INDEX

STUDENT PUBLICATION OF THE SCHOOL OF DESIGN
Volume 1, 1951 - Volume 25, 1977

Editors
HELEN K. ZSCHAU, Librarian
GLORIA W. CLOSE, Library Assistant

Harrye Lyons Design Library
North Carolina State University

April 15, 1977
ACKNOWLEDGEMENTS

Among the many people who so generously helped with this project are Robert P. Burns, Jr., Roger Clark, Dean Emeritus Henry L. Kamphoefner, Shun Kanda, John Loss, Michael Pause, John Reuer, Brian Shawcroft, and Wayne Taylor all members of the faculty of the School of Design.

Our special thanks is extended to David Polston who on several occasions suggested the right solutions to difficult problems.
PREFACE

This index originated as a tool for the use of the library staff to facilitate the search for answers to the innumerable requests we received for information contained in the Student Publication of the School of Design. As we progressed in its compilation the index proved to be of such value to us we decided its publication might make it equally useful to any person, library, or organization subscribing to the publication.

Initially our plan was to have a two-part index containing both a comprehensive table of contents for each issue and an author-title listing. Admittedly, the inclusion of a table of contents in an index is unique, but experience has taught us that requests for student publication information often refer only to an issue's number. Since all issues of the student publication do not contain contents listings and those which are included are very brief, the tables included here were compiled or expanded by the editors who take sole responsibility for their accuracy.

Further, we quickly learned that a simple author-title listing would not adequately serve as an index to the student publication since many of the titles of articles are vague, or, in some instances, non-existent and that the inclusion of subject headings would broaden the scope of the index adding greatly to its usefulness. This proved to be a difficult task since there seemed to be a wide divergence of opinion in the interpretation of subject headings among those experts whom we consulted. Since we are not architects we beg your indulgence should any subject heading we have chosen not conform to your concept of its meaning. To paraphrase a title of one of the articles in the Student Publication: "We done the best we knowed how."

Helen K. Zschau
Gloria W. Close
INTRODUCTION

Realizing that this index, like all indexes, is an imperfect tool we offer the following suggestions to aid the user in understanding the format and particular deviations necessary to the indexing of the Student Publications.

BASIC FORMAT

Under each author entry the title of the work is followed by the volume number, a colon, the issue number, then the pages.

Example:

AHO, Arnold J.
Joy in therapy: the design of toys for exceptional children. 21:2, p.5-10. il.

For each subject entry the title of the article is given first, followed by the author, the volume and issue numbers and the pages.

Example:

ADVOCACY Planning
Changing the system: the new landscape, by E. Schweitzer. 21:2, p.57-66. il.

The only titles used in the alphabetical listing are titles of entire issues, such as "Forty gardens," "Building skeletons," "The city, form and intent," etc. Titles of entire issues have been enclosed in quotation marks throughout the index.

Example:


In cases where the reference is the combined effort of a group the title of the entire issue and its volume and issue number are listed under the individual's name, followed by the particular section for which that person is given credit.

Example:

CHIPMAN, Joseph A.
"Building skeletons." 17:1:
N. C. Mutual Life Insurance Building. sheet 6 a. il.

EXPLANATORY REMARKS

All titles and other items of information supplied by the editors of this index have been enclosed in brackets.

Errors appearing in the publication have been corrected as follows:

Noven Mason
should be Novem Mason

Bubenashawr, India
should be Bhubaneswar, India
Eric Schliander
should be Eric Schuander

Vuoksenniska. Church
should be Vuoksenniska. Church

should be sheet 28

S. has been used as an abbreviation for Saint, San, Santa, Santi, and Santo.

Brian Shawcroft supplied the credit information for "Photography for designers."

Credit for photographs has not been given when the photograph was an illustration for an article.

Many articles in the Student Publications are reprints. We did not indicate this in the index since this information is furnished in the publication itself.
Vol. 1 #1
1951

Editor: James L. Brandt

James L. Brandt
Prologue by the First Man p.3

Lewis Mumford
Matthew Nowicki p.7

George Qualls
"_____ and Gladly Teach"
p.8-9

Matthew Nowicki
On Exactitude and Flexibility p.11-18

Matthew Nowicki
A New City in India

Matthew Nowicki
New Buildings for the State Fairgrounds 3 plates

William Henry Deitrick
Matthew at the Fair p.22-23

Albert Mayer
Matthew's Last Eight Weeks Were Spent in India p.24-29

William C. Dobson, Jr.
Two Poems p.30-31

Sherman Pardue, Jr.
The Museum is Slipping p.32-33

James L. Brandt
The Pages Ahead p.34-35
Vol. 1 #2
1951

Editor: James L. Brandt
Faculty Advisor: Duncan Stuart

Doniphan Louthan
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Hardinge Menzies
The Film in Architecture p. 4-5

George Matsumoto
The Flexible Building p. 6-8

Doniphan Louthan and James L. Brandt
The Stamp of Two Defects p. 9-11

Mary Louise Kelly
Introduction: As for Shelter p. 12

Henry David Thoreau
As for Shelter p. 13-16

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Basic Design p. 17-24

John Foster Paulk
"She Done the Best She Knewed How" p. 25-29

Bruno Leon
Tensile Integrity p. 30-39
Editor: Bruno Leon
Faculty Advisor: Duncan Stuart

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Architecture and Technology  p.1

Harrison Wadsworth
The Graduate Center - Harvard University  p.2-4

William Block
[Thoughts on Education]  p.5-9

Duncan Stuart and Manuel Bromberg
Descriptive Drawing  p.13

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Sculpture  p.20-22
Paintings  p.23-28

Nikolaus Pevsner
What Should the Aims of a Student
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Hugo Leipziger-Pearce
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B. J. Blech
The Architect - Craftsman or Builder?  p.35-37

Henry L. Kamphoefner
The School of Design  p.38
Vol. 2 #3
1952

Editor: Bruno Leon
Faculty Advisor: Duncan Stuart

Douglas Haskell
The Future of the Young Architect p.2-4

H. B. Dunington Grubb
The Garden of Roberto Burle-Marx p.5-9

R. Buckminster Fuller
[Articles from 4-D Timelock] p.10-20

An Interview with Mies van der Rohe
Six Students Talk with Mies, February 13, 1952 p.21-28

Ralph Mills
Ten Photographs [separate folio,] p.29

Donald Matthias
Impressions on Jazz p.30-32

K. K. Darrow
Physics as a Science and an Art p.33-40

James Walter Fitzgibbon
Arkhi-tekton p.41-48
Vol. 3 #1
1952

Editor: Sherman Pardue, Jr.
Faculty Advisor: Duncan Stuart

Sherman Pardue, Jr.
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T. C. Howard
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Sherman Pardue, Jr.
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Frosty Coile, Jeff Brooks, Ed Egan, and
John Kina
Structures 3  p.11-14

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The Architect and Agriculture  p.15-19

Fred Taylor
The "Bubble House" and Other Summer Projects  p.20-25

Bertrand Russell
Philosophy and Politics  p.26-35
Vol. 3 #2
1953

Editor: Sherman Pardue, Jr.
Faculty Advisor: Duncan Stuart

John R. Lambert, Jr.
In Defense of Film Art

George A. Gullette
In Defense of the Masses

Roy Gussow
Sculpture

Bernard Tomson
The Architect, Society and the Law

N. C. State College Union Gallery
Photography Exhibit (separate folio)

Clellon Holmes
"This is the Beat Generation"

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p. 26-30
Editor: Forrest W. Coile, Jr.

R. Le Ricolaïs
Contributions to Space Structures p.1-5

R. Buckminster Fuller
Architecture from the Scientific Viewpoint p 6-9

R. Le Ricolaïs
Structural Approach in Hexagonal Planning p.10-15

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The End of the Bauhaus p.16-18

William L. Baumgarten
Historic Regional Architecture p.19-21

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Development of Contemporary Music p.22-23
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Editor: Forrest W. Coile, Jr.

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K. H. Wilkinson
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1954

Editor: Forrest W. Coile, Jr.

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Introduction to Thin Shells p.7-19

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Margaret Lemle
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Irwin Jones
Esthetics and Survival p.34-40

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1954

Editors: Harry Ellenzweig
        Charles Hans Winecoff
Faculty Advisor: Duncan Stuart

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    Beliefs Behind Architecture p.19-28
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    Philosophy of Structures p.29-30
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Vol. 5 #1
1955

Editors:  Harry Ellenzenweig  
           Charles Hans Winecoff  
Faculty Advisor:  Duncan Stuart

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Felix J. Samuely  
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1955

Editors: Harry Ellenzweig
Charles Hans Winecoff
Faculty Advisor: Duncan Stuart

Robert J. Oppenheimer
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p.29-37

Brian Hackett
The Wider Horizon
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Choreography in the Landscape
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Felix Candela
   Toward a New Philosophy of Structures: Pt.1
   (see vol. 6 #1 for pt.2)

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   Excerpt from a letter to Ian McCallum giving
   background for the film, "A Communications
   Primer"

A. M. Mood and R. D. Specht
   Gaming as a Technique of Analysis

Willem de Kooning
   What Abstract Art Means to Me
Vol. 6 #1
1956

Editors:  Don Harms
         Murray Whisnant
Faculty Advisor:  Horacio Caminos

Felix Cardellach
    Preface from the book, Filosofía de las Estructuras (Philosophy of Structures)  p.1-2

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Pier Luigi Nervi
    The Importance of Construction Techniques  p.6-12

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    Time Drawing  p.13-15

Felix Candela
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    (see vol. 5 #3 for pt.1)  p.16-28
The entire contents of this issue are taken from the proceedings of the Southeastern Regional Conference of the Association of Collegiate Schools of Architecture held at N. C. State College School of Design in conjunction with the dedication of the new Design School building, Brooks Hall.

**Pier Luigi Nervi**
On Relations Between Construction Processes and Architecture

**George Boas, Garrett Eckbo, Pier Luigi Nervi, Mario Salvadori, and Jose Luis Sert**
Panel Discussion: Present Issues in Design

**George Boas**
Tradition and Innovation in Art
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II. A Type of Membranal Surface p.4-5
III. Tensile Membranal Structures p.6-13
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V. Miscellaneous p.20-24
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1957

Editors:  Irwin E. Jones
Robert P. Burns, Jr.
Faculty Advisor:  Horacio Caminos

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   Civic Design in the Renaissance
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   Principles of Art Criticism
   p. 27-30

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   p. 33-40
Vol. 7 #2
1957

Editors: Irwin E. Jones
Robert P. Burns, Jr.
Faculty Advisor: Horacio Caminos

Philip Selznick
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A Worker's Resort in the Tennessee
Valley Region

John L. Kennedy
The Uses and Limitations of Mathematical
Models, Game Theory and Systems Analysis
in Planning and Problem Solution

Linear Programming: A Brief Explanation and
Two Applications

Eduardo Torroja

Eduardo Torroja
Bridges and Aqueducts

Fritz Bultman
The Thing, the Veiled Scene and the Wall
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1958

Editors:  Eugene Lowry  
Henry Menzies  
Faculty Advisor:  Horacio Caminos

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Architectural Education - Part I  

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Student Panel  
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Architectural Education - Part VII  

Patrick Horsbrugh  
Architectural Education - Part VIII  

Jose de Rivera  
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Experience and Theory in Builder's Technics
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Duke University. Parapsychology Laboratory
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p.26-31

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Auguste Rodin
Excerpts from Les Cathedrals de France
p.36-37
Vol. 8 #3
1959

Editors: Reginald H. Cude
Arthur Cogswell
Faculty Advisor: Horacio Caminos

Title: City Planning

Norbert H. Gorwic
Urban Design p.2-7

Mel Ravitz
The Culture Concept and Urban Design p.8-15

Barclay Gibbs Jones
Economic Considerations in City Planning p.16-21

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Thoughts on Architecture and City Planning p.22-27

Grady Clay
Looking at Cities: America vs. Europe p.28-35

Thomas Hodne, Norman Klein, and John T. Howard
Ohio City Center: A Proposal for Cleveland p.36-48
Title: Building Footprints
A selection of forty-five building plans all drawn at the same scale.

Eduardo Sacriste, Jr.
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Bull Temple. Mysore, India
Church of Fatima. Buenos Aires, Argentina
Church of Il Jesu. Rome, Italy
Church of Notre Dame. Raincy, France
Church of the Jacobins. Toulouse, France
Crystal Palace. London, England
Exhibition Hall. Turin, Italy
Foundations of Church. Old Sarum, England
Galerie des Machines. Paris, France
Green Mosque. Bursa, Turkey
Hall of the Hundred Columns. Persepolis, Persia
Hangar. Orly, France
Hypostyle Hall. Karnak, Egypt
Imperial Palace. Tokyo, Japan
Johnson Building. Racine, Wisconsin
Market. Leipzig, Germany
Metropole Cathedral. Athens, Greece
National Library. Paris, France
Notre Dame. Paris, France
Notre Dame du Haut. Ronchamp, France
Palace. Ctesiphon, Persia
Palace of Darius. Persepolis, Persia
Palace. Mitla, Mexico
Palace. Sarvistan, Persia
Pantheon. Rome, Italy
Parthenon. Athens, Greece
Pazzi Chapel. Florence, Italy
S. Benoît sur Loire. Loire Valley, France
S. Chapelle. Paris, France
S. 'Ivo. Rome, Italy
S. Maria del Fiore. Florence, Italy
S. Maria in Cosmedin. Rome, Italy
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S. Paolo Fuori le Mura. Rome, Italy
S. Peter's. Rome, Italy
S. Pietro in Montorio. Rome, Italy
S. Sophia. Istanbul, Turkey
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Tea House. Japan
Temple. Bhubaneswar, India
Temple of the Sybil. Tivoli, Italy
Tomb of Galla Placidia. Ravenna, Italy
Treasury of Atreus. Mycenae, Crete
U. N. Assembly Hall. N. Y., N. Y.
Vol. 9 #2
1960

Editors: Arthur Cogswell
Reginald H. Cude
Faculty Advisor: Horacio Caminos

Charles Kahn
Introduction

Carlos Benito
Experimental Testing of Thin Shells by Means of Reduced Scale Models

I. M. Haas
Prestressed Shells

Felix Candela
Reinforced Concrete Shells

M. E. Uyanik
The Design of a Geodesic Dome
Vol. 10 #1
1960

Editors:  Arthur J. Hammill
          Joseph V. Morog
Faculty Advisor:  Horacio Caminos

Title:  Structures of Warped Surfaces

Eduardo F. Catalano
Structures of Warped Surfaces.
Drawings by Gloria Catalano.

30 plates
Vol. 10 #2
1961

Editors:  Joseph Morog
          Werner Hausler
Faculty Advisor: Horacio Caminos
Illustrations: Edwin F. Harris

Laura Thompson
          Culture: Supreme Creation of the Community
          p.2-11

Charles S. Peirce
          How to Make Our Ideas Clear
          p.12-27

Joseph Hudnut
          Architect and Engineer
          p.28-35

Sir Herbert Read
          The Aesthetics of Architecture
          p.36-47

Henri de Man
          Art and Psychosis
          p.48-61
Horacio Caminos

1. A Theme Center for a World's Fair.
This study is a schematic description of a building for a N** World's Fair which attempts to formulate a set of questions and to evolve a set of assumptions. It includes three similar projects that are variations of the same basic limitations. They are recorded in notes, drawings and models.

2. Two Surfaces of Revolution.
Dealing with the hyperboloid of revolution and the circular open ring torus, this study is an elementary compilation of geometrical information about two surfaces that may have application in the construction of buildings.

Supplement
"What are You Doing Here?"
A question posed by the editorial staff to design students. This supplement is a compilation of their replies.
Vol. 11 #2
1963

Editors: Joseph Morog
         Werner Hausler
Faculty Advisor: Charles H. Kahn

Augusto Cavallari-Murat
Static Intuition and Formal Imagination
in the Space Lattices of Ribbed Gothic Vaults

Pier Luigi Nervi
Some Considerations About Structural Architecture
Editors: Werner Hausler
       Eugene Brown
Faculty Advisor: Lewis Clarke

Duncan Stuart
   Polyhedral and Mosaic Transformations p.1-28

James Posey
   Finger Movies representing transformations

Vernon Shogren
   Some Thoughts on Design Education p.29-63
Vol. 12 #2
1964

Editors: Werner Hausler
Eugene Brown
Faculty Advisor: Lewis Clarke

William Brogden and Werner Hausler
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Louie Watkins
What is Language? p.8-19

Kenneth Haggard
Site Relationships of Four Classic
Pre-Columbian Cities in Mexico
Teotihuacan
Xochicalco
Monte Alban
Uxmal p.20-43

Joe Nassif, Allen Mills, and Howard Garriss
Measured Drawings of Midway Plantation.
Introduction by Betty Silver. p.44-79
Vol. 13 #'s 1 & 2
1963

Editors: John Phillip Reuer
        Gordon Gietzen
Student Coordinator: Reyhan Tansal
Faculty Advisor: Lewis Clarke

Title: The City, Form and Intent
       A collection of the plans of fifty significant
towns and cities all to the scale 1:1440, under
the direction of Mr. Richard Saul Wurman.

Richard Saul Wurman
Forward

Albert Bush-Brown
Introduction

Cities:

Aigues-Mortes, France
Amsterdam, Netherlands
Angkor, Cambodia
Assisi, Italy
Athens, Greece
Avila, Spain
Babylon, Iraq
Bern, Switzerland
Brugge, Belgium
Cambridge, England
Carcassonne, France
Chandigarh, India
Chartres, France
Chichen-Itza, Mexico
Granada, Spain
Hook Study, Hampshire, England
Karlsruhe, Germany
Kristiansand, Norway
Lubeck, Germany
Lucca, Italy
Machu Picchu, Peru
Middelburg, Netherlands
Miletus, Turkey
Montagnana, Italy
Monte Alban, Mexico
(Le) Mont-Saint Michel, France
Moscow, U. S. S. R.
New York, New York
Nordlingen, Germany
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- Palmanova, Italy
- Paris, France
- Peking, China
- Pergamum, Turkey
- Persepolis, Persia
- Philadelphia, Pennsylvania
- Pompeii, Italy
- Portofino, Italy
- Priene, Turkey
- Pyramid complex, Egypt
- Rome, Italy
- Saarbrücken, Germany
- Sabbioneta, Italy
- San Gimignano, Italy
- Savannah, Georgia
- Siena, Italy
- Tikal, Guatemala
- Timgad, Northeast Algeria
- Venice, Italy
- Versailles, France
- Washington, D.C.
Alvar Aalto

The Development of the Design for the
Church of Vouksenniska. Imatra, Finland.

1. Design sketches by Alvar Aalto during the
development of the Vouksenniska Church
project

2. Measured drawings made in Aalto's office

3. Photographs of the church as it now
stands
Le Corbusier
The Development of the Design for L'Eglise de Firminy, a Church in France.

1. Sketches and photographs with captions

2. Explanatory comments written by Le Corbusier for this publication

3. Colored sketches of the church
Louis I. Kahn

The Development of the Design for the Second Capital of Pakistan at Dacca.

1. Sketches from Louis Kahn's hand

2. Measured drawings of the site plan at different stages of the design made at his office

3. Photographs of models
Paolo Soleri
The Development of the Design for the
Cosanti Foundation, Arizona, U. S. A.

1. Freehand sketches from Paolo Soleri's
   sketchbook

2. Freehand presentation drawings to scale
Harwell Hamilton Harris

My Introduction to Architecture

A House for a Playwright

Graduation

What the Architect Can Contribute to the Knowledge of Tropical Housing

Frank Lloyd Wright's Theater Building

The Changing Practice of Architecture

The Church Auditorium

Regionalism and Nationalism

Selected Buildings with Comments by the Architect
1. Lowe House (1934)
2. Fellowship Park House (1936)
3. Entenza House (1937)
4. Bauer House (1938)
5. Grandstedt House (1938)
6. Havens House (1941)
7. Birtcher House (1942)
8. Wyle House (1948)
9. Ralph Johnson House (1948)
10. Mulvihill House (1949)
11. Feature Exhibits Building, National Orange Show (1954)
12. House in Fort Worth (1956)
13. Treanor House (1959)
14. Greenwood Mausoleum
15. First Unitarian Church of Dallas (1964)
Vol. 15 #2
1972

Editor: James H. Ross, Jr.

Peter Batchelor
Classical Ecological and Systems Analytical Models in Environmental Resource Analysis

Peter Batchelor
Design for a System Analytical Model of Urban Growth and Change

Richard Wilkinson and Warren J. Ranney
A Landscape Basis for Resources Management

William Perry Dinsmoor White
Locational Determinism as a Force in Planning

Frank Hough
Photography

p.1-9
p.10-25
p.26-34
p.35-80
10 inserts
Title: Forty Gardens

The gardens, drawn by forty-two design students to the scale of 1:2400, are presented with histories and descriptions.

Lewis Clarke
Introduction

Gardens:

La Alhambra. Granada, Spain
Bagh-I-Fin. Kashan, Iran
Bagh-I-Takht. Shiraz, Iran
Belvedere Villa. Vienna, Austria
Blenheim Estate. Woodstock, Oxfordshire, England
Blois Chateau. Blois, France
Boboli Gardens. Pitti Palace. Florence, Italy
Chiswick Villa. Brentford and Chiswick, Middlesex, England
Drottningholm Castle. Lake Malaren, Sweden
Fontainebleau Chateau. Fontainebleau, France
Generalife. Granada, Spain
Hatfield House. Hertfordshire, England
Heian Jingu Shrine. Kyoto, Japan
Hellbrunn Castle. Salzburg, Austria
Ise-Geku Shrine. Kyoto, Japan
Isfahan Gardens. Isfahan, Iran
Isola Bella Palace. Lake Maggiore, Italy
Katsura Imperial Villa. Kyoto, Japan
Kyung Bok Palace. Seoul, Korea
Middleton Place Estate. Charleston, South Carolina
Mount Vernon Estate. Mount Vernon, Virginia
Mulberry Castle Plantation. Oakley, South Carolina
Queen Hatshepsut's Funerary Temple. Deir el-Bahari, Thebes, Egypt
Rokuon-Ji Saion-Ji Temple Gardens. Kyoto, Japan
San Juan Capistrano Mission. San Juan Capistrano, California
Sandhills Community College. Southern Pines, North Carolina
Stourhead Villa. Wiltshire, England
Stowe Estate. Buckingham, Buckinghamshire, England
Taj Mahal. Agra, India
Tuileries. Paris, France
U. S. Capitol Grounds. Washington, D. C.
Vaux-le-Vicomte Chateau. Melun, France
Versailles Palace. Versailles, France
Villa Adriana. Tivoli, Italy
Gardens (cont'd):

Villa Aldobrandini. Frascati, Italy
Villa d'Este. Tivoli, Italy
Villa Garzoni. Colloidi, Italy
Villa Lante Bagnaia, Italy
Villandry Chateau. Tours, France
Vizcaya Mansion. Miami, Florida
Title: Building Skeletons
   The investigation of the structural systems of ten buildings by Brian Shawcroft and twenty students of the School of Design.

Randolph R. Croxton
Preface

Buildings:

Chase Manhattan Bank. N. Y., N. Y.
Farnsworth House. Plano, Ill.
Lever House. N. Y., N. Y.
N. C. Mutual Life Insurance Building. Durham, N. C.
Pirelli Building. Milan, Italy
Student Center, M. I. T. Cambridge, Mass.
Tiber Island Apartments. Washington, D. C.
Vol. 17 #2
1970

Editor:  Scott J. Heacock
Faculty Advisor:  Gene Hedge

Title:  Photography for Designers

Scott Heacock
Introduction  p.4

Brian Shawcroft
Preface  p.5

Brian Shawcroft
Darkroom Procedures  p.8-11

Photograms
Household Objects  p.12-43
Repeating Patterns
Multiple Exposures
Spatial Effects
Liquids and Glass

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Circles  p.44-69
Squares
Trees
Chairs
Architectural Details

Photograms II
Paper Negatives  p.70-91
Multiple Prints
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