

GREATER SAN DIEGO SCIENCE & ENGINEERING FAIR (GSDSEF)

CERTIFICATION OF HAZARDS CONTROL FORM

(GSDSEF Form 4, 2018)

Any form required for a student's project must be completed and signed **BEFORE** the student begins experimentation. If there are any questions or concerns about a student's project, contact Phil Gay, Scientific Review Committee Chairperson (619) 697-2024 or email Phil at philscifr@gmail.com

Form 4, when required, must be completed prior to starting a project. When the project work is completed and if the student(s) is asked to submit a Google Slide or PowerPoint Presentation for screening, this completed form 4 must be given to your teacher who will file it for quick reference if needed.

The student, and all who sign this form, MUST READ AND COMPLY with the Hazardous Material and Safety requirements for dealing with such materials as: bacteria; molds or fungi; protozoa; chemicals; toxic, corrosive, mutagenic, carcinogenic, teratogenic or infectious agents; venomous animals as explained in *GSDSEF Rules & Regulations page 12-14*. (To fill out this form, you may use the "tab" key to move from line to line)

Student's Name (last, first, middle) Ngo, Patrick, Minhkhai Date 12/8/17

Partner's Name (Senior Division only) _____

School Marshall Middle School Grade 8

Science Teacher Advisor - Mrs Elaine Gillum

Project Title An Alternative Choice for Alternative Energy

Hazardous procedures/materials/substances involved: Lead solder

Answer 1 - 10, below, in detail & identify potential hazards clearly (use n/a if none—use additional sheets if needed):

1. Source of materials to be used Home Depot

2. Disposal method(s) to be used for hazardous materials Store in box, inside a bag

3. Procedures to be performed by the student Solder wire together with lead

4. Procedures to be performed by supervising scientist/adult supervisor Stand by in case of injury or mistake

5. Safety precautions to be taken during procedures (be specific for each hazard involved) Face masks were put on

6. Name of adult hazards supervisor, Title, Phone, Company or Organization Henry Ngo (father)

Where bacteria, protozoa, fungi, molds, etc. are used, full details are required in 7-10:

7. Source of microorganism(s) n/a

8. Genus, species, strain n/a

9. Culture medium n/a

10. Method & timing of sealing Petri dishes n/a.

Failure to follow ALL Rules & Regulations will result in disqualification.

I CERTIFY THAT:

- The hazards control rules and regulations of the GSDSEF and the Intel ISEF will be followed.
- The procedures followed will ensure that neither the process nor the materials used constitute any known danger
- All microorganisms, pathogenic or non-pathogenic, will be handled and disposed of as if pathogenic.
- I have previously signed the completed Form GSDSEF-1, 2018 (which outlined the procedures to be followed for this study).

Student's signature Patrick Ngo Date 12/8/17

Parent/Guardian signature Phung Olye Date 12/8/17

Teacher signature Mrs Elaine Gillum Date 10-1-17

Adult Hazards Supervisor signature Henry Ngo Date 12/8/17