Regulated Research Institutional/Industrial Setting Form (1C)
This form must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s)		Matthew Murno					
Title of Project		Optimizing Strength and Impermeability of Martian Sulfur Concrete Building Structures					
To b (Re:	pe completed by sponses must be or	the Supervising Adult in the Setting (NOT the Student(s)) after experimenthe form as it is required to be displayed at student's project booth; please do not p		41		<u>,</u>	
1.	Did you or your pr substantial guidan a. If no, describe	ted research at my work site: oxy (e.g. graduate student, postdoc, employee) mentor or provide ce to the student researcher? your and/or your institution's role with the student researcher and t (e.g. supervised use of equipment on site without ongoing mentorship v.	Z	Yes		No	
E	. If yes, complete	e questions 2–5.					
Ų	Jse questions 3, 4 a	earch project a subset of your ongoing research or work? and 5 to detail how the student's project was similar and/or bing research or work at your site.	D .	Yes	iZi	No	
3. C	Describe the indepo developed the l	endence and creativity with which the student: hypotheses or engineering goals for the research project					
	project. At the project and h	roached me in the summer of 2019 about his at point, he had the idea for the research ad formulated a list of goals. It was his idea to discontinuous make Martian concrete.					
b.	designed the me	ethodology for his/her research project					
	own. I provid some of the	the methodology for the project mainly on his ed him with standard test procedures for experiments and he developed the mix ne sulfur concrete with my guidance.					
c.	analyzed and int	cerpreted data					
	Matthew performance with the Me spoke servations.	ormed the initial data analysis on his own. veral times after this to clarify some of the					

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Regulated Research Institutional/Industrial Setting Form (1C) Continued

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4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

Matthew visited the civil engineering laboratory at Manhattan College several times to conduct this research. He developed the mix designs for the sulfur concrete based on my guidance. In the laboratory he mixed, prepared, and later demolded the specimens made of sulfur concrete. He performed all of the experiments needed to calculate the density, percent air voids, and absorption of the specimens. He observed as I performed the compression tests on the specimens using a concrete compression machine.

5. Did the student(s) work on the project as part of a group?
If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

□ Yes IZI No

I attest that the student has conducted the work as indicated above and that any required review and approval by institutional regulatory board (IRB/IACUC/IBC) has been obtained. Copies are attached if applicable. I further acknowledge that the student will be presenting this work publicly in competition and I have communicated with t student research regarding any requirements for my review and/or restrictions of what is publicized.						
Daniel Hochstein	Assistant Professor					
Supervising Adult's Printed Name Signature	Title					
Manhattan College	12/11/19					
Institution	Date Signed (must be after experi-					
4513 Manhattan College Parkway, Bronx NY 10471	mentation) (mm/dd/yy) (718) 862-7177 Email/Phone					
Address						