

**Ventura County Office of Education/VC Innovates
All County Advisory Meeting**

April 17, 2017, 6:00-8:00PM

INDUSTRY SECTOR: **Information & Communication Technologies**

FACILITATOR: Rodrigo Cardenas

RECORDER: Sylvia Meza-Talleda

PARTICIPANTS:

Educator	School District
Edmond Garcia	MCC
Erik Amerikaner	OPUSD
Jeremiah MacMahon	FUSD
Tony Luboff	VCOE
Lisa Ryder	CVUSD
Gary Norwalt	CVUSD
Conni Carr	CVUSD
Lisa Giacalone	SVUSD
Jane Carlson	CVUSD
Ian McGuire	ACE

Industry Partner	Company
David Cho	NAWCWD
Chuck Sedlacek	American Technology Solutions
Fred Paredes	NAWCWD/SHPE
Marcus Berroles	Procore Technologies
Matthew Graczyk	iCrumz
Paul Nispel	Procore Technologies
Paula Hodge	South Central Coast CC
Stephen Yeoh	Un1tee

Agenda & Minutes

Introduction

6:00-6:20 Salon A, B, C- Welcome and Overview/Dinner; everyone given a card to fill out and bring with them to the breakout session "Tell us about the impact the industry/education partnership has had on you."

6:20-6:30- Transition to Breakout Rooms

Industry

Matthew Graczyk

Requests/Needs-IT Security becoming an ever increasing threat and need people who

know how to secure systems

Jane Carlson, Lisa Ryder, Ed Garcia, Stephen Yeoh:

Solutions-increase icloud training that focuses on application development, create summer internships for students(Teradyne does this),provide guest speakers at schools to inform students direct need, schools offering classes in networking infrastructure, data Science, cybersecurity. Provide strong network fundamentals and attention to detail

Chuck Sedlacek:

Requests/Needs-Cybersecurity approaches are changing and faster than educators can keep up due to those creating/approving the curriculum

Paula Hodge, Stephen Yeoh:

Solutions-Embed cyber patriots into education to provide competition and motivation, must understand networking ports and protocols

Marcus Bernales:

Requests/Needs-Understanding the cloud and having a knowledge of PAAS, APIS and client server architecture.

Solutions-Provide project/group based classes where educators present existing products (Instagram/snapchat) and explain how they work at a high level to help students develop their own product = motivation & passion

Stephen Yeoh:

Requests/Needs-IOT-Strong networking skills, need mobile app developers and people that understand Wi-fi, troubleshooting Wi-Fi and networking Wi-Fi.

Lisa Ryder:

Solutions- Build in collaboration and communication skills into classes by implementing group projects, presentations, and practice interviewing.

Paul Nispel:

Request/Needs-develop soft skills, social skills, networking skills. 21st century skills=world of work

Solutions- develop soft skills in a programming context via group programming tasks/project base, teachers can assign team coding assignments to promote social skills, provide soft skill courses

Request/Needs- IT industry still needs employees to work within multi-disciplined teams for large software intensive projects and products

Solution- Increase multidisciplinary projects work where collaboration skills are needed, big push in education is for speaking, listening, and writing skills=these areas are still needed at work.

Fred Paredes:

Requests/Needs- Need more data scientist (government level), how can we get more students involved?

Jane Carlson, Ed Garcia, Ian Mcguire:

Solutions- guest speakers at schools and inform students directly, provide big data collection where analysis & interpretation are required, create interactive lessons that build on foundational knowledge, but almost immediately give gratification=providing students with ways to see gains in ability that are visually or intellectually gratifying are great ways to drive passion. Generalized understandings can lead to students being driven passionately to perform their own research and work.

Request/Needs- in the web development industry, one trend is to have lower skilled workers with a wide broad of knowledge

Solution- Intern at an I.T consulting company

Industry

Lisa Giacalone:

Requests/Needs- Need to find short units on APIs so that I can work it into curriculum

Matthew Graczyk:

Solutions- Contact community development depts a Facebook, Google, Microsoft, Apple for help developing curriculum to teach their APIs, intro to a local engineer who knows APIs

Jane Carlson:

Requests/Needs- lunch time guest speaking about industry needs and your own career path

Marcus Bernales:

Solutions- An online board where industry professionals can sign up for timeslots to speak and mentor classes/after school programs.

Ed Garcia:

Requests/Needs- Provide better understanding of technical skills set needed to students

Stephen Yeoh, David Cho:

Solutions- teach IP fundamentals, having them experience solving real problems to any extent is more valuable than a dated cert.

Ian Mcguire:

Requests/Needs- Common problems with simple solutions, intricate problems with simple solutions-unsolved problems & explained technology

David Cho, Marcus Bernales, Matthew Graczyk:

Solutions- have high school students solve real problems or mitigate to some extent within inter district teams. Provide a project based class to create a piece of software to solve a problem. Create data mining examples, answering interesting questions using data sets. Take historical weather data and answering the climate changing. Develop a class where

you work together on Agile, Git, white boarding to solve a problem in APIs, Paas, React, Unity.

Ed Garcia:

Requests/Needs-What tools/strategies are Business/IT using for companies.

Matthew Graczyk:

Solutions-Teach web app technologies (Javascript, PHP, Python, Ruby, etc). Teach cloud options-hosting, storage & processing

Lisa Ryder:

Requests/Needs-Most of us are the only computer science in our school and are “accidental” computer science teachers. So we need support and opportunity to collaborate with each other and industry.

Fred Paredes:

Solutions-I can help and collaborate and other SW Eng.

Tony Luboff:

Requests/Needs-As an educator I need to know what is important to them (the industry) as far as skillsets & areas of knowledge they require of students programming, IT Essentials.

Stephen Yeoh-Teach fundamentals of IP networking, data structures & algorithms are a solid base for everything. Past that it depends on what the student wants to go into ask about stack

Jane Carlson:

Requests/Needs-Field trip here with panel of speakers (you) to address industry needs and your career paths

Solutions- SHPE professionals can help with getting engineers

7:55- 8:00 Wrap Up

8:00 Meeting adjourned – next meeting TBD