

Consent Form

I am an undergraduate studying psychology at Saint Mary's College of California in Moraga. The main purpose of my study is to find implications of which situation or combination of variables will increase performance in vigilance with relevance to people working in outer space.

I am asking for your permission to participate in my study. The study will include a brief questionnaire to determine your personality variable, and then a computer based vigilance task. Vigilance is the ability to maintain attention and awareness over long periods of time. It should take you about 20-25 minutes to complete. Your participation is voluntary and you may choose to withdraw at any time or choose not to answer every question. I assure you that if you choose to participate, your written responses will remain confidential. There are no expected risks to participating in this experiment.

In gratitude for participating in my study, you will be eligible to receive a \$10 gift card as compensation.

Once I collect the information, the data will be analyzed with the assistance of my faculty advisor, Dr. Paul Zarnoth, I will then present and discuss the results at the Brousseau Poster Session in October. You are welcome to ask me for a copy of my report when it is completed.

Should you have any questions or concerns at any point during the duration of my study, please feel free to contact me by email at scc4@stmarys-ca.edu. You can also contact my faculty advisor at pzarnoth@stmarys-ca.edu. Thank you in advance for your assistance with my research.

Most Sincerely,

Sean Chacon

You affirm that you have read and understand the above information and have been given a chance to ask questions of the experimenter, if you are uncertain or unclear about any of the information discussed above.

Signature of Participant

Date

NEO Personality Inventory

Instructions

Write only where indicated in this packet. Carefully read all of the instructions before beginning. This questionnaire contains 15 statements. Read each statement carefully. For each statement circle the number with the response that best represents your opinion. Make sure that your answer is correct.

- Circle **1** if you *strongly disagree* or the statement is definitely false.
- Circle **2** if you *disagree* or the statement is mostly false.
- Circle **3** if you are *neutral* on the statement, you cannot decide, or the statement is about equally true and false.
- Circle **4** if you *agree* or the statement is mostly true.
- Circle **5** if you *strongly agree* or the statement is definitely true.

Circle only one response for each statement. Respond to all of the statements, making sure that you circle the correct response.

1. I like to have a lot of people around me.

1 2 3 4 5

2. I laugh easily.

1 2 3 4 5

3. I'm pretty good about pacing myself so as to get things done on time.

1 2 3 4 5

4. I don't consider myself especially "light-hearted".

1 2 3 4 5

5. I often try new and foreign foods.

1 2 3 4 5

6. I really enjoy talking to people.

1 2 3 4 5

7. I like to be where the action is.

1 2 3 4 5

8. I usually prefer to do things alone.

1 2 3 4 5

9. I often feel as if I'm bursting with energy.

1 2 3 4 5

10. I am a cheerful, high-spirited person.

1 2 3 4 5

11. Once I find the right way to do something, I stick with it.

1 2 3 4 5

12. I am not a cheerful optimist.

1 2 3 4 5

13. My life is fast-paced.

1 2 3 4 5

14. I am a very active person.

1 2 3 4 5

15. I would rather go my own way than be a leader of others.

1 2 3 4 5

Debriefing Form

The title of my study is “Vigilant Attention, Extraversion/Introversion, and their Implications for Astronaut Selection”. The main purpose of my study is to find implications of which situation or combination of variables will increase performance in vigilance. Vigilance is the ability to maintain attention and awareness over long periods of time. As more people start entering the cosmic space, it will be important to inform people about the human capacity for vigilant attention and recommendations for preparing for situations or jobs in space that require intense focus. The variables in this study include frequency of stimuli, repeated measures, level of extraversion/introversion, and working alone or not. The variables being measured will be accuracy and reaction time. My hypothesis is that participants with a higher level of introversion will perform better on the vigilance task when working alone than participants of high extraversion working alone. Because extraverts thrive with more stimulation, I predict that they will do better than introverts when another person is present, because it raises the level of stimulation.

The data of this experiment will be analyzed with the assistance of my faculty advisor, Dr. Paul Zarnoth, and the results will be presented and discussed at the Brousseau Poster Session in October. You are welcome to ask me for a copy of my report when it is completed. It would be greatly appreciated and beneficial to my research if you refrain from discussing the purpose or nature of my study with others.

Should you have any questions or concerns, please feel free to contact me by email at scc4@stmarys-ca.edu. You can also contact my faculty advisor at pzarnoth@stmarys-ca.edu. Thank you for your assistance with my research.

