TO: The Academic Senate

FROM: The Committee on Budget and Resource Allocation (COBRA)

SUBJECT: 13-14 COBRA 8: Center for Interdisciplinary Research and Collaborative Learning (CIRCLe) building presentation

PURPOSE: Information to the Academic Senate

BACKGROUND:
Dean Michael Leung, College of Science and Mr. Jim Zavagno, Associate Vice President, Facilities Development & Operations provided a presentation to COBRA on May 14, 2014 on the proposed new building project “The CIRCLe Building”. CIRCLe stands for the Center for Interdisciplinary Research and Collaborative Learning, a state-of-the-art Next Generation Facility to support the Next Generation Science Standards. The purpose for this project is to create a K-18 STEM education continuum by building upon the K-12 NGSS foundation. This proposed building project is a $70+ million project for STEM Programs, Teacher Education Program, and Institute for STEM Education Building & Shared Facilities. The CIRCLe Building will have a gross footage of 20,837 sq.ft. The estimated cost is $17.5 million. With $2.5 million from the University Funds, this project is seeking donor contributions of $15 million.

The presentation for the CIRCLe Building is attached here for further information.

ACTION REQUESTED:
To provide information to the Academic Senate on a proposed new building project “The CIRCLe Building.”
The CIRCLE Building

Center for Interdisciplinary Research and Collaborative Learning
Historical Background
STEM Education Building
A $70+M Project

- STEM Programs
- Teacher Education Program
- Institute for STEM Education
- Building & Shared Facilities

134,767 gsf / 80,860 asf

$70+ Million
A Pressing Need for Change in STEM Education

“Never before has our world been so complex and science knowledge so critical …”

(from NGSS Executive Summary)
Seizing a Golden Opportunity

- Cal State East Bay is a recognized leader in STEM education

- California is implementing rudimentary changes in K-12 teaching of STEM with the Next Generation Science Standards (NGSS)
Vision

To build a state-of-the-art Next Generation Facility (CIRCLE) to support the Next Generation Science Standards
Purpose

To create a K-18 STEM education continuum by building upon the K-12 NGSS foundation.
Mission

To set up CIRCLE as an incubator for K-18 STEM education where innovative teaching and learning approaches are explored for the development of best practices
Aligning CIRCLE with NGSS

The 3 Dimensions of NGSS
- Practices
- Crosscutting Concepts
- Disciplinary Core Ideas

The 3 Components of CIRCLE
- Research
- Interdisciplinary Focus
- Collaborative Learning
Building Design

- Modular research laboratories with project rooms for hands-on participation
- Partitionable outcome-based collaborative learning spaces
- Shared centralized core support facilities and instrumentation rooms
The Floorplan
The Look (Over)
The Look (Side)
The Numbers

- Gross Footage = 20,837 sq.ft.
  Assignable Footage = 12,670 sq.ft.

- Interdisciplinary Research = 50%
  Collaborative Learning = 30%
  Core and Support Facilities = 20%

- Total Cost Estimate = $17.5M
  University Funds = $2.5M
  Donor Funds = $15M
Questions and Comments

Thank you for your attention