

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) Jalaj Mehta and Lauren Stiefel

Title of Project Enhancing the Flame Retardancy of Biodegradable Poly(vinyl alcohol) Hydrogels with Resorcinol Bis(diphenyl phosphate) Coated Starch

To be completed by the Supervising Adult in the Setting (NOT the Student(s)) after experimentation:

(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

The student(s) conducted research at my work site:

1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher? ☒ X yes ☐ No
 - a. If no, describe your and/or your institution's role with the student researcher and his/her project (e.g. supervised use of equipment on site without ongoing mentorship and sign below.
 - b. If yes, complete questions 2–5.
2. Is the student's research project a subset of your ongoing research or work? ☐ Yes ☒ X No

Use questions 3, 4 and 5 to detail how the student's project was similar and/or different from ongoing research or work at your site.

The students developed a skin cream to prevent burns from exposure to open fire. This is very different from anything that I have ever done in my laboratory.

3. Describe the independence and creativity with which the student:
 - a. developed the hypotheses or engineering goals for the research projectThe students researched this topic on their own and formulated the hypothesis

- b. designed the methodology for his/her research projectThe students developed the methodology after reading multiple manuscripts in this area, as well as cosmetics technical journals.

C. Analyzed and interpreted the data: The students developed the analysis protocols and analyzed all the data on their own.

- c. analyzed and interpreted data

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Student's Name(s) Jalaj Mehta

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.
The students formulated and mixed the cream, used UV/VIS to characterise it, performed rheology , performed thermometry and burn testing

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)? They worked with a graduate student, who guided them in laboratory work and technical skills. Another group of two high school students were also experimenting with a different type of cream and sharing the equipment.

☒ XYes ☐ xNo

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 the student research regarding any requirements for my review and/or restrictions of what is publicized.

Miriam Rafailovich

Supervising Adult's Printed Name

IStony Brook University

Institution

100NicholsRd

Address

Signature



Type text here

Professor

Title

2/2/2020

Date Signed (must be after
experi-mentation) (mm/dd/yy)

Email/Phone