University of Maryland College Park
Institutional Review Board
IRB Initial Application - Part 1

Last edited by: Lemuel Carpenter

Last edited on: February 16, 2018

[click for checklist]

☐ **Full**

☑ **Expedited**

☐ **Exempt**

[1200317-1] Experimental Investigation of Habitat Design Commonality Across Differing Gravitation Levels

Answer all questions on this form completely, include attachments and obtain signatures of Co-Investigators and your department IRB Liaison prior to final submission on IRBNet.

I. Principal Investigator

Name:	David Akin	**Status:**	Faculty
Department:	ENAE- Aerospace Engineering		
Phone:	3014051138	**Email:**	dakin@ssl.umd.edu
Address:	Building 382		

II. Faculty Advisor N/A ☑

Note: A faculty advisor is required if the PI is a student resident or fellow and the Faculty Advisor MUST sign this package through IRBNet.

Name:

Department:

Phone: **Email:**

Address:

III. Co-Investigators N/A ☐

Note: All co-investigators MUST sign this package through IRBNet.

Name:	Lemuel Carpenter		
Department:	ENAE- Aerospace Engineering		
Phone:	3014057353	**Email:**	lcarpenter@ssl.umd.edu
Address:	Building 382		

IV. Funding Information N/A ☑

Note: A copy of the awarded grant application (minus budgetary information) must be provided.

Status	Funding Type	Sponsor Name	ORAA #	COI

Funding Title:

V. Project Information

Lay Summary:

We would like to test how tread spacing on a staircase effects comfort while weighted to different gravity levels. Initial testing will be on land and subjects will ascend and descend a staircase while wearing saftey equipment. In the water, subjects will wear a full face mask and have a long air hose to ensure no excess weight or discomfort is applied. They will be weighed down to their appropriate weight if on Mars or the Moon and proceed to ascend and desced the staircase.

Requested Review Path:

- ☐ Full
- ☑ Expedited
- ☐ Exempt

Projected Completion Date: 02/01/2019

Research Category:

- ☐ Faculty or Staff Research
- ☑ Graduate Student Research
- ☐ Student/Faculty Collaboration
- ☐ Undergraduate Student Research
- ☐ Other:

Academic Committee Review:

- ☐ Yes - Masters committee
- ☐ Yes - Dissertation committee
- ☑ No additional academic review required

Participant Incentives:

- ☐ Cash
- ☐ Check
- ☐ Raffle/ Lottery:
- ☐ Extra Credit/ Course Credit:
- ☐ Gift:

- [ ] Food:

- [ ] Other:

- [x] Not Applicable

VI. Performance Sites

Performance Sites Engaged in Human Subject Research:
(where the research will be conducted)

- [x] UMCP - Campus: Neutral Buoyancy Research Facility Building 382
- [ ] University of Maryland - Extension:
- [ ] Campus Health Center
- [ ] Universities at Shady Grove:
- [ ] Schools:
- [ ] Prison/Jail:
- [ ] Other:

Is this an international study?

- [ ] Yes *[complete Section 10 of Initial Application Part 2]*
- [x] No

If yes: **International Sites:**

VII. Subject Information

Targeted Populations:

- [x] Normal adult/healthy persons
- [ ] Cognitively impaired persons
- [ ] Economically disadvantaged persons
- [ ] Educationally disadvantaged persons
- [ ] Elderly/aged persons
- [ ] Hospital patients or outpatients
- [ ] Illiterate persons
- [ ] Individuals with physical disabilities
- [ ] Minority group(s)
- [ ] Minors/children
  [inclusion of anyone under 18 requires a Parental Consent Form]
- [ ] Non-English speakers
- [ ] Pregnant women

- [ ] Prisoners
- [x] Students (non-minors)
- [ ] UMCP employees
- [ ] Other special characteristics and special populations:

  Persons who are certified by the University of Maryland Diving Control Board and checked out by the Diving Saftey Officer.

Informed Consent Process:

- [x] Informed consent will be obtained from subjects and documented with a signed, written consent form
- [ ] Informed consent will be obtained from subjects, but no signed consent form will be used. This includes oral consent and implied consent (e.g., completing a survey).
  [please see the Requesting a Waiver of Informed Consent Guidance]
- [ ] Fully informed consent will not be obtained from all subjects. This includes deception, withholding information, etc.
  [please see the Requesting a Waiver of Informed Consent Guidance]

Will health information be collected?
(See the HIPAA section of the IRB website for more information and additional resources.)

- [x] No
- [ ] Yes, data are de-identified or constitute a limited data set.
- [ ] Yes, subject's authorization will be obtained or a waiver or alteration of authorization will be requested.
  [complete IRB Form HIPAA]

VIII. Research Procedures

Research Procedures:

- [ ] Records review - retrospective
- [ ] Records review - prospective
- [ ] Education research
- [ ] Behavioral experiments
- [ ] Behavioral observation
- [x] Questionnaires/surveys
- [ ] Interviews
- [ ] Audiotaping/videotaping
- [ ] The Internet
- [ ] Deception
  [describe debriefing process in Section 7 of Initial Application Part 2]
- [ ] Cancer Interventions (health promotion, implementation, etc.)
- [ ] None of the above

Biomedical Procedures:

- [ ] Tissue banking

- [ ] Biopsy
- [ ] Blood draw:
- [ ] Use of pre-existing tissues
- [ ] Clinical tests
- [ ] Radiology
- [ ] Radiation/X-ray/DEXA
- [ ] fMRI
  [use IRB fMRI templates]
- [ ] Pregnancy screening
- [ ] EKG
- [ ] EEG
- [ ] Genetic analysis
- [x] None of the above

IX. Assurances and Signatures

Assurances
This research, once approved, is subject to continuing review and approval by the IRB. The principal investigator will maintain records of this research according to IRB guidelines. If these conditions are not met, approval of this research could be suspended or terminated.

Electronic signatures certify that:

- The signatory agrees that he or she is aware of the policies on research involving participants of the University of Maryland College Park and will safeguard the rights, dignity, and privacy of all participants.
- The information provided in this application form is correct.
- The principal investigator will seek and obtain prior written approval from the IRB for any substantive modification in the proposal, including but not limited to changes in cooperating investigators/ agencies as well as changes in procedures.
- Unexpected or otherwise significant adverse events in the course of this study which may affect the risks and benefits to participation will be reported to the IRB.
- The research will not be initiated and subjects cannot be recruited until final written approval is granted.

The following signatures are required for new project submissions:

- Principal Investigator
- Co-Investigator(s)
- IRB Liaison (click here for list)

INSTRUCTIONS TO RESEARCHERS

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Now that you have completed this document, check your work, attach all appropriate documents, electronically sign and submit your work. Based on your responses, the following additional

documentation must be included with this package before submission. Upload additional documentation in the Designer.

Documents available in the IRBNet Forms and Templates Library:

- Consent Form (template and Completion Guide in Library)

Additional required documentation:
No additional documents are required for this project.

If you have any questions, please refer to the guidelines in the IRBNet Forms and Templates Library or contact irb@umd.edu.