Today’s Agenda

- Outcomes of the 30th Annual Pacific Rim International Conference on Disability & Diversity (Pac Rim Conference)
- Involvement of Pacific Alliance Advisory Board & COP members
- Other Alliances and outcomes from their projects
- Summer Academic Math, Reading and Writing Camps
Pac Rim International Conference on Disability & Diversity

• Supporting Postsecondary Students with Disabilities through Critical Junctures in STEM
• Five Critical Concepts to Support the Transition of Students with Disabilities to College
• Pacific Alliance Internship for College Students
• Pacific Alliance Project presents STEM Networking & Career Fair/Workshop
• Demystifying STEM Education: Removing the Fear and Stereotype in STEM
Supporting Postsecondary Students with Disabilities through Critical Junctures in STEM
(Five years of research and results)

Highlighted portions of the presentation
Project short-term outcomes

As a result of participating in the project,

(1) 62.0% of participants reported an increase in their STEM interest.

(1) 57.4% of participants reported an increase in their STEM academic aspiration.

(2) 58.8% of participants reported an increase in their STEM career aspiration.
(1) 68.2% of high school graduates - definitely helpful or helpful in entering college.
(2) 43.8% of high school graduates - definitely helpful or helpful in deciding to major in STEM at college.

**Project outcome 1 - High school participants entering in postsecondary STEM programs**

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<tbody>
<tr>
<td>High School Participants</td>
<td>1</td>
<td>31</td>
<td>102</td>
<td>111</td>
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<tr>
<td>High School Participants</td>
<td>0</td>
<td>10</td>
<td>33</td>
<td>43</td>
</tr>
<tr>
<td>Graduated &amp; Entered College</td>
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<td>7</td>
<td>31</td>
<td>43</td>
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<tr>
<td>Graduated &amp; Entered College to</td>
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<tr>
<td>Major in STEM</td>
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• Project outcome 2: Postsecondary participants graduating with a degree in STEM

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<tbody>
<tr>
<td>AA/AS in STEM or Transfer to a University to Major in STEM</td>
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<td>2</td>
<td>5</td>
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<tr>
<td>BA/BS in STEM</td>
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<td>0</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Graduate Degrees in STEM</td>
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<td>1</td>
<td>0</td>
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(1) Average participation duration
AA/AS- 4 semesters
BA/BS- 6 semesters
AA/AS then BA/BS- 8 semesters

(2) Gender
AA/AS- Male: Female=2:1
BA/BS- Male: Female=1:1
Disability type
a. Associate’s: 4 psychological; 2 ADHD; 2 physical; 1 learning; 1 health; 1 visual; 1 speech

b. Bachelor’s: 4 psychological; 3 physical; 3 learning; 2 ASD; 2 ADHD; 1 speech; 1 other

c. Associate’s then Bachelor’s: 3 psychological; 2 ADHD; 2 physical; 1 learning; 1 speech.

Significant difference in the participation in mentoring activities by student degree status
Associate’s to Bachelor’s (35 times)> Bachelor’s (33 times)> Associate’s (6 times) and No degree (7 times)
Significant difference in the participation in career activities by student degree status
Bachelor’s (6 times) > Associate’s (5 times) > Associate’s then, Bachelor’s (2 times) and No degree (1 time)

Persistence in postsecondary STEM programs
a. Enrolling in PA freshman year was positively correlated with completion of attempted courses overall and STEM course specifically.
b. In the cohort time-series study of CC participants, 31% were on track to complete at least 60 credits and/or an AS degree in 2 years, which is a higher rate than the rate of UH CC (13%).
Five Critical Concepts to Support the Transition of Students with Disabilities to College

Highlights from the Presentation
Critical Concept 1: Events (Building Interest in STEM)

- Pacific Rim International Conference on Disability and Diversity
- Summer Academic Camps
- Summer & Winter Institutes
- High School Monthly Sessions
  - Parent Night Recruitment
  - Session 1: Introduction of Pacific Alliance
  - Session 2: STEM Career Card Sort, Participation Forms
Critical Concept 2: Identifying and Planning for Goals

- Session 3: “Getting to Know You” - Goals Part 1, Demographic and Past Experience Survey

- Session 6: Goals Part 2, S.M.A.R.T. strategy
  - S – Specific in your goals
  - M – Measurable, are you able to see progress?
  - A – Action-Oriented, steps to take
  - R – Realistic, can this really be achieved?
  - T – Timely, is this too much/little time?
Critical Concept 3: Self-Advocacy

- **Session 4:** Self-Advocacy Part 1, Self-Advocacy Strategy *(adapted from the University of Kansas, Center for Research and Learning, self-advocacy strategy)*

- **Session 5:** Self-Advocacy Part 2, IPLAN
  - I – Inventory your skills and weaknesses
  - P – Provide your inventory information
  - L – Listen and respond
  - A – Ask questions
  - N – Name your goals
Critical Concept 4: Transitioning into College

- Session 7: Assistive Technology
  - Smart pens
  - Kurzweil

- Session 8: College Application

- Session 9: Financial Aid
Critical Concept 5: Hands-on Learning

All sessions include some sort of hands-on learning activity, coupled with worksheets and/or outside presenters and partners.

- Session 1: Introduction of Pacific Alliance
- Session 2: STEM Career Card Sort, Participation Forms
- Session 3: “Getting to Know You” - Goals Part 1, Demographic and Past Experience Survey
- Session 4: Self-Advocacy Part 1, Self-Advocacy Strategy
- Session 5: Self-Advocacy Part 2, IPLAN
- Session 6: Goals Part 2, S.M.A.R.T. strategy
- Session 7: Assistive Technology
- Session 8: College Application
- Session 9: Financial Aid
Pacific Alliance Internship for College Students

- Spring 2014 Pacific Alliance Interns presented in poster format information about the Pacific Alliance Internship
- The Pac Rim Conference was their first major professional presentation experience
- They reported that the experience improved their public speaking skills
Pacific Alliance Project presents STEM Networking and Career Fair/Workshop

- Pacific Alliance College participant students attended a pre-networking workshop where they practiced their professional communication skills with each other.

- The Networking and Career Fair/Workshop included 20 working professionals in STEM or STEM related fields and 18 student participants.

- The format consisted of multiple rounds of five minute one-on-one conversations or “meet and greet”.
Pacific Alliance Networking and Career Fair
Pacific Alliance UHM/KCC COP member and Engineering Dean, Song Choi, Ph.D.

Pac Rim Thematic Keynote Speaker

Title: Demystifying STEM Education: Removing the Fear and Stereotype in STEM
Pacific Alliance WCC COP member and Disability Student Services Counselor, Ann Lemke, Ph.D.

Pac Rim Presentation Speaker

Title: Ask Seasoned Hawaii College Disability Student Service Professionals Anything you Want About Transition to College
Other NSF “Alliances” that presented at Pac Rim

- Georgia Alliance presented: “Mentoring and UDL in Virtual Environments for STEM Students with Disabilities”
- Alabama Alliance presented: “From Managing to Mentoring: The Alabama Alliance for Students with Disabilities in STEM at Auburn University, Montgomery”
Primary Mission: To improve Science, Technology, Engineering and Math (STEM) outcomes for secondary and post-secondary students with disabilities.

Accomplished through:
Online and Virtual Mentoring
Accommodation for undergraduate research assistants

Entire online presentation at: http://www.catea.gatech.edu/pacrim/pacrim2014.pdf
Pacific Alliance Academic Camps 2014
June 23-27, 2014

- Last major direct support for the Pacific Alliance participants
- Limited to 25 recent Pacific Alliance high school graduates entering college in the fall
- Involvement of UH Manoa Online Learning Academy (http://manoa.hawaii.edu/ola/)
- Mathematics camp: 9:00 a.m. - 11:30 a.m. (Math tutorial hour 11:30 a.m.-12:30 p.m.)
- Reading/Writing camp: 1:00 p.m. - 3:30 p.m. (Reading/writing tutorial hour 3:30 p.m. to 4:30 p.m.)
What happens next with Pacific Alliance?

Changes to the Staff

• Dr. Steven Brown will retire from the University of Hawai‘i as of June 30, 2014.
• Lisa Uyehara will serve Windward Community College participants and the WCC COP as of June 2014 as the project funding period continues to wind down.
• Pacific Alliance will no longer be in the high schools.
Questions and Comments
Thank you for supporting the Pacific Alliance project!

www.cds.hawaii.edu/pacificalliance/