

**GUAM
SCIENCE &
DISCOVERY
FOUNDATION**

ATTENTION: Students, Teachers, and Parents
Information, Rules and Entry Forms for the
36th Annual Guam Island Wide Science Fair
Tel/Fax (671) 477-3658 P.O. BOX 20835, GMF, GUAM 96921

This year's **36th Guam Annual Island Wide Science Fair** will be held **Saturday, May 17, 2014 8A.M. - 4:00P.M. with set up Friday, May 16, 2014 5P.M. -7:00 P.M.** at the University of Guam Science Building. All participants must submit **entry forms by Friday, May 9, 2014. Completed entry forms are to be turned into the Governor's Office in Adelup at the Central Files Office.** Interested persons should read the entirety of these information sheets. If you have any questions please contact Claudia Taitano, youtheducationalservices@gmail.com or call (671) 477-3658 .

WHO CAN ENTER?

All Elementary, Middle/Junior, or Senior High level students from all public, private and DODEA schools are welcome. Enter even if you participated in another fair. If you did not win you have gained experience. You can now improve and perhaps finish better this time. **There is no limit to the number of entrants each school may have it is recommended that schools at least send their first place winner in each of the 6 categories. However, if we run out of tables each school may be required to bring one table for each 4 projects entered.** Projects should be the efforts of individual students, but group projects are acceptable. If school fairs are held please be sure to include at least your top three winners from each category and grade level or more depending upon the number of students entered in your school fair. Group projects will **not** be considered for top overall awards. Groups may not be larger than 4 members. **Only** one trophy may be available for each place in each category, so group entries will have to decide how the trophy will be received if a group project wins.

HOW DO I ENTER?

A filled out copy of the 36th Annual Guam Island Wide Science Fair Entry Form must be submitted for each entry. A copy of this is attached and additional copies should be made available through science teachers. Copies of Rules and forms are also available by email above and www.uog.edu IPE Stations, Payless Markets and MC Donald's Restaurants. When filling in the Entry form please print clearly and supply all information. Note that **Completed forms must be turned into the Governor's Office at Adelup no later than 5PM, Friday, May 9, 2014. All research projects involving animals, controlled substances, tissues and DNA, Stem cells projects must submit Qualified Scientist Forms, and have prior to experimentation UOG IRB and SRC approval along with the entry form.** Entry forms submitted **before May 9, 2014** will allow the science fair staff to deliver project numbers to your school in advance of the fair so you won't have to wait in line on set up day.

WHAT ARE THE SUBJECT CATEGORIES?

All projects will be placed in an appropriate category by the entrant(s) and or Science Fair administrators if there is a problem with the category selected by the entrant. The chief judge will settle any disputes. The categories are:

1) Ecology and Earth Science, 2) Physical Science, Computers and Math 3) Human/Medical 4) Animal/Plant, 5) Chemistry, 6) Energy, Inventions, Electronics, and Robots.

WHAT ABOUT SAFETY?

Living or dead animals or any potentially dangerous items must be properly displayed and or handled. No living vertebrate animals may be brought to the science fair. **You MUST have a signed approval of a doctor or a veterinarian before conducting your research if your project involves live vertebrate animals, blood, humans as test subjects, molds, RNA, DNA or stem cell and tissue cultures in order to meet International Science and Engineering Fair requirements and guidelines for student research.** If you have any questions, or need copies of the required ISEF rules guidelines for grades 9-12 and forms contact Mrs. Taitano (listed in the first Paragraph). At set up time Scientific Review Committee members may check your project. No potentially dangerous projects will be allowed.

WHAT ARE THE GRADE GROUPINGS?

In determining the trophy awards this year the 36th Annual Island Wide Science Fair will utilize the following grade groupings:

Level I grades K, 1, 2 : Level II grades 3,4,5: Level III grades 6,7,8: Level IV grades 9,10,11,12
Grades K, and 1 usually have very few students, any students competing from these grades will be encouraged with a special consideration due to age. Age will be considered by the judges in the grade groupings and for some prizes. Depending upon the number of entries grade grouping may change.

HOW DO I SET UP MY PROJECT?

Projects must be set up at the University Of Guam Science Building (first building on the left upon entering campus) during the afternoon before the Science Fair Friday, May 16, 2014 between 5: 00 p.m. - 7:00 p.m. Enter the building by the center main entrance and check in at the registration desk. You are to be given a number that is to be securely stuck by you to the upper right hand corner of your project. **If your entry form is submitted before May 9, 2014 in advance of the deadline your project number will be delivered to your school and you will not have to wait in line.** Your project will be identified for the judges by your number. Please make conservative use of space. You may be expected to move your project somewhat should the room fill or if the science fair administrator requests you to move for some reason.

Make sure you have a poster or a display with your project title to attach your number to before you leave on set up day. You may take expensive equipment items home and bring them back in the morning, but make sure a poster or display is left on the table with your number on the top right hand side to reserve your space. No project will be accepted Saturday morning that hasn't been set up on Friday.

WHAT ARE THE PRIZES?

All participants will receive a **certificate** when their school representative attends the awards ceremony. The category winners will receive **trophies**, compliments of **IPE Fueling Guam, Delta Airlines, Marianas Energy Co, Pacific Daily News, KUAM, K57, MC Donald's, Payless Markets, Pepsi and others** while the Overall Grand Prize winner may receive:

***** A TRIP TO THE NASA SPONSORED SPACE CAMP or SPACE ACADEMY in Huntsville Alabama VIA major sponsor DELTA AIRLINES The winner must have a valid passport as they will travel through Japan.**

Winners as young as 12years old may qualify for the space camp prize. Tuition and airfare only are covered for Space Camp. There are no accommodations for parents and adults at space camp this is a camp. There may be adult camps at a similar time. Students must share accommodations with others in the camp. There may be restrictions about some foreign nationals being allowed to attend Space Camp and Space Academy Camps.

Other Overall Division Winners will receive:

A computer

Trophies and prizes for other winners will be announced at the awards ceremony.

This year the overall winning school sponsor/teacher may also receive a computer.

******* Trophies and Prizes for Other Winners will be announced later. ALL PRIZES ARE SUBJECT TO THE RECEIPT OF THE SPONSOR'S DONATION. The Island Wide Science Fair organizers and GSDF are not responsible for prizes if the company donating them goes out of business or fails to follow through with their donation due to some unforeseen problem.

Other prizes may be made available by various Guam businesses later. Category trophies will be awarded and certificates. All prizes will be awarded at the Guam Hilton Hotel Awards Ceremony, scheduled for Thursday, May 29, 2014 from 6:30 P.M. until 8:00 PM. A winner must be present or must send a representative to obtain his prize or certificate. Trophies will not be mailed because a student cannot attend. Availability of prizes is dependent upon receipt of pledged donations. If Airlines go out of business or the business does not fulfill its pledged donation, GSDF will not be able to be responsible for the prize.

HOW ABOUT THE AWARDS CEREMONY?

This year's awards ceremony will be at **the Guam Hilton, Micronesian Ballroom. Light refreshments will be served, beginning at 6:30 P.M. Thursday May 29, 2014.** Trophies for category winners and prizes will be awarded to each individual winner. Pictures will be taken. This has always been a nice event. All entrants are encouraged to attend and to dress appropriately to having their picture in the newspaper. School uniforms are fine. Reasonable numbers of guests are of course acceptable, such as parents and teachers.

WHEN DO I HAVE TO REMOVE MY PROJECT FROM THE FAIR?

Projects cannot be removed until the fair is over. Project removal is scheduled between 3:00P.M -4:00 P.M. on Saturday. Any student who removes a project early may cause their school to be disqualified from all awards. Removing projects early disrupts the fair and is very inconsiderate of those who have come to see the fair. When the fair is over please remove all projects from the building. If you wish to discard your project please carry it to the curb in front of the building, ideally to the left as you face the building near the cans for that purpose. Any projects left after 4:00 P.M clean up will be discarded to the front of the science building as classrooms must be used on Monday.

WHAT DO I DO DURING THE FAIR?

On Fair Day, Saturday May 17, 2014 be at the Science Building by 8:30 A.M.. The first round of judging will occur in the morning and the second round of judging takes place in the afternoon. There will also be numerous visitors who are interested in viewing the projects. Please be available to discuss your project with judges and visitors. Parents and visitors may be asked to leave the room during the judging at the judge's discretion especially if it is too loud or disrupts the process. Participants and visitors are not allowed to run or skate in the hallways. Students are not permitted on the 2nd floor walkways between the science and health science building. Refreshments like hotdogs and drinks will be available for purchase. **No outside concessionaires will be permitted due to clean up problems.**

You might also bring something to read or maybe playing cards or other quiet, seated activity. You must be present when the judges come to your project to answer the judge's questions.

If your project is missed it is your responsibility to bring this problem to the judge's attention. When the judges finish in each room they will announce that they are concluding the judging. If a judge has not signed your project number form it means you need to tell the judge you were not judged. Pay attention, do not leave the room your project is in until after you have been judged.

HOW WILL PROJECTS BE JUDGED?

There will be many judges, most of them are university professors with a doctorate in the category they are judging. Some of the judges are medical doctors and some have had specialized training with the Armed Forces. During the morning round of judging at least two judges as a pair will visit each category and talk with all entrants. Be prepared to briefly describe your project and answer questions relating to your project. Greater basic credit is given to projects of a problem solving experimental nature and less credit to collections, models, displays, and demonstrations.

Judging criteria is taken from the criteria used in Hawaii Science and Engineering Fair and International Science and Engineering Fair it includes:

Judging criteria

- 1) Creative Ability- originality in question asked, methods, data analysis, interpretation of data.
- 2) Scientific Thought- objectives and procedures clearly stated variables or potential users needs well defined, relevant, and adequate testing of problem solution.
- 3) Thoroughness, purpose achieved, completeness of data and notes, knowledge of scientific literature and other approaches to problem solution.
- 4) Skill, - evidence of student competence in lab, computation and design skills, craftsmanship of products, assistance received and type technical consultant help is not degrading.
- 5) Communication- project clearly described or explained, good use of language, easy to read

The morning round of judging will determine first, second and third place in each group and category 62 basic winners will be determined. After lunch five judges from each of the earlier pairs, will revisit selected first round 1st place winners and select four overall winners. All judges decisions are final. Judges will not be expected to critique student projects, that is the teacher's role. Judging records are available only to the fair's Major Sponsors. With over 700 entries many of them with partners last year, it is simply impossible to give individual feedback for each project to each participant.

QUALIFIED SCIENTIST FORM: Required for all projects involving vertebrate animals, controlled substances, RDNA, tissues and experimentation on humans. This form should be signed **before the start of student experimentation**. Projects done in research labs also require IRB forms.
NO VERTIBRATE ANIMALS MAY DIE OR BE HARMED.

Student's Name _____.

Title of Project _____ SCHOOL _____.

To be completed by the Qualified Scientist:

Scientist's Name _____.

Earned Advanced Degree _____ Degree Specialty _____.

Position _____.

Institution _____.

Address _____.

Phone- _____.

- | | | | |
|----|------------------------------------------------------------------------------------------|-------|------|
| 1) | Will non human vertebrate animals be used?..... | 0 Yes | 0 no |
| | No vertebrate animals may die or be harmed as a result of student experimentation | | |
| 2) | Will human subjects be used? | 0 Yes | 0 no |
| 3) | Will controlled substances be used? | 0 yes | 0 no |
| | (includes DEA classed substances,
prescription drugs, alcohol and tobacco) | | |
| | If yes, | | |
| | a) Will they be used according to existing | 0 yes | 0 no |
| | local, state and federal regulations? | | |
| | b) Please list the name(s) of-the controlled substance(s): | | |
| 4) | Will recombinant DNA be used? | 0 yes | 0 no |
| 5) | Will pathogenic agents be used? | 0 yes | 0 no |
| | If yes, name(s) | | |
| | If yes, will accepted procedures be used? | 0 yes | 0 no |
| 6) | Will human blood, blood products or body fluids be used?..... | 0 yes | 0 no |
| 7) | Will hazardous substances or devices be used? | 0 yes | 0 no |
| | If yes, list or describe: | | |

I certify that I have reviewed and approved the ISEF(IA) Research Plan. If the student or Designated Supervisor is not trained in the necessary procedures, I will ensure her/his training. I will provide advice and supervision during the research. I have a working knowledge of the techniques to be used by the student. The student will attach an ISEF (IA) Research Plan. If an addictive substance is used in this research, I certify that I possess a DEA license required for procuring and dispensing an addictive substance. I understand that a Designated Supervisor is required when the student is not conducting research in my laboratory.

Qualified Scientist's Printed Name _____ Signature _____.

Date of Approval _____.

Science Research: Guidelines for Science and Engineering Fairs

36th ANNUAL ISLAND WIDE SCIENCE FAIR ENTRY FORM

DUE NO LATER THAN 5:00 P.M. Friday, May 9, 2014

at The Governor's Office Complex Adelup at the Central Files Office

(Print all information carefully)

Name of participant:

Last Name _____ First Name _____ Middle Initial _____

Age _____ Grade _____

(ISEF Affiliation requirements) Male _____ or Female _____ Ethnicity _____

Home Mailing Address: Box # or Street _____ Village _____ ZipCode _____

Home (Saturday Emergency) Telephone No. _____ Email _____

Number of Participants involved in this project (1,2,3,4, in project) _____

If there is more than one participant staple together a separate entry form for each participant in the group. Remember projects with more than one participant cannot complete for the top overall prizes and if they win a category place only one trophy may be given.

Name of School: _____ Email Required for Entry Numbers _____

Teacher's Name: _____ Telephone No. _____ Email _____

Title of Project: _____

Category to be Entered In (Circle Only One Category):

- | | |
|---------------------------------------|--------------------------------------------------------------|
| 1. Ecology & Earth Science | 4. Plant/Animal |
| 2. Physical Science, Computers & Math | 5. Chemistry |
| 3. Human/Medical | 6. Energy, Inventions, Electronics,
Photography, Robotics |

Explain any special needs that your project might have for set up such as water, electricity, etc..

I understand the following may disqualify my project or are requirements that may disqualify school participation

*Project displays should not exceed 30 inches deep, front to back, 48 inches wide, side to side and 108 inches high, floor to top.
Call 477-3658 if you need more information about projects requirements or this form.

*Remember qualified scientist forms must be attached for all projects involving vertebrate animals, controlled substances, pathogens, r DNA, stem cells, tissues and humans & be signed before you start your project.

*Remember each school must bring one folding table for every 4 projects if we run out of tables.

* Students must send a representative to collect trophies at the awards ceremony.

* Press releases as to winners may only be sent out by Official Island Wide Science Fair Committee &UOG PIO.

***Set up for the fair is Friday, May 16, 2014 from 5p.m. -7:00p.m. at the UOG Science Building.**

All projects must be set up on Friday No project will be accepted Saturday that has not been to set up

*The Fair is from 8:30a.m.-4pm **Saturday May 17, 2014. Students must be present at 8:30 a.m.** and stay until judging concludes Saturday. Students may not run around or be disruptive a parent or teacher needs to be available

* There are 7 pages of the rules & forms. Address &Telephone numbers are required for the student in case of an Emergency. All items need to be filled in on this form none are optional.

Participant's Signature _____ Date: _____

Teacher's Signature _____ Parent's Signature: _____ Date _____