SOUTHEASTERN ARIZONA PARTNERSHIPS
A KEY TO SCIENCE OUTREACH

Presentation at the RAIN Retreat
4/21/2017
is the **oldest member of the Arizona Community College system** and enjoys a rich tradition of educational excellence, achievement and commitment.

- **Offers 60 Associate and 46 Certificate Programs** from 7 campus locations in Southeastern Arizona.
- 8660 full time students
- 5646 part time students
- There are 19 high schools in the combined three-county service area with 1071 graduates in 2015.
  - 562 dual enrollment students
  - EAC attracts 27.5% of all high school graduates in our service area
THE GILA VALLEY
GRAHAM COUNTY, ARIZONA

Astronomy
Agriculture
Education
Mining
EASTERN ARIZONA SCIENCE INITIATIVE

- 1st Step - Developed a charter – Non profit
- Monthly meetings at Eastern Arizona College
- Prepared a list of Objectives
  - **Professional Development** (K-12 teachers)
  - Establish Educational Partnerships
  - Community Outreach
    - Science Camps
    - Regional Science Fair
    - Gila Valley Health and Safety Festival
PROFESSIONAL DEVELOPMENT
(ENHANCING INSTRUCTOR QUALIFICATIONS)

• Southeastern Arizona Teachers Academy
  Co-Sponsored by Graham and Greenlee County School Superintendents
  • Graham County School Office Fund
  • Arizona Department of Education
  • United Way of the Gila Valley
  • Healthy Families/Healthy Youth (Governor’s Office) grant

• Arizona Science Teachers Association Conference
• STEM = Integration & Innovation Unconference
• 3-Dimensional Instruction for All Workshop
Break-out sessions are planned with a focus on best practices across the curriculum. Attendees earn up to 24 hours of professional development credit. SEATA is open to certified educators, early childhood education providers and pre-service educators.
SOUTHEASTERN ARIZONA TEACHERS ACADEMY (SEATA) PROVIDES LOCAL TEACHERS WITH A 4-DAY VENUE TO

• study the new math/science standards

• learn new ways to effectively present core content in their home classrooms.

• Something for everyone (PreK-3, 4-6, 7-8, and high school)
EASTERN ARIZONA SCIENCE INITIATIVE

- **Professional Development (K-12 teachers)**
- Establish Educational Partnerships
- Community Outreach
  - Science Camps
  - Engineering Day – Chemistry Adventure
  - Gila Valley Health and Safety Festival
The Arizona STEM Network, led by Science Foundation Arizona, is a collaboration between business, educators, government and philanthropy sharing a common agenda to graduate more Arizona students prepared for the global economy.
COOPERATIVE EFFORT - A RANARIUM WAS BUILT TO PROVIDE A NURSERY HABITAT FOR THE CHIRICAHUA LEOPARD FROG, A THREATENED AND ENDANGERED SPECIES.

- High School science students
- Boy Scouts
- Eastern Arizona College students
- Grant from the U.S. Fish and Wildlife Service
CHIRICAHUA LEOPARD FROG RANARIUM
OUR PARTNERSHIPS HELP PROVIDE HUNDREDS OF HIGH SCHOOL STUDENTS OPPORTUNITIES TO WORK AND LEARN IN COOPERATIVE PROJECTS WITH OUR EAC STUDENTS.
• **Professional Development (K-12 teachers)**
• **Establish Educational Partnerships**
• **Community Outreach**
  • **Science Camps**
  • **Engineering Day – Chemistry Adventure**
  • **Regional Science Fair**
  • **Gila Valley Health and Safety Festival**
EASI SUMMER SCIENCE CAMP

Summer Science Camps

Participants

- 2011
- 2012
- 2013
- 2014
- 2015
- 2016

Participants chart showing data from 2011 to 2016.
<table>
<thead>
<tr>
<th></th>
<th>Total # of participants</th>
<th># Female</th>
<th># Male</th>
<th># Hispanic</th>
<th># Native American</th>
<th># Asian</th>
<th># African American</th>
<th># Hawaiian/Pacific I.</th>
<th># White</th>
<th># Other/Unknown</th>
<th># grade 6-8 students</th>
<th># HS Students</th>
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<td>76</td>
<td>51</td>
<td>25</td>
<td>8</td>
<td>6</td>
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<td>1</td>
<td>0</td>
<td>61</td>
<td>0</td>
<td>58</td>
<td>18</td>
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<tr>
<td>Summer Science Camps (EASI)</td>
<td>64</td>
<td>29</td>
<td>35</td>
<td>9</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>44</td>
<td>0</td>
<td>53</td>
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<td>Tonto Creek Camp</td>
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<td>15</td>
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<td>4</td>
<td>5</td>
<td>0</td>
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<td>0</td>
<td>20</td>
<td>0</td>
<td>24</td>
<td>5</td>
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<tr>
<td><strong>Totals (2015)</strong></td>
<td><strong>93</strong></td>
<td><strong>44</strong></td>
<td><strong>49</strong></td>
<td><strong>13</strong></td>
<td><strong>16</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>64</strong></td>
<td><strong>0</strong></td>
<td><strong>77</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td>Summer Science Camp (EASI)</td>
<td>52</td>
<td>27</td>
<td>25</td>
<td>4</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>32</td>
<td>0</td>
<td>47</td>
<td>5</td>
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<tr>
<td>Summer Science Camp (CSI-AZ Forensics)</td>
<td>21</td>
<td>17</td>
<td>4</td>
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<td>0</td>
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<td>0</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>Tonto Creek Camp</td>
<td>34</td>
<td>20</td>
<td>14</td>
<td>4</td>
<td>10</td>
<td>0</td>
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<td>0</td>
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<td>0</td>
<td>22</td>
<td>12</td>
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<tr>
<td><strong>Totals (2016)</strong></td>
<td><strong>107</strong></td>
<td><strong>64</strong></td>
<td><strong>43</strong></td>
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<td><strong>69</strong></td>
<td><strong>0</strong></td>
<td><strong>76</strong></td>
<td><strong>31</strong></td>
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</table>
Eastern Arizona College’s GEAR UP program held its “Summer Camp of Champions” hosting approximately 80 middle school students representing seven school districts including Chinle, Fort Thomas, Globe, Miami, Payson, Pima, Safford, and Snowflake School Districts.
Eastern Arizona College’s Chemistry Department hosted the 25th Annual Student Chemistry Adventure in April.

High school students from 7 rural high schools came together to form 17 teams for this all-day event.
Spring 2011 marked the first time a Regional Science Fair was held in Graham County.

Organized by members of the Eastern Arizona Science Initiative (EASI)
ARIZONA SCITECH FESTIVAL

• The Arizona Science and Technology Festival celebrates Arizona’s leading role in science, technology, and innovation with activities that engage, inspire and spark imagination across entire communities.

• The Arizona SciTech Festival is a grass-roots collaboration of over 350 organizations in industry, academia, arts, civic, community and K–12. Together these partners offer over 200 events designed to excite and inform Arizonans from ages 3 to 103 about how STEM will drive our state for next 100 years.

• Eastern Arizona College partners with Mt. Graham Regional Medical Center and the Eastern Arizona Science Initiative to host the Gila Valley Health and Science Festival.
  • We just completed our 3rd year with over 1000 participants.
  • This is truly a family affair.
A SPECIAL THANKS TO

- Eastern Arizona College
- Freeport McMoran (FMI)
- Graham County School Superintendent – Donna McGaughey
- First Things First
- University of Arizona Cooperative Extension
- Arizona State University
- Arizona Department of Education
- National Science Foundation (DUE-1400687, SFAz+8: Building Capacity for STEM Pathways in Rural Arizona)