

**Congratulations to each of the participants at the SB County Science Fair held on Friday March 9th 2018 at UCSB. We are so proud of all of our students!**

Here are the results:

**Division: Botany and Zoology (Bio)**

| <b>Medal</b> | <b>Project Title</b>   | <b>Student Name(s)</b> |
|--------------|--|------------------------|
| Gold         | The Path to Immortality: The Effect of Albuterol, Atorvastatin and Erythromycin on the Lifespan of <i>Caenorhabditis elegans</i> | Ryan Belkin            |
| Gold         | Swimmers vs. Singer: Pulmonary Functions   | Rachel Rabinowitz      |
| Silver       | Indigenous Microorganisms  | Jonathan Britton       |

**\*\*\*BEST IN DIVISION:** The Path to Immortality: The Effect of Albuterol, Atorvastatin and Erythromycin on the Lifespan of *Caenorhabditis elegans* by Ryan Belkin.

**Division: Behavioral, Cognitive and Social Sciences**

| <b>Medal</b> | <b>Project Title</b>                      | <b>Student Name(s)</b> |
|--------------|---|------------------------|
| Gold         | Reward vs. Punishment: Who Scored Better? | Anna Munoz             |
| Bronze       | VR and HR                                 | Anisa Saleh            |

**Division: Environmental Sciences**

| <b>Medal</b> | <b>Project Title</b>                                 | <b>Student Name(s)</b> |
|--------------|--|------------------------|
| Gold         | Going Up in Flames: Soil Bacteria                    | Shreya Rajappa         |
| Gold         | Acid Rain & the Food on your Table                   | Sofia Wallace          |
| Silver       | Reducing Soil Erosion with Different Types of Plants | Haley Buttimer         |

**\*\*\*BEST IN DIVISION:** Going Up in Flames: Soil Bacteria by Shreya Rajappa

**Division: Chemistry, Molecular and Microbiology**

| <b>Medal</b> | <b>Project Title</b>                                   | <b>Student Name(s)</b> |
|--------------|--|------------------------|
| Gold         | How Much Bacteria is on Your Reusable Bag?             | Lily Landeros          |
| Silver       | Using Daphnia to Rapidly Detect Water Safety           | Nikhil Gupta           |
| Bronze       | What Works? Natural and Synthetic Medicine vs. E. Coli | Lorelei Geyer Lamb     |

**Division: Physics, Electronics and Computer Science**

| <b>Medal</b> | <b>Project Title</b>   | <b>Student Name(s)</b> |
|--------------|--|------------------------|
| Gold         | The Association Between Cyber Security Knowledge and Password Strength | Gavin Jimerson         |
| Bronze       | Can You Hear Me Faster?  | Taryn Sager            |

**\*\*\*BEST IN DIVISION:** The Association Between Cyber Security Knowledge and Password Strength by Gavin Jimerson

Division: **Mechanical and Earth Sciences**

| Medal  | Project Title  | Student Name(s) |
|--------|--|-----------------|
| Gold   | Feel the Burn: The Effects of Fabric Softener on Flammability of Fabrics | Courtney Kelly  |
| Gold   | Can Natural Fibers Replace Carbon Fibers in Composite Materials?         | Marc Brown      |
| Silver | A Better Backpacking Stove   | Jacob Snodgress |

**\*\*\*BEST IN DIVISION:** Feel the Burn: The Effects of Fabric Softener on Flammability of Fabrics by Courtney Kelly

Division: **Engineering**

| Medal  | Project Title                            | Student Name(s)            |
|--------|--|----------------------------|
| Gold   | Plastic Ocean Commotion                  | Jillian Avila              |
| Silver | Creating Biofuel from Used Food Products | Haley Ellis and Ben Webber |
| Silver | Simple Circuits for the Undeveloped      | Kai Edick                  |

**\*\*\*BEST IN DIVISION:** Plastic Ocean Commotion by Jillian Avila

**BEST IN FAIR:** The Association Between Cyber Security Knowledge and Password Strength by Gavin Jimerson

Students going on to the CA State Science Fair held at the Science Center in Los Angeles:

|                  |               |                              |                             |
|------------------|---------------|------------------------------|-----------------------------|
| Gavin Jimerson   | Marc Brown    | Rachel Rabinowitz            | Courtney Kelly              |
| Anna Lucia Munoz | Jillian Avila | Ryan Belkin                  | Shreya Rajappa              |
| Sofia Wallace    | Lily Landeros | Alternates:<br>Haly Buttimer | Alternates:<br>Nikhil Gupta |

The following students have also been invited to enter their projects in the Broadcom MASTERS competition:

|                |               |             |                |                |
|----------------|---------------|-------------|----------------|----------------|
| Courtney Kelly | Jillian Avila | Ryan Belkin | Gavin Jimerson | Shreya Rajappa |
|----------------|---------------|-------------|----------------|----------------|

**Special Awards:**

\* All Best in Division winners receive a \$100 award, and all Gold Medal winners receive a \$50 award.

\*The Science & Engineering Council recognizes the Best in Fair project: The Association Between Cyber Security Knowledge and Password Strength by **Gavin Jimerson** with a \$200 award

\*Association of Old Crows awards \$50 for Outstanding project with Electronics or Computers to: **Gavin Jimerson**

\*Air and Waste Management award \$50 for Outstanding projects with Recommendations for Improving the Environment to: **Haley Buttimer** and **Jillian Avila**

\*Santa Barbara Museum of Natural History and Sea Center recognize Best in Innovation with a Family Membership to **Jillian Avila**.

**CONGRATULATIONS and Well Done Everyone!!!**