A PROPOSED STUDENT - ALUMNI CENTER FOR THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF BACHELOR IN ARCHITECTURE.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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Department of Architecture
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PIETRO BELLUSCHI, DEAN
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DEAR DEAN BELLUSCHI:

In partial fulfillment of the requirements for the degree of Bachelor in Architecture, I herewith submit my thesis, "A Proposed Student - Alumni Center for the Massachusetts Institute of Technology".

Respectfully yours,

MARTIN H. COHEN, 54
To Professors Beckwith and Jones for their patient criticism on design;
To Professor Newman on Bowling Alleys and Juke Boxes;
To Messrs. Weidlinger and LeMessurier on structures; and
To Dean Belluschi, whose keen interest stimulated this thesis from its inception.
DEDICATED

To the Student Union Committee
and its energetic chairman,
Eldon H. Reiley, '55

in the hope that their dream
may one day be a reality.
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A Student- Alumni Center may perform many varied and essential services on a college campus. It may be the focus of the community's extra-curricular activities, housing the headquarters of the many student and alumni organizations on and off campus. It may be the political and economic core of the college community, containing the seats of student government and the Alumni Association. It can be a place of service, a shopping center, a bank, a post office, a place to relax and dine, to meet the others, formally and informally, for an evening of work or just for fun.

It can be the center of campus social life, a place to hold a party or dance or to complete an evening after a concert or lecture on campus. It may be a hall of hospitality for one's guests, a place for alumni to stay when returning to the campus, a hotel for visiting teams or students' dates, a place to write a newspaper or read one, to study for an exam or to pause after one.

But a campus center is in reality much more than an elaborate playground, for it plays an essential role in the social development of a student. M.I.T. has come to realize its moral responsibilities to the future citizens it produces. It is not enough to merely train technically adept young people for positions in science and industry, for these same young men and women will also be the husbands and fathers, the leaders of tomorrow's world. If they are to not only excel in their chosen professions, but also be equipped to make lasting contributions to society as a whole, it is fundamental that these students be prepared socially, spiritually,
AND MORALLY FOR THEIR COMING ROLES IN SOCIETY.

Every facet of university life plays an important role in this development - the dormitory or fraternity, the dining hall, the classroom, the gymnasium and the campus center. Perhaps, then, the most vital achievement of a Student-Alumni Center for MIT would be the arrival on campus, at long last, of an architectural environment conducive to the congenial social integration of the entire MIT family, its students, staff, faculty, alumni and friends - bringing together the dormitories, the fraternities and the commuters in the total community that is M.I.T.

THE NEED:

At the present time there is no real center of campus life at MIT. The fraternities and dormitories are separated from the commuters and from each other not only by distance but social contact as well. There are innumerable areas where the available facilities do not satisfy the needs of the MIT community. These voids opened as the Institute developed, in a comparatively few years, from a cluster of academic buildings to a true residential university.

Furthermore, the proposed relocation of all undergraduate living groups to West Campus will seriously dislocate many of those features of student life which have been established in and around Walker Memorial and East Campus. It will put beyond reach the facilities for banking, shopping and dining which are located at Kendall Square. Meanwhile, those commercial services now located on Massachusetts Avenue across from Building Seven will be suspended with the demolition of the buildings there as the proposed West Campus...
BUILDING PROGRAM IS COMPLETED.

Walker Memorial is uncomfortably far from West Campus, especially Burton House and those proposed developments as Fraternity Row and permanent housing facilities for married students and their families. In addition, there is insufficient room for the number of activities that desire space in the building and there aren't ample quarters for those activities already housed there.

The lack of space in Walker causes the activities to seek space wherever they can; in Building 18, Building 2, dormitory basements, Hayden Library and in Westgate. The proposed destruction of Building 18 will crowd existing facilities even further. The centralization of activities in the proposed Student-Alumni Center will yield closer social contact between the individuals in these activities thus broadening the student's range of interests, his number of associations with people different from himself, and his understanding of how he himself and what he is doing fit into the complete picture of life at the Institute.

Another great weakness in Walker's facilities is a scarcity of available meeting rooms. There is a very great strain on the lounge facilities now available for meetings of student government as well as get-togethers of social groups. The Walker lounges are often booked up weeks in advance, and still groups must seek other places to meet. Again, the recreational facilities at Walker are old, often in poor repair, frequently leaky and otherwise obsolete with regard to heating and ventilation of the rooms.

* A new building would furnish badly needed space in the form

* See addendum, Appendix C, for survey of present meeting room facilities in Walker Memorial.
of new, modern lounges and reading rooms, conference rooms and small meeting rooms as well as recreational areas, game rooms, bowling alleys, hobby shops and snack bars.

The present commercial services readily available to students at the Institute are inadequate, sometimes poor. In any event, the most convenient block of stores, those on Massachusetts Avenue are due for eventual demolition. The Student-Alumni Center would be the ideal location for the replacement and enlargement of such services, which would incidentally provide a source of revenue towards the management of the building.

The construction of the Center would also relieve the load on some of the Institute's facilities. The Alumni Association offices could be centralized in the building, which would include a section of hotel-type accommodations for visiting alumni and friends of the Institute. The inclusion of a bank and post office branch, both high on the list of student preferences, would alleviate the pressure on the personal deposits and Bursar's offices in Building 10, and the postal station in Building 24.

Student counseling could be aided by the removal of the offices of the Deans of Men and Women to the more congenial surroundings of a campus center instead of the less personal educational buildings. Religious counseling would also be aided by the provision of permanent offices for clergymen of all faiths and a religious library. These are especially desired since the exclusion of such facilities from the plans of the neighboring Chapel, currently under construction.

* See Addendum, Appendix A, for results of student survey.
The student body is well aware of the shortcomings of the present system and the even greater difficulties they must face if and when the living groups are relocated. Over ninety per cent of the students have recognized the need for such a building. Indeed, over sixty-five per cent were willing to make an individual contribution to the cost of construction. What better indication can we find of the great need and appeal of a Student-Alumni Center for M.I.T.? 

* See Addendum, Appendix A, for results of student survey.
CHAPTER TWO
A BRIEF HISTORY OF THE DEVELOPMENT OF
THE STUDENT UNION CONCEPT ON CAMPUS.

The obvious and growing need for some sort of Student
Center on campus has been apparent for many years. When, in 1950,
the Institute commissioned Mr. Eero Saarinen to design its new
Auditorium and Chapel, a clearly stated policy of grouping together
the undergraduate body and its facilities was begun.

Immediately the concept of a real campus center was strength-
ened and in 1952, the Baker Memorial Committee undertook as its an-
nual project, the study of a student center at MIT, what its nature
might be, what facilities it might offer and how it might be realized.
When Hsiao Wen Shih '53 decided to undertake "A Student Center for
the Massachusetts Institute of Technology" as the subject of his
Bachelor's Thesis in Architecture, he was referred to the Baker Mem-
orial Committee for aid in preparing a program for such a building.
Together they arranged a schedule of requirements and Shih prepared
a set of drawings for a proposed center.

On May 8, 1953, the Institute Committee voted to form a
Student Union Committee to carry on the work of the Baker Memorial
group in bringing the project closer to realization. This new com-
mittee soon discovered that no written record of the Baker Commit-
tee's study had been preserved, that the only expression of the
study was to be found through interpretation of Wen Shih's drawings,
and as was apparent from the drawings, many of the allocations of
space were either inaccurate or already out of date.

Therefore, the Student Union Committee, as it began work
In September of 1953, set for itself three major goals:

1. To compile written recommendations covering all facilities to be included in a student union.

2. To disseminate as much information as possible about the project and to determine student sympathies on the subject.

3. To take all steps necessary, as the student group responsible for the project, to bring a student union building closer to realization.

After preliminary conferences with members of the administration, the committee met with Dean Pietro Belluschi of the School of Architecture and Planning, the Chairman of the Institute's Long-Range Planning Committee; Mr. Robert Kimball, Director of Business Administration; and Dr. Dana L. Farnsworth, Head of the Medical Department. Encouraged by this meeting, the committee plunged into its task of formulating a set of requirements for the building.

At the same time, Dean Belluschi suggested that I attempt a thesis on this subject in collaboration with the new committee. In November, I joined the Student Union Committee as its "architectural advisor" and together we prepared a program for the building and a formal report to the Institute Committee.

The heads of all organizations and commercial establishments desiring space in the building were personally interviewed and a list of requests formulated. The results of a student questionnaire distributed in the dormitories and fraternities were reviewed, and the project discussed with student groups from the House Committees and the Interfraternity Conference. Members of the Administration, Presidents and

* See Addendum, Appendix A, for Student Survey.
Advisors of organizations were met with in a series of cross conferences to combine requests, work out possibilities of sharing facilities, and to determine which groups might be better housed elsewhere on campus.*

Members of the Institute's Fund-Raising Committee and the Alumni Association were interviewed to determine how buildings might be financed, what the prospects for a Student Union on campus were and what the Alumni attitude towards the project might be. Letters were sent to all colleges which have built student centers since the end of the war to determine how they had financed their buildings and what facilities they had included.

** In May 1954, the committee's formal report on a proposed "Student-Alumni Center for M.I.T." was submitted to the Institute Committee. Inscomm approved the completed report, formally recognizing, for the first time, the need of the MIT community for such a building. For the first time also, the Undergraduate Association has pledged to actively support the (Student Union) Committee in all their efforts to bring the construction of a Student Union Building closer to realization. ***

Earlier, Institute Committee unanimously recommended to the Administration that all proceeds from the Undergraduate Social Fund be set aside for a special Student Union Construction Fund. Anonymous donations have already bolstered that Fund.

At the 19th Biennial Open House held in May, progress studies for this thesis were shown to the Institute family for the first time.

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* Summary of these conferences is on file in the Institute Committee Office as part of the Student Union Committee's master report.
** Complete copies of this report are on file with the Institute Committee and several members of the administration including Dean of Architecture Pietro Belluschi.
*** See addendum, appendix B, for the Tech clippings on Inscomm proceedings.
It is proposed to exhibit the final drawings at Commencement time and to use them extensively in future publicity for the project.

It should be recognized that these are the efforts of the student body at MIT and not those of the Institute itself. As yet the Administration has committed itself no further than to state that a student center may be built at some time in the future and that student pressure for such a building could bring about an earlier realization of the project. Again, one should realize that this is but a thesis for the Bachelor in Architecture— not a formal proposal for a new Institute building.

The Student Union Committee has been continued for the year 1954-5 and has dedicated itself to the encouragement of the students, alumni and administration—"with the intention of developing positive action towards obtaining a building".

It is hoped that this thesis may serve as a springboard from which may eventually come, a Student–Alumni Center for M.I.T.
CHAPTER THREE
THE PROGRAM

The Student-Alumni Center proposed by the Student Union Committee is a complex grouping of many diverse units. Because of the limitations of cost, which might prohibit construction of the entire center at an early date, it has been suggested by the committee that the center be built in stages; the initial phase to include those spaces indicated in the early sections of the committee's report,* the remaining facilities grouped together in the section entitled, "Areas for Future Study," to be added as funds become available.**

The following program includes the author's observations and the committee's recommendations for:

I. Activity and Organizational Space.
II. Commercial Space.
III. Social and Recreational Space.
IV. The "Areas for Future Study."*

I. Activity and Organizational Space Allocations.***

GROUP A:

The activities in Group A have three common features. They all employ a full-time secretary. They all withstand a great deal of student foot traffic. They all share the same ditto room and mimeographing facilities.

1. Student Government—Requires a suite of offices as follows:
   A) Secretariat Office — a reception room with reception

* Complete report on file in the offices of Institute Committee and Dean Pietro Belluschi.
** See chapter five, analysis and solution, for explanation of "Areas for Future Study".
*** These are the recommendations. For the original requests see addendum, Appendix B.
# Activities here included are those requiring office, desk, or work space that could not be provided by common rooms. Functions of a social or recreational nature have been included separately as section III of this chapter (3).
COUNTER, WHICH SHOULD ACCOMMODATE THREE DESKS AND SEVERAL
FILING CABINETS. STORAGE FACILITIES MAY BE BUILT INTO THE
COUNTER. THIS ROOM SERVES AS A GENERAL INFORMATION CENTER AND
HEART OF THE STUDENT GOVERNMENT ACTIVITIES.
SAMPLE DIMENSIONS 15 X 25 SQUARE FOOTAGE 350.

b) Ditto Room - to accommodate mimeograph, ditto, and litho-
graph machines. Also should include a long washable-top
worktable, a small sink, and shelves for paper storage.
THIS ROOM SHOULD OPEN OFF THE SECRETARIAT OFFICE.
SAMPLE DIMENSIONS 10 X 15 SQUARE FOOTAGE 150.

c) Institute Committee Meeting Room - must be large enough
to contain a single crescent shaped (UN-STYLE) TABLE TO SEAT
25. IN ADDITION THE ROOM MUST PROVIDE ADDITIONAL SEATING CAPAC-
ITY FOR 10-50 SPECTATORS. AS THE TOP STUDENT GOVERNMENT BODY,
INSCOMM MEETS ONCE EVERY TWO WEEKS. ROOM MIGHT ALSO BE USED
FOR OTHER (STUDENT GOVERNMENT) MEETINGS.
SAMPLE DIMENSIONS 30 X 30 SQUARE FOOTAGE 900.

d) Executive Committee Office - small office opening off
SECRETARIAT OFFICE. SHOULD INCLUDE ONE DESK AND THREE OR
FOUR EXTRA CHAIRS.
SQUARE FOOTAGE 100.

e) Finance Committee Office - a private office to ac-
commodate four desks and a large worktable. Used for routine
PAPER WORK AND BOOKKEEPING.
SAMPLE DIMENSIONS 16 X 22 SQUARE FOOTAGE 400.

f) Public Relations Committee Office - a private office to
accommodate four desks and a large worktable. The committee
numbers about 10 and engages in mailing activities, letter
WRITING AND POSTER WORK.

Sample dimensions: 16 x 22    Square footage 400.

2. TCA AND RELIGIOUS ORGANIZATIONS - A SUITE OF OFFICES AS FOLLOWS:

a) Reception Office - reception desk, three additional desks, alcove and shelving for book exchange, large reading table. This is largely a service organization. It employs 3 or 4 full-time secretaries and is heavily visited all the time.

   Square footage 500.

b) Administrative Offices - two offices partitioned from the rear of the general reception office.

   Sample dimensions (each) 10 x 10    Square footage 200.

c) Conference Rooms - at least four small rooms and connecting corridor. Each room should have small desk and two additional chairs or a sofa and chair. These rooms will be used for personal counseling by clergymen of the various faiths. The rooms should have access from main reception office.

   Sample dimensions (each) 9 x 10    Square footage 400.

d) Religious Library - three-wall shelving, central reading table, several lounge chairs. Ideal location would be such that it could be entered from either the periodical library or the religious organization reception room.

   Sample dimension 20 x 20    Square footage 400.

3. NATIONAL STUDENT ASSOCIATION - Office to hold four desks and a storage closet. The NSA is a large, active, service organization which, among other things, conducts the Foreign Student Summer Project at the Institute. During the summer months it requires a very large meeting room.

   Sample dimensions 16 x 22    Square footage 400.
4. ATHLETIC ASSOCIATION - This is the administrative center of all athletic activities at the Institute. The A.A. would prefer to be located in a new proposed gymnasium but until such quarters become available a location in the Student-Alumni Center, close as it is to the existing athletic facilities, would be desirable. They require a suite of offices as follows:

a) Reception Room
b) Director's Office - square footage 200.
c) Asst. Director's Office - square footage 200.
d) General office to accommodate president's desk, two desk and file cabinet for the treasurer, one desk and file cabinet for equipment manager, one desk for publicity manager and one desk for Nautical Association. - square footage 450.
e) Manager's room.

5. NAUTICAL ASSOCIATION - one desk in Athletic Association Office.

(See Part D under activity 4, above.)

GROUP B:

It is recommended that these activities be located in the basement of the building.

6. ASTRONOMY CLUB - Workroom with direct door connection to darkroom. Desirable to be near shops but must have tight fitting door to keep dust out. - square footage 400.

7. OUTING CLUB - Office and large storage closets. The outing club has 125 paid members but expects only 30 to its meetings. They sponsor the "Lauletaans" (song fests) at which visitors from other schools join the group in a large gathering. Considering this it might be best to place the office and storage area in the basement as suggested and make regular social lounge space available for the Lauletaan.

8. MODEL AIRCRAFTERS - Small workroom to accommodate large soft-topped table. This is a small hobby club. - square footage 100.
GROUP C

The activities in Group C share either a common dark room, a common function, or both.

9. WMT - broadcasts a full schedule daily.

Office and reception room with record shelving - sq. footage 200.
Two studios and common control room - sq. footage 450.
(Third studio with separate control room highly desirable.)
Newsroom for teletype, desk, large bulletin board. - sq. ftq. 150.
Storage closet for bulky, valuable equipment - sq. footage 50.

A small electrical shop is also required for parts construction.

10. The Tech - Newsroom, managing board office and joint editors' office. This place is a beehive of activity twice a week before press time. Sample dimensions 20 x 40. Square footage 800.

11. VCO OCO - publishes monthly, needs large work space with a small enclosed office. Sample dimensions 20 x 40. Square footage 300.

12. Ten - a monthly publication which is expanding its facilities to service the growing audio lines on campus. Needs small office and large workroom, storage and file cabinets, wash basin, many electrical outlets and must be near freight elevator.

13. Technique - large working space for eight desks. Enclosed closet and cupboard on one end and enclosed office at the other. This is the school yearbook. Its large staff handles a great deal of paper and photographic work.

Sample dimensions 20 x 40 Square footage 800.

14. Darkroom - for the exclusive use of the publications. Should be entered through a small ante room with storage shelves.

Sample dimensions 10 x 20 Square footage 200.
GROUP 0:

Miscellaneous Activities.

15. Combined Musical Clubs - This group combines all the campus musical organizations and coordinates their paper work, stores their equipment (instruments and sheet music). Requires a business office with three desks and many file cabinets. - Square footage 300.

16. Tech Show - business office, two desks and files. Other needs will be satisfied by the facilities of the new auditorium. - 200 sq.ft.

17. Drama and Staff Players - Small office with one desk and file cabinet. This group will also use the auditorium. - sq. footage 150.

18. WIVK - Office, one desk, file cabinet. Meeting space only is required since their broadcasting equipment cannot be moved near Massachusetts Avenue and will be left in Westgate. - sq. footage 150.

19. Tau Beta Pi - Combined office space for two desks.


21. Scabbard and Blade - Combined office with two desks.


23. Alpha Phi Omega - Combined office with three desks.

24. Lecture Series Committee - Square footage 250.

25. Motor Sports Club - Business office with two desks. Office space only is required since the group's meetings require a very large room. - Square footage 200.

26. Science Fiction Society - Office and book storage room with single desk, file cabinet and book shelves. This group stores a great many books making a private office desirable no matter how small it may be. Sample dimensions 3 x 10 - Square footage 30.

27. Religious Activities Business Office - Four desks and file cabinets, bookcases, room for additional furniture, office partitions.
These groups (Technology Catholic Club, Hillel Foundation and the Inter-Varsity Christian Fellowship) might be best placed near the religious counseling services and the religious library.

Activities not allocated space in the Student - Alumni Building:

1. Professional societies and professional publications - An examination of the requests received indicated that the professional societies requesting space did so only because they do not have adequate facilities within their own departments. In the opinion of the committee, the best interests of the professional societies would be served if this condition were remedied and they remained located within their respective departments.

2. Model Railroad Club - This organization needs a very large area for its equipment. It could be included in the Student-Alumni Center only at the exclusion of other activities. For this reason the committee is of the opinion that workspace for the Model Railroad Club should not be included.

3. Slider Club - A large space for storing and painting gliders was requested. The committee feels that this type of activity in the scale carried on by the Slider Club is of an unsuitable nature to be carried on in the Student-Alumni Center.

Meeting Room Facilities *

Two meeting rooms, each the size of the present Litchfield Lounge (i.e. 30 x 50) would be necessary as a minimum requirement. This would be in addition to the room provided for meetings of Student Government. These rooms should include conference tables for about 20 persons.

* Again, these are the recommendations. For the analyses and considerations that led to these recommendations see Addendum, Appendix C.
at one end, and a group of easy chairs and sofas at the other. This would make the rooms suitable both for formal meetings and small informal gatherings. In addition, such rooms would have sufficient flexibility within themselves to allow for larger group meetings when necessary. (Up to 50 people at times.) The rooms will not be used for casual student lounging as are the present Walker Memorial facilities since additional areas shall be provided expressly for that purpose. Therefore these rooms may be equipped with blackboards and other facilities necessary for efficient organizational meetings.

In addition, two small meeting rooms are needed. With small conference table handling 10 - 12 people, these rooms will serve the small committees and organizations which currently tie up the larger rooms unnecessarily.

Finally, one very large meeting room is necessary. For large meetings, smokers, fraternal or religious meetings, this room could accommodate about 75 people, either standing around or seated audience-style on folding chairs. Projection facilities, blackboard space and special equipment such as a small organ, spotlights and controlled lighting, numerous electrical outlets and a movable altar would make this room suitable for the religious societies and the fraternal organizations such as DeMolay. With a small kitchen and ante room to one side, the room could also fill the request of Prof. Klaus Liepmann for an after-concert reception room. Approximate size: 35 x 70.

II. Social and Recreational Space Allocations.

The space devoted to social and recreational activities should form the heart of the Student-Alumni Building. It is here that the building is for the entire MIT community, as individuals, and here
IT MUST SATISFY THE LESS TANGIBLE BUT VERY REAL NEEDS OF THE COMMUNITY
BY PROVIDING A CHANGE OF ATMOSPHERE AND A PLACE OF RELAXATION. IT IS HERE
THAT THE BUILDING FINALLY BECOMES A TRUE COMMUNITY CENTER.

THE COMMITTEE'S RECOMMENDATIONS DIVIDE THE SOCIAL AND RECREATIONAL SPACE INTO THREE GENERAL AREAS AS FOLLOWS:

1. Game Rooms
   - Bowling Alleys
   - Pool and Ping-Pong Tables, etc.
   - Eating Facilities

2. Hobby Shops
   - Wood Working Shop
   - Electric Shop
   - Metal Working Shop
   - Poster Making Shop
   - Photographic Darkroom

3. Lobby and Lounges
   - Lobby and Exhibition Gallery
   - Main Lounge
   - Periodical Library
   - Religious Library
   - Commuter Room
   - Eating Facilities and Other Social Space.

GAME ROOM:

The game room should include ping-pong tables, pool and billiard tables and bowling alleys, plus either a small snack bar or vending machines. The exact space necessary and the specific requirements of the game room merit a more detailed study. Such a study must consider that some of these facilities are provided to a limited extent in the dormitories and fraternities. For this reason it has been suggested that the game room might include the less common and foreign table games which are not available elsewhere. The room must be situated and administered in such a way that it will be easily available for a few minutes relaxation without prior planning on the part of the student. This room should be open at all times that the building itself is open.
HOBBY SHOP:

The hobby shops form an important and neglected field of the less organized areas of extra-curricular activities. The Student-Alumni Center would provide the ideal place to coordinate and centralize them, including some which though not presently provided have been proven necessary. The specific shops should include a wood working shop, an electric shop, a metal working shop, a poster making room and a photographic darkroom. All should be available for the general use of anyone connected with V.I.T.

Both of the above areas (game room and hobby shops) and most of the rest of the Center could well be serviced by vending machines. These would save money, provide a small source of income for the building, and be more convenient and practical than any other system.

LOBBY AND LOUNGES:

A main entrance of the building should open into a reception and exhibition lobby. This lobby should have a light but reserved atmosphere, suitable for meeting people, acting as an approach to the other parts of the Center and housing certain suitable services.

Probably somewhat centrally located and most important of these services will be the reception desk and secretary, perhaps doubling as secretary to the building administrator. She would handle such things as the present T.C.A. ticket service, an information center and news desk, and certain commercial services such as Western Union and perhaps a florist's service.

Another prominent part of the lobby might be a small exhibition gallery. This gallery would be easily accessible and of an informal nature. Exhibits would be of general interest to the student body and might well include student work itself.
It has been suggested that music from the music library be broadcast softly through the lobby and certain other parts of the building. This would pose no problem since MIT, which rebroadcasts this music, is also situated in the building.

The area on the second floor overlooking the plaza should be set aside as an unreservable space which the MIT family might most use and appreciate. This is the main lounge where the atmosphere that will make the building meaningful must be captured. This is the place that graduates should most remember and alumni return to. It should be both spacious and intimate, airy, modern and comfortable.

PERIODICAL LIBRARY:

At one end of the main lounge a reading room containing current periodicals and newspapers from all sections of the country should be located. No backlog need be kept here, just current publications for those wishing to read magazines, etc.

RELIGIOUS LIBRARY:

A religious library should be placed close to the T.C.A. office and religious counseling rooms. It is very possible that a TCA secretary could handle what little librarian's work is necessary. No formal librarian need be maintained for either the periodical or religious libraries. Both of these rooms should be quiet, comfortable and well-lit with emphasis on proper study conditions.

EATING FACILITIES:

An area is required which can serve as a lunchroom for those with box lunches, though so designed that it can also serve as general lounge space, or small dance area as well. This space is to be large enough to service a large portion of the commuter population and shall contain a fountain and snack bar. It would be desirable to have direct
access to the lunchroom from Massachusetts Avenue or the Plaza so that it would be easy to stop in and pick up a coke on the way to classes.

**Commuter Room:**

A special overnight room for the use of the commuters had been suggested by the committee but the author has taken the liberty of striking out this requirement, after the commuters themselves indicated that they would prefer to retain and expand their present facilities located in the educational buildings.

**Other Social Space:**

In addition to the above, the Student-Alumni Center might offer at least one large television room, several reservable party rooms of varying sizes (these can be the meeting rooms mentioned earlier in the program) and a secluded study area.

**III. Commercial Space Allocations**

The size, type and location of the business establishments to be placed within the Student-Alumni Center have been determined first on the basis of service to the student body, and secondly to the entire MIT family. The first move was to investigate the commercial establishments in and around the Hennessy Block on Massachusetts Avenue. The second was to make a survey of the student body to determine which businesses were deemed essential and how existing businesses might be improved if they were to be placed in the center.

**Store Survey:**

The managers of each business were interviewed and asked what they would require of a new location. This included the amount of space needed and the best position relative to Massachusetts Avenue. They were also asked what percentage of their trade came from MIT. The following short paragraphs treat each business individually.
Walton's cafeteria needs 3,000 square feet for eating, 240 for serving and cooking and 420 for storage. The manager did not feel that frontage on Massachusetts Avenue was necessary and estimated that ninety percent of his trade comes from MIT.

Larry's Barber Shop would need 300 square feet of service area and 320 square feet of storage. The manager estimated that 85 percent of his trade came from MIT and that a Massachusetts Avenue frontage was unnecessary.

The Record Shop needs 1,350 square feet of space. The owner estimated that 100 percent of his trade comes from MIT and that a Massachusetts Avenue frontage was desirable though not absolutely necessary. If the owner is assured of a specific volume of trade, at least equal to the present volume, he is willing to effect some sort of merger with the Coop. He would still maintain separate and distinct ownership, but would give the discount return on excessive profits.

The World Tire and Auto Company needs 205,000 square feet of space and a Massachusetts Avenue frontage. 5,000 square feet of this area would be used for actual sales to a trade estimated at 70 percent MIT trade.

The Tech Pharmacy needs 4,000 square feet for display and sales with another 1,500 to 2,000 square feet for storage. An estimated 99.9 percent of their trade is MIT trade and the owner feels that a Massachusetts Avenue frontage would be desirable since much of his business comes off the bus stop.

The Harvard Cooperative Society (The Coop) has 5,000 square feet of sales space and 6,000 of storage. It needs at least this much and
INDICATED READY WILLINGNESS TO ADD NEW DEPARTMENTS.

STUDENT SURVEY: *

RELATIVE IMPORTANCE OF COMMERCIAL ESTABLISHMENTS AS RATED BY MEMBERS OF THE:

<table>
<thead>
<tr>
<th>DORMITORIES</th>
<th>FRATERNITIES</th>
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</thead>
<tbody>
<tr>
<td>1. The Coop</td>
<td>1. The Coop</td>
</tr>
<tr>
<td>2. Drug Store</td>
<td>2. Post Office</td>
</tr>
<tr>
<td>5. Barber</td>
<td>5. Record Shop</td>
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<tr>
<td>8. Record Shop</td>
<td>8. Sporting Goods</td>
</tr>
<tr>
<td>10. Laundry</td>
<td>10. Package Store</td>
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RECOMMENDATIONS:

THE COMMITTEE RECOMMENDS THAT THE FOLLOWING STORES OR SERVICES BE INCLUDED IN THE BUILDING:

1. The Coop
2. Drug Store
3. Grocery
4. Post Office
5. Barber Shop
6. Cleaner & Tailor
7. Record Shop
8. Bank
9. Restaurant

THE COMMITTEE'S RECOMMENDATIONS FOLLOW THE RESULTS OF THE STUDENT SURVEY RATHER CLOSELY.

THE FIRST AND MOST IMPORTANT STORE IS THE COOP. THE COMMITTEE WANTS THE COOP EXPANDED TO INCLUDE A USED BOOK STORE, AN ENLARGED MEN'S WEAR DEPARTMENT, A HOBBY AND ART SHOP, A SPORTING GOODS

* SEE ADDENDUM, APPENDIX A, FOR STUDENT SURVEY.
DEPARTMENT AND A LARGER GIFT SHOP. THE SNACK BAR AND THE BARBER SHOP SHOULD BE ELIMINATED FROM THE COOP.

A DRUG STORE IS SECOND IN IMPORTANCE ON THE LIST. THE OWNER OF THE TECH PHARMACY SHOULD BE GIVEN CONSIDERATION IF HE SO WISHES. HOWEVER, HIS SERVICE SHOULD BE EXPANDED.

THIRD IN LINE IS A GROCERY-DELCATESSEN COMBINATION WHICH MIGHT SELL WINE AND BEER BUT NOT HARD LIQUOR.

FOURTH IS A POST OFFICE BRANCH.

FIFTH IS A BARBER SHOP WHICH COULD BE LARRY'S IF AN AGREEMENT CAN BE REACHED WITH HIM.

SIXTH IS A CLEANER-TAILOR COMBINATION WHICH MIGHT WELL BE AN AGENCY FOR SOME LARGE CONCERN.

SEVENTH IS A RECORD AND MUSIC SHOP, THE PRESENT OWNER DESERVING MUCH CONSIDERATION.

EIGHTH ON THE LIST IS A COMMERCIAL BANK WHICH WOULD PROBABLY BE A BRANCH OF A LARGER ORGANIZATION AND WHICH MUST HAVE SAVINGS ACCOUNT PLANS.

NINTH IS A PRIVATELY OWNED RESTAURANT SIMILAR TO THE NEWBURY STEAK HOUSE IN BOSTON. ALTHOUGH THIS ITEM PLACE FOURTEENTH ON THE STUDENT SURVEY, THE COMMITTEE FEELS THAT MANY STUDENTS WERE NOT AWARE THAT SMITH HOUSE AND HOWARD JOHNSON'S ARE DUE TO LEAVE WEST CAMPUS IN A FEW YEARS AND THAT THERE WILL BE A VERY GREAT NEED FOR A RESTAURANT ON CAMPUS THEN. IT IS RECOMMENDED THAT THE RESTAURANT BE PERMITTED TO SERVE COCKTAILS AND THAT IT REMAIN OPEN ON THE WEEKENDS.

THE COMMITTEE WISHES TO STRESS THAT IT DOES NOT RECOMMEND THAT FIFTH CURRENTLY IN THE HENNESSY BLOCK OF STORES BE TRANSFERRED TO

* SEE CHAPTER FIVE, ANALYSIS AND SOLUTION, FOR DISPOSITION OF DRUG STORE.

IV. AREAS FOR FUTURE STUDY *

There are several areas within the proposed Student-Alumni Center for which the Committee has not as yet devoted time for study. Some of these relate to actual physical spaces; others to the economic and administrative phases of the Center's operation. Only the former are included here.

ALUMNI CENTER:

It is the desire of the Committee that the building eventually become not only the focal point of undergraduate life on campus, but also the center of MIT Alumni activities here on campus and throughout the world. In this connection, it suggests for further consideration:

A. ALUMNI OFFICES - RECEPTION, INFORMATION AND ADMINISTRATIVE OFFICES WITH SUFFICIENT SPACE TO HOUSE ALL THOSE ALUMNI FUNCTIONS CURRENTLY ON CAMPUS (PUBLICTY OFFICE, ALUMNI FUND, DIRECTOR, ETC.) THESE OFFICES SHOULD ALSO INCLUDE A MEETING LOUNGE SIMILAR TO THE PRESENT HAYDEN LIBRARY LOUNGE, WHERE INFORMAL MEETINGS CAN BE HELD WITH LARGE OR SMALL GROUPS.

B. AN ALUMNI - FACULTY CLUB - SIMILAR TO THE SLOAN BUILDING'S FACULTY CLUB AND INTENDED SOLELY FOR THE USE OF THE ALUMNI, MEMBERS OF THE FACULTY AND THEIR FRIENDS.

C. HOTEL ACCOMMODATIONS - FOR THE ALUMNI AND THEIR GUESTS. THERE IS A DEFINITE NEED FOR TRANSIENT ACCOMMODATIONS ON CAMPUS, NOT ONLY FOR ALUMNI BUT FOR THE ENTIRE MIT FAMILY AND ITS ACTIVITIES.

* See Chapter Five, analysis and solution, for explanation of this.
M.I.T. has long needed a means of extending its hospitality to "Friends of the Family"; returning alumni, visiting teams, students' guests, visiting or exchange professors and guests of the administration. This will necessitate many varied types of accommodations ranging from inexpensive dormitories for visiting teams, to more elaborate rooms and suites for the alumni and other guests (similar to the facilities offered to MIT visiting professors at the California Institute of Technology). The committee could not venture a guess as to the suggested nature or number of these accommodations at the present time, but it strongly feels that such facilities should eventually become part of the Student-Alumni Center.

ROOFTOP RATHSKELLER:

A bonafide college beer garden. This could conceivably become the most popular single area in the center, offering a place for one to bring his date after a concert or lecture on campus, or as a gathering place for students after hours. Perhaps no other feature could do as much to achieve that salient goal of the Center on campus. Even if open only on weekends and/or evenings, a better setting for the "congenial social integration of the MIT student body" could hardly be anticipated. This feature is high on the committee's list of "areas for future study".

Other physical areas which might be desirable in the future include:

AN ART WORKSHOP: - A place where students outside of the professional courses in art can exercise their talents.

MUSIC PRACTICE ROOMS: - Small areas where someone inside or outside of
ANY FORMAL MUSICAL ORGANIZATION ON CAMPUS CAN PRACTICE AN INSTRUMENT WITHOUT DISTURBING HIS NEIGHBORS.

OFFICE OF THE DEAN OF STUDENTS: - IT HAS BEEN SUGGESTED THAT THE ENTIRE STAFFS OF THE DEANS OF MEN AND WOMEN MIGHT BEST BE LOCATED IN THE STUDENT'S BUILDING, RATHER THAN IN THE LESS PERSONAL EDUCATIONAL BUILDINGS.
CHAPTER FOUR
THE SITE

The choice of site for the new center hinged primarily upon the Institute's long range plans for campus development. It is proposed to eventually locate all aspects of undergraduate life, including the dormitory and fraternity systems on West Campus, leaving the area East of Massachusetts Avenue for the educational plant and the Graduate Student Community.

In this connection, Eero Saarinen, architect of MIT's new Auditorium and Chapel, conceived a design for a plaza, central to the daily circulation of all undergraduate students, upon which he placed the auditorium, the chapel, and a third, unidentified building, necessary for the visual completion of the plaza design. The early Baker Memorial Committee and the current Student Union Committee seized upon this location on the north side of the plaza as ideal for a student center.

However, the author sought to exhaust the other possibilities on campus before merely accepting the indicated site. After a brief study, it seemed that only a single, more desirable site could be found on campus - the site of the present Graduate House. It was felt that a location on the corner of Massachusetts Avenue and Memorial Drive could add to those advantages as centrality and proximity to the plaza, the additional features of a magnificent Charles River Basin site, with its broad river views and a commanding position on the approach to MIT from Boston across the Harvard Bridge. However, there is apparently no possibility that the present Graduate House structure may be removed within any conceivably contemporary period of time and so, the plaza site was recognized as best and in the interests of presenting the Student Union Committee with a proposal free from any real difficulties...
(if possible) The site on the north end of Saarinen's plaza was accepted for this thesis study.

Coincident with Mr. Saarinen's plan for the West Campus plaza development, and essential to its ultimate success, is a proposal to create a through traffic underpass on Massachusetts Avenue, from Memorial Drive on the south, to Albany Street, beyond the Boston and Albany Railroad tracks on the north. A wide bridge would then cross Mass. Avenue at a level approximate to the present grade, connecting the plaza with the main MIT entrance at 77 Massachusetts Avenue. This would then become the major link between East and West Campuses; between the educational plant and the undergraduate student body, its residences, its social, athletic and cultural centers. The Great Plaza with its auditorium, chapel and Student-Alumni Center, would then become the very real focus of the campus.

The Institute has long sought such an underpass for Mass. Avenue, and in the fall of 1952, it submitted pertinent legislation to the Commonwealth of Massachusetts. At this late date, no final action has been taken on the plan, but the legislature has embarked upon a study of the proposed construction. With the results of the study not expected for quite some time to come, it is difficult to predict whether or not there shall eventually be such an underpass. However, present MIT thinking includes the underpass in campus development plans and until the Institute no longer considers it a strong possibility, it seems safe to assume that there shall be one.

This, then yields a site with the plaza on the south, a depressed roadway on the east, and three major athletic buildings (The Armory, Rockwell Cage and Briggs Field House) on the north and west. *

* See chapter five, analysis and solution, for gymnasium facilities.
The site is absolutely flat having been used for tennis courts and parking fields in the past. It is bare of landscaping except for small patches of grass and two beautiful rows of trees; a stand of 12 stately poplars, probably leafy Carolina poplars, (they are not the Lombardy variety) some of which stand 40 to 50 feet high. These are spaced 20 - 25 feet apart in a row parallel to and 90 feet from the southern wall of the armory. There is also a row of four very young deciduous trees about 15 - 20 feet high along the service drive behind the Hennesey block of stores.

This Hennesey block and the front portion of the armory are scheduled for demolition with the construction of the proposed underpass and so, neither of them have been considered as existing boundaries for this site. Therefore the site extends almost 400 ft from Briggs to Vass. Avenue along the east-west direction, and about 260 ft from the plaza to the armory in the north-south direction.

The soil itself is man-made soil or fill, which promises foundation problems. In addition, the water table is quite high, approximately 7 - 10 ft below grade. Heavy waterproofing measures can be expected for any structures below grade.

The site is presently used as a parking field for Institute personnel, a service area for the Hennesey block and the armory, and as the main access to Rockwell Cage.

* Based upon construction conditions found elsewhere on MIT's campus.
CHAPTER FIVE
ANALYSIS AND SOLUTION

The proposed center presents a complex planning problem both from within and from without, for in addition to an unbelievably diverse set of requirements inside the building, there must also be imposed an equally challenging group of outside limitations on the design of the building itself.

Visually, the building must contend with the spectacular contours of the Auditorium, the flat rolls of Rockwell and the Armory, the additional round forms of the Chapel and the domes of Buildings Seven and Ten. If it is to complement the Auditorium and Chapel grouping on the Plaza, it must present a quiet simple background against which Saarinen's forms can be played. It would not be enough, however, to merely erect a simple slab as a "backdrop" and let it go at that., for the building also has a responsibility to the other side of the site, framed by Briggs, Rockwell and the Armory and should in addition, have an integrity of its own which, the Author strongly feels, must be achieved through a use of space in and around the building - a mere parallelepiped volume will not be enough. In the Author's opinion, it is fundamental that the building achieve a complete change in outdoor space as one passes through it from the broad, magnificent Plaza to, by way of counterpoint, a quiet contrast in color, texture and scale. To accomplish this I have arranged the building around a comfortable garden which may be reached with ease from the Plaza. To aid in this contrast between the two spaces, I have kept the Center at approximately present grade, some five feet below the level of the Plaza. This accomplishes two very important aims; it punctuates the feeling of change from the high, brightly
LIT, MONUMENTAL PLAZA TO THE LOWER, COOLER, SOFTER GARDEN, AND IT
PERMITS ME TO PENETRATE THE NORTH WALL OF THE PLAZA FOR A BUILDING
ENTRANCE WITHOUT DISTURBING THE SIMPLE FACE OF THE BUILDING - ONCE
AGAIN MAINTAINING A CALM FACADE ON THE PLAZA TO ENRICH THE ENJOY-
MENT OF SAARINEN'S CURVES.

THE NORTH SIDE OF THE CENTER IS QUITE ANOTHER STORY AGAIN. HERE
THE CENTER MUST EXERT SOME PLAYFULNESS OF ITS OWN, NOT ONLY TO REFLECT
THE NATURE OF THE COMMUNITY CENTER, BUT ALSO TO COMPLIMENT THE PLAY
OF ROOF CURVES ON ROCKWELL AND THE ARMORY. EVERYTHING FROM FLAT SLABS
TO DOUBLE CANTILEVERED ARCH AND GABLE FORMS WERE TRIED HERE AND THE
AUTHOR FINALLY SETTLED ON A SERIES OF CONCRETE ARCHES ACTING AS A
SCALE MODULATION OF THE BARRELS ON ROCKWELL AND AS A FOIL AGAINST THE
SOWHAT OPPRESSIVE EXPANSE OF THE ARMORY'S ROOF.

THE ROW OF POPLARS FIT RIGHT INTO THIS SCHEME, FORMING
A NEAT BORDER TO THE NORTH SIDE OF THE GARDEN AND SHIELDING THE WINDOWS
OF THE CENTER FROM THE ARMORY.

THE GARDEN ITSELF MIGHT BE ARRANGED ABOUT A FOUNTAIN AND
POOL OR A SCULPTURE COURT TO FURTHER DECREASE ITS APPARENT SIZE. ALTHOUGH
NO THROUGH TRAFFIC MOVES ACROSS THIS GARDEN, KEEPING IT GREEN AND LUX-
URIOUS, IT IS RESCUED FROM AN IDLE FATE BY RUNNING HEAVILY TRAFFICKED
ARCADIES ON THREE SIDES OF IT. THESE SERVE TO FRAME THE GARDEN AND AT
THE SAME TIME BECOME THE MAIN PATHS OF CIRCULATION TO ROCKWELL, THE
ARMORY AND THE STORES.

THE STORES REQUIRED A GREAT DEAL OF SPACE THAT SIMPLY WAS
UNAVAILABLE IF THE GROUND PLANE WAS TO BE LEFT FREE FOR GARDENS AND
LOUNGES AND THE LIKE. THEREFORE I HAVE STACKED THEM IN TWO LAYERS (THREE,
IF ONE COUNTS THE BASEMENT) AND SERVICED THEM ALL IN THE MOST DIRECT
MANNER, WITH A SINGLE DRIVE OFF VASSAR STREET. WITH MASSACHUSETTS AVENUE NOW A DEPRESSED ROADWAY, THERE IS NO LONGER ANY QUESTION OF VASS. AVENUE FRONTAGE. THE CRITERIA BECOME SERVICE FROM VASSAR STREET AND ACCESSIBILITY FROM THE PLAZA CIRCULATION. THE STORES AS ARRANGED HERE ARE JUST OFF THE PLAZA — NOT ON IT — WHICH WOULD HAVE SEEMED A VIOLATION OF THE NATURE OF THE PLAZA. THIS WAY THE PLAZA ACCENTS THE CULTURAL, SPIRITUAL AND SOCIAL LUXURIES ON CAMPUS WITH THE OBVIOUS NECESSITIES STILL ACCESSIBLE WHERE YOU WANT THEM.

A WORD ON THE STORES THEMSELVES: — WITH Duplications of function undesir Able in this building, there would be no snack bar in the drug store. The present Tech Pharmacy draws most of its trade from its fountain service and the author seriously questions whether a mere pharmacy and drug store can be supported sufficiently by a community as small as WIT. (The store would receive little outside trade.) Therefore, I have eliminated the drug store as an independent unit and have added the space to the Coop for a full-faced pharmacy and drug department.

The bank and post office also seemed overrated. One doubts that full branches of either could be supported here; only the minimum service is really required (such as is now available in the Personal Deposits Office — plus a savings account plan — or as in the Building 24 Post Office). Both require little actual desk or counter space but need room for queues during rush periods. Therefore, I have combined the two into a single space allocation although they will, of course, remain separate functions.

Of late, an increasing clamor has arisen for expanded athletic facilities on campus. The Institute has already stated that it anticipates no new gymnasium construction for several years, but it extends the possibility of acquiring the rear portion of the Armory for this purpose (the front portion of the Armory will be removed to make room for the underpass...
on Massachusetts Avenue. The remaining structure is a perfectly admirable steel arch frame with a simple wood roof and non-load bearing side walls which could be punched through or removed entirely to admit more light to the floor. Because of what seems its extreme likelihood, the author has merely assumed that the armory will be acquired as a new gymnasium. Any studies of mine showing a somewhat changed armory building as a gymnasium are merely careless suggestions of what might be done. I have been careful, however, to arrange direct access to the "gym" by a choice of routes making it possible for the new center and gymnasium to work together at a large athletic event or dance. This might be especially convenient since the center does not include a large dancefloor. (None was deemed necessary in view of the remaining facilities at Walker Memorial and the possibility of using the floor of a new gymnasium.)

In considering the "stage" building program suggested by the committee, the author was careful to note the real meaning of "areas for future study". These were so designated because the committee hasn't as yet examined them fully, not because they would necessarily be built at a later date. Therefore I have not hesitated to include the Rathskeller, the exhibition gallery and some of the suggested offices in the early stages of building. However, the hotel, alumni headquarters and club probably will come at a later date, if at all, and so they have been so arranged as to be added later in the form of additional floors to the main portion of the building. The remainder of the building constitutes the "initial stage".

TECHNICAL CONSIDERATIONS:

Taking a hint from the other buildings done recently on campus, which have proven most economical, I have chosen concrete as my structural
MATERIAL. THIS PERMITS THE ADVANTAGES OF CONTINUITY WHEN DESIGNING THE STRUCTURE AND PERMITS GREATER ADAPTABILITY WHERE CHANGES IN THE FRAMING SCHEME TAKE PLACE (SUCH AS THE CONCRETE ARCHES, LONGER CLEAR SPANS, ETC.) THIS ALSO PERMITTED ME TO USE MY SPANDREL BEAMS FOR SUPPORT SAVING MANY CUBIC FEET OF SPACE BY CURTAILING THE PERCENTAGE OF VERTICAL HEIGHT DEVOTED TO STRUCTURE ALONE. IN THE TYPICAL BAY, USING SPANDREL BEAMS ON COLUMNS 20 FEET APART AND SPANNING 24 FEET FROM SPANDREL BEAM TO SLAB BAND, ONE ACHIEVES A TOTAL FIN. CLG. TO FIN. FL. HEIGHT OF 13 1/2 INCHES. THIS EMPLOYS A PANT SYSTEM (ONE WAY) 10" DEEP WITH A 2 1/2" SLAB PLUS FINISH CEMENT FLOOR. AGAIN, USING SPANDREL BEAMS, IT IS POSSIBLE TO SPACE THE FLOOR BEAMS AS CLOSE AS 48 INCHES O.C. OR LESS WHERE NECESSARY GIVING A DEPTH OF ONLY 20 INCHES FOR A 48 FOOT SPAN (REMOVING A COLUMN IN A CLEAR SPACE). COMPARE THIS WITH ORDINARY T-BEAMS SPACED 20 FEET APART AND 36 INCHES DEEP, USING NO SPANDREL BEAMS.

THE ELECTRICAL CONDUITS CAN BE RUN THROUGH THE 2 1/2 INCH SLAB, WHICH MAY BE LESS FLEXIBLE BUT FAR LESS EXPENSIVE IN INITIAL COST - ONE DOESN'T REALLY NEED THE FLEXIBILITY OF EXPENSIVE ELECTRICAL DUCT SYSTEMS IN A BUILDING OF THIS TYPE.

JUST A FEW BRIEF DETAILS NOW TO INDICATE HOW THE BUILDING MIGHT TAKE SHAPE:

THE FOUNDATIONS (ON MADE SOIL) WILL PROBABLY HAVE TO BE HUGE SPREAD FOOTINGS SINCE FLOATING FOUNDATIONS ARE IMPRACTICAL FOR THIS BUILDING. FLOATING FOUNDATIONS REQUIRE THAT THE BUILDING ACT AS A RIGID BOX. THE BASEMENT AND LOWER FLOORS OF THIS BUILDING ARE TOO WIDE-OPEN TO ACHIEVE SUCH RIGIDITY.

HEAVY WATERPROOFING WILL BE REQUIRED OF THE FOUNDATIONS BUT IT ALWAYS IS WHEN BUILDING ON THIS CAMPUS SO IT SHOULD POSE NO SPECIAL
THE CONCRETE STRUCTURAL FRAME WILL BE SHEATHED IN GLASS
(POSSIBLE THERMOPANE ON THE NORTH FACADE) WITH PORCELAIN ENAMELLED
STEEL PANELS ON HONEYCOMBED INSULATING CORES COVERING THE SPANDRELS.
COLOR GLAZED BRICK MAY BE EXPRESSED IN THE ELEVATIONS WHERE FIRE STAIRS
OR ELEVATORS OCCUR AND AT ACCENT POINTS SUCH AS FIREPLACES AND END WALLS.
PAVING IN THE LOBBY AND THE GARDEN SHALL BE BLUESTONE AND
SQUARE LIGHT BLUE CERAMIC TILES SET IN SPECIAL WATERPROOF MASTIC
SHALL BE USED ON THE ROOF DECKS OF THE RATHSKELLER AND THE ALUMNI CLUB.
THESE SHALL ALSO BE USED TO SHEATH THE CONCRETE ARCHES OVER THE STORES
AND RATHSKELLER AND ALUMNI CLUB.

THE BUILDING SHALL BE COMPLETELY HEATED AND COOLED BY FORCED
AIR USING A SPLIT SYSTEM AS FOLLOWS:- RECIRCULATED AIR BLOWN THROUGH
PLENUMS ABOVE THE CORRIDORS AND PICKED UP AGAIN IN THE CORRIDORS, PLUS
OUTSIDE AIR INTRODUCED THROUGH FAN-COIL UNITS UNDER THE WINDOWS. IN
THE LARGE ROOMS THIS MAY BE MODIFIED TO AN ALL RECIRCULATION SYSTEM USING
Ducts in a hung ceiling. MOVABLE SASH SHALL BE PROVIDED IN THE OFFICES.
THIS SYSTEM IS ESPECIALLY ECONOMICAL WHEN ONE HAS ISOLATED AREAS IN
A BUILDING SUCH AS OFFICES BEING USED AT NIGHT. MOST STUDENT OFFICES
WILL BE USED PRIMARILY AT NIGHT. THESE MAY DEPEND UPON MOVABLE SASH AND
THEIR INDIVIDUAL FAN COIL UNITS FOR SERVICE AFTER THE REST OF THE SYSTEM
HAS BEEN SHUT OFF FOR THE NIGHT. STEAM SUPPLY FOR THIS SYSTEM COMES
FROM MIT BUILDINGS AND POWER DIVISION SO NO BOILER ROOM IS REQUIRED.

INCIDENTALLY, NO REPAIR SHOP IS REQUIRED FOR THE BUILDING
SINCE BUILDINGS AND POWER HANDLES THIS TOO.

WITH LIGHTING SET INTO THE PANS OF THE STRUCTURAL SYSTEM,
WE HAVE A BUILDING WITH VERY FEW HUNG CEILINGS, EFFECTING A GREAT SAVING
IN THE TOTAL COST OF CONSTRUCTION. LIGHTING UNDER THE ARCHES IN THE
STORES WILL TAKE THE FORM OF FLUORESCENT LIGHT BARGES COVERING LESS
THAN 50 PER CENT OF THE FLOOR AREA. SOFT INDIRECT LIGHTING WILL WASH
THE SURFACES OF THE VAULTS ACCENTUATING THE SPACE THEY CREATE ABOVE THE BARGES.

LIGHTING IN THE LOUNGES SHALL STRESS LOCAL INCANDESCENT LIGHTING FROM FLOOR AND TABLE LUMINAIRES TO ACHIEVE GREATER INTIMACY IN THE FURNITURE GROUPINGS. THE GENERAL LEVEL OF ILLUMINATION SHALL BE TAILORED TO THE CHARACTER DESIRED IN THE ROOM.

ACOUSTICAL ISOLATION PROBLEMS HAVE BEEN MINIMIZED IN THIS BUILDING EFFECTING GREAT SAVINGS IN THE OVER-ALL COST.

THE BOWLING ALLEYS ARE LOCATED IN THE BASEMENT, LAID ON SIMPLE 2 x 4's OVER RIGID FIBERGLAS INSULATION. ½ TO 2 INCHES OF ABSORPTIVE MATERIAL BEHIND PERFORATED SHEETS OF METAL OR MASONITE SHOULD BE APPLIED TO THE UNDERSIDE OF THE BALCONY OVER THE BOWLING ALLEYS. THIS WILL ABSORB ALMOST ALL OF THE DISTURBING NOISES OF THE BOWLING IMPACT BEFORE THEY REACH THE OPEN WELL IN THE BARGE ROOM.

IN THIS STUDY, RADIO STATION WIT HAS NOT BEEN ISOLATED FROM THE REST OF THE STRUCTURE OF THE BUILDING. WHILE SUCH ISOLATION WOULD BE IDEAL FOR ANY UNIT DESIRING COMPLETE DETACHMENT FROM THE SOUNDS OF THE OUTSIDE WORLD, WIT'S OPERATIONS NEITHER REQUIRE NOR WARRANT SUCH CAREFUL TREATMENT. THE AUTHOR HAS BEEN THE STATION'S CHIEF ANNOUNCER FOR THE PAST TWO YEARS AND HAS ALSO BEEN A GUEST AT OTHER COLLEGE RADIO STATIONS IN MASSACHUSETTS. THESE ARE STUDENT ORGANIZATIONS SERVING A WELL-PERFORMED FUNCTION, BUT IT WOULD BE RIDICULOUS TO INVEST IN FACILITIES EQUAL TO OR SUPERIOR IN QUALITY TO THOSE OF THE GREAT RADIO NETWORKS, FOR THESE GROUPS. THE BEST TREATMENT CONSISTENT WITH ECONOMY FOR THESE STUDIOS WOULD BE TO ISOLATE THEM FROM EACH OTHER AND LOCATE THEM IN A NORMALLY QUIET PART OF THE BUILDING.

BEYOND THIS, THE ACOUSTICAL CONSIDERATIONS IN THE BUILDING ARE REDUCED TO LOCAL ROOM ACOUSTICS BEYOND THE REALM OF THIS STUDY.

MAINTENANCE OF THE BUILDING MIGHT WELL BE DONE IN PART BY THE STUDENTS WHICH SHOULD SERVE AS A CONSIDERATION WHEN LOCATING JANITORIAL
FACILITIES IN THE BUILDING.

Freight facilities have been clustered at one end of the building near a driveway surfaced in gravel and intended only for the infrequent use of MIT trucks making deliveries to the buildings.

If deemed necessary, the locker windows of Briggs Field House can be protected by a slight cover which could be so designed as to allow light in, view out, but no view in from the office windows in the center.

IN CONCLUSION:

The author sincerely hopes that this building, together with its companions in cultural, social and athletic facilities, may one day be realized in one form or another, for the greater enjoyment of the Y.I.T. family.
1. Rank 12 of the following stores or services in the order in which you would like to see them included in a student union building.

**Dormitory**

1. The Coop
2. drug store *
3. grocery & delicatessen
4. post office branch
5. barber *
6. cleaner and tailor
7. book store (new & second hand) *
8. record and music shop
9. a commercial bank
10. laundry service
11. sporting goods and hobby shop
12. shoe repair
13. men's apparel store #
14. privately owned restaurant
15. package store
16. hardware store
17. general gift shop *
18. hand shirt laundry
19. florist service
20. watch repair service

**Fraternity**

1. The Coop
2. post office branch
3. drug store *
4. book store (new & second hand) *
5. record and music shop #
6. a commercial bank
7. barber
8. sporting goods and hobby shop
9. cleaner and tailor
10. package store
11. grocery and delicatessen
12. general gift shop #
13. hardware store
14. shoe repair
15. laundry service
16. privately owned restaurant
17. hand shirt laundry
18. florist service
19. watch repair service
20. men's apparel store (should be discounted due to typographic error) *

* more than 5% preferred combining it with The Coop
# more than 5% preferred removing it from The Coop

**OTHERS**

- bar
- house of ill repute
- radio shack
- camera store
- art store
- optician
- shoe store
- airport

- cocktail lounge
- speed shop
- telegraph office
- radio shack

2. Since space for religious counseling and a religious library will not be included in the new chapel, would you be in favor of including these in the student union?

**Dormitory** 59.7% Yes  
**Fraternity** 50.8% Yes  
**Combined** 56.4% Yes
3. Considering the existing dance areas: Walter recreations and Baker House, and that the new student union will provide several small dance floors, would you like to see a large dance floor included in the student union building as well?

Dormitory 59.0% Yes  Fraternity 54.8% Yes  Combined 56.7% Yes

At the possible sacrifice of other recreational or activity facilities?

Dormitory 15.9% Yes  Fraternity 16.7% Yes  Combined 17.2% Yes

4. Realizing that the individual forms and fraternities may provide some of these game facilities, would you like to see the following in the student union building?

ping pong tables
Dormitory 54.8% Yes  Fraternity 69.2% Yes  Combined 66.5% Yes
pool and billiard tables
Dormitory 70.7% Yes  Fraternity 74.6% Yes  Combined 72.2% Yes
bowling alleys
Dormitory 74.2% Yes  Fraternity 78.0% Yes  Combined 78.3% Yes

5. Were you aware before receiving this questionnaire that plans were being made to build a student union building?

Dormitory 76.1% Yes  Fraternity 64.4% Yes  Combined 73.6% Yes

6. Considering the plans for the development of West Campus as the center of undergraduate activities, do you feel there is a need for such a building?

Dormitory 95.3% Yes  Fraternity 82.3% Yes  Combined 90.5% Yes

7. Other schools have raised a portion of their student union funds by soliciting students. Do you believe this method should be tried at M.I.T.?

Dormitory 47.6% Yes  Fraternity 39.7% Yes  Combined 45.6% Yes

8. If this was tried, would you make an individual contribution?

Dormitory 59.6% Yes  Fraternity 57.0% Yes  Combined 66.0% Yes
ADDENDUM

APPENDIX B
FROM THE PAGES OF THE TECH

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Student Union Committee Submits Completed Reports

The Institute Committee has approved the completed Student Union report, and has given it its formal support. The report and preliminary plans for the center will be on display during Open House on Wednesday, May 8. They are part of the Bachelor's Thesis of Martin Cohen, '54, who has been working on the life of the center for another year. In the meantime, the Institute has formally recognized the need for a center for community recreation, under the leadership of the Student Union Committee. The Institute also approved theplan for a new Student-Alumni building, drawn up by a fifth-year architecture student in cooperation with the Student Union Committee. The building will be shown to the public for the first time at the Open House. This building is envisioned as incorporating all undergraduate activities, as well as the alumni headquarters, in one central location. The Institute Committee is now officially on record as supporting such a building.

As a reminder that the Institute is continually advancing forward, prospective plans for a new Student-Alumni building, drawn up by a fifth-year architecture student in cooperation with the Student Union Committee, will be shown to the public for the first time at the Open House. The building is envisioned as incorporating all undergraduate activities, as well as the alumni headquarters, in one central location. Tentative plans call for this building to form the north wall of the plaza which will contain the auditorium and the chapel.

On Wednesday, the Institute Committee approved the report of the Student Union Committee, and is now officially on record as supporting such a building.
DISCLAIMER

Page has been ommitted due to a pagination error by the author.

( Pages 44-45)
ADDENDUM

APPENDIX C
ON MEETING ROOM FACILITIES
The meeting rooms in the student union would be a very functional and necessary part of the building. In keeping with the attempt to maintain a balance between activity, commercial and social space, these rooms would be useful both for social space and for activity requirements. They would, of course, be open for use by anyone in the student body and we would expect that they would accommodate many small social events of the section student-facility tea magnitude. In short, they could be used by any group of students for any reasonable purposes.

Probably the bulk of the use of the rooms would come from the organized activities, however. Very many of them would hold weekly meetings in these rooms as a regular event, considering the use of them as necessary for the continuance of the organization. Below is indicated the use that is made of the present meeting room facilities in Walker Memorial, and we would expect that the use of these would be expanded in the new building because of the greater emphasis that would be focused on the social use of the rooms and the greater use that would result from improved facilities in the rooms themselves.

Past Use Records

To give an idea of the range of present use of meeting rooms in Walker Memorial, the following is a list of activities that used the rooms over a typical three-week period and approximate attendance:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Use</th>
<th>Lay</th>
<th>Chinese Students Club</th>
<th>Czecho-Slovakian Club (2)</th>
<th>Dorm. Com. constitutional Com. (2)</th>
<th>De Molay</th>
<th>Christian Science Organization (2)</th>
<th>Institute Committee</th>
<th>Beaver Key (2)</th>
<th>Judicial Committee</th>
<th>Arnold Air Society</th>
<th>Senior Week Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logarithms (twice weekly)</td>
<td>6</td>
<td>3</td>
<td>Q Club</td>
<td></td>
<td>Walker Student Staff</td>
<td>20</td>
<td>Alpha Phi Omega</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Secretariat (weekly)</td>
<td>13</td>
<td>13</td>
<td>T.C.A.</td>
<td></td>
<td></td>
<td>15</td>
<td>Athletic Association</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>Outing Club (2)</td>
<td>30</td>
<td>30</td>
<td>Alpha Phi Omega</td>
<td></td>
<td></td>
<td>25</td>
<td>Activities Council</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>15</td>
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<tr>
<td>Technique</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Musical Clubs</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>15</td>
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<tr>
<td>Chinese Students Club</td>
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<td></td>
<td>Dormitory Committee</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>Czecho-Slovakian Club (2)</td>
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<tr>
<td>Dorm. Com. Constitutional Com. (2)</td>
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<tr>
<td>De Molay</td>
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<tr>
<td>Christian Science Organization (2)</td>
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<td>25</td>
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<tr>
<td>Institute Committee</td>
<td>30</td>
<td>30</td>
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<tr>
<td>Beaver Key (2)</td>
<td>30</td>
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</tr>
<tr>
<td>Judicial Committee</td>
<td>6</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Arnold Air Society</td>
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<td></td>
<td></td>
<td>30</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senior Week Committee</td>
<td>17</td>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

A typical week's schedule might look like this:

<table>
<thead>
<tr>
<th>Day</th>
<th>Litchfield Lounge</th>
<th>Tyler Lounge</th>
<th>Studio Lounge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon.</td>
<td>5:00 Secretariat</td>
<td>5:00 Logarithms</td>
<td>5:00 Chinese Students</td>
</tr>
<tr>
<td></td>
<td>7:00 Dorm. Com.</td>
<td>7:30 Outing Club</td>
<td></td>
</tr>
<tr>
<td>Tues.</td>
<td>4:00 Junior Dance</td>
<td>7:30 Technique</td>
<td>5:00 Musical Clubs</td>
</tr>
<tr>
<td></td>
<td>Com.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5:00 Dorm. Const. Com.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7:30 Beaver Key</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed.</td>
<td>5:00 Inst. Com.</td>
<td>5:00 Logarithms</td>
<td>7:30 Athletic Assoc.</td>
</tr>
</tbody>
</table>
Recommendations

From considering the facilities in the Institute buildings themselves (i.e. Student-Faculty Lounge, individual course common rooms, etc.), and from the past use of the meeting rooms in Walker Memorial, the committee feels that at least two meeting rooms, including the Institute Committee meeting room provided for under the student government, or of about the same size as Litchfield Lounge (i.e. 50 x 30) would be necessary as a minimum requirement. According to the activity desires, these rooms should include a regular conference table to accommodate about 20 individuals at one end, and a group of easy chairs and sofas at the other end. This would make the room suitable either for a regular formal meeting or for a small informal gathering. What’s more, the extra space would make the room expandable enough so that larger meetings could be held. We do not have to worry about making the rooms suitable for casual student lounging, since lounges of this sort would be included elsewhere in the building; hence we would recommend that the rooms be given all facilities necessary for the efficient running of meetings (e.g. blackboards, which are frequently missed by organizations in the present facilities).

From the past use of the meeting rooms, we find that frequently a small committee or organization will use a room designed for a much larger group. To take care of these groups, we recommend that two smaller conference rooms be provided in the new building. These rooms would probably be most efficient with just a small conference table to accommodate 10 or 12 individuals. If space were severely limited, perhaps the unassigned offices might be used for these rooms, as the space would then be about right; however, it would be extremely desirable to have these conference rooms as a permanent part of the student union, since then expansion will be all the more possible.

In addition to these small meeting rooms, it is felt that one large meeting room is necessary. This would be for the purpose of large meetings, smokers of various activities at which many freshmen would be present, and any other gathering of that size. About 75 people should be able to be accommodated comfortably in such a room, either standing around or sitting, audience-style on folding chairs, which would be part of the permanent equipment of the room. Other facilities in the room should include blackboard space and projection facilities for either movies or slides.

It would be desirable to have this room for fraternal and religious meetings, since no other space has been provided for that purpose. A suggested arrangement would be a 70 x 35 or larger room, with an anteroom off to the side for storage, lockers, etc. According to our requests, necessary facilities would include a lighting system with a rheostat for dimming the lights during certain rituals, numerous electrical outlets along
the baseboards, including some rear where an organ might be placed, a
spotlight over a place where a movable altar would be placed, and a couple
of small desks. These special additions to the room would in no way
detract from its use as a regular meeting room, and would add a great
amount of potential use from the religious societies. A small kitchen
off to the side would also increase the convenience of the room for special
gatherings or refreshments after meetings.

Note: This room would specifically fill the needs of De Volay, which has
offered to contribute an organ and other items to its furnishings. It
would also fill the request of Professor Klaus Liepmann for an after-concert
reception room.
APPENDIX D

ACTIVITY AND ORGANIZATIONAL SPACE REQUESTS.
SECTION II

ACTIVITY AND ORGANIZATIONAL SPACE ALLOCATIONS

Organization Requests

The following survey was made in the fall of 1953 and revised in January, 1954, as a follow-up to the original survey of the Baker Memorial Committee made the previous year. The results of the Baker Memorial Committee survey on space allocations are known only as they have been interpreted and appear in the student union drawings of Haio Win Shih. The purpose of this second survey was to determine if a year later these drawings still accurately represent the space allocation desires of the various student activities.

The following information was gathered by individually interviewing the presidents of all the activities which have indicated that they desire space in the proposed student union building.

The report itself is divided into three sections:

Student Government Organizations
Other Activities Allocated Space in Win Shih's Drawings
Activities Not Allocated Space in Win Shih's Drawings

Wherever possible, the information under each activity has been further broken down as follows:

NEED: Here we have a brief outline of the space requests of the activity president. (Usually this is in terms of the number of pieces of furniture.) This represents only the request of the activity president and should under no circumstances be interpreted as the recommendations of this committee.

USE: A statement on the functions of the activity that will be carried on in its office space plus any additional information relating to the activity's size, frequency of office use, etc.

WIN SHIH's drawings do or do not provide satisfactory space.

STUDENT GOVERNMENT

SECRETARIAT:

NEED: A long counter for reception purposes with a permanent secretary's desk. Three or four additional desks, four or more file cabinets, and storage space for sundry secretariat supplies (possibly under reception counter). In addition, there is need for access to a small room and a small room with mimeograph and hectograph equipment.

USE: Serves as general information center and heart of student government activities.
FINANCE COMMITTEE:

NEED: A private office capable of comfortably accommodating at least four desks and a large work table; storage space for secretariat equipment. Two file cabinets.

USE: Routine paper work and bookkeeping.

PUBLIC RELATIONS COMMITTEE:

NEED: Space for four desks and a large work table. One or two file cabinets, and supplies storage space.

USE: Mailing activities, letter writing, poster work. Committee numbers about ten.

BAKER MEMORIAL COMMITTEE:

NEED: One drawer in file cabinet.

FRESHMAN COORDINATING COMMITTEE:

NEED: One drawer in file cabinet.

INSTITUTE COMMITTEE:

NEED: Large meeting room with central table seating twenty to thirty members. Desirable for room to be able to accommodate from ten to fifty spectators.

USE: As the top student government body, Incom meets once every two weeks. Room could also be used for other meetings.

WIN SHIH’s plans do not, in general, provide adequate space or suitable arrangements for student government.

EXECUTIVE COMMITTEE OFFICE:

NEED: Private office (to be entered from Secretariat office) with desk and three or four extra chairs.

OTHER ACTIVITIES ALLOCATED SPACE IN WIN SHIH’S DRAWINGS

TECH MODEL AIRCRAFTERS:

NEED: Large table along a wall with top that can be pinned into.

WIN SHIH’s space generous. This is a small hobby club.
GLIDER CLUB:

NEED: A very large amount of space for storage of gliders and sailplanes and for repairing and building gliders. The club presently suffers from having to store its gliders outdoors.

WIN SHIH's space could suffice as a bare minimum if they had access to a large storage area somewhere else in the building.

FLYING CLUB:

NEED: Office with at least three desks.

USE: Carry on regular business operations, selling, billing, etc. Also must have room available for monthly meetings to accommodate up to seventy-five people. Weekly meetings in office averaging a dozen persons.

WIN SHIH's plans adequate.

THE TECH:

NEED: Managing Board Office, Business Office, news room, and joint office for three sub-editors.

WIN SHIH's space fulfills bare minimum requirements if partition is added nine feet from west wall for joint editor's office. It would be highly desirable to lengthen entire room.

VOC DOC:

NEED: Small office secluded from working space. Do not need dark room.

WIN SHIH's space generally satisfactory.

TECHNIQUE:

NEED: A big room (22 x 40) with a closet (5 x 11) and a cupboard (5 x 11) at one end. At the other end a partition to enclose a space 15 x 22. 6 - 8 desks would be necessary. Also necessary to be near darkroom.

USE: Present space is in Walker.

WIN SHIH's space is satisfactory.

TEN:

NEED: Small office and large workroom. Workbench, storage and file cabinet, wash basin, many electrical outlets, access to freight elevator essential. Request outside windows.
WMIT:

NEED: Office and reception room with record shelving. Two studios controlled jointly by a single glassed engineering booth. (A third studio desirable) One news room for teletype machine, typewriters and large bulletin board. Safe storage space for much expensive equipment.

USE: Daily broadcasting. Seventy-five to one hundred staff members. All rooms require acousticizing.

WIN SHIH's space allocation adequate, but arrangement of studio not ideal.

WLMX:

NEED: Meeting space only is needed since equipment will be left at present site in Westgate. Broadcasting equipment cannot be located near Massachusetts Avenue. One desk will suffice.

USE: WLMX has thirty-five members, but expects only ten to fifteen at meetings. They are now held in 10-275.

WIN SHIH's space allocation is satisfactory

LECTURE SERIES COMMITTEE:

NEED: Two desks, would prefer private office.

WIN SHIH's space represents a bare minimum.

DEBATING SOCIETY:

NEED: One desk and file cabinet.

USE: Society averages twenty-five members and presently meets once a week in a classroom. Many office activities are carried out in office of advisor.

OUTING CLUB:

NEED: Office to replace building 18 office. It should include big equipment closets, one or two desks and a big table.

USE: Used as office, storage room, and meeting room. There are one hundred twenty-five paid members, but only thirty expected at meetings.

WIN SHIH's space is satisfactory.

MOTOR SPORTS:

NEED: Office space only, since meetings require very big rooms. Two desks are needed.
ASTRONOMY:

NEED: Require easy access to darkroom, would like direct door connection. Desirable to be next to shops, but must have tight fitting doors to keep dust out. Would prefer being in basement if above conditions were also satisfied.

WIN SHIH's drawings would be ideal if the whole shop end of the building was in the basement and if there was a door between the darkroom and the astronomy room.

MUSICAL CLUBS:

NEED: Business office to accommodate three desks. (Other needs will be satisfied with auditorium facilities.)

USE: This group combines all musical organizations. It coordinates paper work of these organizations and stores equipment.

WIN SHIH's space allocation over adequate.

TECH SHOW:

NEED: Business office to hold two desks and file cabinet. (Other needs will be satisfied with auditorium facilities.)

WIN SHIH's drawings over adequate.

TCA:

NEED: A large room the size of present office (25 x 40) to hold five or six desks. Built-in-bookshelves for used book exchange service and travel folders are necessary. In addition would like a work room for mimeographing equipment with a metal topped table and a sink. Storage closets for equipment (projectors, etc.) are essential. Would not object if some functions were taken over by other student government facilities.

USE: This, largely a service organization. It employs three or four full-time secretaries. The office is a scene of heavy foot traffic.

WIN SHIH's space represents minimum.

NSA:

NEED: Office should accommodate four desks and be located near student government offices. Desire access to large meeting room during summer months, which should be located near office.
USE: The MIT NSA participates actively in the national association. It maintains contacts with other schools and frequently conducts student polls. During the summer session it becomes the center of the FS3P (Foreign Student Summer Project) at the Institute.

WIN SHIH's space grossly inadequate.

ACTIVITIES NOT ALLOCATED SPACE IN WIN SHIH'S DRAWINGS

INTERFRATERNITY COUNCIL (IFC)

NEED: About 25 square feet of floor space to accommodate two desks, filing cabinets, and a couple of extra chairs.

DORMITORY COMMITTEE:

NEED: One desk and two filing cabinets. Meeting room once every two weeks.

5:15 CLUB:

NEED: Satisfied with facilities in Walker Memorial

HONORARY SOCIETIES:

Alpha Phi Omega: one desk
Tau Beta Pi: one desk and two filing cabinets, preferably private office.
Scabbard and Blade: half of an office
Pershing Rifles: half of an office for desk and filing cabinet.

ATHLETIC ASSOCIATION:

NEED: Suite of offices as follows:
- Reception Room 500 sq. ft.
- Director's office 200 sq. ft.
- Asst. Director's office 200 sq. ft.
- General Office - president's desk 100 sq.
treasurer, two desks and file cabinet 140
equipment manager, desk and file cabinet 100
publicity manager, desk 100
Managers' Room 600 sq. ft.
Total square footage = 1500 sq. ft.

USE: This is the administrative center of all athletic activities of the Institute.

NOTE: The AA would prefer to have all offices located in the new (proposed) gym facilities if this will be possible.
NAUTICAL ASSOCIATION:

NEED: Desk, but would prefer to have it in the AA Office.

PROFESSIONAL SOCIETIES:

Institute of Food Technologists: one lockable desk.

American Society of Mechanical Engineers: desk, chair, and filing cabinet

American Institute of Electrical Engineers - Institute of Radio Engineers: space for three large filing cabinets and one large desk.

American Foundryman's Society and American Institute of Mining and Metallurgical Engineers: desire to share office.

PROFESSIONAL PUBLICATIONS:

NEED: Office with three desks:
   a) desk to be shared by Secretary and Treasurer of Hexalpa
   b) desk to be used by General Manager of "Sparks"
   c) desk to be used by editor of "VI-A News"

SCIENCE FICTION SOCIETY:

NEED: Very small private office with a desk, file cabinet, and bookshelves. Request room 4 feet by 5 feet.

USE: Store a great many books, and feel for this reason it would be desirable to have a private office, no matter how small.

RELIGIOUS ACTIVITIES:

Technology Catholic Club: three desks in office

Hillel: one desk, filing cabinet, bookcase, bulletin board

Inter-Varsity Christian Fellowship: one desk

NOTE: Their plans all hinge on whether they receive suitable space in the chapel of the auditorium.

DRAMA AND STAFF PLAYERS:

NEED: Small business office.