

IMMATERIAL LIMITS

L 2

LEVEL 2 - FALL 2002
T, R, F

PROBLEM 3:

EXTREME GEOLOGY CENTER

PROGRAM

The Extreme Geology Center is a Museum, Education, and Recreation facility, offering its visitors a unique experience of geology, environmental science and recreation. The center will tell the story of the 4.5 billion year history of the Earth, focusing particularly on the history and current evolution of the Stearn's Quarry site as well as the greater Chicago Area, while providing a large scale urban amenity to Chicago.

The Museum of Geology is a teaching and research facility with collections of more than 50,000 vertebrate fossils and 2,000 minerals and the largest geological cross section of Chicago (50 feet in length). While its acquisitions and staff are modest in size at the moment, it is speculated that the museum facility will expand over time. Planning its expansion is part of the design process. Furthermore, the recreational facility is not only seen as a vital component that will bring the public to the site and museum, but as a program that will help subsidize the cost of maintaining the museum facility.

The four major activities of the complex include:

Acquisition of specimens done principally through field expeditions to collect specimens and attendant data. These data provide the placement of specimens in a geologic context, rock type, position in the sequence of rocks seen in the rocks of the region, and the relationship of specimens to one another.

Curation of acquisitions starts with the preservation, preparation and conservation of specimens. Detailed notes and documentation are kept on the location of where the specimen was collected and the methods used to preserve and conserve the specimen.

Education involves taking the complexities of research findings and presenting them to a variety of public groups.

Recreation involves a wide array of possibilities that re-acquaint a larger population to the earth they inhabit through sport and leisure.

SQUARE FOOTAGES:

Indoor Galleries- total 12,000 square feet

Historical excavation and mining instruments	2,000 square feet (minimum)
Stones and Land Processes	5,000 square feet (minimum)
Ores	3,000 square feet (minimum)
Fossils	2,000 square feet (minimum)

Outdoor Galleries- 10,000 square feet

Café- 2,000 square feet

Rest Rooms- As necessary

Library- 5,000 square feet

Museum Shop- 2,000 square feet

Indoor Auditorium- to seat 50

Outdoor Auditorium- to seat 100

Research Classrooms- 4,000 square feet

Administrative Offices- 4,000 square feet

Indoor Rock Climbing Wall- 2,000 square feet

Outdoor Recreation: (may choose any or some of the following) -total approx. 80,000 square feet

Rock-Climbing, In-line Skating, Skateboarding, Mountain Biking, Ski Jumping, Bungee Jumping, Sky Diving, Jogging, Walking, Sun-bathing, Hiking

FINAL REQUIREMENTS:

1:100 (or equivalent) model at scale of the whole site/ old one will work if accurate

1:100 (or 250) site drawing with context (surrounding site), and phasing of project

Diagrams of:

circulation
program/ and or/ spatial strategy

1/8" : 1'-0" critical plans

1/8" : 1'-0" critical longitudinal section

1/8" : 1'-0" critical transverse section(s)

1/8 : 1 -0 models

1/4" or 1/2 : 1 -0 sectional model of envelope+structure

1 perspective/ axon or collage of intervention in the site

1 perspective of inside architecture looking out.