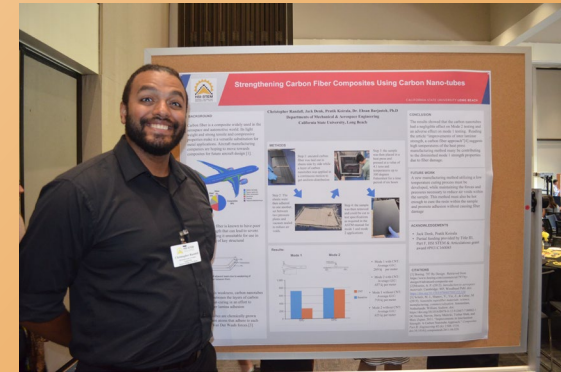


Elevating Student Success Through Family Engagement: HSI STEM Annual Bienvenida Event



Presenters: Nancy McQueen, M.A., Erika Kato, Ph. D., Eric Martinez, Ph.D.

CALIFORNIA STATE UNIVERSITY **LONG BEACH**

HSI STEM

- Funded by the U.S. Department of Education, Title III HSI STEM & Articulation Grant # P031C110151.
- The overall aim is to increase the number of under-represented Latino students attaining highly valued degrees in the fields of science, technology, engineering or mathematics, including transfer students from two-year institutions.
- Collaboration between the CSULB College of Engineering and the College of Natural Sciences and Mathematics.

AHSIE Presentation Outcomes

Participants will:

- Learn about CSULB's HSI STEM Bienvenida model of parental and student engagement.
- Learn about the framework of the Bienvenida event model and planning process used at CSULB.
- Learn about the evaluation of the significance of the program through qualitative and quantitative surveys.
- Ideas for application.

Bienvenida - Overview

- Family event for CSULB STEM students and their families navigating the First Year of college
- Connects students and parents to campus, resources, industry professionals and a Peer Mentor cohort
- Showcases the impact of HSI STEM student participant success stories
- Parents receive packets specific to STEM majors informing them of campus resources
- Bilingual event (English and Spanish)
- Free of charge

Bienvenida

This event provides Latino STEM parents and families with bilingual information intended to foster an environment that is conducive to Latino student success in STEM fields.

Objectives:

- (1) Increase understanding of the STEM fields and college life.
- (2) Addressing expectations of CSULB students in STEM majors.
- (3) Increase sense of comfort with the university.
- (4) Promote awareness of campus resources and connection to STEM professionals.

Bienvenida Data: First Grant Cycle

Results

N = 281 (across 2012-15)

- 39% STEM students (100)
- 38% Parents (98)
- 13% Relatives (24)
- 9% Friends (24)

93% - *I have a better understanding of the STEM fields*

94% - *I feel more comfortable with the university*

94% - *Speakers presented information that was understandable*

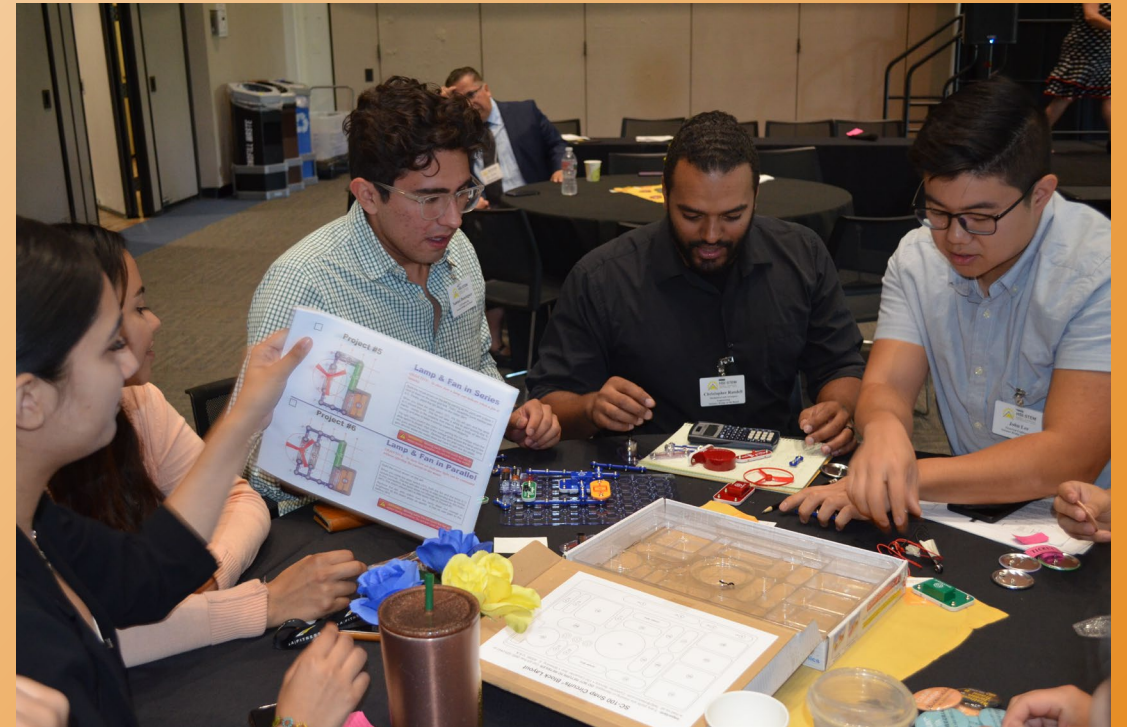
94% - *I have a better understanding of the role of a student*

90% - *I want to attend next year's Bienvenida*

Year	# of attendees
2012	130
2013	170
2014	150
2015	145
2016	186
<i>Total</i>	<i>781</i>

Evolution of Bienvenida: Grant Cycle Two

Year	# of attendees
2017	156
2018	184
2019	170
<i>Total</i>	<i>499</i>



Data informed design

Survey data collected each year shows trends in demographics and attitudes of attendees.



Framework

Parent Resources

Engagement

- Peer Mentors
- Poster Presentations
- Snap Circuit
- Discussion

Campus Collaboration Effort

- Campus Student Support Offices
- Core HSI STEM Team and Peer Mentors
- Keynote Speaker

Accessibility

- Bilingual Master of Ceremonies

Evaluation

Parent Resources

Information

Campus Representatives:

- On and off campus opportunities
- Student Success Centers present available resources

Resources

Folder and Booklet:

- Campus Resource handouts
- Programs and services available to STEM students
- Career Development Events calendar
- STEM tutoring resources

Small Walk Away Gifts (SWAG)

Meant to encourage and strengthen pride:

- STEM Buttons
- STEM Parent stickers
- Raffle prizes

Snap Circuit Activity

- Fun
- Fast Paced
- Engages Audience
- Incentivizes Participation
- Real World Connection to STEM Fields & Every Day Life



Peer Mentors



Their role is to engage the audience through discussion and activities, provide valuable student perspective and assist with event execution.

Their involvement provides incoming students a chance to see first-hand the ways in which their peers have learned to navigate and persist life as a student as well as develop a STEM identity.

All Peer Mentors are successful STEM students that matriculated to CSULB as freshmen or transfer students.

Peer Mentor Progression



EXCEL Peer Mentors

Summer STEM Mentors

Greet and guide attendees

Participate in Panels and discussions at Bienvenida

Facilitate Snap Circuit Activity

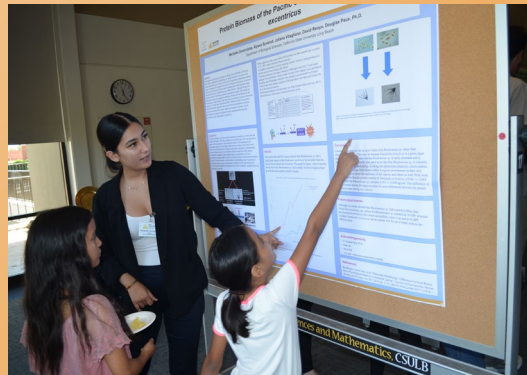
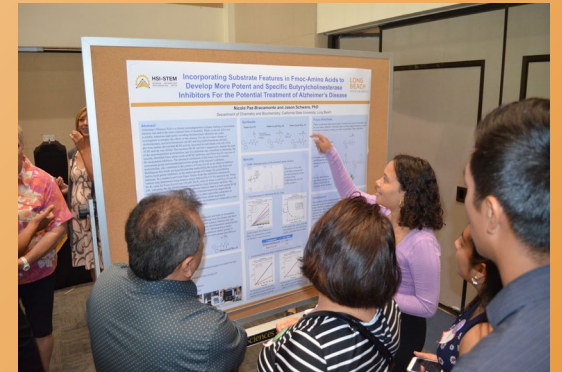
Setup/breakdown of event

Poster Presentations

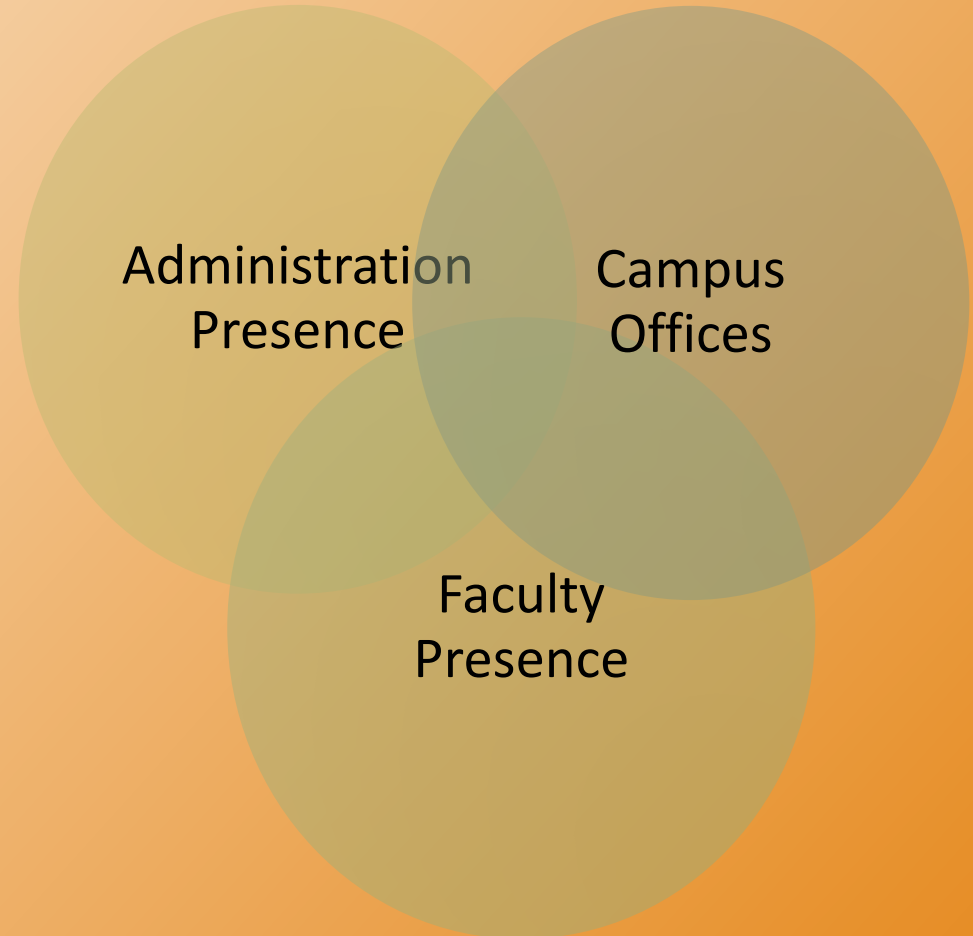
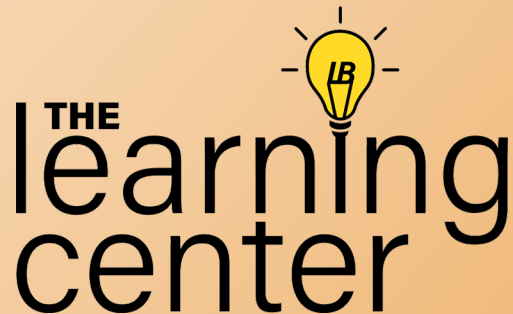
Transfer students who participate in Summer Bridge to the Beach have the opportunity to share their research experience with a wider audience.

Bienvenida attendees can meet their peers and are exposed to the research process in their field.

This experience also demonstrates to families what types of activities their students can engage in as a STEM student.



Campus Collaboration



Campus Resource Speakers

College of Engineering

- Advising Office
- Engineering Student Success Center

College of Natural Sciences and Mathematics

- Advising Office
- Jensen SAS Center

Career Development Center

Student Life and Development

Student Health Services

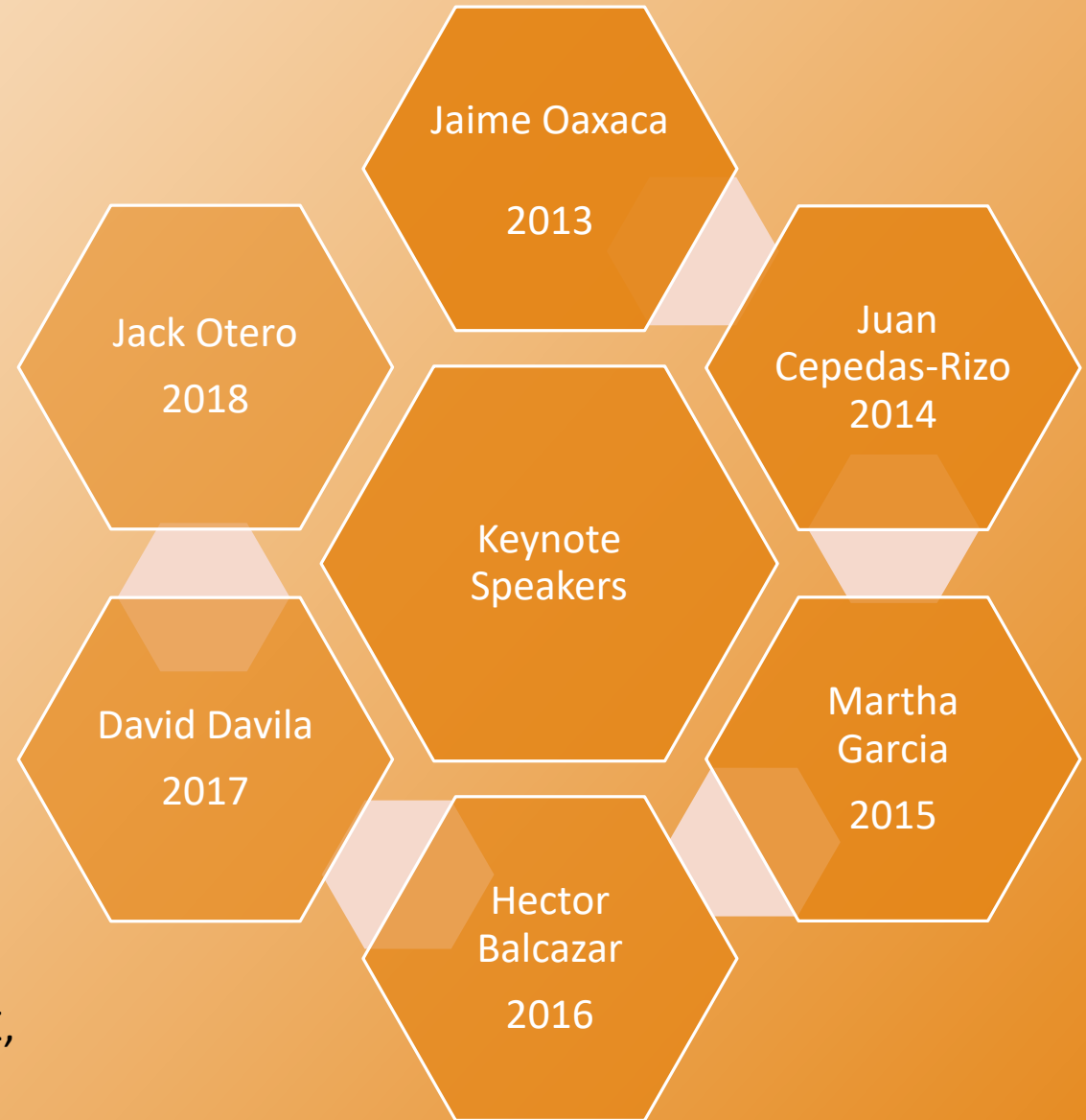
Keynote Speakers

Each year, a keynote speaker and industry guest speakers are invited as an opportunity to introduce parents to prominent STEM industry professionals and hear their STEM journeys.

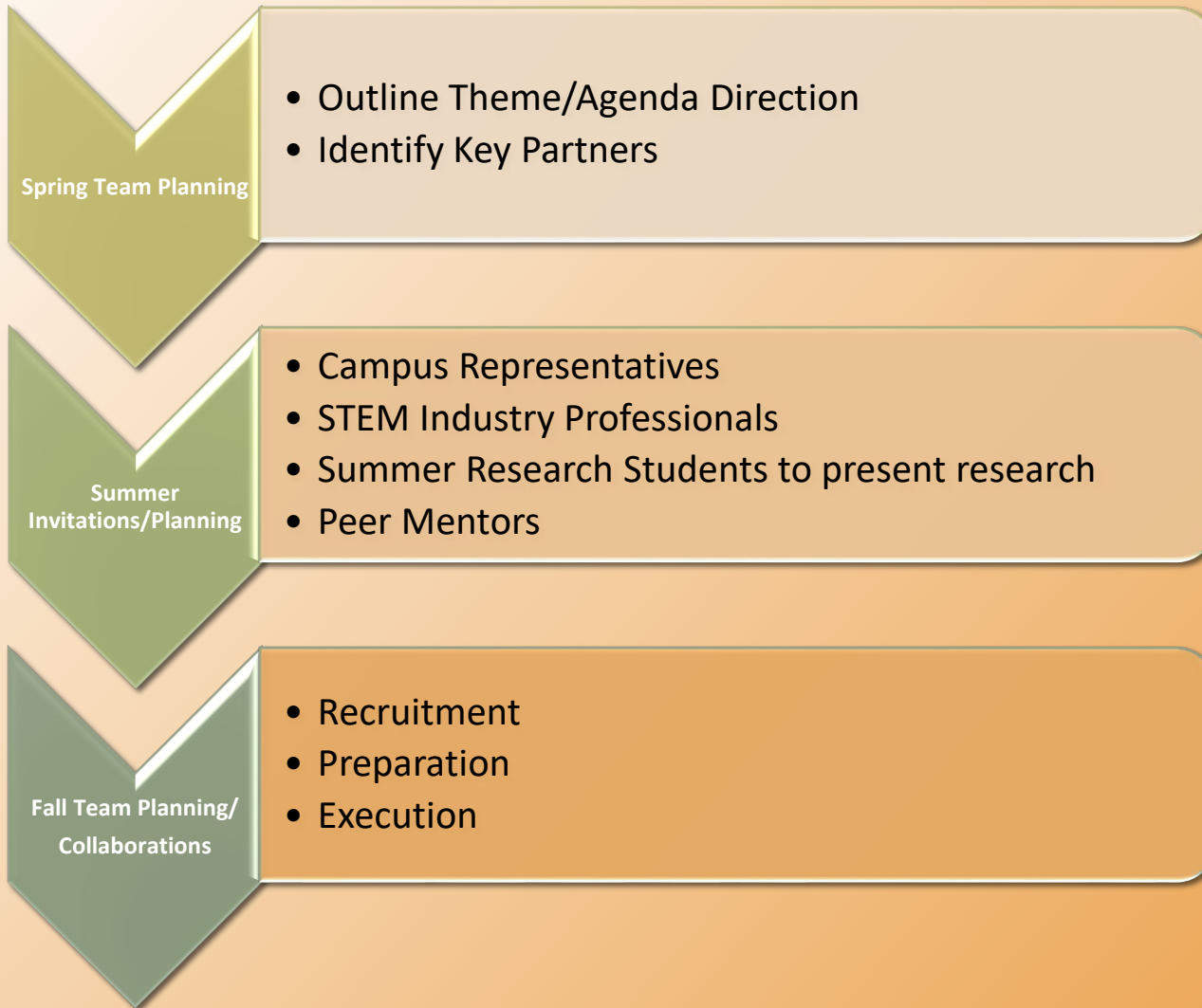


Dr. Carlos Gutierrez
2019

Cal State LA MARC, RISE,
MORE programs.



Bienvenida Planning Timeline



HSI-STEM
SCIENCE • TECHNOLOGY

ARE YOU A STEM MAJOR?

Bienvenida

9.21.19

USU
Ballrooms

8:30 am - 2:00 pm

DETAILS

We invite all STEM majors to participate in the bilingual annual STEM family event. Space is limited so RSVP soon!

LEARN ABOUT

- Campus Resources
- How to Get Involved
- Preparing for Life After College
- Advice from STEM Professionals
- Family Support

RSVP INFO

csulb.edu/programs/hsi-stem/bienvenida
RSVP by Sep. 16th
hsi-stem@csulb.edu | 562-985-4127

HSI STEM Staff

Core HSI
STEM Team

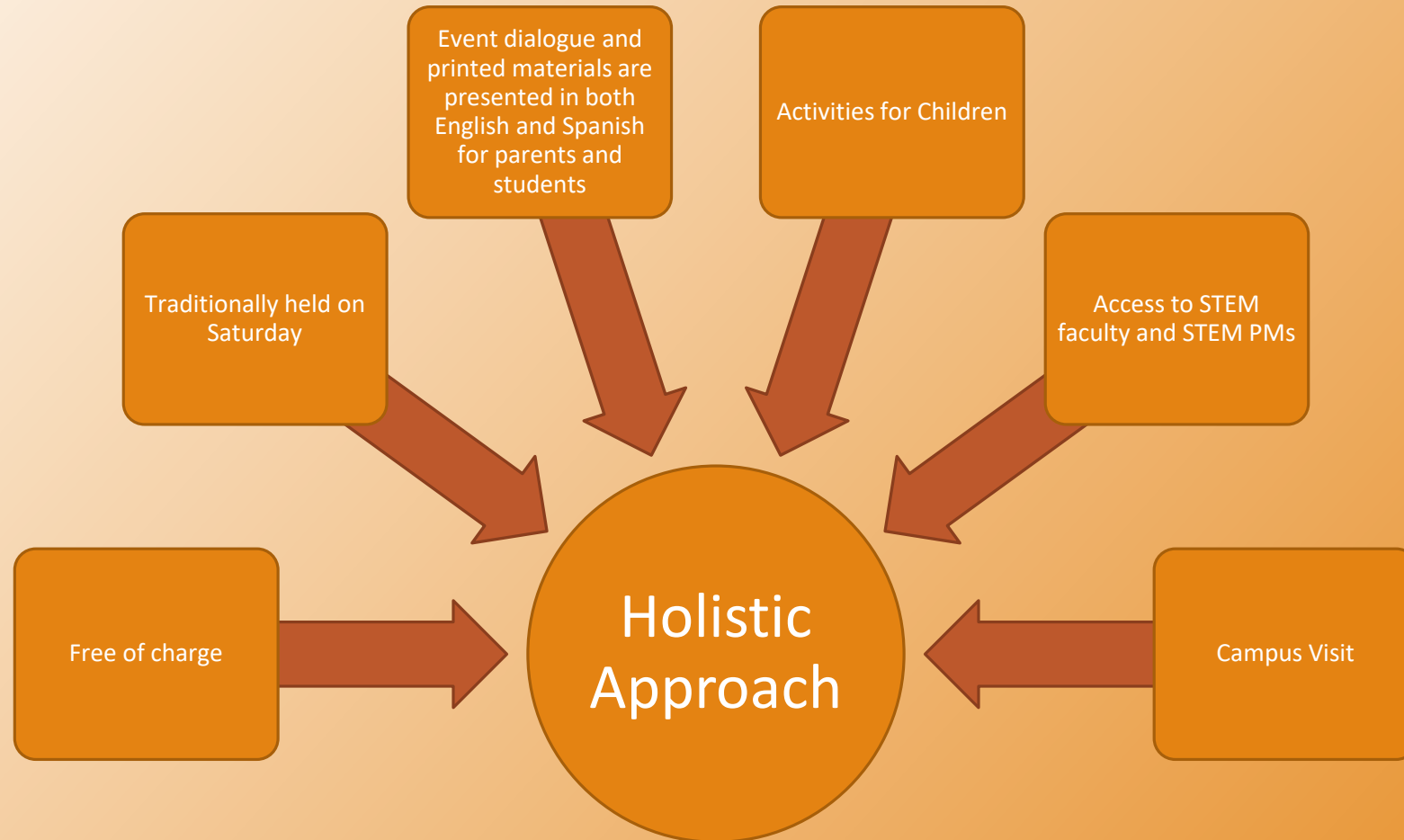


Faculty PI



Peer
Mentors

Accessibility



Bienvenida

8:30 am	Registration & Continental Breakfast / Registración y Desayuno
9:00 am	Welcome / Bienvenida
9:10 am	Opening Remarks / Discurso Inaugural
9:15 am	Agenda Overview & STEM Student Success Resumen de Agenda y Éxito de Estudiantes de STEM
9:45 am	STEM Activity / Actividad de STEM
10:10 am	The First Year at The Beach – Small Group Discussion El Primer Año en 'La Playa' – Discusión en Grupo
10:30 am	Campus Resources at The Beach / Recursos del Campus
11:00 am	Break / Summer Bridge Poster Presentations Descanso/ Presentaciones de Pósteres Científicos
11:30 am	Keynote / Discurso Principal
12:15 pm	The First Year at The Beach – Reflection El Primer Año en 'La Playa' – Reflejo
12:30 pm	Evaluation / Evaluación
12:40 pm	Raffle & Closing Remarks / Rifa y Comentarios Finales
12:50 pm	Photo / Foto
1:00 pm	Lunch / Almuerzo
2:00pm	End of Event / Fin del Evento



Evaluation

Formative

- Make improvements to the program each year
- Adapt to potential changes in audience

Summative

- APR reporting
- Ongoing tracking of outcomes over time

Evaluation & Example Survey Questions

Student survey

- I have a better idea of what it takes to be successful in STEM classes.
- It is important for me to receive mentorship.

Family survey (English)

- I have a better idea of what it will take for my student to be successful in STEM classes.
- I have a better idea of what mentorship means.

Family survey (Spanish)

- Tengo una mejor idea de lo que se requiere para que mi estudiante tenga éxito en las clases de STEM.
- Tengo una mejor idea sobre lo que son las tutorías.

Key Indicators & Outcomes

Indicator

90% of participants will report increased:

- Understanding of the role of a college student, and
- Feel more comfortable with the university.

Key Indicators & Outcomes

Measure	2017	2018	2019
I have a better idea what it will take for my student to be successful in STEM classes.	82.4%	97.3%	88.9%
I feel more comfortable about my student starting college at CSULB.	88.9%	97.3%	88.9%

Peer Mentoring

Group	Statement	% Agree 2019
Students	It is important for me to receive mentorship.	96.4%
Family	It is important for my student to receive mentorship. <i>Es importante que mi estudiante reciba tutoría.</i>	92.3%
Family	I have a better idea of what mentorship means. <i>Tengo una mejor idea sobre lo que son las tutorías.</i>	88.9%

Bienvenida helped inform my family of what it means to be a STEM student.

Family	
2017	93.8%
2018	97.3%
2019	92.3%

What did you gain from Bienvenida?

Students

- “**More parent support.** They have a better idea of what its like for me to be in school and the kind of future that pursuing a STEM major will take me.” (2018)
- “I gained more opportunities to have **peer mentors** and heard meaningful first hand experiences that painted clearer pictures for me.” (2019)

Parents

- “I gained a better understanding of **the balance the student faces** continuing their education and I am an important part of their support.” (2018)
- “Understand **how important it is to support my student** on their college journey.” (2019)

Additional Family Responses

“Aprendimos como podemos apoyar a nuestro hijo a que tenga una mejor idea de los recursos y tener una carrera exitosa.” (2017)
“**We learned how to support our son** so he can have a better idea of the resources and have a successful career.”

“Tener conocimiento como funciona la universidad y como apoyar mas a mi hijo. Gracias.” (2018)

“Having a better understanding on **how university works** and **how to help support my son more**. Thank you.”

“I gained a lot of **very new and useful information** that I did not know even existed. Understood more what **mentorship** really means.” (2019)

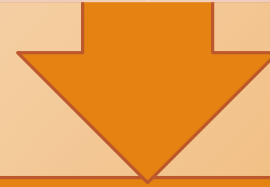
“**Knowledge regarding school resources**, statistics w/in our Latino community and education. **Gained a sense of pride to see/hear success in our Latino community**. We also learned that it takes “a **village**” for our kids' success.” (2019)

Attendee Suggestions

2017

“Un poco mas informacion sobre las becas pero en general estuvo excelente.”
[A bit more information regarding scholarships, but in general it was excellent.]

For 2018 and 2019 we included scholarship information in the resource packets.



2018

“I think I would like to hear from students that are involved into the program.”
“Have more activities in which people can participate or get to know the other families.”

For 2019 we included the Peer Mentors in two small discussion sessions and a panel.



2019

“The small group discussion gave me time to receive answers to my questions. Providing more time and/or including facilitators to answer additional questions could help make this time more useful.”

“Increase poster presentation times for more information regarding STEM.”
“Create more activities for family involvement.”

For 2020...

Bienvenida 2020 Projections

Planning for Bienvenida 2020 will focus on restructuring the agenda to accommodate more time for poster presentations, revising discussion questions for attendees and incorporating more engagement activities throughout the day.



Questions?



Thank you • Gracias!



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