

**REGIONAL AWARD ORGANIZATIONS**  
**INTEL ISEF 2018**  
International Affiliated Fairs

Enclosed please find the materials for obtaining Regional Awards for the winners of your Intel ISEF Affiliated Fair from the sponsoring organizations listed below:

American Meteorological Society

American Psychological Association

Association for Women Geoscientists

ASU Walton Sustainability Solutions Initiatives  
(certificates to be completed online)

Intel Excellence in Computer Science

MU Alpha Theta

Ricoh USA, Inc.  
(certificates to be completed online)

Society for In Vitro Biology

Yale Science and Engineering Association



## AMERICAN METEOROLOGICAL SOCIETY

45 BEACON STREET, BOSTON, MA 02108-3693 U.S.A.

TEL: 617-227-2425  
FAX: 617-742-8718  
E-MAIL: [amsinfo@ametsoc.org](mailto:amsinfo@ametsoc.org)  
WEB: [www.ametsoc.org](http://www.ametsoc.org)

KEITH L. SEITTER, EXECUTIVE DIRECTOR  
E-MAIL: [kseitter@ametsoc.org](mailto:kseitter@ametsoc.org)

Dear Fair Director:

We are happy to support your upcoming Intel ISEF affiliated science fair. Enclosed please find two Certificates of Outstanding Achievement for creative scientific endeavor in the areas of atmospheric and related oceanic and hydrologic sciences. The Certificates should be awarded to student projects in grades 9, 10, 11, or 12 unless exhibits in those grades are less meritorious than junior division exhibits.

If there is an AMS local chapter in your area, you may contact them regarding selection of winners, signing certificates, and presenting them to the winners. An AMS Chapter Directory complete with contact information may be found on the AMS Web site at <http://apps.ametsoc.org/chapters.cfm>. You may appoint a local meteorologist to act as a judge when it is not possible for a local AMS chapter to sponsor a judge for your fair. The Certificates should be made available at the time of judging for the judges to sign, date, and fill in the name of each winning exhibitor.

Each year the AMS publishes the names of science fair winners in the December issue of the *Bulletin of the American Meteorological Society (BAMS)*. We encourage you to submit a summary of winners when your fairs have ended. The summary should include the name of the fair, name(s) of the fair winner(s), school and grade attended, and project title. Please mail or e-mail (preferred) the summary by August 1st to:

Erica Callahan

AMS  
45 Beacon St.  
Boston, MA 02108-3693  
[sciencefair@ametsoc.org](mailto:sciencefair@ametsoc.org)  
617-742-8718 fax

Best wishes for a successful science fair.

Sincerely,

Katelyn England

Member Services

Enclosure: two certificates



AMERICAN  
PSYCHOLOGICAL  
ASSOCIATION

Fall 2017

Dear Science Fair Director,

In preparation for the 2018 ISEF-affiliated science fairs, the American Psychological Association (APA) Education Directorate is pleased to award one certificate recognizing outstanding research in psychological science under the category of behavioral and social sciences or any category related to psychology (e.g., animal sciences, biochemistry, computer science, environmental science, mathematical science, medicine and health). To provide guidance to your judges, we are also enclosing a scoring guide/rubric that offers some specific criteria they could consider when judging these projects. Should you need another certificate (e.g., if the winning project is a team project), please contact [yhill@apa.org](mailto:yhill@apa.org) and we can send a PDF of the certificate for your use.

The Chair of the Awards Committee or the Regional Fair Director is asked to fill in the name of the award winner on the certificate, as well as the affiliated fair name and date, and present the certificate to the winner at the awards ceremony or during the awards announcement. An acceptance form can be found online at <http://forms.apa.org/ed/rsf/>; the form should be completed by either the fair director or the award recipient as soon as possible or no later than one month after the science fair.

APA, located in Washington, DC, is the world's largest association of psychologists. APA's membership includes more than 115,700 researchers, educators, clinicians, consultants and students. Through its divisions in 54 subfields of psychology and affiliations with 60 state, territorial and Canadian provincial associations, APA works to advance the creation, communication and application of psychological knowledge to benefit society and improve people's lives.

If you have any questions, please contact Yvonne Hill, Program Officer, Office of Precollege and Undergraduate Programs, at [yhill@apa.org](mailto:yhill@apa.org) or (202) 336-6076.

Enclosures

**Scoring Guide/Rubric**  
**APA Award for Achievement in Research in Psychological Science**  
**(ISEF Affiliated Regional Science Fairs)**

Use the criteria below to score each science project. The total possible points for each project is **100** points. Use your best professional judgment to score each project.

**CRITERIA FOR SCORING ENTRIES / PROJECTS**

**Creative Ability (30 points possible)**

- Does the project show creative ability and originality in the questions asked?
- Does the research support the investigation and help answer a question in an original way?
- Does the research promote an efficient and reliable method for solving a problem?

**Subtotal** \_\_\_\_\_

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**Scientific Thought (30 points possible)**

- Is the problem stated clearly and unambiguously?
- Is the problem sufficiently limited to allow plausible attack?
- Is there a procedural plan for obtaining a solution?
- Are the variables clearly recognized and defined?
- Are there adequate data to support the conclusions?
- Does the finalist/team recognize the data's limitations?
- Does the finalist/team understand the project's ties to related research?
- Does the finalist/team have an idea of what further research is warranted?
- Did the finalist/team cite scientific literature?

**Subtotal** \_\_\_\_\_

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**Thoroughness (15 points possible)**

- Was the purpose carried out to completion within the scope of the original intent?
- How completely was the problem covered?
- Are the conclusions based on a single experiment or replication of an experiment?
- How complete are the project notes?
- Is the finalist/team aware of other approaches or theories?
- How much time did the finalist/team spend on the project?
- Is the finalist/team familiar with scientific literature in the studied field?

**Subtotal** \_\_\_\_\_

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**Skill (15 points possible)**

- Does the finalist/team have the required observational and design skills to obtain supporting data?
- Where was the project performed? Did the student or team receive assistance from parents, teachers, or scientists?
- Was the project completed under adult supervision, or did the student/team work largely alone?
- Where did the equipment come from? Was it built independently by the finalist or team? Was it obtained on loan? Was it part of a laboratory where the finalist or team worked?

**Subtotal** \_\_\_\_\_

***Continued on other side***

**Clarity (10 points possible)**

- How clearly does the finalist discuss his/her project and explain the purpose, procedure, and conclusions?
- Does the written material reflect the finalist's or team's understanding of the research?
- Are the important phases of the project presented in an orderly manner?
- How clearly is the data presented?
- How clearly are the results presented?
- How well does the physical display explain the project?
- Did the finalist/team perform all the project work, or did someone help?

**Subtotal** \_\_\_\_\_

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**OVERALL POINTS SCORED (100 possible points)** \_\_\_\_\_

## ASSOCIATION FOR WOMEN GEOSCIENTISTS

The Association for Women Geoscientists (AWG) is pleased to provide an Award Certificate to female students whose projects, in the opinion of the judges, exemplify high standards of innovativeness and scientific excellence in the geosciences. Special consideration should be given to projects that increase the public awareness of the geosciences, illustrate the interdisciplinary nature of the geosciences, or promote the sensitivity to the earth as a global system.

Local members of the Association for Women Geoscientists may contact the fair if they are available for judging. The Awards Committee of the Intel ISEF regional science fair should delegate the judging, selection, and award presentation for AWG if local AWG members do not indicate that they are available.

This award is to recognize female students only. No cash or other prize is included with this Award Certificate. In the event of a tie or team project winner, please request additional certificate(s) from the AWG contact, Ms. Valerie Honeycutt. A limited number of additional certificates are available.

Responsibility of completing the Award Certificate is that of the Awards Committee representative of the regional science fair or the fair director. Please also complete the AWG acceptance form, or complete similar information in your own format and return to the AWG contact. Fair Directors or Awards Committees may complete their portion of the acceptance form and give to the winner to complete and send. Acceptance form or similar information in your own format may be emailed to the email address below instead of mailing. An email copy only is acceptable.

### Included:

Certificate blank  
Acceptance form

For additional information, contact Valerie Honeycutt, AWG Science Fair Coordinator, at 972-775-6029 (leave message) or [jvhoney@sbcglobal.net](mailto:jvhoney@sbcglobal.net).

# ACCEPTANCE OF THE ASSOCIATION FOR WOMEN GEOSCIENTISTS CERTIFICATE

## INSTRUCTIONS:

Complete and mail or email one copy of this form and keep one copy for your files. This form need not be used if your organization can provide the same information in your own format. You may email the relevant winner information to the address below. If the AWG **Student Awards for Geoscience Excellence (SAGE) certificate** is not included or if you have any questions, please contact Valerie Honeycutt.

NOTE: This award is a certificate only and does not include a cash prize.

**DEADLINE:** Please mail or email this form or the information on this form to the AWG contact within one month of, or as soon as possible after the closing of your fair.

**MAIL TO:** Ms. Valerie Honeycutt  
309 Stiles Drive  
Midlothian, TX 76065  
Phone: (home) (972) 775-6029  
E-mail: [jyhoney@sbcglobal.net](mailto:jyhoney@sbcglobal.net)

Winner's name: \_\_\_\_\_ Winner's grade: \_\_\_\_\_

Winner's home address (optional): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Winner's school: \_\_\_\_\_

Winner's school address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Teacher-Sponsor: \_\_\_\_\_

Title of Winner's project: \_\_\_\_\_

Fair Director's name: \_\_\_\_\_

Fair Director's address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Business phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Name of Fair: \_\_\_\_\_

Place where held: \_\_\_\_\_

Date(s) of Fair: \_\_\_\_\_

Dear Fair Director,

Rob and Melani Walton Sustainability Solutions Initiatives is a program of Arizona State University's Julie Ann Wrigley Global Institute of Sustainability. The Initiatives encourage, reward and celebrate inventors, social entrepreneurs, innovative designers and creative thinkers who develop solutions to sustainability challenges. We believe that students bring a fresh perspective to discovering solutions to the complex sustainability problems facing this and future generations.

ASU Rob and Melani Walton Sustainability Solutions Initiatives is pleased to recognize two high school projects in grades 9, 10, 11 or 12 (ages 15-20) who seek innovative solutions to humanity's most challenging problems. Winners can be selected from any category and should convey intent in their research to solve a complex problem that involves social justice, environmental and economic prosperity. Recognized students will receive a certificate and will be nominated to enter for a Grand Prize \$500 cash award. The certificate can be edited with the student name and printed, here is the web address for the certificate: <https://sustainability.asu.edu/sustainabilitysolutions/wp-content/gios-uploads/sites/15/2012/09/intel-regional-certificate-2018-form.pdf> **Three Grand Prize Winners** will be selected from all submitted nominations. Grand Prize Winners will be announced in email **July 1, 2018**.

The Judging Committee for the Intel ISEF affiliated science fair will complete the judging and selection for this ASU Rob and Melani Walton Sustainability Solutions Award. The responsibility of completing the nomination form and presenting the awards certificate is that of the awards committee or the fair director. Should you need an electronic printing template, please contact [Kelly.R.Saunders@asu.edu](mailto:Kelly.R.Saunders@asu.edu) or call 480-965-4353. Fair directors or the awards committee can complete their portion of the Award Nomination Form and give the form to winner(s) to complete and email in their submissions to [Kelly.R.Saunders@asu.edu](mailto:Kelly.R.Saunders@asu.edu). Winners must complete the Award Acceptance Form and email it, along with a copy of their abstract and photograph of their research display, to ASU Rob and Melani Walton Sustainability Solutions via [Kelly.R.Saunders@asu.edu](mailto:Kelly.R.Saunders@asu.edu) by **May 1, 2018** in order to be eligible for the grand prize. All submissions will be **confirmed via email by May 1, 2018**. **Three Grand Prize Winners** will be announced via email on **July 1, 2018**.

Included:

Two Award Nomination Forms (one per project, teams are eligible to win)

Judging Rubric



Dear Finalist,

Congratulations on being recognized by the Rob and Melani Walton Sustainability Solutions Initiatives! The program is a part of Arizona State University's Julie Ann Wrigley Global Institute of Sustainability, and encourages, rewards and celebrates inventors, social entrepreneurs, innovative designers and creative thinkers who develop solutions to sustainability challenges.

You are now nominated to enter for the Rob and Melani Walton Sustainability Solutions Initiatives Grand Prize, a \$500 cash award. A total of three Grand Prize projects will be selected. In order to do this, please gather the following documents:

- The Award Nomination Form, given to you by the Fair Director or Awards Committee. The top part must be filled out by the Fair Director or a member of the Awards Committee.
- The Photo Release Form, given to you by the Fair Director or Awards Committee. If you are under age 18, the release form must be signed by your parent or guardian. If you are age 18 and over, you may sign and date the form yourself.
- A copy of the abstract you presented at your project.
- A photograph of your Project Board or Display.

Please email a copy of these items provided to you by your Fair Director to Kelly.R.Saunders@asu.edu. Your entry must be emailed by **May 1, 2018** to be considered. The three Grand Prize Winners will be announced via email on July 1, 2018.

If you are unable to email your entry please send the listed items via mail.

Arizona State University  
Walton Sustainability Solutions Initiatives  
Attn: Kelly Saunders  
PO Box 878009  
Tempe, AZ 85287-8009

Congratulations once again on being recognized by the Rob and Melani Walton Sustainability Solutions Initiatives! If you have any questions or concerns please email Kelly Saunders at Kelly.R.Saunders@asu.edu. All entries must be sent by May 18, 2018 to be considered for the Grand Prize.

**ASU Walton Sustainability Solutions Award  
 Award Nomination Form**

Fair and Judge Information	
Judge's Name:	Judge's Address:
Judge's Phone Number:	Judge's Email:
Judge's Signature:	Date:
Name of Intel International Science and Engineering Fair Affiliated Regional Fair:	
Winner's Information	
Winner's Name(s):	
Title of Project:	
Phone number:	School Name:
Grade and Age:	School Address:
Email:	
What were you attempting to learn about and/or what problem(s) are you seeking to solve?	
How can your work have an impact in the future?	

### Photo Release Form

I grant permission to the Arizona Board of Regents, on behalf of Arizona State University and its agents or employees, to copyright and publish all or any part of photographs and/or motion pictures and/or voice recordings and/or written/spoken statements taken of me on the date and at the location listed below for use in the ASU website on Self-Regulated Strategy Development for writing, and any related university publications, including those printed, moving, audio and electronic; and all exhibitions, public displays, publications, commercial art and advertising purposes in any media without limitation or reservation.

I hereby waive any right to inspect or approve the photographs, publications or electronic matter that may be used in conjunction with them now or in the future, whether that use is known to me or unknown, and I waive any right to royalties or other compensation arising from or related to the use of the photographs.

I hereby agree to release and hold harmless the Arizona Board of Regents and the developers and managers of the SRSD website, on behalf of Arizona State University, via electronic or media, from and against any claims, damages or liability arising from or related to the use of the photographs, including but not limited to any re-use, distortion, blurring, alteration, optical illusion or use in composite form, either intentionally or otherwise, that may occur or be produced in production of the finished product. It is the discretion of ASU to decide whether to use the image.

I am 18 years of age and I am competent to contract in my own name. I have read this release before signing below, and I fully understand the contents, meaning and impact of this release. I understand that I am free to address any specific questions regarding this release by submitting those questions in writing prior to signing, and I agree that my failure to do so will be interpreted as a free and knowledgeable acceptance of the terms of this release.

For those under the age of 18, this form must be signed by both the child and the parent or guardian. By signing, the parent or guardian attests that he/she is competent to contract in her/his own name; has read this release before signing below; fully understand the contents, meaning and impact of this release; and understands that he/she is free to address any specific questions regarding this release by submitting those questions in writing before signing, and that failure to do so will be interpreted as a free and knowledgeable acceptance of the terms of this release.

Print Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Individual age 18 or older, granting permission)

#### For those under age 18:

Full Name of Minor: \_\_\_\_\_

Print Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Parent or Guardian if minor)

Address: \_\_\_\_\_

Email: \_\_\_\_\_

# Intel Excellence in Computer Science Award

2018 International Fairs

*To be awarded at an Intel ISEF Affiliate Fair  
(9<sup>th</sup> – 12<sup>th</sup> grade winners only)*

Intel is proud to announce the continuation of the Intel Excellence in Computer Science Award in the amount of two hundred dollars (U.S. Funds) and a certificate.

Intel supports science fairs around the world because we recognize the importance of developing the talents of our most promising young minds. In particular, the company hopes to encourage increased participation in computer science, one of today's fastest growing fields and an important source of innovation for the 21st century.

## Instructions:

1. Each affiliate fair that has a Computer Science category may offer **one** Intel Excellence in Computer Science Award to the **top first place winner of the Computer Science category in the high school (9<sup>th</sup>-12<sup>th</sup> grades only) portion of the fair.**
2. The selection of the winner will be accomplished by the regular judging procedure at your fair. In the case of multiple first place awards in the Computer Science category, an overall winner must be selected to receive this award. A team consisting of no more than three team mates winning this award will split the award monies evenly. Monetary awards won by students outside the United States will receive their monies via a Bank Wire Transfer. You may access the Bank Wire Transfer form from our website at <https://sspcdn.blob.core.windows.net/files/Documents/SEP/Resources/Wire-Form.pdf>. Each team member **MUST** submit a **typed** Bank Wire Transfer form.
3. The enclosed Winner Application Sheet and certificate should be provided to the student with the proper authorizing fair director signature and contact information. **The student is responsible for completing the Bank Wire Transfer form** (link above), **the Winner Application Sheet with fair director's signature, and a copy of the one-page project abstract. Please submit all documents to Society for Science & the Public** electronically at [sciedu@societyforscience.org](mailto:sciedu@societyforscience.org) or fax to June Kee at 202.785.1243.
4. The Society **MUST** receive all documents by the **deadline of May 31, 2018**. Awards will be processed Summer 2018.
5. Keep a copy for your records.

This award is being administered for Intel by Society for Science & the Public.

**June Kee, Intel ECS Award**

**Society for Science & the Public**

**1719 N Street, NW**

**Washington, DC 20036**

fax to (202) 785-1243 OR

email: [sciedu@societyforscience.org](mailto:sciedu@societyforscience.org)

2018 Intel ECS Award

**Intel Excellence in Computer Science Award  
Winner Application Sheet  
2018 International Affiliate Fairs**

**Instructions:** Send documents electronically to [sciedu@societyforscience.org](mailto:sciedu@societyforscience.org) OR fax completed Winner Application Sheet, Bank Wire Transfer form (**typed**) for each winner, **and** a copy of your one-page abstract to June Kee at 202.785.1243. TEAM documents must be sent together. Keep a copy for your records.

**Receipt deadline is May 31, 2018.**

\*\*\*\*\*

**Science Fair Director OR Special Award Coordinator-** (print legibly)

I verify that this student was selected for this award and the information is correct.

Fair ID #: \_\_\_\_\_ **Team:** No / Yes (how many members?) \_\_\_\_\_

Team Member Name(s): \_\_\_\_\_

Fair Name: \_\_\_\_\_

Print Fair Director Name: \_\_\_\_\_

Fair Director Signature: \_\_\_\_\_

Fair Director's Email: \_\_\_\_\_

\*\*\*\*\*

**Student Winner(s) - print legibly -- Submit TEAM documents together.**

**Name:** \_\_\_\_\_

Address: \_\_\_\_\_

City, Country, Postal Code: \_\_\_\_\_

Email: \_\_\_\_\_

**2<sup>nd</sup> Team Member Name:** \_\_\_\_\_

Address: \_\_\_\_\_

City, Country, Postal Code: \_\_\_\_\_

Email: \_\_\_\_\_

**3<sup>rd</sup> Team Member Name:** \_\_\_\_\_

Address: \_\_\_\_\_

City, Country, Postal Code: \_\_\_\_\_

Email: \_\_\_\_\_



## MU ALPHA THETA

c/o University of Oklahoma  
3200 Marshall Avenue, Ste 190  
Norman, OK 73019  
Executive Director: Jennifer Pai

PH: 405-325-0144  
Email: [info@mualphatheta.org](mailto:info@mualphatheta.org)  
[www.mualphatheta.org](http://www.mualphatheta.org)

### NATIONAL OFFICERS

President:

**Kathy Mowers**

Owensboro Community and  
Technical College  
4800 New Hartford Rd.  
Owensboro, KY 42303  
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Past-President:

**Betty Hood**

Brentwood High School  
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Treasurer:

**Dr. John Albert**

Department of Mathematics  
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601 Elm Ave, RM 423  
Norman, OK 73019  
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Governor Region 1:

**Dr. Deanna Wasman**

Hickman High School  
1104 N Providence Rd  
Columbia, MO 65203  
[dwasman@cpsk12.org](mailto:dwasman@cpsk12.org)

Governor Region 2:

**Olvin Carias**

KIPP Generations Collegiate  
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Houston, TX 77022  
[ocarias@kipphouston.org](mailto:ocarias@kipphouston.org)

Governor Region 3:

**Rita Ralph**

Columbus State C.C.  
550 E Spring St  
Columbus, OH 43215  
[rralph@csc.edu](mailto:rralph@csc.edu)

Governor Region 4:

**Kim Woolfenden**

14220 N. HWY 301  
Thonotosassa, FL 33592  
[woolfmath@aol.com](mailto:woolfmath@aol.com)

MAA Representative:

**Dr. Chuck Garner**

Rockdale County High School  
930 Rowland Rd  
Conyers, GA 30012  
[cgarner@rockdale.k12.ga.us](mailto:cgarner@rockdale.k12.ga.us)

NCTM Representative:

**Laura Entrekin**

Hoover High School  
1000 Buccaneer Dr  
Hoover, AL 35244  
[LEntrek@hoover.k12.al.us](mailto:LEntrek@hoover.k12.al.us)

SIAM Representative:

**Dr. Terry Herdman**

ICAM 0531  
Blacksburg, VA 24061  
[Terry.Herdman@vt.edu](mailto:Terry.Herdman@vt.edu)

AMATYC Representative:

**Paige Perry**

Southern Union State C.C., AL  
1701 Lafayette Parkway  
Opelika, AL 36801  
[pperry@suscc.edu](mailto:pperry@suscc.edu)

Dear Science Fair Director:

Mu Alpha Theta, the National High School and Two-Year College Mathematics Honor Society, wishes to provide one award at each regional or state ISEF competition. The Mu Alpha Theta Award is for the individual or group project that demonstrates the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a high school student. The winner(s) must be in grades 9 through 12. This project does not necessarily have to be entered in the mathematics category.

Judging for this award will be by your awards committee. We have provided selection criteria to help in this process.

Also included is a letter to your fair's Mu Alpha Theta Award winner as well as a single certificate to be filled in by your awards committee or fair director and presented to the recipient. In the event of a team winner, extra certificates may be requested. We will mail these after we receive the Award Acceptance Form with the names and addresses for the extra certificates included. Please email the Award Acceptance Form to [info@mualphatheta.org](mailto:info@mualphatheta.org) no more than 30 days after the date of your fair.

Thanks for all that you do!

Sincerely,

Jennifer Pai  
Executive Director



## MU ALPHA THETA

c/o University of Oklahoma  
3200 Marshall Avenue, Ste 190  
Norman, OK 73019  
Executive Director: Jennifer Pai

PH: 405-325-0144  
Email: [info@mualphatheta.org](mailto:info@mualphatheta.org)  
[www.mualphatheta.org](http://www.mualphatheta.org)

### NATIONAL OFFICERS

President:

**Kathy Mowers**

Owensboro Community and  
Technical College  
4800 New Hartford Rd.  
Owensboro, KY 42303  
[kathy.mowers@kctcs.edu](mailto:kathy.mowers@kctcs.edu)

Past-President:

**Betty Hood**

Brentwood High School  
5304 Murray Lane  
Brentwood, TN 37027-6205  
[bettyh@wcs.edu](mailto:bettyh@wcs.edu)

Treasurer:

**Dr. John Albert**

Department of Mathematics  
University of Oklahoma  
601 Elm Ave, RM 423  
Norman, OK 73019  
[jalbert@math.ou.edu](mailto:jalbert@math.ou.edu)

Governor Region 1:

**Dr. Deanna Wasman**

Hickman High School  
1104 N Providence Rd  
Columbia, MO 65203  
[dwasman@cpsk12.org](mailto:dwasman@cpsk12.org)

Governor Region 2:

**Olvin Carias**

KIPP Generations Collegiate  
500 Tidwell Rd  
Houston, TX 77022  
[ocarias@kipphouston.org](mailto:ocarias@kipphouston.org)

Governor Region 3:

**Rita Ralph**

Columbus State C.C.  
550 E Spring St  
Columbus, OH 43215  
[rralph@cscc.edu](mailto:rralph@cscc.edu)

Governor Region 4:

**Kim Woolfenden**

14220 N. HWY 301  
Thonotosassa, FL 33592  
[woolfmath@aol.com](mailto:woolfmath@aol.com)

MAA Representative:

**Dr. Chuck Garner**

Rockdale County High School  
930 Rowland Rd  
Conyers, GA 30012  
[cgarner@rockdale.k12.ga.us](mailto:cgarner@rockdale.k12.ga.us)

NCTM Representative:

**Laura Entrekin**

Hoover High School  
1000 Buccaneer Dr  
Hoover, AL 35244  
[LEntrek@hoover.k12.al.us](mailto:LEntrek@hoover.k12.al.us)

SIAM Representative:

**Dr. Terry Herdman**

ICAM 0531  
Blacksburg, VA 24061  
[Terry.Herdman@vt.edu](mailto:Terry.Herdman@vt.edu)

AMATYC Representative:

**Paige Perry**

Southern Union State C.C., AL  
1701 Lafayette Parkway  
Opelika, AL 36801  
[pperry@suscc.edu](mailto:pperry@suscc.edu)

Dear Mu Alpha Theta Award Winner:

Congratulations! On behalf of Mu Alpha Theta, the National High School and Two-Year College Mathematics Honor Society, I commend you on your outstanding achievement as a winner of the Mu Alpha Theta Award. Your project was selected for its challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a high school student.

Established in 1957, Mu Alpha Theta currently has more than 100,000 members in schools in the US and twenty foreign countries. We strive to promote the enjoyment and scholarship of mathematics through our free mathematics competitions throughout the year, annual national convention, leadership opportunities, and financial support. This past year alone, Mu Alpha Theta awarded well over \$200,000 in scholarships, grants, and awards to our members, teachers, and chapters.

If your high school doesn't already have a Mu Alpha Theta chapter, we invite you to check out all that we offer. Congratulations again and best wishes!

Sincerely,

Jennifer Pai  
Executive Director

**MU ALPHA THETA  
AWARD ACCEPTANCE FORM**

**INSTRUCTIONS:** Please complete and email the information requested below to [info@mualphatheta.org](mailto:info@mualphatheta.org) within 30 days of the fair.

If extra award certificates for members of a winning team are desired, please note this and provide team members' addresses when submitting the form.

**The Mu Alpha Theta Award is to be presented to students in 9<sup>th</sup> – 12<sup>th</sup> grades only.**

Phone: (405) 325-0144

E-mail: [info@mualphatheta.org](mailto:info@mualphatheta.org)

Winner's Name: \_\_\_\_\_

Winner's Home Address: \_\_\_\_\_

---

Winner's School: \_\_\_\_\_

School Address: \_\_\_\_\_

---

Teacher/Sponsor: \_\_\_\_\_

Title of Winner's Project: \_\_\_\_\_

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Fair Director's Name: \_\_\_\_\_

Fair Director's Address: \_\_\_\_\_

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Business Phone: \_\_\_\_\_

Name of Fair: \_\_\_\_\_

Location of Fair: \_\_\_\_\_ Date(s) of Fair: \_\_\_\_\_



## **Mu Alpha Theta Award Selection Criteria**

The Mu Alpha Theta Award is given to the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a high school student. Components of the investigation may include, but are not limited to, mathematical proof, mathematical modeling, statistical analysis, visualization, simulation, and approximation. The Mu Alpha Theta Award is not limited to projects in the mathematics category. The award can be presented to an individual or a team project. **All winners must be in 9<sup>th</sup> through 12<sup>th</sup> grades.**

We recommend judges use the following 100-point scale with points assigned for creative ability, scientific thought, thoroughness, skill, and clarity. Team projects include points for teamwork.

If there are no projects that meet the award description and criteria, judges have a right not to award Mu Alpha Theta Award.

### **I. Creative Ability (Individual - 30, Team - 25)**

- a) Does the project show creative ability and originality in the questions asked, the approach to solving the problem, the analysis of data, or the interpretation of that data?
- b) Creative research should support an investigation and help answer a question in an original way.
- c) A creative contribution promotes an efficient and reliable method for solving a problem.

### **II. Use of Mathematics (Individual - 15, Team - 13)**

- a) Does the project use more than just arithmetic and basic statistics?
- b) Are mathematical conclusions displayed using computer graphics for better visualization?
- c) If mathematical proof is involved, are steps clear, concise, and lead directly from prior statements?
- d) If simulation or approximation methods are used, are they appropriate to the problem? Is there an analysis of possible errors involved in using these methods?

### **III. Scientific Thought (Individual - 15, Team - 12)**

- a) Is the problem stated clearly?
- b) Was the problem sufficiently limited to allow a solution to be found?
- c) Was there a procedural plan for obtaining a solution? What types of mathematics were involved in this solution?
- d) Were the variables clearly recognized and defined?
- e) If controls were necessary, did the student recognize their need and were they correctly used?
- f) Was there adequate data to support the conclusions?
- g) Does the finalist/team recognize the data's limitations?
- h) Does the finalist/team understand the project's ties to related research?
- i) Does the finalist/team make recommendations for further research?
- j) Did the finalist/team cite scientific literature?

**IV. Thoroughness (Individual - 15, Team - 12)**

- a) Was the purpose carried out to completion within the scope of the original intent?
- b) How completely was the problem covered?
- c) Are the conclusions based on a single experiment or replication?
- d) How complete are the project notes?
- e) Is the finalist/team aware of other approaches or theories?
- f) Was the time spent on the project appropriate?
- g) Is the finalist/team familiar with scientific literature in the studied field?

**V. Skill (Individual - 15, Team - 12)**

- a) Does the finalist/team have the required laboratory, computation, observational and design skills to obtain supporting data?
- b) Where was the project performed (i.e., home, school laboratory, university laboratory)? Was there assistance from parents, teachers, scientists, or engineers?
- c) Was the project completed under adult supervision or did the finalist/team work mainly alone?
- d) Where did equipment come from? Was it built independently by the finalist or team? Was it obtained on loan? Was it part of a laboratory where the work was done?

**VI. Clarity (Individual - 10, Team - 10)**

- a) How clearly does the finalist discuss his/her project and explain the purpose, procedure, and conclusions? Is there real understanding of the project?
- b) Does the written material reflect that understanding?
- c) Are important phases of the project presented in an orderly manner?
- d) How clearly is the data presented?
- e) How clearly are the results presented?
- f) How well does the project display explain the project?
- g) Was the presentation done in a forthright manner, without tricks or gadgets?

**VII. Teamwork (Team Projects only- 16)**

- a) Are the tasks and contributions of each team member clearly outlined?
- b) Was each team member fully involved with the project and familiar with all aspects?
- c) Does the final work reflect the coordinated efforts of all team members?

<b>POTENTIAL MAXIMUM SCORE CHART</b>	<b>Individual Points</b>	<b>Team Points</b>
Creative Ability .....	30	25
Use of Mathematics .....	15	13
Scientific Thought / Engineering Goals .....	15	12
Thoroughness .....	15	12
Skill .....	15	12
Clarity .....	10	10
Teamwork .....	-	16
<b>Total Possible Score</b> .....	<b>100 points</b>	<b>100 points</b>

Fall 2017

Dear Fair Director:

Congratulations on holding another inspiring science and engineering fair in your community!

Ricoh USA, Inc. would like to provide Ricoh Sustainable Development Award (RSDA) Certificate to your student(s), whose outstanding project(s) address(es) issues of environmental responsibility and sustainable development.

Ricoh firmly believes that the importance of environmental sustainability should be communicated to as large an audience as possible, including students. It is our honor to continue to work with your community toward a vision of a more sustainable future.

Ricoh is proud to help foster innovative ideas that carry the potential for making differences. For over a decade, we have provided a total of more than \$410,000 in scholarships to students through our sponsorship of the Intel International Science and Engineering Fair (Intel ISEF). The 31 recipients of the RSDA at Intel ISEF have pursued their research with passion worldwide. You can learn more at <http://www.ricoh-usa.com/rsda>.

We wish you continued success in your science and engineering education. Please complete the questionnaire at [https://www.ricoh-usa.com/en/RSDA\\_2018](https://www.ricoh-usa.com/en/RSDA_2018) and issue the fillable RSDA Certificate.

Very truly yours,



Kousuke Ito  
Director, Environmental Sustainability and Product Compliance  
Ricoh USA, Inc.

Fall 2017

Dear Ricoh Sustainable Development Award Recipient:

Congratulations on winning the Ricoh Sustainable Development Award!

Ricoh USA, Inc. would like to provide you with an opportunity to be recognized for your outstanding efforts in addressing issues of environmental responsibility and sustainable development in your science and engineering project.

Ricoh firmly believes that the importance of environmental sustainability should be communicated to as large an audience as possible, including students. It is our honor to recognize your quest for new discoveries and to work with your community, and to inspire you toward a vision of a more sustainable future.

Ricoh is proud to help foster innovative ideas that carry the potential for making differences. For over a decade, we have provided a total of more than \$410,000 in scholarships to students through our sponsorship of the Intel International Science and Engineering Fair (Intel ISEF). The 30 recipients of the Ricoh Sustainable Development Award at Intel ISEF have pursued their research with passion worldwide. You can learn more at [ricoh-usa.com/rsda](http://ricoh-usa.com/rsda).

We wish you continued success in your endeavors for science. Enclosed please find the award certificate.

Very truly yours,



Kousuke Ito  
Director, Environmental Sustainability and Product Compliance  
Ricoh USA, Inc.

# RICOH Sustainable Development Award

**Project:** \_\_\_\_\_ **Judge:** \_\_\_\_\_

Criteria highlighted in **Blue** to be used to pre-qualify all projects for further consideration and eliminate projects that do not apply. All (12) twelve questions below must score “YES” to pre-qualify.

Once projects are pre-qualified, use the criteria highlighted in **Yellow** for final project evaluation and point tabulation.

## PRE-QUALIFYING CRITERIA

FINALISTS' PROJECT MUST HAVE:	TOTAL SYSTEM MUST INCLUDE:
Principles & technical innovations that offer the greatest potential for increasing our ability to grow environmentally friendly & socially responsible businesses.	1. Know-how 2. Procedures 3. Goods & services 4. Equipment 5. Organizational/managerial process
PROJECT MUST REFLECT:	
1. Energy conservation / prevention of global warming 2. Resource conservation / recycling 3. Pollution prevention 4. Conservation of biodiversity	

**PLEASE EVALUATE ALL TWELVE QUESTIONS BELOW**

UNIQUENESS		
Y	N	Creative ability shown
Y	N	Originality in questions asked
Y	N	Scientific advancement shown
Y	N	Sustainable Development issue within scientific field clear
MEANINGFULNESS		
Y	N	Research addresses a meaningful problem
SOPHISTICATION		
Y	N	With respect to the age of researcher and availability of resources
PRESENTATION CLARITY		
Y	N	Discussion, purpose, procedure, data, results, conclusion
Y	N	Sustainable Development expressed
Y	N	Thought and preparation in exhibit
BUSINESS IMPACT		
Y	N	Social viewpoint clearly demonstrated
Y	N	Environmental viewpoint clearly demonstrated
Y	N	Financial viewpoint clearly demonstrated

\_\_\_\_\_ **Total Yes**  
 \_\_\_\_\_ **Total No**

**All (12) twelve questions must score “YES” to pre-qualify.**

## DEFINING CRITERIA

10=High

1=Low

<b>RESULTS-ORIENTATION</b>										
10	9	8	7	6	5	4	3	2	1	Efficient & reliable method for solution(s)
10	9	8	7	6	5	4	3	2	1	Research supported investigation
10	9	8	7	6	5	4	3	2	1	Acceptable to potential users
10	9	8	7	6	5	4	3	2	1	Economically feasible
10	9	8	7	6	5	4	3	2	1	Can be successfully utilized in end product(s)
10	9	8	7	6	5	4	3	2	1	Improvement over existing alternatives
<b>THOROUGHNESS</b>										
10	9	8	7	6	5	4	3	2	1	Depth of the problem covered
10	9	8	7	6	5	4	3	2	1	Awareness of other approaches or theories
10	9	8	7	6	5	4	3	2	1	Continuation opportunities recognized
<b>SKILL</b>										
10	9	8	7	6	5	4	3	2	1	Student's ability supports data presented
10	9	8	7	6	5	4	3	2	1	Required laboratory skills - computation, observation, & design
10	9	8	7	6	5	4	3	2	1	Degree of assistance received from a parent, teacher, or professional (Less assistance = Higher score)
<b>SCIENTIFIC THOUGHT OR ENGINEERING GOALS</b>										
10	9	8	7	6	5	4	3	2	1	Solution obtained via a procedural plan
10	9	8	7	6	5	4	3	2	1	Variables clearly recognized; clearly defined
10	9	8	7	6	5	4	3	2	1	Adequate data to support conclusion
10	9	8	7	6	5	4	3	2	1	Objective relevant to potential users' need
<b>ENVIRONMENTAL IMPACT ASSESSMENT</b>										
10	9	8	7	6	5	4	3	2	1	Environmental impact of each process clear
10	9	8	7	6	5	4	3	2	1	Influence that each process has on the environment evident
10	9	8	7	6	5	4	3	2	1	Social benefit of each process evident
<b>SUSTAINABLE MANAGEMENT INDICATORS</b>										
10	9	8	7	6	5	4	3	2	1	A balance among People, Planet and Profit is clearly evident

\_\_\_\_\_ Total for Defining Criteria

## **SOCIETY FOR IN VITRO BIOLOGY**

The Society for In Vitro Biology (SIVB) provides one (1) award at each Regional/State Intel ISEF Competition. It is intended that this recognition be awarded to the most outstanding 11<sup>th</sup> grade student exhibiting in the areas of plant or animal in vitro biology or tissue culture.

Judging for 2017-2018 fair awards will be by your Awards Committee. Included is a Certificate to be filled in by your awards committee or fair director and presented to the recipient at the time of awards announcements. Please complete the enclosed AWARD ACCEPTANCE FORM with the award winner and return it as promptly as possible after the fair. A formal letter of congratulations will be sent and publicity of his/her achievement will be included in the society's newsletter on their website at <https://sivb.org>.

In addition, it is possible that the recipient will be contacted by our society and invited to submit an abstract of their work to our annual meeting.

# Award Acceptance Form

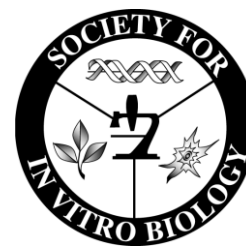
INSTRUCTIONS: Complete and send (1) copy of this "Acceptance Form" and keep one (1) copy for your files. All forms must be typed or have legible print.

DEADLINE: The "Acceptance Form" should be sent to SIVB as soon as possible after the conclusion of the fair so as to allow for timely follow-up contact with award recipient. Letter of congratulations will be mailed in the late summer. Listing of award winners will be published in the fall issue of the SIVB Newsletter.

SEND TO: Marietta Wheaton Ellis, Education Coordinator

## SIVB

Society for In Vitro Biology  
514 Daniels St., Suite 411  
Raleigh, NC 27605  
Phone: (910) 755-5431  
Fax: (910) 755-5432



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### ***Acceptance of Society for In Vitro Biology Award***

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RECIPIENT'S NAME: \_\_\_\_\_

RECIPIENT'S ADDRESS: \_\_\_\_\_

\_\_\_\_\_

NAME OF FAIR: \_\_\_\_\_

PLACE OF FAIR: \_\_\_\_\_

\_\_\_\_\_

RECIPIENT'S SCHOOL: \_\_\_\_\_

SCHOOL ADDRESS: \_\_\_\_\_

\_\_\_\_\_

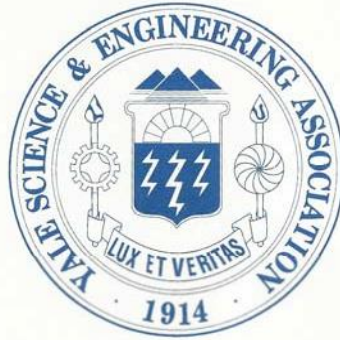
Title & Short Description of Recipient's Project (use separate sheet for additional information)

\_\_\_\_\_

\_\_\_\_\_



# YALE SCIENCE & ENGINEERING ASSOCIATION INC.

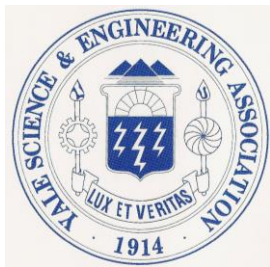


The Yale Science & Engineering Association, Inc. (YSEA) wishes to provide one (1) award at each Regional/State/International Intel ISEF Competition. It is intended that this recognition be awarded to the most outstanding 11th grade project exhibiting in the areas of Computer Science, Engineering, Physics or Chemistry though in extraordinary cases it may be awarded to a 10th or 12th grade project. In any case only a single project may win at any given fair independent of the size of the fair and the number of prize packets received. In the case where online award acceptance forms are submitted from more than one project, you will be contacted for further information on identifying the correct award winner.

Judging for 2018 fair awards will be by your Awards Committee. In future years, we hope to be able to offer judging assistance by Yale University faculty and/or alumni, depending upon availability.

Included herewith is a "Preliminary Certificate" to be filled in by your awards committee or fair director and presented to the recipient at the time of awards announcements. Please make sure that the student completes the AWARD ACCEPTANCE FORM **online at <http://ScienceFairs.YSEA.org>** as promptly as possible after the fair, but no later than 30 May 2018. In cases where a group project has won, all members must separately complete the online award acceptance form. Instructions for the form are included and must be given to the student. A formal award certificate, suitable for framing and a pewter medallion will be forwarded directly to the recipient(s) by the end of September.

In addition, it is possible that the recipient(s) will be contacted by a local Yale Club or Association and invited to an annual or special meeting for further recognition and publicity of his/her achievement.



## INSTRUCTIONS FOR SUBMITTING THE 2018 AWARD ACCEPTANCE FORM FOR THE YSEA SCIENCE FAIR AWARD

Dear Candidate/Student:

CONGRATULATIONS on your selection for the YSEA Award. Please follow the instructions below carefully to claim your official Yale Science and Engineering Award.

**The Award Acceptance must be submitted ONLINE. There are no exceptions. Please make sure you check your submission prior to finalizing it. If you find that you made an error in your submission, you should make a second corrected submission. In the comments field of the corrected submission state that it as a corrected submission. Each member of a winning team project must submit their information separately.**

**DEADLINE: You must complete the online submission as soon as possible after the end of your Science Fair, but NO LATER THAN MAY 30, 2018. Late submissions may not be processed.**

**Your Formal Certificate and Medallion is expected to be mailed to the address you provide by the end of September 2018. You will likely receive no communication from the YSEA until that time.**

### **PROCEDURE:**

- 1- Go to the following website: <http://ScienceFairs.YSEA.org>
- 2- Follow the instructions on the site to:
  - a) confirm that you are a 2018 winner of a YSEA Science Fair Award
  - b) enter all the requested information (name, address, email, school name, project title, fair information, name and email of teacher or advisor). This is the address to which the formal certificate and medallion will be mailed so be certain that it is a valid mailing address.
  - c) you are done. Once again congratulations, and look for your award in the mail by the end of September 2018.
- 3- If you have further questions send an email to Rick Koster at [ScienceFairs@ysea.org](mailto:ScienceFairs@ysea.org). Make certain that you subject line includes YSEA Science Fair Award.
- 4- Note when entering your address: Please do not use accented letters within your entered name and address. If you wish to have such accents, please list them in the comments field on the website.

To learn about Yale Science and Engineering Association (YSEA) – a group of Yale alumni, visit [www.ysea.org](http://www.ysea.org)

To learn more about Yale, visit [www.yale.edu](http://www.yale.edu)

To apply to Yale, visit [www.yale.edu/admit](http://www.yale.edu/admit)