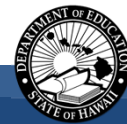


**Bright Spots:**  
**Kea`au High School's Problem-Based Learning  
Around the Space Shuttle Challenger  
and  
Ka`u-Kea`au-Pahoa Complex Area's Synergy Bright  
Spot versus a Success Story**

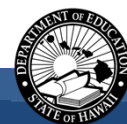
Board of Education  
General Business Meeting  
June 7, 2016

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**Ka`u-Kea`au-Pāhoā Complex Area**  
**It's a kākou thing...**  
Board of Education Meeting  
June 7, 2016

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## Our Bright Spot - Kākou

Kākou is the Hawaiian value of inclusiveness. It means “all of us” and “we are in this together.” Kākou is very unifying when applied to language, and all are taught to learn, speak, and practice “the language of we.” Coupled with the value of Lōkahi, Kākou promotes synergy as a habit of creation which seeks additional solutions and alternatives.

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## `Ike Pilina - Relationships



“When you know where you come from, you know the traditions, you know the cultural values, you can connect with your area, you can connect with the people, you can connect with the land.”

-Kupuna Jessie Ke

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## ʻIke Honua - Sense of Place



“When you have sense of place, then you have pride in your community. You become better citizens. That’s why it is important for children to learn about sense of place.”

-Kupuna Kawaiula Branco

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## ʻIke Piko`u - Personal Reflection

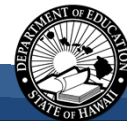


“Focusing on the teachers IS focusing on the students because the most important thing a child needs is a really good teacher.”

-Darlene Javar, Na`alehu Elementary Principal

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# Ho`okele



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## Presentation for Bright Spots: Kea`au High School Space Shuttle Project

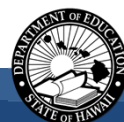


Kea`au High School Alumni Presenters:  
Kumalani Kekipi, Daylin Perreira, Eve Paguirigan

<http://www.keaaus.com>  
<http://www.khs-restoringhistory.com/>

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# The Space Shuttle Challenger



Date of Explosion: **January 28, 1986**

The Challenger was on its 10th launch at the Kennedy Space Center at Cape Canaveral, Florida.

The explosion happened **73 seconds** after the launch.

Due to: O-Ring failure that led to engine malfunctions. The explosion destroyed the shuttle and launched the pieces everywhere. All seven crew members were pronounced dead, including the Hawaii born Ellison Onizuka.



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# The Initial Condition



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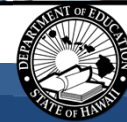


## What needed to be fixed?

- ❑ Frame – Rusted and out of shape
- ❑ Shell - Fiberglass: Fixing external damage and prepping it for paint (resin bubbles)
- ❑ Cockpit - Furnishing: Redoing Seats, Dashboard, Flooring. Equipping the front with electronics, and lighting.



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## Problems that Arose

- ❑ Stripping the panels
- ❑ Fiberglass - Resin Bubbles
- ❑ HCC: Job - Wiring
- ❑ Civil Air Patrol - Unexpected delays
- ❑ Budget for the whole project - \$500
- ❑ Time restraints - 5 months



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**The Finished Product**

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## The 30th Anniversary Commemoration

Unveiling: **January 28, 2016**



**Shuttle Name: Kaho`omakahou “The New Beginning”**

Distinguished Guests: PISCES Executive Director: Rob Kelso, Hawaii County Mayor Billy Kenoi, Will Okabe, Governor David Ige’s Liaison, Minister Bryan Siebuhr, 291st Combat Communications Squadron





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## What are we taking away from the experience?

- ❑ Attention to detail is very important.
- ❑ Not everything will go as you expect, you have to push through.
- ❑ Getting more people involved lessens the stress.
- ❑ It took a long time.



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## Kea`au Elementary Robotics Inspire Program

### Who we are

- After school STEM-based program for Gifted and Talented students in grades 4-8
- Every day after school from 2:30-5:00 p.m. and on weekends, holidays, school breaks and during the summer

### Kākou

- Hawaii Community Foundation funded three VEX IQ competitions this year



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## Kea`au Elementary Robotics Inspire Program

### Accomplishments

- TMT West Hawaii VEX IQ Challenge
  - Qualified for Hawaii State Championship (HSC)
- TMT East Hawaii VEX IQ Challenge
  - Top honors and 4 teams qualified for HSC
- TMT VEX IQ Tournament
  - Top honors and Sportsmanship Award

### Future

- SY16-17, Kea`au/Pahoa complex after school VEX IQ league
- A K-12 Kea`au Complex STEM robotics program



*"Robotics was a way for the school to continue to meet their needs. It challenges them to higher-order thinking skills, solving problems and math."*

*-Merry Blechta, Kea`au Robotics Coach*

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## Ka`ū High & Pahala Elementary Health Occupation Students of America (HOSA)

### Who we are

- 24 students interested in health occupations
- 9 students competed in district and state HOSA fairs

### Kākou

- Rural Community Health Center
- Hilo Medical Center
- Community Public Health Nurse

*"As the first year for the CTE Health career and technical program offering, there was an opportunity to create a health club. There are 22 students in the club, 9 chose to step up and compete. It is exciting that there are students already wanting to do it next year."*

*-Dr. Angela Miyashiro, HOSA Advisor*



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## Ka`ū High & Pahala Elementary Health Occupation Students of America (HOSA)

### Accomplishments

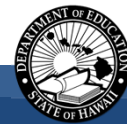
- District HOSA Competition
  - Pathophysiology - 1st Place
  - Community Awareness (Dengue Fever) - 1st Place
  - Public Service Announcements - 1st Place
  - Health and Movement - 1st Place
- State HOSA Competition
  - Pathophysiology - 2nd Place
  - Community Awareness (Dengue Fever) - 3rd Place

### Future

- National HOSA Competition
  - Nashville, Tennessee (June 2016)

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## Pāhoā High & Intermediate School Future Farmers of America

### Who we are

- 12 students interested in agriculture and farming within the community

*"The Conservation Awareness Contest came full circle for me this year because 10 years ago, I was one of the students on the Pahoā FFA team who won the state contest! When the students took the title this year, it was such an incredible feeling for me and I am so proud of the hard work that they put in."*

*-Mailei Bumanglag, FFA Advisor*

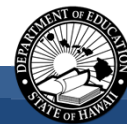
### Kākou

- Hawaii Farm Bureau



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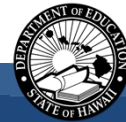
## Pāhoā High & Intermediate School Future Farmers of America (FFA)

### Accomplishments

- County Conservation Awareness Contest - 1st
- State Conservation Awareness Contest - 1st
- Hawaii State FFA Convention
  - Job Interview – 1st and 3rd place
  - Parliamentary Procedure - 3rd place
  - Prepared Public Speaking - 1st place
- National FFA Competition
  - Indianapolis, Indiana (October 2016)

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## Kākou...it starts with us!



**“I don’t care about the demographics. All of these children have to go to college or have the ability to choose. Our job here is to overcome every, every challenge.”**

**-Darlene Javar, Naalehu Elementary Principal**

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