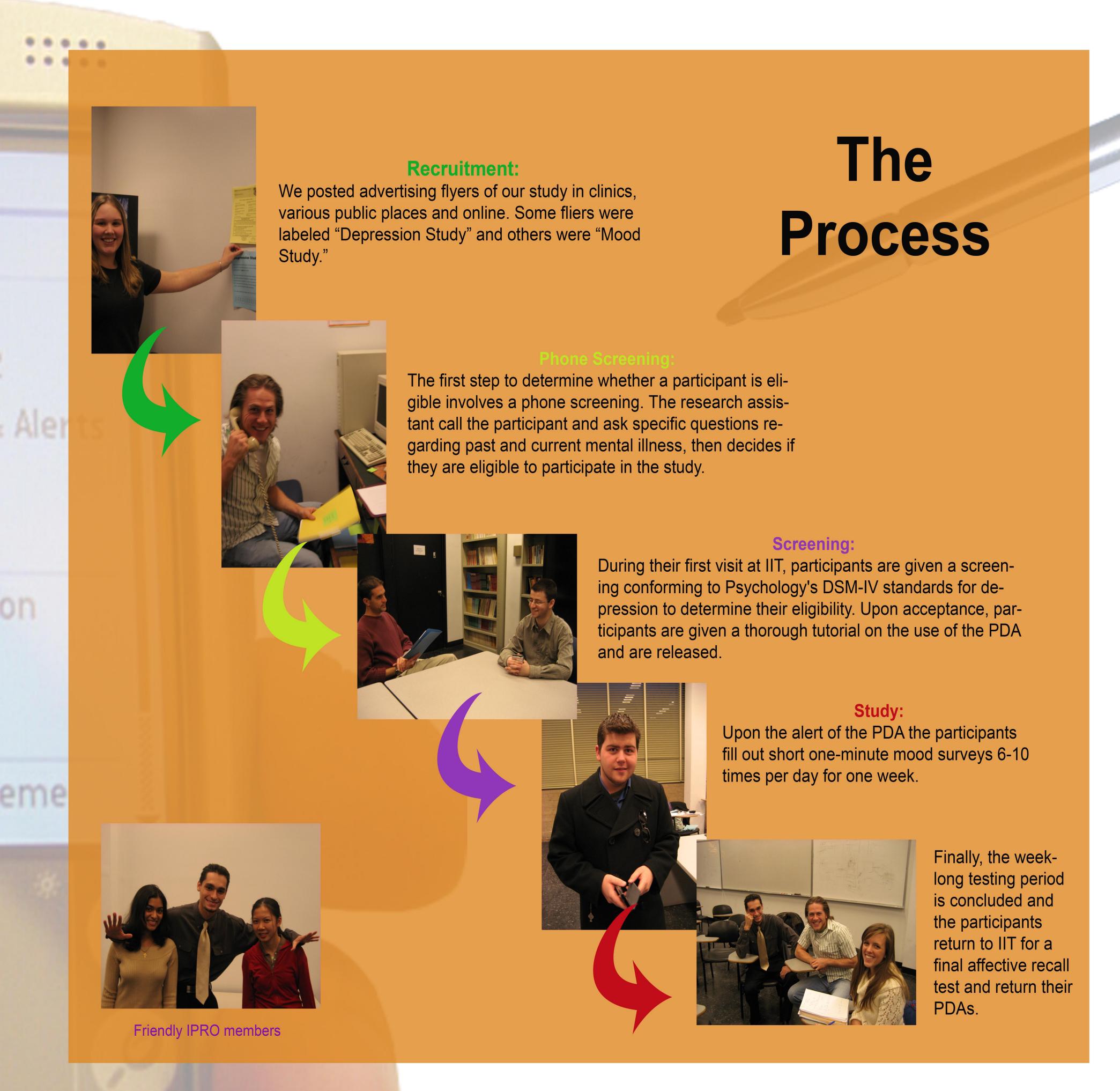
- -Establish the materials and methods of conducting the study
- -Obtain PDAs
- -Program & troubleshoot software
- -Conduct a pilot study
- -Develop recruitment plan
- -Commence study

Data collection and analysis will extend into the second semester of this IPRO.

### Results

For this semester of our IPRO, a number of the goals we set for ourselves were accomplished:

- -Created necessary subteams for every step in the process (see
- middle right)
- -Obtained PDAs
- -Successfully obtained and implemnted ESP software
- -Conducted a informative pilot study
- -Developed an active and lasting recruitment plan
- -Advertised for our study
- -Screened our first volunteers
- -Produced a number of participants
- -Retrieved a small amount of data



# Response Graph 6 6 6 6 6 6 Fix:ited?

**The Questions**: The Questions were derived directly from the Positive Affect/Negative Affect Survey (PANAS). Each question describes a different feeling or emotion. Among others, they include interested, distressed, excited, upset and guilty. The answer choices varied from "extremely" to "very slightly".

**The Data:** While the actual data downloaded from the PDA appears as a text file a graph can be created that shows how their responses changed with each beep. The graph to the left shows

**Ethical Concerns**: Since the study involves human participants, there are important ethical guidelines to follow. One way the team addressed this was by completing the Human Participant Protections Education for Research Teams provided by the National Cancer Institute. Also, every step of the process involves procedures to keep the participants identicfication and information confidential. Specific issues considered were including people of any race, gender or educational background.and excluding any IIT affiliates

# The Team

**Kevin Franke** - Project Manager Team involvement: Screening Major: Psychology

#### Stephanie Walter

Team Leadership: Recruitment
Team involvement: PDAs, Data Management, IPRO
Poster/Abstract/Brochure

Major: Aeorspace & Mechanical Engineering

#### **Christopher Jones**

Team Leadership: PDAs, Screening
Team involvement: Recruitment, IPRO Presentation
Major: Psychology

#### Tarek Abou-Nemeh

Team involvement: Data Management, IPRO Poster/Abstract/Brochure/Reports Major: Biology

#### Alice Jacob

Team Leadership: IPRO Presentation
Team involvement: Screening, IPRO Reports
Major: Biology

#### Tina Chiu

Team Leadership: IPRO Reports
Team involvement: Data Management
Major: Psychology

#### **Vlad Vilenchik**

Team involvement: PDAs, Data Management Major: Information Technology & Management

#### **Emma Sweikert**

Team Leadership: Data Management
Team involvement: Recruitment, IPRO Reports
Major: Psychology

#### **Chelsea Miller**

Team Leadership: IPRO Poster/Abstract/Brochure Team involvement: Screening, PDAs, Major: Architecture

Dror Ben-Zeev M.S. - Advisor

Michael Young Ph. D. - Advisor

