November 18th, 2013

Bruce Locke
Senior Project Manager
Capital Development Board of Illinois
100 West Randolph Street, 14th Floor
Chicago, IL  60601

Re: CLC Lakeshore Campus Expansion
Construct Student Services / Adult Education Center, Waukegan
CDB Project Number: 810-056-024
Architect’s Project Number: 213007.00

Meeting Minutes - Science Lab Sub-Committee

Summary of the Lakeshore Campus: Science Lab Sub-Committee Programming Meeting #2 held at 11:00 am on November 18th, 2013 at College of Lake County- Lakeshore Campus, 1 N. Genesee building, Room 325. These notes record our understanding of items discussed and decisions made at this meeting. Please notify us within seven (7) calendar days of any necessary additions or corrections.

PERSONS IN ATTENDENCE

Steve Holman, Dean
Carol T Wismer, Biology Instructor
David Weatherspoon, Director, Student Services
Dr. Al Baldwin, Dean, Lakeshore Campus
Arlene Santos-George, Director, Educational Affairs
Ted Johnson, Construction Manager
Drew Miller, Project Manager
Jeffrey Sronkoski, Principal
Burcin Moehring, Director of Science and Technology
Jackie Rutter, Intern Architect

College of Lake County (CLC)
College of Lake County (CLC)
College of Lake County (CLC)
College of Lake County (CLC)
College of Lake County (CLC)
College of Lake County (CLC)
Legat Architects (Legat)
Legat Architects (Legat)

ITEMS DISCUSSED

1. The group reviewed the updated Space List Summary (attached).
   a. Carol Wismer stated that the science classes are offered at the Lakeshore campus in order to support the nursing pre-requisites.
   b. Steve Holman informed the group that Chem 121 is no longer going to be taught at the Lakeshore Campus because majority of the colleges do not require this as a prerequisite. It was agreed that no new chemistry teaching lab is required at this campus and the chemistry class can be taught in the current Biology.
      i. It was agreed that the current lab will be renovated to accommodate Biology and Chemistry. Steve Holman will meet with the chemistry faculty on Wednesday, November 19th to confirm that Biology and Chemistry can share the same lab.
      ii. Steve Holman stated that a new Microbiology Teaching Lab and a new A & P Teaching Lab should be programmed for the Lakeshore campus.
      iii. Arlene Santos-George and Ted Johnson asked the teams if the new programmed spaces will accommodate CLC Lakeshore campus’s future needs. Arlene Santos-George distributed a draft of the estimated students enrolled in Biology classes at Lakeshore and a list of classes offered at the Lakeshore Campus. Steve Holman indicated that the
proposed science programs and the programmed two new teaching labs will be adequate for current and future science education requirements.

2. The group reviewed the detailed space requirements for Biology, Chemistry, Microbiology and A & P Teaching Labs as well as for lab support areas.
   a. Carol Wismer provided information regarding Biology Lab, Prep Lab, and Storage. Following were requested to be provided: one fume hood, lab sink with hot & cold water, lab grade water, vacuum, air and gas services, flammable and corrosive cabinets, acid/base cabinet and a dishwasher.
   b. Steve Holman provided the following the information regarding the chemistry lab spaces: four fume hoods, lab sinks with hot & cold water, lab grade water, vacuum, air and gas services, flammable and corrosive cabinets, acid/base cabinet and a dishwasher.
   c. Following were requested to be provided for the Microbiology Teaching Lab: no fume hood, lab sink with hot & cold water, lab grade water, vacuum, air and gas services. In the Microbiology Prep Lab, following was requested to be provided: no fume hood, lab sink with hot & cold water, lab grade water, vacuum, air and gas services, flammable storage cabinet, acid/base cabinet, small sterilizer, an autoclave, a glass-wash, laminar flow station, full height refrigerator and a freezer.
   d. Following were requested to be provided for the A & P Teaching Lab: no fume hood, lab sinks with hot & cold water, lab grade water, vacuum, air and gas services.

3. Burcin Moehring presented examples of lab types, layouts, trends for Microbiology and A & P labs. She also showed examples of various science facilities and pictures taken during the tours.
   a. The CLC team prefers the lab layout with half round student island benches which enhance collaborative work (attached). This was the selected design for the Grayslake campus. Some of the CLC team members find movable lab tables for flexibility desirable (attached). Both of these options will be included in the programming document.
   b. The group briefly reviewed space adjacencies (attached). The CLC team prefers that the new Microbiology and A & P lab suites to be adjacent to each other.

4. The group agreed that there is no need for another programming meeting.

Sincerely,
Legat Architects, Inc.

Burcin Moehring, AIA, LEED AP BD+C

Jackie Rutter, Associate AIA, LEED Green Associate

ATTACHMENTS

Attendance Record (1 Page)
Space List Summary (1 Page)
Adjacency Diagrams (2 Page)
Preferred Bench Types (2 Pages)
Preferred Table Layouts (3 Pages)

CC
File: 213007.00CLC Grayslake Master Plan: B3
Bruce Locke, Capital Development Board of Illinois
Dave Agazzi, College of Lake County
Lakeisha Lindsey, Cotter Consulting
Vuk Vujovic, Legat Architects
# Basic BHS Spaces

## Chemistry

<table>
<thead>
<tr>
<th>Program Designation</th>
<th>Room Name / Function</th>
<th>Space Classification</th>
<th>Design Capacity</th>
<th>Existing NASF</th>
<th>Proposed NASF</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Ch 01 Chemistry Teaching Lab</td>
<td>Teaching Lab</td>
<td>24</td>
<td>0</td>
<td>1323</td>
<td>(42'X31'-6&quot;)</td>
</tr>
<tr>
<td>2</td>
<td>Ch 02 Chemistry Prep Lab/Glasswash</td>
<td>Lab Support</td>
<td>2</td>
<td>0</td>
<td>882-662</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Ch 03 Chemical Storage/Stockroom</td>
<td>Storage</td>
<td>2</td>
<td>0</td>
<td>662-441</td>
<td>(21'X21')</td>
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<tr>
<td>4</td>
<td>Ch 04 Instrument Lab</td>
<td></td>
<td>6 to 8</td>
<td>0</td>
<td>662</td>
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Chemistry Subtotal: 34-36 0 1,985

## Anatomy and Physiology

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<th>Space Classification</th>
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<th>Proposed NASF</th>
<th>Notes</th>
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<td>Teaching Lab</td>
<td>24</td>
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<td>6</td>
<td>AP 02 A &amp; P Cadaver Lab</td>
<td>Lab Support</td>
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<td>550</td>
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<td>7</td>
<td>AP 03 A &amp; P Storage</td>
<td>Storage</td>
<td>2</td>
<td>0</td>
<td>441</td>
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A & P Subtotal: 28 0 2,314

## Biology

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<th>Design Capacity</th>
<th>Existing NASF</th>
<th>Proposed NASF</th>
<th>Notes</th>
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<tbody>
<tr>
<td>8</td>
<td>Bi 01 Biology Teaching Lab</td>
<td>Teaching Lab</td>
<td>24</td>
<td>0</td>
<td>0</td>
<td>Existing multi-purpose lab to remain</td>
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<tr>
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<td>Bi 02 Biology Prep Lab</td>
<td>Lab Support</td>
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<td>0</td>
<td>0</td>
<td>Existing multi-purpose lab to remain</td>
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<td>10</td>
<td>Bi 03 Biology Storage</td>
<td>Storage</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>Existing multi-purpose lab to remain</td>
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Biology Subtotal: 27 0 0

## Microbiology

<table>
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<th>Program Designation</th>
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<th>Space Classification</th>
<th>Design Capacity</th>
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<th>Proposed NASF</th>
<th>Notes</th>
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<td>11</td>
<td>MBi 01 Microbiology Teaching Lab</td>
<td>Teaching Lab</td>
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<td>Possibly accommodated in the existing Biology Lab</td>
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Microbiology Subtotal: 27 0 0

Science Labs Total: 82 0 4,299

## Adajacencies:

- Microbiology
- Biology
- Chemistry

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**CLC Lakeshore -Bio-Chem-area spreadsheets**

**Chem A&P**

**LEGAT ARCHITECTS**

11/15/2013
ADJACENCY DIAGRAMS

A & P SCHEME

- A & P CADAVER LAB: 550 SF
- A & P STORAGE: 441 SF
- ANATOMY AND PHYSIOLOGY TEACHING LAB: 1,323 SF
Design Concept – Lab Layout
Aligning Design with Pedagogy

A & P - Movable Tables
Aligning Design with Pedagogy

• ‘Eyes Forward’ Mode

A & P - Movable Tables

1,260 NSF   4 Modules
Aligning Design with Pedagogy

• Peninsula ‘Workshop’ Mode