SAME Guam Post STEM Camp Review

Prepared for SAME Guam Post
LT Tim Dahms, Pete Diaz, Noel Enriquez, ENS Sarah Fyda, and Bob Shambach
17AUG17
Overview

• Background
• Goal of Camp
• Camp Organization
  – Volunteers
  – Host Site
  – Finances
• Camp Activities
• Lessons Learned
Background

• Since 2012, there has been a nationally sponsored SAME Engineering Camp for prospective high school aged engineering students hosted by USA, USAF, and USMC.

• The Atlanta Post in addition to many others, have started their own versions of the National SAME Engineering Camps.

• SAME Guam Post held their first STEM camp 08JUL17.
Goal of Camp

- Host a STEM Camp on Guam available to students entering 5\textsuperscript{th}-8\textsuperscript{th} grade. The intent is for this camp to become a recurring annual multi-day camp.
STEM Camp Organization

**Camp Director**
Noel Enriquez

**Curriculum/Training**
LT Tim Dahms
Pete Diaz

**Logistics/Facilities**
Bob Shambach
Noel Enriquez

**Manpower/Volunteers**
Pete Diaz
LT Tim Dahms
ENS Sarah Fyda
Noel Enriquez

**Social Media & Photography**
ENS Sarah Fyda
STEM Camp Squad Organization

8 Squad Leaders (1/squad)
- AD military
- Overall responsible for squad

8 Mentors (1/squad)
- Assist in curriculum and activities
- Mentor campers on engineering and construction careers

Squad Commander
LT Tim Dahms

Asst. Squad Commander
ENS Sarah Fyda

- Alpha
  SL: M:

- Bravo
  SL: M:

- Charlie
  SL: M:

- Delta
  SL: M:

- Echo
  SL: M:

- Foxtrot
  SL: M:

- Golf
  SL: M:

- Hotel
  SL: M:
STEM Camp Volunteers

• A total of 46 volunteers including: mentors, squad leaders, instructors and overhead workers.
STEM Camp Site

• Hosted with support from University of Guam (UoG) Endowment Foundation located at UoG Campus, School of Business and Public Administration Building.
  – Six (6) classrooms
  – Atrium
  – Lecture hall
  – Multi-purpose room.
Finances

• STEM Camp: $25 per student
• Operating Funds: $3000
• Operating Expenses: $2933
• Intend to continue to provide low cost STEM camp but become independently sufficient as a camp outside SAME Guam Post Budget.
# Finances

## SAME Guam Post STEM Camp Financial Report

<table>
<thead>
<tr>
<th>Income</th>
<th>Expense</th>
<th>Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guam Post Funding 1,000.00</td>
<td>T-Shirts (Pacific Charlie) 1,120.00</td>
<td>$ 141.57</td>
</tr>
<tr>
<td>Camp Fees ($25/ea x 80) 2,000.00</td>
<td>Food (Carmens Cha Cha Cha) 1,144.00</td>
<td></td>
</tr>
<tr>
<td>Donated Water (15 cases x $5) 75.00</td>
<td>Supplies - Various (LT Dahms) 223.66</td>
<td></td>
</tr>
<tr>
<td><strong>Total Income</strong> $ 3,075.00</td>
<td>Prize Giveaways (Pete) 329.27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Snacks (Sarah) 41.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Donated Water (15 cases x $5) 75.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Expense</strong> $ 2,933.43</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Balance</strong> $ 141.57</td>
<td></td>
</tr>
</tbody>
</table>

### Miscellaneous Costs for Planning Purposes

<table>
<thead>
<tr>
<th>Cost Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classroom Rental (donated by UOG Endowment Foundation)</td>
<td>655.00</td>
</tr>
<tr>
<td>Manpower (46x8hrs x $30) - estimated free labor</td>
<td>11,040.00</td>
</tr>
</tbody>
</table>

**Total Estimated Actual Cost** $ 14,628.43
STEM Camp Activities

5th and 6th Graders
- Architecture
- Bridge Design
- Liquid Composite Materials
- Computer Coding

7th and 8th Graders
- Solid Composite Materials
- Environmental Science
- Photo Voltaic
- Aviation-Water Bottle Rockets
Architecture
Bridge Design
Computer Coding
Solid Composite Materials
Environmental Science
Photo Voltaic
Aviation-Water Bottle Rockets
Lessons Learned

• Feedback was received from attendees and volunteers
  – Registration (better controls)
  – Date/time/length of sessions (60 min)
  – Curriculum (STEM vs Engineering)
  – Facilities/food (positive)
  – Value/benefit (positive)
Summary

• Background
• Goals of Camps
• Camp Organization
  – Volunteers
  – Host Site
  – Cost
• Camp Activities
• Lessons Learned
Questions?