

PROJECT DOCUMENTATION

PROJECT: Grinnell College
Noyce Science Center Phase II
Grinnell Iowa

COMMISSION NO.: 14233-10
DATE: September 22, 2000

DESCRIPTION: A meeting to review the needs of the Biology Department related to Phase II of the Science Center was held at Grinnell College on September 6, 2000.

PARTICIPANTS:

Carolyn Bosse, Lab. Coordinator	Biology
Jackie Brown	Biology
Vince Eckhart	Biology
Leslie Gregg-Jolly	Biology
Susan Kolbe, Lab. Coordinator	Biology
Clark Lindgren	Biology
Diane C. Robertson	Biology
Chuck Sullivan	Biology
Rick Heinz	RFD
Ernest Wagner	Holabird & Root

DISTRIBUTION: Vicki Wade
Chris Harrison-Weitz Co.
Rick Heinz-RFD
Lee Tapper

ITEM ACTION

- 1.0 The Biology faculty requested that this work session be conducted within the Phase 1 Molecular Biology teaching laboratory so that the design team could experience firsthand the mechanical noise problems in the east end of the room. The noise was quite loud and seemed to emanate from ductwork in the ceiling. It was obvious that conducting combined lab/lecture discussions in the room would be difficult if not impossible due to the noise.
- 2.0 Rick Heinz distributed sample Biology teaching laboratory diagrams developed from RFD's experience with other institutions around the country to generate discussion and spur creative thinking.
- 3.0 Discussion items included:
 - 3.1 Need three (or possibly four?) new introductory Biology teaching laboratories to replace the two existing introductory laboratories that will be demolished to make way for Phase 2 construction. Features/issues associated with these laboratories are:
 - 3.1.1 Accommodate a maximum of 24 student stations per laboratory.

ITEM ACTION

- 3.1.2 There will be approximately 4-5 sections of Introductory Biology offered per semester.
- 3.1.3 Each section will be taught by a different instructor in their new curriculum which has just been started this fall semester. Thus, they have little experience with how the new curriculum will work out.
- 3.1.4 The laboratories should be of a flexible design. The faculty seemed to like RFD's diagrams which featured movable 2-person tables as opposed to the 4-person tables they currently have in Plant Biology and Animal Physiology. The 2-person tables offer a lot more flexibility in room layout and table orientation for alternative laboratory and lecture arrangements.
- 3.1.5 Some courses will need natural gas at the student tables for Bunsen burners, potentially for all 24 students at the same time. Alternative methods for distributing gas were discussed. RFD will study alternative for discussion at future work sessions.
- 3.1.6 Some faculty liked the idea of room layouts which accommodate separate laboratory and lecture tables within the same room. Rick Heinz pointed out that there is a space premium associated with this design since the rooms need to be larger to accommodate the separate lab and lecture stations for each student.
- 3.1.7 An alternative arrangement was discussed which would place a small classroom for 24 students between pairs of Biology teaching laboratories. These classrooms would need to be dedicated for use by the teaching laboratories when they are in session, but could potentially be used by others when the lab courses are not being taught.
- 3.1.8 All Introductory Biology laboratories need to be acoustically quiet – very important!
- 3.1.9 All Introductory Biology laboratories will need multi-media projection capability.
- 3.1.10 The Introductory teaching laboratories should be adjacent or very close to an Equipment/Instrument Room.
- 3.1.11 The Introductory Biology laboratories should be clustered around a Preparation Room, which should be approximately 600 nsf.
- 3.1.12 Sue Kolbe's office should be closed to the Preparation Room.

The preceding notes constitute Holabird & Root's understanding of the matters addressed. If your understanding

differs, please notify Dennis Vovos within five working days of your receipt of this document.

HOLABIRD&ROOT LLP

Dennis Vovos
Project Manager

DV/ct

ITEM ACTION

PROJECT DOCUMENTATION

PROJECT: Grinnell College
Noyce Science Center Phase II
Grinnell Iowa

COMMISSION NO.: 14233-11
DATE: September 22, 2000

DESCRIPTION: A meeting to review the needs of the Biology Department related to Phase II of the Science Center was held at Grinnell College on September 7, 2000.

PARTICIPANTS:

Jackie Brown	Biology
David Campbell	Biology
Diane Robertson	Biology
Bruce Voyles	Biology
Rick Heinz	RFD
Dennis Vovos	Holabird & Root
Ernest Wagner	Holabird & Root

DISTRIBUTION: Vicki Wade
Chris Harrison-Weitz Co.
Rick Heinz-RFD
Lee Tapper

ITEM ACTION

- 1.0 This session started with a discussion of the 200 level courses, including 251 Cells, Molecules, Organisms and 252 Organisms, Evolution and Ecology. These courses are currently taught in Laboratory 1011. There will be a new curriculum starting next year to follow along with the new Introductory courses that were just started this year. This group suggested discussing the accommodation of the 200 level courses with the Biological Chemistry focus group.
- 2.0 Other discussion included:
- 2.1 Need a new Advanced Teaching Laboratory to replace existing Room 1611 Ecology Laboratory which will be demolished during Phase 2 construction. This laboratory will handle Comparative Anatomy, Ecology, Aquatic Biology and Avian Biology. The furnishings should accommodate 16 student stations at movable tables, and include one 4' chemical fume hood and two sinks. This laboratory should be distinct from the proposed Earth Science/Geology laboratory discussed with the Environmental Studies focus group.
- 2.2 Need one additional new Advanced Teaching Laboratory with features similar to the replacement laboratory noted above.
- 2.3 Support space requirements include:

- 2.3.1 Field Equipment Storage Room.
 - 2.3.2 Sample Preparation Room with two large sinks (w/sediment traps) and sized to accommodate 4-6 students working on samples simultaneously.
 - 2.3.3 Field Biology Instrument Room.
 - 2.3.4 Cell Culture Room with one 6' Class II Type A biological safety cabinet, CO2 incubator, sink, microscope table, refrigerator and shaker.
 - 2.3.5 Plant Growth Room – 72 degrees F with ambient humidity. Two 4' wire racks with fluorescent light fixtures above each shelf.
 - 2.3.6 Animal Collection Room.
 - 2.3.7 A/V Storage Room.
 - 2.3.8 Storage room for computer carts.
- 2.4 Discussed Faculty Research Laboratories – need four new Faculty Research Laboratories to accommodate current faculty after the current north wing is demolished. Need three additional Faculty Research Laboratories to accommodate future faculty in the Biology Department. These new and replacement laboratories should be sized the same as the Phase 1 research laboratories in the west expansion.
 - 2.5 Seven new faculty offices will be required to accommodate replacement of existing offices to be demolished along with the anticipated faculty expansion in the Biology Department.
 - 2.6 The faculty would also like to have three combined office/lab suites for visiting scientists and emeriti faculty.

The preceding notes constitute Holabird & Root's understanding of the matters addressed. If your understanding differs, please notify Dennis Vovos within five working days of your receipt of this document.

HOLABIRD&ROOT LLP

Dennis Vovos
Project Manager

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