

Title: Improvement in Stadium Seating

Principal Investigator: Ryan J. Vojir (Graduate Student)

You are being asked to be a volunteer in a research study.

Purpose: The purpose of this study is: To have individuals interface with and evaluate a working seat model of a stadium seating design. The evaluation is necessary to attain an understanding of what fans describe as, and require of, comfort and safety for stadium seating. The estimated number of participants for this evaluation is twenty. Participants will be chosen to provide for a wide range of sizes for interface with the model.

Procedures: If you decide to be in this study, your part will involve: Allowing the principal investigator to fill out a one-page questionnaire relating to your evaluation of the working model, as well as possibly being photographed or videotaped interfacing with the seat model.

Risks/Discomforts: There are no foreseeable risks to you by participating.

Benefits: There are no direct benefits to you by participating however your participation will help us provide solutions and alternatives to the airline industry to stadium seating solutions to improve individual comfort.

Compensation to You: You will not be paid for participating in this study.

Confidentiality: Photography or videotaping may be involved for evaluation as well as for possible presentation purposes. You may be identifiable in either videotape and/or photographs. Photography or videotaping will be required for presentation purposes in order to illustrate the effectiveness and thoroughness of the design's ability to support a wide range of the general public. Your age, height, and weight will only be used for statistical purposes. Only the Principal Investigator will have physical access to this information, the videotapes, and photographs.

Your age, height, and weight will only be used for statistical purposes. Only the Principal Investigator will have access to this information. Your data will be kept in a limited access location and will be kept for archival purposes. Your name will not appear when the results of this study are presented and published.

Please initial below if you consent to the use of videotape or photography

Yes, I consent to both _____ **No, I do not consent to both** _____

Costs to You: There is no cost to you for participating.

In Case of Injury/Harm: If you are injured as a result of being in this evaluation, please contact Ryan J Vojir at telephone # (404) 894-8186 or advisor Terri Laurenceau at telephone # (404) 385-1272. Neither the Principal Investigator nor Georgia Institute of Technology have made provision for payment of costs associated with any injury resulting from participation in this study.

Subject Rights:

- Your participation in this study is voluntary. You do not have to be in this study if you don't want to be.
- You have the right to change your mind and not complete the questionnaire at any time without giving any reason, and without penalty.
- You will be given a copy of this consent form to keep.

Questions about the Study or Your Rights as a Research Subject

- If you have any questions about the study, you may contact Ryan J Vojir at telephone # (404) 894-8186.
- If you have any questions about your rights as a research subject, you may contact the Office of Research Compliance, Georgia Institute of Technology at (404) 894-6942.

If you sign below, it means that you have read (or have had read to you) the information given consent form, and you would like to be a volunteer in this study.

Subject Name (please print)

Participant Signature

Date

Signature of Person Obtaining Consent (if applicable)

Date

The following questionnaire will be used by the principal investigator as a guide for querying the participants about their interaction with the stadium seat model.

1.) Your age: _____
 Your height*: _____ * Approximate Percentile Male Female _____%
 Your weight*: _____ * Approximate Percentile Male Female _____%

2.) How often do you sit in sporting/concert event seating?
 a. Very often (several times a month)
 b. Periodically (Once or twice a year)
 c. Occasionally (Once every year or less)
 d. Rarely (Less than once a year)

3.) What is your personal definition of comfort in general and comfort as it relates to sporting/concert events?

4.) Do you experience any physical discomfort after/during sporting/concert events? If so what?

5.) What specific aspects do you find most uncomfortable about seating in a stadium/concert seat?

6.) If you could change anything about stadium/concert seating, what would it be? Why?

SITTING

7.) Seat Back:
 Height: Adequate Too tall Too short

 Width: Adequate Too thin

 Form comfort: Adequate Too shallow Too deep Shape is comfortable Shape is uncomfortable

 Initial seat angle: Adequate Too steep Not steep enough

8.) Seat Bottom:
 Height: Adequate Too tall Too short

 Width: Adequate Too thin

 Form comfort: Adequate Too shallow Too deep Shape is comfortable Shape is uncomfortable

 Initial seat angle: Adequate Too steep Not steep enough

 Form comfort: Adequate Too shallow Too deep Shape is comfortable Shape is uncomfortable

Initial seat angle: Adequate Too steep Not steep enough

Seat Length: Adequate Too long Too short

Gap between seat back and seat bottom: Adequate Too short Too long

Do you believe that the seat bottom rotating up would aid in entrance and exit? Yes No

ARMRESTS

9.) Would you trade less seat width for armrests? If so how wide/how many inches each way?

LEANING

10.) What do you think of the idea to design the seat to dual as a leaning structure?

11.) Posterior Interface:

Rear rests on: Lower seat part Upper seat part In between

Height: Adequate Too tall Too short

Width: Adequate Too thin

Form comfort: Adequate Too shallow Too deep Shape is comfortable Shape is uncomfortable

Initial seat angle: Adequate Too steep Not steep enough

Do you feel stable or do you feel like you might slide or fall? Why?

Would you feel more comfortable during a sporting event: Only standing Only leaning Switching between both

How successful do you think a seat designed additionally for leaning, would do in a sporting/concert environment?

OTHER

12.) What else should be incorporated or eliminated from the design? Why?

Miscellaneous:

