

Event Planning to Reach Underserved and Underrepresented Populations

Idaho South and East EcosySTEM (ISEE STEM) Event Planning Committee

Meet your Presenters!

Heather Smith- White Pine STEM Academy smithhe@wpcscougars.org

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Michelle Anderson- JR Simplot Elementary School michellea@sd381.k12.id.us

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Process

- Forming of the committee
- Decision-making
- Planning
- Preparation
- Execution
- Lessons Learned

Forming the Committee

- Ashley Schaffner- Regional Hub Coordinator, STEM AC point-of-contact, funding
- Heather Smith- Community Outreach Coordinator- WPSA, planner, industry connections
- Michelle Anderson- 4th grade teacher- JRSE, connection to American Falls students, STEM tools access
- Erika Meadows- Idaho Science Coach, connections to schools

Deciding on an event

Why

What

Who

Where



Preparation

Asking community partners

Ordering and reimbursement

Shirts, banner, printing key chains

Food

Day of:

- Set-up
- Manning table
- Organizing speakers and vendors

Execution



Idaho Power: Wind Turbine Experiment

MS-PS-3.2 Students who demonstrate understanding can: **Develop a model** to **describe the relationship** between the **relative positions of objects interacting at a distance and the relative potential energy in the system. Cause and Effect**

MS-ESS-2.5 Students who demonstrate understanding can: Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions. Cause and Effect

Idahoan Potatoes: Dehydrated Potato Experiment

MS-PS-1.3 Students who demonstrate understanding can: Construct a scientific explanation, based on evidence, to describe that synthetic materials come from natural resources. Structure and Function

Further Explanation: Emphasis is on natural resources that undergo a chemical process to form the synthetic material. Examples of new materials could include new medicine, foods, plastics, and alternative fuels.

INL Cyber Security

6-8.IC.02 Explore how computer science fosters innovation and enhances other careers and disciplines.

6-8.IC.09 Predict positive and negative social impacts of existing or student created content and computational artifacts (e.g. economic, entertainment, education, or political).

Idaho State Forensics Laboratory

MS-LS-1.1 Cell Theory Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different numbers and types of cells. Scale, Proportion, Quantity

HS-LS-1.1 DNA, Genes, and Proteins Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins which carry out the essential functions of life through systems of specialized cells. Structure and Function

Lessons Learned

Do not ride the bus with your students if you are working the event!

- 1 point of contact
- Development of turnkey documents
- Expectations for presenters
- Reminder (NOT a lesson learned): patience, kindness

Super STEM Girl- Idaho State University

Goal was to expose girls to traditionally male-dominated STEM programs at ISU

Sued because it appeared to be an exclusive event (Title 9 action suit)

Transitioned to STEMx:

- Exposes boys to traditionally female-dominated programs or career paths (ex. healthcare)
- Exposes girls to traditionally male-dominated programs or career paths (ex. engineering).

