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**July 12 - 18, 2015**

**New Mexico Highlands University**

**Las Vegas, New Mexico**

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**Our mission: Advancing equity for women and girls through advocacy, education, philanthropy, and research.**

The American Association of University Women (AAUW) is the nation’s leading voice promoting equity and education for women and girls. Since our founding in 1881, AAUW members have examined and taken positions on the fundamental issues of the day — educational, social, economic, and political.

**Tech Trek 2015 Steering Committee**

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To learn more about AAUW’s groundbreaking studies: **Solving the Equation: The Variables for Women’s Success in Engineering and Computing** and ***Why So Few? Women in Science, Technology, Engineering, and Mathematics?***, visit the AAUW website: www.aauw.org/learn/research/whysofew.cfm

http://www.aauw.org/research/solving-the-equation/

**You can reach AAUW-NM at:**

[**http://aauw-nm.aauw.net/**](http://aauw-nm.aauw.net/)

**Facebook: https://www.facebook.com/aauw.new.mexico**

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**Tech Trek Core Classes**

**Computer Modeling and Simulations of Chemical Reactions:** Learn the basic concepts in modeling complex systems using StarLogo Nova, a modeling and simulation environment developed at MIT.

**Instructor:** Dr. Lina Germann

**From Sun to Us:** Explore the types of solar energy and its uses through building a solar-powered battery charger, solar still and solar cooker. **Instructors:** Athena Christodolou and Angela Arriaga

**App Inventors:** Learn basic computer science concepts through an introduction to designing and developing apps using the software MIT App Inventor 2. **Instructors:** Denette Martinez and Erin Gilland

**The Biomechanics of the Heart:** Investigate the heart as a pump, consider how valves and pumps work to move blood and investigate the implications of blood pressure through the development of a model of the human heart and circulatory system.

**Instructor:** Donna Ortiz

AAUW-NM is very grateful to the faculty, staff and administration of New Mexico Highlands University for their generous and enthusiastic support of Tech Trek NM 2015.  We are especially indebted to Camp Director Elizabeth Ratzlaff for her wonderful leadership, thoughtful planning, clear thinking, amazing organizational skills, recruiting efforts and enthusiastic advocacy of STEM education for all young people.  Thank you, Elizabeth.

**Tech Trek 2015 Workshops and Instructors**

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| --- | --- |
| Baking with the Sun | Athena Christodolou and Angela Arriaga |
| Design with Engineering in Mind | Julie Walleisa |
| DNA Extraction | Dr. Mary Shaw |
| Drone On and On | Erin Grassie |
| Faces of Cancer | Dr. Carol Linder |
| Friends Forever | Corilia Ortega |
| Getting to know Frogs- Inside and out! | Helen Bolen |
| Growth Mindsets | Dr. Carol Linder and Elizabeth Ratzlaff |
| Light, Color and Sparkles | Dr. Laurie Waters |
| Lighten Up: Using Light in Designs | Alice Shriver and Janette Frigo |
| Mapping with Pixels | Amanda Aragon |
| One Hour of Code | Dr. Josephine Killdee |
| Physiologically Speaking | Jessica Snow |
| Probably So! Probability and Statistics | Cheri Burch |
| River Assessment | Lea Knutson and Lorraine Garcia |
| The Internet and You- How to Stay Safe and Post Smartly | Erin Grassie |
| The Water Beneath Our Feet | Dr. Kate Zeigler |
| We Are What We Eat | Dr. Carol Linder |
| Wildfire Science- It's Hot! | Dr. Sara Brown |

**Volunteers and Camp Staff**

Camp Director: Elizabeth Ratzlaff

Assistant Director: Dr. Karyl Lyne

Health Aide: Dr. Mary Schipper

Core Class and Workshop Hosts: Sonya Berg, Meredith Britt, Cheri Burch, Jill Foreman, Louise Gerstle, Lynn Heffron, Martha McCaffrey, Phyllis Ludi, Dr. Claudia Poglitsch, Donna Rivas, Jean Sorrell-Jones, Nina Thayer, Dr. Carol Winkel

Camp Photographer: Monique Esquibel

Dorm Monitors: Cheri Burch, Corilia Ortega, Dr. Claudia Poglitsch,

Helena Whyte

Student Counselors: Helene Beauchamp, Laurel Carr, Lorraine Garcia, Rachael Lucero, Danielle Martin, Kushum Shrestha, Rosie Vasquez

General: Lynn Gates, Dolores Lopez, Dorothy Maestas,

Donna Rivas

**Campers**

**School**

**Albuquerque**

Makayla Marquez Tierra Adentro

Allison Covington Cleveland Middle School

Kendra Giersch Montessori Middle School

Zora Lehmer-Mearns Montessori Middle School

BreOnna Lucero Wilson Middle School

Roxanne Marquez Mission Achievement School

Vivien McCullough Cleveland Middle School

Amanda Perea Public Academy for Performing Arts

Sierra Romero Montessori Middle School

Kayla Weber Our Lady of Annunciation

Zhane Gomez-Bravo Public Academy for Performing Arts

Leticia Lopez Van Buren Middle School

**Belen**

Kaeley Chavez St. Mary's Catholic School

**Bosque Farms**

Reyna Mayer Torres Valencia Middle School

**Carlsbad**

Madelynn Boam Carlsbad Intermediate School

Kylie Pinzel Carlsbad Intermediate School

Rachel Rogers Carlsbad Intermediate School

**Corrales**

Emily Swinson Our Lady of Annunciation

Eva Wilson Cien Aguas International School

**Las Cruces**

Vivian Allen La Academia Dolores Huerta Middle School

Athena Angel Lynn Middle School

Katy Boetticher-Northcutt Lynn Middle School

Liah Rebeca Guerrero Mesa Middle School

Galilea Gutierrez La Academia Dolores Huerta Middle School

Ariya Nilkaew Vista Middle School

Carmen Sanchez La Academia Dolores Huerta Middle School

**Los Alamos**

Sarah Crotzer Los Alamos Middle School

Malea Joyce Los Alamos Middle School

**Los Lunas**

Marisa Armijo Los Lunas Middle School

Zoe Bennett La Plata Middle School

Olivia Caven Los Lunas Middle School

Kitra Noce Cleveland Middle School

**Mesilla**

Rigel Liefeld Home School

**Moriarty**

Maria Ford Estancia Valley Classical Academy

Autumn Shelton Estancia Valley Classical Academy

**Peralta**

Makayla Gates Valencia Middle School

**Rio Rancho**

Amisha Choudhary Mountain View Middle School

Peyton Elder Mountain View Middle School

Jordan Moody Eagle Ridge Middle School

**Sandia Park**

Maisy Dunlavy Roosevelt Middle School

**Santa Fe**

Fiona Ellis-Green Santa Fe Girls School

Gabriella Gabaldon Tierra Encantada Santa Fe

Alexa Maes Aspen Community Magnet School

Sofia Ortiz Santa Fe Girl's School

Etta Pope Academy of Technology and the Classics

**Silver City**

Miriam Frisch Aldo Leopold Charter School

Theresa Gutierrez La Plata Middle School

**Socorro**

Aolani Avalos Sarracino Middle School

**$1,000 to $2,500**

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**Up to $99**

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