Provost’s Sept 2012 Forum:

Wednesday, September 5, 2012
3:00-4:30 pm, Morris Dailey Auditorium

Marti Malloy
Olympics Bronze with Yosh Uchida

Moss Landing student Paul Clerkin – 8 new shark species in Indian Ocean

Aerospace faculty-students w. NASA TechEdSat
Apropos “Quotes”

- Smooth seas do not make skillful sailors. (African proverb)
- You must maintain unwavering faith that you can and will prevail in the end, regardless of the difficulties, AND at the same time, have the discipline to confront the most brutal facts of your current reality, whatever they might be. (Jim Collins)
- A pessimist sees the difficulty in every opportunity; an optimist sees the opportunity in every difficulty. (Winston Churchill)
- Life isn't about waiting for the storm to pass... It's about learning to dance in the rain. (unknown)
Provost Forum Agenda

Challenges

Academic Affairs Budget Update

New, Exciting Opportunities

1. Support for Scholarly, Grant and Creative Activity
2. Teaching Innovations (MIT, CMU, Stanford) and Technology Partners (Cisco, Adobe, Apple)
3. Recognition and Appreciation
4. Communication
5. Q&A
Please turn on your cell phones or iPad!

We want your participation with your cell phone, iPad or laptop using Poll Everywhere! Let’s try!
How To Vote via Texting

How do you like my presentation so far?

Text a **CODE** to **37607**

TIPS

1. Standard texting rates only (worst case US $0.20)
2. We have no access to your phone number
3. Capitalization doesn’t matter, but spaces and spelling do
How To Vote via PollEv.com/username

How do you like my presentation so far?

Submit responses at PollEv.com/username

Text a CODE to 37607

Amazing: 458456
Incredibly Amazing: 458471
It's Alright: 458472

TIP: Capitalization doesn’t matter, but spaces and spelling do.
Poll Question: Who are you?

Results:

- Faculty: 34.90%
- Staff: 40.40%
- Administrator: 17.40%
- Student: 6.40%
- Other: 0.90%

Total votes: 109
2011/12 Base Budget Deficit –
May 19, 2011 campus budget plan
$<11.9>M

2012/13 Adjustments
Net impact of $100M Trigger, fee increase, mandatory costs, and FTES support  <8.4>
$250M Trigger Reduction (January 2013)  <12.5>
2012/13 Base Deficit  $<32.8>M

Academic Affairs 2012-13 Reduction (w/out benefits)  < $9 M >
Dire CSU Budget Cuts Loom...

- $950 M cut to CSU
- $33 M to San Jose State

Urgency:
- Rethink
- Diversify
- Innovate
Preserving a quality educational experience is the first priority, and though these cuts are dire and Academic Affairs is deeply grateful to chairs, faculty, staff and administrators as we work together during this challenging time.

How can Academic Affairs make these deep cuts while trying to preserve quality for students, faculty, staff and others?
1. Add $1.7M: Freeze all new faculty hires, except for 22 critical hires (with one cluster hire of 5 faculty in cybersecurity/big data) = $1.7M (instead of $3.80M for 50 hires).

Departments requesting new hires will have higher priority for the following factors:

- provides evidence of the excellent quality/achievements of students & faculty;
- demonstrates increasing student learning, retention and graduation rates;
- shows innovation in course delivery or increased SFR to reduce costs, while not harming student learning.
- meets or shows progress in meeting the 120 unit limit;
- shows progress in developing and implementing successful self-support certificates and/or degrees;
- shows progress in developing and implementing successful hybrid or online courses for bottleneck or high demand;
- shows increases in non-resident student enrollment;
- increases Open University enrollments when possible.
Cutting $9 M from Academic Affairs

2. **Save $1.2M**: In faculty development funds suspended, except awarded grants.
3. **Save $1.57M**: In Provost’s base CERF funds.
4. **Save $2.67M**: Cut 500 sections/yr while maintaining target FTES for 2012-13 (achieved 181 sections reduction for Fall 2012).
5. **Save $4.0M**: (45% reduction=800/1,779 sections/yr) All low enrolled undergraduate course sections of less than 15 students (achieved 553 section reduction Fall 2012).
6. **Save $437,059**: Freeze all non-critical staff position vacancies.
7. **Save $1.27M**: Reduce O&E by 30%. All travel from CSU operating funds will be highly restricted (except for RTP, required travel).
8. **Save $624,625**: Reduce assigned time by 15%.
9. **Save $?**: All programs in excess of 120 units must begin the process of discussion and implementation of curriculum redesign to meet the 120 unit limit and show progress towards meeting this limit. Proposals are **due by Dec. 21, 2012**.
10. **Save $?**: Curricular innovations by faculty to increase learning, reduce costs?

**TOTAL SAVINGS = $11,727,684 - $1,700,000 new hires = ~ $10 M**
Poll Question: Is it helpful to provide this overall explanation in trying to understand how cuts in Academic Affairs are being contemplated?

<table>
<thead>
<tr>
<th>Results</th>
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<tbody>
<tr>
<td>Yes</td>
<td>89.50%</td>
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<tr>
<td>No</td>
<td>1.60%</td>
</tr>
<tr>
<td>Uncertain</td>
<td>8.90%</td>
</tr>
</tbody>
</table>

Total votes: 124
What to Not to Cut?

Recall, the first Provost’s Forum (1-24-12) question for faculty:

“Select your top interest for greater support?”

• Service activities = 2%
• Greater recognition = 6%
• New tech to reduce workload = 14%
• Teaching & engaging students = 26%
• Research/creative activity = 52%
Welcome AVP Pam Stacks & COO Mary Sidney

Faculty Development, Investment and Recognition

Facilitators:
- Research Foundation
- Center for Faculty Development
- Academic Technology
- Graduate Studies & Research
- Colleges & ORUs
Supporting the Teacher-Scholar at SJSU

Institutional Priorities
- STEM; Cyber Security
- Big Data; Health Disparities

Faculty Initiated Projects
- Workshop Series
- Faculty Learning Communities
- Writing Marathons
- NEW! Grant Development Intensives

Research Development
- Orientations, Presentations
- Research Related Curriculum Development

Curriculum Development:
- On-line/hybrid Courses
- Self-support Courses
- Service Learning
- Student Internships
- Workforce Development
Supporting the Teacher-Scholar at SJSU

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Faculty Initiated Projects

Workshop Series
Writing Marathons
Faculty Learning Communities

Research Development
Grant Development Intensives

Research Related Curriculum Development

Curriculum Development:
On-line/hybrid Courses
Self-support Courses
Service Learning
Student Internships
Workforce Development
- **September 20** - Introduction to the SJSU Research Foundation and Focus on Pre-Award
  Location: MLK Library, Room 255/257
  Time: 11:30 a.m. to 1:00 p.m.
  RSVP by September 13

- **October 11** - Budget Basics: Developing Budgets for a Successful Proposal
  Location: MLK Library, Room 255/257
  Time: 11:30 a.m. to 1:00 p.m.
  RSVP by October 4

- **November 6** - Focus on Post-Award and How to Build and Manage Your Project Team
  Location: MLK Library, Room 255/257
  Time: 11:30 a.m. to 1:00 p.m.
  RSVP by October 30

- **December 11** - Sponsored Programs Online Tools
  Location: MLK Library, Room 255/257
  Time: 11:30 a.m. to 1:00 p.m.
  RSVP by December 4
Institutional Priorities

STEM; Cyber Security

Big Data; Health Disparities

Faculty Initiated Projects

Research Development

Curriculum Development:
- On-line/hybrid Courses
- Service Learning
- Self-support Courses
- Student Internships

Grant Development Intensives

Orientations, Presentations

Workshop Series

Faculty Learning Communities

Writing Marathons

Workforce Development

Supporting the Teacher-Scholar at SJSU
WRITING MARATHONS

- Participation for up to 20 faculty in a writing marathon
- Immersion for 2-3 whole days to "get something out the door"
- Consultations available: data analysis and statistics, literature search and new-age library skills, editing and grant writing
- November 1, 2 & 5
- January 14, 15 & 16
- Summer 2013

TO REGISTER: www.sjsu.edu/cfd
FACULTY LEARNING COMMUNITIES - FLCs

- Typically 8 - 12 participants per community
- Engage in collegial conversation, inquiry around a topic of mutual interest
- Spend the semester or the year addressing questions pertaining to student learning, teaching effectiveness, and the like....
- The work scope of a FLC may include any or all of the following:
  - discussing readings pertaining to the topic
  - engaging in research pertaining to the topic
  - designing, implementing and assessing instructional activities pertaining to the topic
  - larger-scale course re-design
- In collaboration with various SJSU partners, CFD provide research and instructional design support for each FLC, as appropriate.
Faculty Learning Communities: Topics for 2012-13

- Affordable Learning Solutions
- Campus Reading Program
- Campus Initiatives and Faculty Interests
- Digital Technologies
- Learning and Games
- Service Learning
- Additional Topics – please suggest them!

TO REGISTER: www.sjsu.edu/cfd
Faculty Learning Community:
CAMPUS INITIATIVES AND FACULTY INTERESTS

We are currently seeking faculty interested in entrepreneurship, research, and program and curriculum design focused on some of the most pressing and complex issues of our day:

- Big-Data
- Child well-being research
- Climate and environmental studies
- Cyber security
- Drug and alcohol research
- Global studies research
- Healthy living and aging research
- STEM

TO REGISTER:  www.sjsu.edu/cfd
Supporting the Teacher-Scholar at SJSU

Institutional Priorities
- STEM; Cyber Security
- Big Data; Health Disparities
- Faculty Initiated Projects
- Workshop Series
- Writing Marathons
- Faculty Learning Communities

NEW! Grant Development Intensives

Orientations, Presentations

Research Development

Research Related Curriculum Development

SJSU Initiatives

Curriculum Development:
- On-line/hybrid Courses
- Service Learning
- Self-support Courses
- Student Internships
- Workforce Development

Faculty Initiated Projects
NEW! GRANT DEVELOPMENT INTENSIVE
(Pilot Scheduled for Spring 2013)

• **2 days of immersion** into the discussion, design and development of a working draft of a specific grant application

• Experts from around campus to serve as consultants to directly assist with grant writing and narrative development

• Consultants will assist with:
  — Proposal strategy, hypothesis, proposal arguments and solution, etc
  — Supporting data, evidence, statistics
  — Alignment with sponsor guidelines and requested information
  — Identification of possible SJSU or other collaborators

• As “Grant Development Fellows,” participants will emerge with a well developed draft narrative to be submitted for a specific grant deadline.
“I-5 Research” describes characteristics of candidate projects for the Grant Development Intensive. Selected Projects will have:

1. **Impact** potential that is high
2. **Investigative teams** that are multi/interdisciplinary
3. **Innovation** at the core
4. **Institutional** priority addressed
5. **Initiatives** of strategic significance
In consideration of the resources provided to participants, Grant Development Fellows will be expected to “give back” to the campus community by:

- Serving as ambassadors for development of new initiatives
- Serving as potential mentors for other faculty
- Serving as a resource to the broader campus community, such as a university internal peer reviewer

**TO LEARN MORE:** Contact Jerry Flanzer or Jerri Carmo
Faculty Conversations

One faculty member or team is invited to present a thumbnail sketch of current work followed by a general conversation with all participants.  **IRC 101**

- **Breakfast Club** (Coffee, tea & bagels): Thursdays, 7:45 – 8:45 am
- **Tea and Scones**: Wednesdays 3:30 – 5 pm

Check CFD Calendar of Events for specific days.
Research projects developed by 39 undergraduate students and their faculty mentors from across the campus were selected for funding.

- Education had 1 faculty/student team
- Business had 2 teams
- CASA had 5 teams
- Social Sciences and Engineering had 6 teams
- Humanities & Arts had 7 teams
- Science had 13 teams
AY 2012-13 Funding Opportunities

- New Undergraduate Research Proposals - $50K

- Previously awarded RSCA, Student Success and Curricular Innovation Program recipients ($291K)

- Additional funding for new research awards provided by Provost and Research Foundation - TBA
President Mo Qayoumi, Provost Ellen Junn and Research Foundation COO Mary Sidney
Cordially invite you to

A Celebration of SJSU Sponsored Research

Thursday, October 18, 2012
3:00 - 5:00 p.m.
Barrett Ballroom

With presentations to
Early Career Investigator Awardees
Dr. Lionel Cheruzel, College of Science
Dr. Lili Luo, College of Applied Sciences & Arts

and Featuring Research Exhibits from Individual Colleges

Wine & Hors d’oeuvres
Poll: As a Faculty member, given this presentation, rate your assurance about continuing support for scholarly, creative, and grant activity.

Results:

- Quite Reassured: 22.00%
- Somewhat Reassured: 47.30%
- Somewhat Worried about a Loss of Support: 15.90%
- Quite Worried about a Loss of Support: 15.90%

Total votes: 82
SJSU & SV?

2nd Provost’s Forum (2-15-12):

“SJSU should focus on being more connected with SV”:

- Strongly/somewhat agree = 94%
  (73%--strong + 21%--somewhat)
In our Academic Plan 2017, we seek to become leaders in developing innovative, sustainable curricula and reimagining and supporting all domains of faculty work; deepening student engagement and success in their academic, professional and personal learning; strengthening our foundational commitment to diversity in all aspects of university life; affirming and strengthening our service learning and community engagement; promoting expanding our international and globalization efforts; embodying an ethos of respect, civility, and ethical integrity in our curricula and in our actions; utilizing and capitalizing on effective new and emerging cutting-edge digital and electronic technologies and Silicon Valley industry leaders to meet academic goals; and reducing our reliance on state funds by exploring and generating new sources of sustainable revenue.

As SJSU embarks on reimagining Academic Affairs and the next generation learning experience, we will maintain a focus on innovations in learning, scholarship and engagement, while promoting opportunity through access to quality lifelong education for Silicon Valley and the world.

We are justly proud of our excellent students, faculty, staff and administrators, and are excited about our ability to achieve our goals. To assure that we reach these goals, we cultivate a culture of sharing our successes across the community—not to document for the sake of documenting but to inspire, to help, and to celebrate success. We look forward to celebrating success as showcased in dossiers, department reviews, administrative reviews, the media, and other venues.
To view the video presented at the Provost Forum, please visit:
http://www.youtube.com/watch?v=C2OQ51tu7W4
(2) SJSU’s Collaboration with MIT edX

- MIT edX was established by MIT and Harvard in Dec. 2011, headed by Dr. Anant Agrawal, former director of MIT’s Comp. Sci. and Artificial Intelligence Lab.
- UC Berkeley joined the consortium in Summer 2012.
- MIT edX provides online education through the edX platform.
- A section of SJSU (EE98) is currently offered, based on the materials developed for a comparable MIT course (MIT 6.002x).

From left to right:
1. Dr. Khosrow Ghadiri
2. Interim Dean Ping Hsu
3. MIT - Dr. Anant Agarwal
4. Behnam Behziz (student)
5. Dr. David Parent
Flipped or inverted classroom switches when/where students complete traditional course activities.

- **Outside class:**
  - Students watch lectures.
  - Professors monitor students’ viewing patterns.

- **In class:**
  - Students work in groups on homework,
  - Ask questions with an apprentice/mentor model

- **450 minutes per week of traditional work still required by the student to earn a B.**
Flipped Classroom Advantages

- Increased pass rates and graduation rates:
  - Get students connected to friends and professors.
  - Professors can give more feedback.

- Increased graduation rates gives rate better value for money spent.
  - Increase the 1:3 ratio of CSU expenditures to increased tax revenue?

- Impact beyond SJSU:
  - All CSU/CC system engineering students
Flipped Classroom Concerns

- Students do not do the work required outside of class.
  - In class quizzes and peer pressure.
- Student resistance:
  - It can take a few weeks for students to appreciate the new method that puts students in charge of what they learn.
- Professor issues
  - Workload.
  - Supply of experienced instructors?
- Pilot study
  - One pilot section, two traditional sections.
  - Evaluate common midterms and final.
    - Prior GPA, performance on a pre-test.
    - Student surveys, professor reflections.
<table>
<thead>
<tr>
<th>SJSU EE98</th>
<th>MIT 6002x</th>
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<tbody>
<tr>
<td>Circuit analysis</td>
<td>Circuit and electronics</td>
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<tr>
<td>For all Engineering majors</td>
<td>EE majors only</td>
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<tr>
<td>Applications</td>
<td>Online</td>
</tr>
<tr>
<td>Quizzes, problem sets, exams</td>
<td>Virtual lab</td>
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<tr>
<td>Team building and team work</td>
<td>Tutorial and problem-solving</td>
</tr>
<tr>
<td>Virtual lab</td>
<td></td>
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<tr>
<td>Tutorial and problem-solving</td>
<td></td>
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<tr>
<td>Friday recitation</td>
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Preliminary Results

Main Objectives:
- To increase student success rates in passing the course.
- To help students learn by themselves:
  - To solve problems independently (building on individual technical skills).
  - To argue and convince each other on the validity of their approaches in problem solving (building communication skills).
- Team building:
  - Divide the students into groups of 3 to work on problems in class.

Assessment:
- Individual assessment to provide appropriate help earlier.
  - Quizzes: For early assessment of student weaknesses.
  - Review: Lecture videos, lab, recitation evaluation.
- Team assessment through practical problems:
  - To build team work skills.
- Class assessment (2 midterms and final):
  - To improve and evaluate student success rates.
Adobe for SJSU Faculty, Staff & Students!

- Beginning in mid-Sept, Adobe Creative Suite 6
- Adobe license for all faculty and staff at SJSU
- Students in required Adobe courses (~6,000 for now):
  Creative Suite Design Web Premium, Version 6 = $47.25 each (reg = $404.10)
  Creative Suite Master Collection, Version 6 = $57.25 each (reg = $719.10)
SJSU & 48 Adobe Ambassador Professors
August 24, 2012 @ Adobe Headquarters
21 Century Teaching Conference: Faculty Opportunities and Innovations at SJSU

Monday, Sept. 24, 2012, 8:30-2:00 pm

- Keynote: Dr. Candace Thille – Carnegie Mellon University.
- Join with CMU’s Open Learning Initiative.
- Come hear SJSU faculty colleagues describe their teaching.
- Come hear how to apply for Faculty Learning Communities.
- If selected, will receive an iPad and Apple training to use technology to improve student learning.
Announcing New LMS: Canvas (Instructure)

- New, open source, native cloud-based, non-version controlled, open architecture, clean interface, user-friendly, ease of external application integration next-generation LMS of the future.
- Training for faculty will roll out in September, so watch for emails from AVP Dr. Catheryn Cheal, Academic Technology & CFD.
- Positive responses already from faculty.
A pilot cross-institution mentoring program:

- Seven SJSU faculty will be paired with seven advanced graduate students from Stanford
- An opportunity for SJSU faculty mentors to share their experience, their expertise and their passion for teaching
- Mentors will receive a stipend and be invited to be Visiting Scholars at Stanford for 2012-13
- Focus this year on disciplines within the Humanities, the Sciences and the Social Sciences
2012-13 Preparing Future Teachers – 7 SJSU Faculty Mentors

Peter Beyersdorf
Physics & Astronomy

Bonnie Cox
English

Libra Hilde
History

Chuck Darrah,
Anthropology

Sami Khuri
Computer Science & Mathematics

Sean Laraway
Psychology

Ron Rogers
Psychology

Thank you Stanford ACE Fellow, Dr. Jennifer Summit & CFD Director, Dr. Amy Strage!
Poll: Please rate how pleased you are to see all of the new partnerships with leading tech industry and other universities.

Results:

- Very Pleased: 77.00%
- Somewhat Pleased: 18.40%
- Somewhat Not Pleased: 3.40%
- Not Pleased at All: 1.10%

Total votes: 87
Next Gen Technology Projects

Additional information and updates, see:
http://its.sjsu.edu/projects

Thank you,
Deputy CIO, Terry Vahey!
**Video conferencing: WebEx Collaboration**

- **WebEx is here!**
  - Video conferencing + lecture capture from laptops
  - [http://my.sjsu.edu](http://my.sjsu.edu) (web training info available); Oct wkshops
  - Web conferencing with video, audio, user interactions
  - All faculty and staff can host a video conference
  - Students, others: inside and outside SJSU can join the conference and participate
  - Instructors can record and share recording with enrolled students
Next Gen Classrooms

- **One room: November, 2012**
  - Practice, get training, develop courses

- **11 rooms for Spring classes, 2013**
  - Two + high definition cameras
  - Multiple speakers, microphones
  - Instructors can record and share recording with enrolled students
  - Can automate class recording using room control panels

- **40 additional rooms ready for Fall classes, 2013**
Next Gen Learning Spaces Examples
Campus Wireless

- Campus building assessment in progress
- Wireless equipment upgrade through mid-2013
- Increased security, coverage, density
  - within campus buildings, core campus outdoor
- After complete: Connections continue -
  - building to building
  - outdoor areas
Unified Communication: late Oct/Nov

- Campus-wide Voice Over IP (VOIP) phone system
- Calls can be sent optionally, automatically to:
  - laptop
  - tablet computer
  - smart phone
  - WebEx
- Single Number Reach and Jabber technologies
- Distribution starts late October
- By department, through mid-2013
Digital Signage

- LCD monitors: various buildings on campus
- Centralized content management software
- Industry weapon:
  - integrates content: text, image, video
  - provides department access, central alerts
- Initially:
  Library, stadium, Student Union
Poll: On a scale of 5=Very Interested to 1=Very Uninterested, please rate how willing you would be to consider joining or learning more about any of the activities or initiatives presented today.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
<th>Percentage</th>
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<tr>
<td>5</td>
<td>Very Interested</td>
<td>68.90%</td>
</tr>
<tr>
<td>4</td>
<td>Somewhat Interested</td>
<td>21.60%</td>
</tr>
<tr>
<td>3</td>
<td>Uncertain</td>
<td>5.40%</td>
</tr>
<tr>
<td>2</td>
<td>Somewhat Uninterested</td>
<td>2.70%</td>
</tr>
<tr>
<td>1</td>
<td>Very Uninterested</td>
<td>1.40%</td>
</tr>
</tbody>
</table>

Total votes: 74
1. NEW: Celebration of SJSU Sponsored Research
   - Thurs, Oct. 18, 3-5 pm, USU Ballroom

2. AAD Staff Recognition Event
   - Fri, Nov. 2, 2012, 7:30 am – noon, USU Ballroom

3. NEW: Annual Book Award Recognition-- Library & Bookstore
   - Mon, Nov. 5, 2012, 4-6 pm, MLK 225-229

4. NEW: Lecturer Appreciation Event-- President, Provost, Deans
   - Tues, Nov. 6, 2012, 4-6 pm, USU Ballroom
(4) Enhanced Communication

- Monthly Provost’s Forums – more Q&A
- At least monthly Provost email updates
- Provost coffee/tea times with faculty and staff
- Provost meetings with all departments
- Increased walkabouts
SUMMARY

1) Band together to cope and innovate on budget constraints.
2) Continue to support faculty in scholarly and creative activity.
3) Build cutting edge Silicon Valley technology partnerships (and other national leaders!) to support faculty and staff in learning new technologies to enhance student engagement and success (MIT, CMU, Stanford, Cisco, Adobe, Apple and more).
4) Recognize the great work of faculty, staff and others.
5) Increase two-way communication.
6) Learn to dance when it’s raining!
Question & Answer?