The references included were drawn from the documents received and processed to date by the ERIC Clearinghouse on Educational Facilities, and are organized into the following sections—(1) guidelines and concepts in campus planning, (2) planning the urban college, (3) mathematical and computer aids in campus planning, (4) the architect and college buildings, (5) planning the physical plant, and (6) further bibliographies in campus planning. (FS)
PLANNING IN HIGHER EDUCATION

An Interpretive Bibliography in Six Parts

: Part II

CAMPUS PLANNING
PLANNING IN HIGHER EDUCATION
An Interpretive Bibliography

Part II
CAMPUS PLANNING

Prepared By
Norman P. Isler
Subject Area Coordinator

The work presented herein was performed pursuant to a contract with the U.S. Office of Education, Department of Health, Education, and Welfare (OEC-1-7-070883-5095)

ERIC Clearinghouse on Educational Facilities
The University of Wisconsin
Madison, Wisconsin
November 1969
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ERIC/CEF is part of a national network of 19 clearinghouses each covering a different field of educational research. The information from all these clearinghouses is reported monthly in Research in Education (RIE), a publication of the U.S. Government Printing Office (annual subscription: domestic $21.00, foreign $26.25).

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Howard E. Wakefield
Director

November 1969
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<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
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<tbody>
<tr>
<td>Guidelines and Concepts in Campus Planning</td>
<td>2-8</td>
</tr>
<tr>
<td>The first three references contain guidelines meant to assist individuals responsible for comprehensive campus planning. The latter four deal with current trends in campus planning in various regions of the U.S. and in Great Britain.</td>
<td></td>
</tr>
<tr>
<td>Planning the Urban College</td>
<td>10-12</td>
</tr>
<tr>
<td>Two opposing concepts and their resulting problems are included in this section, urban renewal and infill.</td>
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<tr>
<td>Mathematical and Computer Aids in Campus Planning</td>
<td>14-18</td>
</tr>
<tr>
<td>Mathematical techniques for enrollment projection, the use of the systems approach, and the computer in campus planning are the subjects of these five references. While the techniques are discussed with a particular institution in mind, they are applicable to other institutions.</td>
<td></td>
</tr>
<tr>
<td>The Architect and College Buildings</td>
<td>20-24</td>
</tr>
<tr>
<td>Human behavior and its effects on architectural planning is the subject of two references. The purpose is to facilitate the design of buildings which are better suited to human needs. Three additional references relate to communications between educators and campus planners on the one hand, and architects and engineers on the other.</td>
<td></td>
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<tr>
<td>Planning the Physical Plant</td>
<td>26-32</td>
</tr>
<tr>
<td>The problems of change in instructional goals, methods and devices, and the equally vital problem of the accommodation of ever-increasing numbers of students are described in these references. The concept of flexibility is the common theme. Also treated is the responsibility of central planning offices on college campuses with regard to new construction, and the need for communications between the physical plant staff and the architect.</td>
<td></td>
</tr>
<tr>
<td>Further Bibliographies in Campus Planning</td>
<td>34-36</td>
</tr>
</tbody>
</table>
GUIDELINES AND CONCEPTS IN CAMPUS PLANNING
THIS PUBLICATION IS DESIGNED TO ASSIST IN SOUND PLANNING AND DEVELOPMENT OF SENIOR COLLEGES. WHILE NOT A CAMPUS DESIGN MANUAL, IT STRESSES BASIC CONSIDERATIONS AND STEPS WHICH MAY PREVENT COSTLY AND LASTING ERRORS. THE GENERAL AREAS DISCUSSED ARE--(1) NEED FOR A MASTER PLAN--DETERMINATION OF NEED AND STEPS IN ESTABLISHING A NEW COLLEGE, (2) VARIABLES INVOLVED IN FINANCING A NEW COLLEGE--INITIAL AND ULTIMATE STUDENT ENROLLMENT, CURRICULUM, STUDENT-FACULTY RATIO, COUNSELING SERVICES, STUDENT RESIDENCE ARRANGEMENTS, PHYSICAL EDUCATION AND SPORTS FACILITIES, ESTIMATED OPERATING COSTS OF FINANCIAL SUPPORT, ESTIMATION OF CAPITAL CONSTRUCTION COSTS, AND (3) PITFALLS IN PLANNING A NEW COLLEGE--NOTED ARE LACK OF CLARITY AS TO NEED AND PURPOSE, SLAVISH MODELLING OF OTHER COLLEGES, FAILURE TO INVOLVE THOSE RESPONSIBLE FOR THE OPERATION OF THE COLLEGE IN THE PLANNING, FAVORITISM TO SPECIAL INTERESTS, ARCHITECTURAL NOVELTY, AND INADEQUATE FINANCING. CASES ARE CITED TO ILLUSTRATE SOME OF THE POINTS DISCUSSED. AN ANNOTATED BIBLIOGRAPHY IS INCLUDED. (HH)
GUIDELINES FOR PLANNING IN COLLEGES AND UNIVERSITIES VOLUME ONE, PLANNING SYSTEM

BY PINNELL, CHARLES AND WACHOLDER, MICHAEL
COORDINATING BOARD - TEXAS COLLEGE AND UNIVERSITY SYSTEM, AUSTIN
PUBLISHED - JAN 68
212 PAGES

DESCRIPTORS - COLLEGE PLANNING, EDUCATIONAL OBJECTIVES, FACILITY GUIDELINES, HIGHER EDUCATION, MASTER PLANS, ANCILLARY SERVICES, FINANCIAL NEEDS, LAND USE, PHYSICAL FACILITIES, PROGRAM BUDGETING, PROGRAM PLANNING, TRAFFIC CIRCULATION

THE FIRST IN A FIVE-VOLUME SERIES, A SYSTEM FOR EFFECTIVE, CONTINUING PLANNING IN INSTITUTIONS OF HIGHER EDUCATION IS PRESENTED. MANAGEMENT AND PROGRAM PLANNING, PHYSICAL PLANT PLANNING, AND FINANCIAL PLANNING ARE ALL INTEGRATED INTO ONE INDIVIDUAL PROCESS. THE IMPORTANCE OF COMPETENT PLANNING BASED UPON QUANTITATIVE DATA IS STRESSED. A TOP LEVEL POSITION RESPONSIBLE TO THE CHIEF ADMINISTRATOR SHOULD BE CREATED TO COORDINATE ALL ASPECTS OF THE PLANNING OPERATION. RATHER THAN INDIVIDUAL DEPARTMENTAL ENDEAVORS THE PLANNING PROCESS IS DESCRIBED AS A TOTAL UNIVERSITY PLAN SUBJECT TO ANNUAL UPDATING AND REVIEW. THE ORGANIZATION AND ADMINISTRATION OF A UNIVERSITY PLANNING DEPARTMENT IS OUTLINED. THE VOLUME CONTAINS NUMEROUS FLOWCHARTS AND GRAPHS. (NI)
THE NEW CAMPUS IN BRITAIN—IDEAS OF CONSEQUENCE FOR THE UNITED STATES

BY- DOBER, RICHARD P.
EDUCATIONAL FACILITIES LABORATORIES, NEW YORK, N. Y.

PUBLISHED- 65

075 PAGES


A REVOLUTION IN PLANNING WAS TRIGGERED BY A REPORT OF THE SPECIAL COMMITTEE ON EDUCATION WHICH INVESTIGATED THE AVAILABILITY OF PLACES IN RELATION TO STUDENT ENROLLMENT PREDICTION. SIX NEW UNIVERSITIES WERE CONSTRUCTED AS A RESULT WITH AN EMPHASIS ON DESIGN. THE DESIGN WAS DEVELOPED TO HELP SOLVE THE DILEMMA OF "BELONGING" AT LARGE INSTITUTIONS. THIS WAS DONE BY DEVELOPMENT OF THE CONCEPT OF A CONTINUOUS TEACHING ENVIRONMENT. THIS CONCEPT DESCRIBES A PHYSICAL FORM THAT PRESERVES COMMUNICATION AND CONTACT BETWEEN ALL PARTS OF THE INSTITUTION WHILE ALLOWING EXTERNAL ACCRETION AND INTERNAL CHANGE. ITS ESSENTIAL FEATURES ARE GEARED TO—(1) CONFORMITY WITH EDUCATIONAL PHILOSOPHY OF MAXIMUM INTERDISCIPLINARY CONTACT, (2) INTEGRATION OF LIVING AND WORKING AREAS, (3) SEPARATION OF VEHICULAR AND PEDESTRIAN WAYS, (4) LARGELY SELF-SUFFICIENT URBAN COMMUNITY, (5) OPTIMUM CONTRAST BETWEEN DEVELOPMENT AND SURROUNDING SITE, (6) A 24-HOUR UNIVERSITY, AND (7) OPPORTUNITY OF LIMITLESS EXPANSION. PHOTOGRAPHS AND DIAGRAMS ILLUSTRATE THIS CONCEPT IN THE CASE OF EACH OF THE SIX INSTITUTIONS. THIS DOCUMENT IS AVAILABLE FROM EDUCATIONAL FACILITIES LABORATORIES, INC., 477 MADISON AVENUE, NEW YORK, NEW YORK 10022. (HH)

Availability:
Educational Facilities Laboratories, Inc.
477 Madison Avenue
New York, New York 10022
WHAT IS HAPPENING TO THE CAMPUS (A BRIEF REVIEW OF MANY INDIVIDUAL'S OBSERVATIONS ON HOW PHYSICAL FACILITIES FOR HIGHER EDUCATION ARE CHANGING IN RESPONSE TO NEW NEEDS)

BY- BRUBEKE, CHARLES WILLIAM PERKINS AND WILL, ARCHITECTS, CHICAGO, ILL.

PUBLISHED-APR68

13 PAGES

DESCRIPTORS- *BUILDING INNOVATION, *CAMPUS PLANNING, *DESIGN NEEDS, *EDUCATIONAL CHANGE, AUDIOVISUAL AIDS, COMMUNITY COLLEGES, COMMUNITY DEVELOPMENT, COMPUTERS, LEARNING PROCESSES, SCHEDULING, STRUCTURAL BUILDING SYSTEMS, URBAN AREAS, URBAN UNIVERSITIES

TRENDS IN CAMPUS PLANNING ARE DEVELOPED IN TERMS OF CHANGING EDUCATIONAL METHODS AND SOCIAL DEMANDS. MAJOR TOPICS COVERED ARE--(1) RE-EVALUATING THE NATURE OF LEARNING, (2) THE EFFECT OF TECHNOLOGY, (3) THE CAMPUS AS A COMMUNITY CULTURAL-EDUCATIONAL CENTER, (4) THE COLLEGE AND THE URBAN CRISIS, (5) THE MULTI-LOCATION COLLEGE, AND (6) EDUCATIONAL BUILDING SYSTEMS. WITHIN THESE CONTEXTS, DESIGN RECOMMENDATIONS AND SUGGESTIONS ARE OUTLINED, AND GRAPHIC EXAMPLES ARE PROVIDED. (MM)////
CONTRASTING CONCEPTS IN CAMPUS PLANNING

MAYER, FREDERICK W.

PUBLISHED-AUG66
IN-SELECTED PAPERS FROM THE FIRST ANNUAL CONFERENCE SOCIETY FOR COLLEGE AND UNIVERSITY PLANNING PORTLAND STATE COLLEGE, PORTLAND, OREGON AUGUST 13-14, 1966

80 PAGES


Availability:
John D. Telfer, Executive Director
Society for College & University Planning
326 East Hoover Street
Ann Arbor, Michigan 48104
LONG-RANGE PLANNING IN HIGHER EDUCATION. PROCEEDINGS OF THE ANNUAL INSTITUTE ON COLLEGE SELF STUDY FOR COLLEGE AND UNIVERSITY ADMINISTRATORS (6TH, UNIV. OF CALIFORNIA, BERKELEY, JULY 6-10, 1964)

BY- KNERR, OWEN A., ED
WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION, BOULDER, COLO.

PUBLISHED-APR65

136 PAGES

DESCRIPTORS- *CAMPUS PLANNING,* COLLEGE PLANNING, *EDUCATIONAL CHANGE, *EDUCATIONAL PLANNING,* HIGHER EDUCATION, BIBLIOGRAPHIES, EDUCATIONAL ENVIRONMENT, EDUCATIONAL FINANCE, MASTER PLANS, SYSTEMS ANALYSIS

THE FOLLOWING ADDRESSES CONCERNING LONG-RANGE PLANNING IN INSTITUTIONS OF HIGHER EDUCATION ARE PRESENTED--(1) DESIGN AND CHANGE IN AMERICAN HIGHER EDUCATION, (2) PLANNING IN THE COLLEGE OR UNIVERSITY, (3) A CASE STUDY IN INSTITUTIONAL PLANNING, (4) THE INSTITUTION AND THE SYSTEM-AUTONOMY AND COORDINATION, (5) HOUSING THE EDUCATIONAL PROGRAM-THE PHYSICAL PLANT AS EDUCATIONAL ENVIRONMENT, (6) LONG-RANGE FINANCIAL PLANNING, (7) SYSTEM ANALYSIS IN PLANNING, AND (8) RESOURCES FOR PLANNING-A RESUME. SELECTIONS FROM THE DISCUSSIONS FOLLOWING EACH FORMAL ADDRESS ARE PRESENTED AS ARE SELECTED REFERENCES PERTAINING TO EACH PRESENTATION.

Order from EDRS as: ED 26847

MF $0.75 NL $5.90
PLANNING THE URBAN COLLEGE
CREATION OF A COLLEGE IN AN URBAN SETTING IS CONSIDERED WITH
EMPHASIS ON ITS DEVELOPMENT AS AN INTEGRAL PART OF THE
SURROUNDING AREA RATHER THAN AS A SEPARATE ENTITY. ALTHOUGH THE
REPORT IS BASED ON A PARTICULAR PIECE OF GHETTO LAND IN A
PARTICULAR CITY (BEDFORD-STUYVESANT SECTION OF NEW YORK CITY),
ITS IMPLICATIONS ARE NATIONAL IN SCOPE. PHYSICAL FEATURES OF THE
AREA, SUCH AS EXISTING BUILDINGS AND TRANSPORTATION FACILITIES,
ARE IDENTIFIED AND CONSIDERED WITH REGARD TO THE PLANNING OF A
COLLEGE. SUGGESTIONS ARE PRESENTED FOR IMPLEMENTATION OF A PLAN
 FOR CONSTRUCTION OF A COLLEGE BASED ON THE CONCEPT OF FILLING IN
VACANT SPACES IN THE AREA RATHER THAN ANNIHILATING TOTAL BLOCKS.
MAPS AND DIAGRAMATIC SKETCHES ARE INCLUDED WHICH ILLUSTRATE
POSSIBLE PLACEMENT AND DESIGN OF A COLLEGE CAMPUS IN THE AREA
STUDIED. AN ANNOTATED LIST OF OTHER REPORTS FROM EDUCATIONAL
FACILITIES LABORATORIES IS INCLUDED. (FS1/)
UNIVERSITY AND MUNICIPAL RELATIONSHIPS HAVE BECOME CRUCIAL. THE NEED FOR EXPANSION AND A COMPATIBLE COMMUNITY IS APPLICABLE TO CAMPUSES THROUGHOUT THE COUNTRY. SUCCESSES, HOWEVER, HAVE BEEN POSSIBLE ONLY WHEN THE TOTAL WEIGHT OF THE INSTITUTION HAS BEEN PUT TO THE TASK. THE URBAN RENEWAL PROCESS OFFERS TO UNIVERSITIES THE BENEFITS OF ASSISTANCE IN PUBLIC ACQUISITION WHICH COMES ONLY AS A RESULT OF OFFICIAL MUNICIPAL ACTION USUALLY ACCOMPANIED BY PROLONGED CONTROVERSY. UNIVERSITIES MUST TAKE THESE PLANNING RESPONSIBILITIES SERIOUSLY AND NOT DEAL WITH THEIR FUTURE ON AN AD HOC BASIS. ({NI})
PLANNING AND ACQUISITIONS PROBLEMS FOR A GROWING UNIVERSITY

BY: LEARN, ELMER W.
MIDWEST BUSINESS ADMINISTRATION ASSOCIATION, MINNEAPOLIS, MINNESOTA

PUBLISHED-APR 68

010 PAGES

DESCRIPTORS- COLLEGE PLANNING, COMMUNITY PLANNING, COMMUNITY RELATIONS, HIGHER EDUCATION, URBAN UNIVERSITIES, COMMUNITY COOPERATION, COMMUNITY ZONING, ECONOMIC FACTORS, ZONING

SOME TENTATIVE CONCLUSIONS BASED ON AN URBAN UNIVERSITY COMMUNITY PLANNING PROGRAM AND DEALING WITH THE CHARACTERISTICS OF UNIVERSITY COMMUNITIES. SPECIAL PROBLEMS ENGENDERED BY THESE CHARACTERISTICS AND METHODS TO COMBAT THESE PROBLEMS ARE PRESENTED. THE PROBLEMS DISCUSSED CENTERED AROUND PLANNING, LAND ACQUISITION, ZONING AND COMMUNITY RELATIONS. (HH)

Availability:
Elmer W. Learn
University of Minnesota
Minneapolis, Minnesota
MATHEMATICAL AND COMPUTER AIDS IN CAMPUS PLANNING
TECHNIQUES OF SYSTEMS ANALYSIS FOR UNIVERSITY PLANNING

BY- JUDY, RICHARD W AND LEVINE, JACK B

PUBLISHED- 68

AVAILABLE FROM- RICHARD W JUDY, PROFESSOR, DEPT OF ECONOMICS AND COMMERCIAL SCIENCE, UNIVERSITY OF TORONTO, TORONTO 5, ONTARIO

037 PAGES


A CHAPTER FOR A LARGER VOLUME WHICH DISCUSSES THE RISE OF THE MULTIUNIVERSITY AND THE POSSIBILITIES FOR PLANNING IN SYSTEMS ANALYSIS. THE SYSTEM DESCRIBED IS THE C.A.M.P.U.S. SYSTEM, AN ACRONYM FOR COMPREHENSIVE ANALYTICAL METHODS FOR PLANNING IN UNIVERSITY SYSTEMS. THREE SUBSYSTEMS ARE DISCUSSED- (1) PROGRAM PLANNING AND BUDGETING, (2) SIMULATION MODELS, AND (3) INTEGRATED INFORMATION SYSTEM. A VARIETY OF APPLICATIONS ARE SUGGESTED UNDER THE LATTER TWO CATEGORIES. (FPO)
IN A PILOT STUDY CONDUCTED TO PROVIDE BETTER INFORMATION FOR CAMPUS PLANNING, COMPUTER PROGRAMS WERE DEVELOPED TO ANALYZE DATA COLLECTED FROM STUDENT DIARIES. AREAS OF CONCERN INCLUDED—(1) TIME SPENT IN A SPECIFIC ACTIVITY, (2) TRAFFIC ACTIVITIES AND RELATED VARIABLES (COSTS, ETC.), AND (3) PROJECTION OF FUTURE CAMPUS ACTIVITY–SPACE RELATIONSHIPS AND THE RESULTING IMPLICATIONS OF VARIOUS ACTIONS PROPOSED BY THE PLANNERS. THE GOAL WAS TO MAXIMIZE THE BENEFITS FOR THE LEAST COST. THIS PAPER IS THE FINAL COPY OF A PAPER PRESENTED AT THE AIA ARCHITECT–RESEARCHERS' CONFERENCE, GATLINBURG, TENNESSEE, OCTOBER 24-25, 1967. (JT)
PLANNING THE CAMPUS BY COMPUTER (COMPUTER ACCOUNTS FOR CLASS AND NON-ACADEMIC SCHEDULES)

BY- MAITOX, ROBERT F.

PUBLISHED-MARCH
IN- ARCHITECTURAL AND ENGINEERING NEWS, MARCH 1968, VOL. 10, NO. 3, PP. 32-37

PROBLEMS OF CAMPUS PLANNING ARE DISCUSSED IN TERMS OF COMPUTER ANALYSIS OF SCHEDULED AND NONSCHEDULED ACTIVITIES. ESTIMATION OF SPACE NEEDS FOR SCHEDULED CAMPUS ACTIVITIES INCLUDES--(1) TOTAL ENROLLMENT, (2) DISTRIBUTION OF MAJORS, (3) DISTRIBUTION OF CLASS TIME TO DEPARTMENTS, (4) DEPARTMENT LOADS, (5) DISTRIBUTION TO LECTURE LAB, (6) DISTRIBUTION TO CLASS SIZE, AND (7) SUMMARY BY DEPARTMENT, CLASS SIZE OR ACTIVITY. THE DISCUSSION OF NONSCHEDULED ACTIVITIES INCLUDES RESEARCH USING STUDENT DIARIES OF ACTIVITIES, TIMES, AND LOCATIONS, WITH COMPUTER ANALYSIS AND PLOTTING OF DATA. COMPUTER PROGRAMS HAVE ALSO BEEN DEVELOPED TO SIMULATE THE CHANGING UNIVERSITY IN TERMS OF ITS SPACE AND ACTIVITIES. THE USE OF THE COMPUTER IN THE PLANNING PROCESS INCLUDES PROCESSING AND DISPLAYING INFORMATION, EXPRESSING RELATIONSHIPS OF COMPONENTS, MODELING CHANGES AND THE EFFECTS OF PLANNING DECISIONS. THIS ARTICLE APPEARED IN THE MARCH 1968 ISSUE OF ARCHITECTURAL AND ENGINEERING NEWS. COPIES MAY BE OBTAINED BY WRITING THE EDITOR, 51 UPPER MONTCLAIR PLAZA, UPPER MONTCLAIR, NEW JERSEY 07043. (MM)
ESTIMATES AND PROJECTIONS OF ENROLLMENT FOR THE UNIVERSITY OF
WISCONSIN AND WISCONSIN STATE UNIVERSITIES

BY LINS, L. J.
WISCONSIN COORDINATING COUNCIL FOR HIGHER EDUCATION, MADISON

PUBLISHED—MAR68

REPORT/SERIES NO.—CCHE NO. 4, 1968, MARCH 1968

040 PAGES

DESCRIPTORS—*COLLEGE PLANNING, *ENROLLMENT INFLUENCES,
*ENROLLMENT PROJECTIONS, *HIGHER EDUCATION, *STUDENT ENROLLMENT,
DATA ANALYSIS, ENROLLMENT TRENDS

ASSUMPTIONS, PURPOSES, AND FACTORS OF SHORT RANGE ESTIMATES
AND LONG RANGE PROJECTIONS ARE DISCUSSED. THE COMBINED RATIO
METHOD AND THE COHORT-SURVIVAL TECHNIQUES WERE PROCEDURES USED
FOR MAKING ESTIMATES AND PROJECTIONS OF STUDENT ENROLLMENT. THE
PROJECTION FOR THE STATE SYSTEM IS DISCUSSED IN TERMS OF
SUB-PROJECTIONS FOR UNDERGRADUATES, GRADUATES, INDIVIDUAL
CAMPUS, YEAR, UNIVERSITY OF WISCONSIN AT MADISON, LAW AND
MEDICAL SCHOOLS. IT IS EMPHASIZED THAT PROJECTIONS ARE NOT MERELY
HEAD COUNTS OF STUDENTS BUT THAT PROJECTIONS ARE BASED ON THE
BEST INFORMATION OF DATA ABOUT BIRTH AND SURVIVAL TO FRESHMAN IN
COLLEGE, ENROLLMENT BY CAMPUS, COHORT SURVIVAL EXPERIENCE, AND
DECISIONS RELATIVE TO THE CHANGING OF THE MIX OF STUDENTS OR TO
ESTABLISHING NEW CAMPUS. (HH)

Availability:
Wisconsin Coordinating Council for
Higher Education
732 North Midvale Blvd.
Madison, Wisconsin 53705
EDUCATIONAL FORECASTING AT THE UNIVERSITY OF AKRON

BY- GUZZETTA, D. J.

PUBLISHED-DEC62
IN- THE JOURNAL OF EXPERIMENTAL EDUCATION, VOL. 31, NO. 2, DECEMBER, 1962


FACULTY NEEDS WERE PROJECTED ON THE BASIS OF THE AVERAGE NUMBER OF STUDENT CREDIT HOURS THE FACULTY TAUGHT. IT WAS DISCOVERED THAT EACH FACULTY MEMBER TAUGHT TO AN AVERAGE OF 315 STUDENT CREDIT HOURS. THE TOTAL NUMBER OF STUDENTS IS DIVIDED BY 315 TO OBTAIN THE DEMAND FOR FULL-TIME FACULTY EQUIVALENTS. THE NEED FOR PHYSICAL FACILITIES WAS OBTAINED BY USING STANDARDS OF SPACE UTILIZATION WHICH SUMMARIZED THE USE OF ROOMS, STUDENT STATIONS, LABORATORIES, ETC. COMPILATION OF ALL AVAILABLE DATA ASSISTED THE UNIVERSITY IN PINPOINTING ITS FACILITIES NEEDS ON A PRIORITY BASIS BY TYPES OF BUILDINGS NEEDED. (N1)

Availability:
Dembar Educational Research Services, Inc
P.O. Box 1148
Madison, Wisconsin 53701
BEHAVIORAL RESEARCH FOR ARCHITECTURAL PLANNING AND DESIGN

BY WHEELER LAWRENCE

PUBLISHED 1967

AVAILABLE FROM: DEPT. OF BEHAVIORAL RESEARCH, EWING MILLER ASSOCIATES, 604 TRIBUNE BUILDING, TERRE HAUTE, INDIANA 47801

027 PAGES

DESCRIPTORS: ARCHITECTURE, BEHAVIOR PATTERNS, COLLEGE HOUSING, ENVIRONMENTAL RESEARCH, STUDENT NEEDS, CAMPUS PLANNING, DESIGN PREFERENCES, ENVIRONMENTAL CRITERIA, ENVIRONMENTAL INFLUENCES, FACILITY UTILIZATION RESEARCH, LIGHTING, PHYSICAL DESIGN NEEDS, STUDY HABITS, SURVEYS

OVER THE PAST EIGHT YEARS SEVERAL COMBINED BEHAVIORAL AND ARCHITECTURAL INVESTIGATIONS HAVE BEEN UNDERTAKEN BY EWING MILLER ASSOCIATES. ON THE BASIS OF DATA FROM ALMOST 1,500 UNIVERSITY STUDENTS, AN EXTENDED EXAMPLE OF SOME OF THE RESULTS OF THESE COOPERATIVE STUDIES IS PRESENTED. THE WORK CARRIED ON RELATIVE TO THE COLLEGE CAMPUS HAS DEALT MAINLY WITH THE PLANNING AND DESIGN OF RESIDENCE HALLS FOR USE BY STUDENTS, BUT COMPLETE CAMPUS PLANNING IS NOW BEING CARRIED OUT. MOST OF THE MATERIAL PRESENTED, HOWEVER, RELATES ONLY TO LIVING FACILITIES. MATTERS OF METHOD, PERFORMANCE AND PERCEPTION, AND MOTIVATION ARE TAKEN UP AS THEY OCCUR IN THE DESCRIPTION OF THE RESULTS. THESE EXAMPLES ATTEMPT TO MAKE SOME OF THE ABSTRACT FORMULATIONS OF THE INTRODUCTORY PAGES MUCH MORE REAL AND PRACTICAL. AT THE END OF THE REPORT, A TECHNICAL APPENDIX IS PROVIDED FOR THE READER WHO WISHES TO CONSIDER, IN DETAIL, THE GENERAL CONCEPTS THAT WERE THE BASIS OF THE BEHAVIORAL SURVEYS. SELECTED RESULTS OF THE SURVEY INVESTIGATIONS INCLUDE: (1) USE OF FACILITIES, (2) STORAGE SPACE REQUIREMENTS, (3) WINDOWS AND LIGHTING, (4) MECHANICAL SYSTEMS, (5) COLOR PREFERENCES, AND (6) GENERAL CONCLUSIONS.

Availability:
Dept. of Behavioral Research
Ewing Miller Associates
604 Tribune Building
Terre Haute, Indiana 47801
ACTIONS, OBJECTIVES AND CONCERNS (HUMAN PARAMETERS FOR ARCHITECTURAL DESIGN)

BY LAS WELL, THOMAS E. AND HEPPE, JACK DEASY AND BOLLING

PUBLISHED—JAN 9

100 PAGES

AN EXPERIMENT CONDUCTED AT CALIFORNIA STATE COLLEGE, LOS ANGELES, TO TEST THE VALUE OF SOCIAL—PSYCHOLOGICAL RESEARCH IN DEFINING BUILDING NEEDS IS DESCRIBED. THE PROBLEMS OF HOW TO IDENTIFY AND SYNTHESIZE THE DISPARATE OBJECTIVES, CONCERNS AND ACTIONS OF THE GROUPS WHO USE OR OTHERWISE HAVE AN INTEREST IN LARGE AND COMPLEX BUILDINGS IS DISCUSSED. AN EFFORT IS MADE TO FORMALLY RELATE THE TECHNIQUES AND KNOWLEDGE OF THE BEHAVIORAL SCIENCES TO THE ARCHITECTURAL DESIGN PROCESS, THE PURPOSE BEING TO PRODUCE BUILDINGS THAT ARE BETTER RELATED TO HUMAN NEEDS. THE PROCEDURES DESCRIBED CAN PROVIDE A TOOL FOR DEFINING THE OBJECTIVES OF PLANNING AND DESIGN. SECTIONS INCLUDE THE FOLLOWING—(1) STATEMENT OF PURPOSE, (2) THE CAMPUS, (3) OBSERVATIONAL DATA, (4) INTERVIEW DATA, (5) PROGRAM RECOMMENDATIONS, AND (6) SUMMARY AND CONCLUSION. APPENDIX A DEALS WITH THE SOCIAL PSYCHOLOGICAL MODELS FOR PROGRAMMING A STUDENT UNION. (RK)
COMMUNICATIONS IN CAMPUS PLANNING

BY WILLIAM S, PHILLIP C.
BUTTENHEIM PUBLISHING CORPORATION, NEW YORK, N. Y.

PUBLISHED MAY 66
IN AMERICAN SCHOOL AND UNIVERSITY, MAY 66, VOL. 38, NO. 9, PP. 15-18, 184

005 PAGES


Availability:
Arnold M. Bloom, Editor
Buttenheim Publishing Corporation
757 Third Avenue
New York, New York 10017

22
INSTRUCTIONS TO ARCHITECTS AND ENGINEERS. REV. JULY 1968

BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH DEPT OF PHYSICAL PLANT

PUBLISHED-JAN59

AVAILABLE FROM - DEPT OF PHYSICAL PLANT, BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH 84601

184 PAGES


A BOOK OF INSTRUCTIONS TO BE FOLLOWED BY ARCHITECTS AND ENGINEERS IN THE PLANNING OF ALL BUILDINGS ON THE BRIGHAM YOUNG UNIVERSITY CAMPUS. STEP-BY-STEP PROCEDURES ARE GIVEN FOR THE DEVELOPMENT OF CONSTRUCTION PLANS - INCLUDED ARE INSTRUCTIONS CONCERNING THE INITIAL SITE SURVEY AND REPORT, SCHEMATIC DRAWINGS, PRELIMINARY DRAWINGS, WORKING DRAWINGS, THE CONSTRUCTION PERIOD, AND THE USE OF THE RECOMMENDED SPECIFICATION FORM. CONSTRUCTION STANDARDS ARE SPECIFIED FOR NUMEROUS BUILDING CONSTITUENTS SUCH AS SPRINKLER SYSTEMS, TELEPHONES, STAIRWAYS, CUSTODIAL ROOMS, ENTRANCE WAYS, ELEVATORS, ETC. (FS)

Availability:
Dept. of Physical Plant
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INFORMATION IS PRESENTED ABOUT EDUCATIONAL REQUIREMENTS WHICH MAY BE EXPRESSED IN TERMS MOST USEFUL FOR ARCHITECTURAL PLANNING. CONSIDERATION IS GIVEN TO VARIOUS FACTORS UPON WHICH ARCHITECTURAL DESIGN DEPENDS. VARIOUS DESIGN APPROACHES IN PLANNING COLLEGE FACILITIES ARE ALSO DISCUSSED. (FS)

Availability:
California School Facilities Council
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PLANNING THE PHYSICAL PLANT
THE AUTHOR FINDS THAT THE ADVENT OF ELECTRONIC DEVICES WILL CAUSE A CHANGE IN INSTRUCTION TECHNIQUES WHICH WILL AFFECT THE CLASSROOM DESIGN. THE IMPLICATIONS OF SUCH SIMPLE MECHANICS AS AN AMPLIFIER SYSTEM FOR LARGE GROUP INSTRUCTION, FOR INDIVIDUAL INSTRUCTION, AND THE COMPLEX, MULTI-MEDIA ELECTRONIC PRESENTATION-RESPONSE SYSTEM WERE PRESENTED. FACILITIES AND PROGRAMS OF DIFFERENT UNIVERSITIES AROUND THE COUNTRY WERE MENTIONED. IT WAS SUGGESTED THAT CONSIDERATION BE GIVEN TO THE STRUCTURE AND STAFFING OF FACILITIES, KEEPING IN MIND THE SPECIAL REQUIREMENTS FOR INSTALLATION AND OPERATION OF AN EVER GROWING NUMBER OF AUDIOVISUAL AIDS TO INSTRUCTION. (JP)

Availability:

John H. Sweitzer, Secy-Treasurer
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Earlham College
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ACADEMIC GOALS AND UNIVERSITY BUILDINGS

PUBLISHED-JUN64

08 PAGES


A JOURNAL ARTICLE WHICH ASSUMES UNIVERSITIES TO BE GOAL SEEKING ORGANIZATIONS WHOSE GOALS ARE CONSTANTLY CHANGING. THUS, NEW BUILDINGS MUST NOT STRUCTURE IMAGES OF THE PAST AND PRESENT BUT RATHER MUST REFLECT THE OPEN-ENDEDNESS OF FUTURE ENDEAVORS. (FPU)

Availability:
Turnstile Press, Ltd.
10 Great Turnstile
London, W.C. 1
England
MEETING HIGHER EDUCATION'S PHYSICAL PLANT NEEDS

BY: HORN FRANCIS H.

PUBLISHED: FEB 1967
IN: AMERICAN SCHOOL AND UNIVERSITY, P 40-42, FEB 1967

AVAILABLE FROM: AMERICAN SCHOOL AND UNIVERSITY, JAMES STACK PUB., 757 THIRD AVE, NEW YORK, N.Y. 10017

002 PAGES


In considering the need for new physical facilities to accommodate the greatly expanded enrollments expected in this new age of education, emphasis is placed upon the quality of campus architecture as the most important single aspect of the problem of meeting higher education's needs for the physical plant. The advent of educational technology, emphasis upon research, and reduced teaching loads are cited as having created a challenge within higher education, and it is suggested that the challenge can be met by providing for the utmost flexibility and for the latest gadgetry in new physical facilities. (FS)

Availability:
James Stack Publishers
757 Third Avenue
New York, New York 10017
This report presents the best available literature on what is happening in the four major types of campus buildings—classrooms, laboratories, libraries, and dormitories. It also includes sections on finance, campuses, and renovations setting forth the different physical problems that beset the American colleges and universities today, the physical problems forthcoming, and an array of imperative reforms. Enrollment will double within the decade as will the amount of recorded information. Campuses must provide space and services for a heterogeneous population. To meet pressing demands all campus space must be designed for maximum convertibility. Moveable walls for yearly conversions and operable walls for immediate change will be the rule in instructional buildings. Every institution must calibrate change and innovation with its own scale of values and foreseeable needs. There must be full utilization of campus space, time, people and things. Independent study will assume central importance using scarce faculty and over-abundant students to greatest advantage. Students will get the facts from dispensers—books, films, tapes, television and teaching machines. The time schedule will start earlier and end later, utilize Saturday, and go the full calendar year. The campus must provide an environment that favors learning, understanding and intellectual interchange. (NK)

Availability:
Educational Facilities Laboratories, Inc.
477 Madison Avenue
New York, New York 10022
IN THIS SPEECH, MR. BREWSTER SETS FORTH WHAT HE BELIEVES A SCHOOL SHOULD PROVIDE IN ORDER TO MAKE THE BEST USE OF ITS OWN STAFF AND PROFESSIONAL PLANNERS COMMISSIONED TO WORK ON SPECIFIC PROJECTS. DIVIDING UNIVERSITIES INTO GROUPS BASED ON ENROLLMENT AND USING STATISTICAL TABLES, THE CONCLUSION IS REACHED THAT IN MANY CASES THE PHYSICAL PLANT DEPARTMENT IS NOT BEING UTILIZED OR CONSIDERED IN MATTERS CONCERNING ARCHITECTURE OR BUILDING NEEDS. THE POINT IS MADE THAT THE PEOPLE WHO ARE TO USE A BUILDING AND THOSE WHO MUST MAINTAIN IT BE GIVEN AN OPPORTUNITY TO ASSIST IN PLANNING AND/OR CONSTRUCTION. MR. BREWSTER ADVOCATES A WRITTEN PROGRAM, SPECIFIC FOR EACH BUILDING IN ORDER TO COMMUNICATE IDEAS TO THE ARCHITECT. ITEMS FROM A SAMPLE PROGRAM STATEMENT OF BRIGHAM YOUNG UNIVERSITY ARE INCLUDED. ALSO DISCUSSED IN THE SPEECH ARE FIELD TRIPS, TOPOGRAPHIC SURVEYS, SOIL TESTS, PLANNING AND PROJECT COMMITTEES, PLAN SUBMISSION, PRE-QUALIFICATION OF CONTRACTORS, AND INSPECTION AND SUPERVISION. INCLUDED ARE TABLES OF DATA CONCERNED WITH PLANNING PRACTICES IN APPROXIMATELY 200 UNIVERSITIES AND COLLEGES. (NI)

Availability:
John H. Sweitzer, Secy-Treasurer
Natl. Assoc. of Physical Plant Administrators of Universities & Colleges
Earlham College
Richmond, Indiana 47374
Planning and the responsibility for planning lies with the administrative official responsible for construction, operation and maintenance of the plant. Qualities which planning directors should possess are enumerated. Specific suggestions for more efficient planning and construction of higher education facilities are given as follows:  

1. The maintenance of a strong central planning office, adequately manned with competent personnel which should be the center of all campus planning.  
2. A good deal of attention should be given to the selection of structural, mechanical, and electrical engineers.  
3. Architects should be given a written program of requirements with supplementary instructions, a topographical map, and a report on any investigation of site foundation conditions.  
4. The central planning office should have the authority to approve or disapprove subcontractors.  
5. All supervisory personnel in the department of physical plant should review drawings and specifications.  
6. The campus planning committee should be advisory only.  
7. A program of regular building inspection must be maintained, and  
8. An effort should be made to promote and maintain communications between departments. (NI)
Contemporary Buildings on the Traditional Campus

By: Litchfield, Lawrence
Buttenheim Publishing Corporation, New York, N.Y.

Published: May 66
In: American School and University, May 66, pp. 15-18, 21

605 Pages


The problem of designing new buildings for an old campus and the problems and solutions worked out by Lawrence Litchfield, AIA, on four New Jersey campuses are discussed. Drew University at Madison, Peddie School at Hightstown, Monmouth College at West Long Branch, and Centenary College for Women at Hackettstown are the facilities described along with photographs of each. (RK)

Availability:
Buttenheim Publishing Corporation
757 Third Avenue
New York, New York 10017
FURTHER BIBLIOGRAPHIES IN CAMPUS PLANNING
SELECTED REFERENCES FOR PLANNING HIGHER EDUCATION FACILITIES

BY WICDALL, KENNETH R.
COUNCIL OF EDUCATIONAL FACILITY PLANNERS, COLUMBUS, OHIO

PUBLISHED - 68
101 PAGES


THIS COMPREHENSIVE AND CAREFULLY ANNOTATED BIBLIOGRAPHY PRESENTS IDEAS AND LISTS NUMEROUS RESOURCES FOR THE PERSON SEEKING GENERAL AND SPECIFIC INFORMATION IN PLANNING HIGHER EDUCATION FACILITIES. THE DOCUMENTS ARE CATALOGED INTO GENERAL TOPICAL AREAS OF - (1) ORIENTATION TO EDUCATIONAL FACILITY PLANNING, (2) DEVELOPING A MASTER PLAN FOR PLANT EXPANSION, (3) PLANNING THE INDIVIDUAL SCHOOL, (4) PLANNING THE TECHNICAL ASPECTS, AND (5) ADMINISTERING THE PLANT EXPANSION PROGRAM. COPIES ARE ALSO AVAILABLE AT $2.50 EACH FROM THE COUNCIL OF EDUCATIONAL FACILITY PLANNERS, 29 WEST WOODRUFF AVENUE, COLUMBUS OHIO 43210. (BH)

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CAMPUS AND FACILITIES PLANNING IN HIGHER EDUCATION (THE PROCESS AND THE PERSONNEL)

By: Philip S. Phelon.
State University of New York, Albany

Published: May 68
In: An Annotated Bibliography

021 Pages

Descriptive: *Annotated Bibliographies*, *Educational Facilities*, *Higher Education*, *Institutional Personnel*, *Campus Planning*, *College Planning*, *Master Plans*, *Methods*

This annotated bibliography evolved from an attempt to answer some basic questions related to certain aspects of planning for higher education, and is limited to the subjects of planning processes and planning personnel. Only sources originating within the past 10 years are included with the exception of documents on student participation where only a limited number of documents exist. Studies on details of planning a specific campus or facility are not included. Care has been taken to include a variety of viewpoints on the controversial issues, particularly faculty and student participation. This bibliography is the first of a series of planning guides for institutions of higher education. The documents selected should assist institutions in the understanding of the planning process as related to planning their facilities without mandating a particular format for such planning. (8H)
EDUCATIONAL BUILDINGS. PART II. COLLEGES AND UNIVERSITIES (A SELECTED LIST OF BOOKS AND REPORTS RECEIVED BY THE BUILDING RESEARCH LIBRARY)

BY- BULTON, BARBARA G.
NATIONAL RESEARCH COUNCIL, DIVISION OF BUILDING RESEARCH, OTTAWA, CANADA

PUBLISHED-AUG63

REPORT/SERIES NO.- NO. 25

003 PAGES


A SELECTED LIST OF BOOKS AND REPORTS RECEIVED BY THE BUILDING RESEARCH LIBRARY OF THE NATIONAL RESEARCH COUNCIL, OTTAWA, CANADA IS PRESENTED. THE LISTINGS ARE GROUPED BY THE FOLLOWING TOPICS--BUILDINGS, PLANNING AND DESIGN, SPECIAL FACILITIES, COLLEGE HOUSING, SERVICES AND VOCATIONAL COLLEGES, AND INCLUDES BRITISH AND FRENCH SOURCE REFERENCES. (HH)