Welcome ... to help us make this a great first session of the conference ...

Pick a table with an idea tent of your choosing, introduce yourself to your fellow table partners, sit back, relax, silence your smartphone ...

... but have it ready to tell us about yourself
An Implementable Plan for Access, Student Success, and Sustainable Growth

Mario Violich  
Principal  
Moore Ruble Yudell

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Principal Physical Planner  
University of California Riverside

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Executive Director, Bond Programs and Facilities Planning  
College of the Desert
Session Outline

• Scanning the Room

• Planning for Student Success

• What Makes for a Sustainable and Implementable Vision

• Surviving, Thriving or Leading?

• Closing Comments
Learning Objectives

• Synthesize competing demands, like increasing enrollment and environmental stewardship priorities, into a problem statement for your campus planning
• Describe how to integrate long-range planning for sustainability into your campus' current environmental footprint and structures
• Use cost-informed planning and modelling to provide data to make decisions about physical investments
• Leverage existing partnerships to enhance multiple forms of access to campus
Quick tips on the polling activity

 iPhones: Point your camera app. at the QR code
 Android users: Long press the Chrome app. to select “Scan QR Code”
 Others: Enter the web address in your browser

 If all else fails ... hold your hand up
Scanning the Room

https://goo.gl/sj4TtB
Select the type of higher-ed. institution you most closely align with in your work

Private * Community College * Public * Other
Select your role in higher-ed. that best describes you

Planner * Administrator * Consultant * Other
How do you feel about the state of your institution?

highly successful * moderately successful * getting by * not sure about tomorrow * other
Q4

Choice 1 * Choice 2 * Choice 3 * Choice 4
Q5

Choice 1 * Choice 2 * Choice 3 * Choice 4
Is there something else you would like to tell us?

...
Transition over to share survey result (if using epoll setup)
Planning for Student Success
The Geography

• Three unique Southern California institutions
• Three different operating models
• All driven but challenged
<table>
<thead>
<tr>
<th>Type</th>
<th>CLAREMONT, CA Estb. 1948</th>
<th>RIVERSIDE, CA Estb. 1954</th>
<th>PALM DESERT, CA Estb. 1958</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Liberal Arts College</td>
<td>1,300</td>
<td>24,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Large Public Research University</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two-year Public Community College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018 Enrollment</td>
<td>1,300</td>
<td>24,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Resident Students</td>
<td>1,300</td>
<td>6,700</td>
<td>none</td>
</tr>
<tr>
<td>Student/faculty ratio</td>
<td>9:1</td>
<td>17:1</td>
<td>23:1</td>
</tr>
<tr>
<td>Cost or attendance – Instate/out-of-state</td>
<td>$55,000</td>
<td>$30,000/$60,000</td>
<td>$21,000</td>
</tr>
<tr>
<td>% of students receiving financial aid</td>
<td>47%</td>
<td>67%</td>
<td>61%</td>
</tr>
<tr>
<td>Land Area/GSF</td>
<td>69 acres/900,000 GSF</td>
<td>1,100 acres/7.8m GSF</td>
<td>185 acres/600,000 GSF</td>
</tr>
</tbody>
</table>
Claremont McKenna College, Claremont, CA
Project 1
Project 2
Understanding local and regional climate

Sustainable Design Overview

Executive Summary

The Claremont McKenna Master Plan has carefully considered site sustainability, energy and water resource management through the process. The approach proposed is one that will allow for strategies to be implemented over time as the college grows allowing for technological advances to be incorporated. Key considerations have included:

Stormwater:
There are several opportunities for stormwater treatment within the Claremont McKenna College campus. Stormwater treatment serves as an important element in the sustainability design. Due to the site’s natural soil conditions, there are many opportunities for stormwater treatment and infiltration. Given the available open space of the campus, implementation of sustainable landscape features such as linear biofilter systems can be integrated along with the landscape design. This alignment of ‘Skyline and Infrastructure’ creates a strong awareness and education about the place, which will lend to the campus a sustainable initiative and natural environment in a campus setting. Utilization of the campus’s unique site conditions will allow Claremont McKenna College to maximize its opportunity for stormwater sustainability while maintaining the campus’s identity and qualities.

Landscape:
Landscape is an important aspect of the Claremont McKenna College environment. Opportunity exists to utilize this to provide shade for buildings on the South East and West and consideration has been given to the type and location of trees within the Master Plan to maximize such opportunities.

Climate Responsive Design:
Climate responsive design seeks to respond to the sun, wind and moderate climate. Orientation of buildings has been provided to minimize East/West exposure where possible, reducing solar exposure. The climate provides excellent opportunity for natural ventilation through mixed mode systems for up to 15 months of the year.

Notes:
Significant opportunity for water conservation and water reuse exist within Claremont McKenna campus. Aggressive water reduction targets have been considered for new buildings at 30% for non-residential and 33% for residential dormitories. Opportunity for grey water recycling have been identified to provide recycled water for cooling towers, irrigation and toilet flushing. The master plan provides flexibility for a
decentralized or shared plant approach.

Energy & Carbon Emissions

A strategy has been identified to utilize radiant cooling systems within certain facility types to minimize energy consumption along with utilizing mixed mode ventilation. Certain facilities may be tied into the new central cooling plant taking advantage of diversification of load and high efficiency chillers. Also considered have been opportunities to utilize shared plant for future buildings to provide load diversification and high efficiency plant.
Grassroots Sustainability Movement

Sustainable Students Promoting Environmental Action and Responsibility

SSPEAR is CMC’s environmental club dedicated towards the defense of our natural environment and the advancement of sustainability. As a campus organization, we spread awareness of environmental issues, motivate the student body and campus services to live and operate more sustainably, and provide the resources to make these changes permanent.

Mission
SSPEAR’s mission is to raise the awareness of our impact on the environment as individuals and as an institution as a whole, to inspire action through this awareness, and to permanently instill environmental responsibility into the mindsets and lifestyles of students at Claremont McKenna College.

Past Accomplishments
SSPEAR hosted the PowerDown energy reduction competition in February and March. The Student Apartments won the dorm-wide contest with an 8.5% reduction in energy usage over a 3-week period! During the competition, SSPEAR organized events to encourage environmentally friendly behavior, such as Drying Party to hang dry laundry. Aside from PowerDown, SSPEAR has also organized beach clean-ups, documentary screenings, waste audits, and more!

Future Plans
In the short-term future, SSPEAR plans to establish a program for students to check out drying racks and personal compost bins to use throughout...
University of California Riverside
2016 Physical Master Plan Study

- Association of American Universities profile aspiration
- New vision for core campus
- Transformative change in 5 years
UCR Mobility Hub

- New front door to campus
- Partnership with regional transit agency
- Campus, local, state and federal funds
Multidisciplinary Research Building

- Support critical research needs
- Indirect cost recovery model
- Design build
Plant Growth Environments Building 1

- SCUP award
- Design-build
- Support critical research in plant sciences
Student Success Center Building

- 1000 seats classroom building
- State funded
- Critical siting decision
- Design-build delivery model
North District Student Housing

- Vision for 6,000 additional student beds; 2,500 in the first phase
- Focus on growing resident student population
- First public-private partnership
Integrating an Arroyo

- Showcasing a natural system
- ...

...
Commitment to Clean Energy

• 7.4 MW total capacity
• Can meet __% of campus’ peak demand
• Immediate to core campus
College of the Desert
Education Master Plan

GOALS
- Completion
- Transfer
- Unit Accumulation
- Workforce
- Equity
- Regional Equity

METRICS
- Successful Enrollment
- Learning Progress
- Momentum
- Success
- Employment
- Earnings
Facilities Master Plan

GOALS
• Upgrades to existing facilities
• Expand and create new facilities to prepare students for their careers and transfer to a 4-yr university
• Upgrade and add classrooms
• Create community-centered education sites
• Improve and expand career and support facilities for special populations

STRATEGIES (Match programs and sites)
• Increasingly flexible, open, adaptable teaching spaces
• Incorporate sustainability and embrace new technology
• Expand transportation options and connections
• Seek new kinds of partners
• Consider various delivery methods
• Diversity and find new funding streams and investment (P3s)
• Set up “shop” at sites - engagement
Central Quad Renewal

- Terminus to the primary campus entrance
- Visual identity and relationship to the surrounding community
- Comprehensive site improvements
Indio Expansion Project
Indio Expansion Project
Indio Expansion Project

Lobby Section | East-West

Indio Campus Expansion
College of the Desert

HMC Architects

COLLEGE DESERT
Indio Expansion Project
Indio Expansion Project
Indio Expansion Project
Indio Expansion Project
What Makes for a Sustainable and Implementable Vision
Engagement
Mobility
Partnership
Delivery
Stewardship
Surviving, Thriving or Leading?
Assessing where you are

- Mobility
- Partnership
- Delivery
- Stewardship
- Engagement
Scanning the landscape

Talk amongst yourself for 5 minutes
Pick the best and worst example of the theme your table relates to
Pick a spokesperson
Tell us about your examples in a minute
Closing Comments
Assessing where you are

- Engagement
- Mobility
- Partnership
- Delivery
- Stewardship
Knowing where you want to be

- Engagement
- Mobility
- Partnership
- Delivery
- Stewardship
Moving the Needle
Learning Outcomes we Started With

- Synthesize competing demands, like increasing enrollment and environmental stewardship priorities, into a problem statement for your campus planning | **Engagement**

- Describe how to integrate long-range planning for sustainability into your campus's current environmental footprint and structures | **Sustainability**

- Use cost-informed planning and modelling to provide data to make decisions about physical investments | **Delivery**

- Leverage existing partnerships to enhance multiple forms of access to campus | **Mobility, Partnership**
New Themes

• New learning outcome related to Engagement, other TBD
Thank You for your Participation