

Subject: Programming Meeting #1	
Client: MCC	
Project: Center for Advanced & Emerging Technologies Construction Technology Programming	Project No: 202261/177868
Meeting Date: 02/27/12	Meeting Location: MCC Bldg 10 Room 136
Notes by: Rachel Sibson	

Attendees:

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|----------------------------------------|-------------------------|---------------------------|
| Bruce Carpenter, Project Principal HDR | Jerome Patten, MCC/CPS | Julie Langholdt, MCC/FOC |
| Tim Wurtele, Project Manager HDR | Daniel Lawse, MCC/CPS | Bernie Sedlacek, MCC/FOC |
| Chris Ertl, Programming Manager HDR | Shannon Snow, MCC/EVP | Jim Grotrian, MCC |
| Nick Konen, Business Development HDR | Charlie Cogar, IDS/VACA | Richard Hart, MCC |
| Rachel Sibson, Project Facilitator HDR | Tom McDonnell, MCC | Clifton Pee, MCC/ITS |
| Lindsay Neemann, MCC/CPS | Dave Horst, MCC INCT | Guillermo Rosas, MCC/INFO |
| Darryl Partner, CDL @ MCC | John Berger, MCC Elect. | Hugh Schuett, MCC /INFO |
| Carl Fielder, MCC Applied Tech | Steve Lovett, MCC/ENGL | Roger Miller, MCC/CNST |
| Patrick McKibbin, MCC Auto Collision | Dave Friend, MCC | Stan Horrell, MCC/CPS |
| Darrell Bush, MCC Auto Tech | Pam Perry, MCC/Grants | |
| Trevor Secora, MCC CNST | Tom Pensabene, MCC | |
| Teri Quick, MCC IFEX/Reading | Rick Sandvig, MCC/CDL | |
| Cindy Catherwood, CDS/ENGL/HUM | Jason Hill, MCC/Welding | |
| Greg Stachon, MCC/CPS | Kay Friesen, MCC/Events | |
| Robert Nirenberg, MCC/CPS | Ingrid Berlin, MCC/EVC | |

Topics Discussed:

Introduction

Goals & Objectives:

MCC: 2001-2009 added 16% student population at Fort campus, expect same addition in student population by 2020. Centers of specialization are important moving forward. Important thoughts: How programs can merge, work together and share space? How to help community employ more people? How to create space for job placement and outreach? How to create more teaching laboratories?

HDR: Community colleges responsible for developing future work force and economy. Today we will try to accomplish setting a vision (overall concept for building) and project goals. Will discuss process of the program, how HDR/MCC will move forward. Core of meeting today: to get from MCC what you feel is most important. Want to get to 3-4 overall goals.

Project Vision: HDR is looking for a couple sentences for a vision statement as we move forward. HDR stated importance of “value tree”, (i.e. Identity & Image, Connectivity, Attract & Retain (students and faculty), and Quality of Life, Sustainable, Flexibility and Cost Appropriate). Four Pillars identified: Synergy, Collaboration and Co-location, Transformative Instruction Design and Fully Engaged Learning Spaces. MCC: Realistically, these four pillars will apply to all buildings MCC will have moving forward.

Programming Approach

Programming Process: HDR stated this process isn't about design at this point. Will be utilizing focus group input, will review how future buildings will go together, will develop block plans and massing studies that will test fit assumptions made as well as to test and evaluate cost models. Four key elements to consider during this process: function, form, economy and time.

Project Scope: HDR understands that there are two separate buildings. Construction Technology: \$11 million, 55,000 GSF, LEED certified. Center for Advanced and Emerging Technologies: \$10 million, 50,000 GSF, LEED certified.

Project/Programming Schedule: HDR stated programming will last approx four months. Benchmark tour, optional, to tour other facilities and review how they are doing things. In three weeks, HDR would like to have first focus group meeting.

Communication Methods: HDR stated that a calendar will need to be set up to coordinate with MCC staff schedules, for focus group meetings on a regular, weekly basis.

Site: HDR displayed images from the master plan. In this phase of the project, need to discuss if this should be one building or two? Should they be connected? HDR mentioned student walk time and where buildings should be located, eventually will need to discuss parking. Since buildings will be right ON 30th street, how they look and what kind of presence MCC wants them to have should be considered.

Sustainable Design: Intent is to reduce impact. Focus areas: Sustainable design, energy services, commissioning. Approach: Goal setting and integrated design. Will this building be Net Zero? (Net Zero: Where building produces as much energy as it consumes. Building would be efficient, whatever energy it used would be through a renewable source, overall better for environment.) HDR stated that everyone should be thinking of the big picture, it's very important to be thinking about the sustainable design opportunities now at the beginning of the process. MCC stated that goal is to have the footprint fully assembled before breaking ground. Army and Navy still owns some of the property that MCC is continually working to obtain. MCC stated that Net Zero should be the goal. HDR stated that this should then be listed in the vision statement and listed as a primary goal.

SharePoint: Will be a site where team members can post comments and questions, to be addressed at a later date and time. Good way to connect and communicate.

User Group Presentations & Discussions

Broke into four small groups (Encourage Collaboration & Co-locations, Achieve Transformative Instruction, Integrate Future Technologies and Create Learning Space) and rotated every 10 minutes.

TECHNOLOGY

- Laptop in all classrooms
- Mobile laptop
- Tech Part of every class
- Instant knowledge access
- BIM
- Knowledge assessment

Integrate Future Technology
Visual arts (product design)

MAC

- No Textbook
- iPad for viewing documents
- Classroom design
- Cloud computing
- Flexible classrooms
- E tool box
- Connectivity (internet at home)
- Green technology
 - Green roof/xeriscape
- Monitoring
- Computerized surfaces
- Less silos
- Visible/transparent
- IT Data Center
- Build as the lab
- Safety
- Digital but still need physical skills
- iPad versus phone
- Beyond iPad
- R & D on campus
- Robotics
- Technology beyond classroom
- Outside of building
- Connect students
- Flexible spaces
- Industry sponsorship for new technology development
- Labs for new technician (used oil)
- New curriculum/new programs
- “Think Tank” for program development
- Virtualization
- Access to infrastructure (security/opaque glass)
- Virtual welding
- Simulation labs
- Voice recognition
- Hybrid classes
- Less keys
 - Fingerprint ID
- RFID student ID

ENCOURAGE COLLABORATION AND COMPANY LOCATIONS

- Flexibility
- Research and development
- Business incubator
- Conference with outside groups
- Video
- Problem based case learning
- Visiting writer/scholar

- Student – student interaction
- Discipline – discipline
- Industry to Academic
- Scheduling
 - Time function
- Common project/common function
- Art space
- Inter disciplinary
 - Non traditional
 - Communication/Math/English
 - Video/audio development
- Student services and facility administration
- One face or once screen
- Course conferencing system
- Industry
 - 2 years at MCC prior to apprenticeship program
- Faculty needs to be together
- Privacy versus open space
- Interior design more integrated
 - Include adjunct faculty
- Every FT faculty may not need dedicated office
- Faculty office
 - Files
 - Exams
 - Record keeping
- Acoustics important
- Employers has space
- Internship by virtue of class
- Trades concerned about sharing ideas
- Exterior collaboration spaces
- Scheduling classroom space
- Collision technology
 - Structural welding
 - Light welding
 - May need separation
- Once class one presenter
 - Two programs cross over
- Go to Meeting
- Meetings with industry/faculty
 - Large number of people
 - 24 - 30
- More global
- Other disciplines culinary
- Hospitality
 - Coffee
 - Food for collaboration spaces

TRANSFORMATIVE INSTRUCTION

- 3D/virtual tool

- Live interaction with industry (guest)
- Job placement
 - One stop
- MY lab system
 - Dollars to students
- Need for CPU (CAD)
- Flexibility (furniture, technology) between programs
- Online theory/video
 - Classroom labs
- E Textbook
 - Free text online
- SharePoint
- Hybrid/modules
- KHAN Academy.org
 - Free
- Brokers of education

CREATE LEARNING SPACES

- Non programmed flex space
 - Change??? interaction
 - Plug-in space for devices
- Dedicated programs
- Computers
- Visible labs
 - Open
 - Wall of screens
 - Leaning showcase
- Some traditional classrooms
 - Flexibility
- Smart boards
 - Glass Wall
- Live feed of information
- Facilitate lecture capture and distribution
- Unplug zone “Google’s Grass Room”
- Practical labs (4000 sq ft)
- Virtual learning
- Opportunity to be on same page
- Think tank space
 - Faculty
 - Students
 - Outside business
- Large space for advisory connects?
- Acoustics
- Like programs grouped together
- Easily convertible space
 - Large
 - Small
 - Individual (cluster)
- Redefine administrative systems

- Adjunct space/home
 - 80% adjunct
 - Keep close to home program
- Hybrid online learning
 - Satellite spaces
 - Library
 - Union Halls
- Place for applications
- Place to download information to take home
- Using personal devices to connect to lecture class
- Flexible furniture
- Reconfigure space
- Incorporate technology
- Building systems as learning labs
- Teach general classes within labs
- Expose building systems
 - Glass walls
- Center auditorium
 - Open storage
 - Live lab
 - Classrooms around this
- Walk the Talk
 - See inside walls/ceilings
- Live displays
 - Energy use
 - Dashboards
- Problem based learning
 - Case
 - Guide
 - Students working together
- Dynamic scheduling
 - More efficient
 - Perpetual schedule