Programanee Chris Dähne Helge Svenshon Martin Mäntele Eds.

Architectural Experimentation at the HfG UIm Building Department

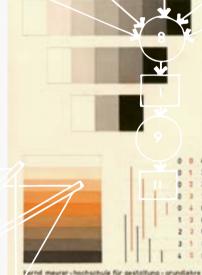


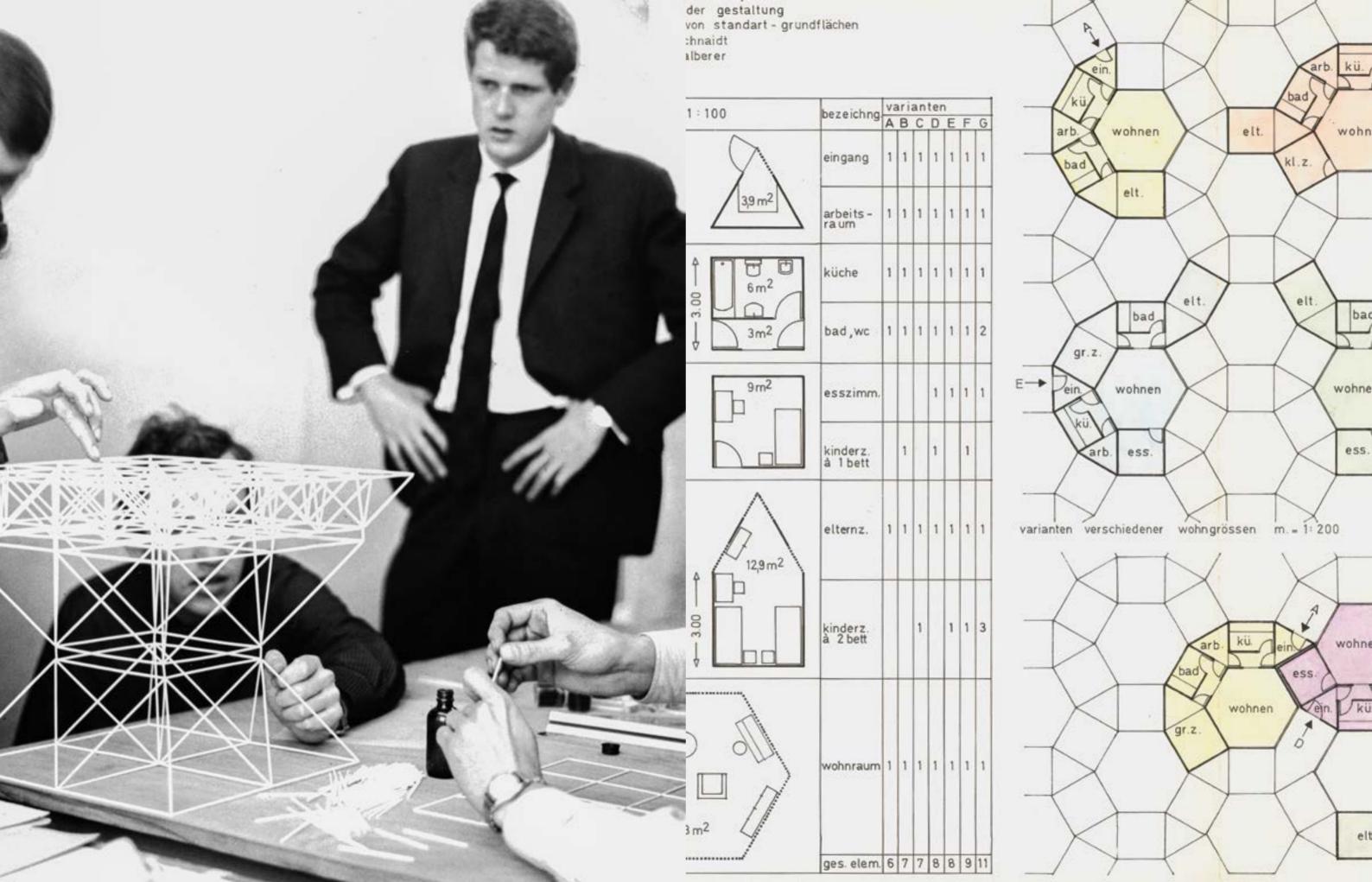


fig. 2

fig. 1

<image>





- 18 Imprint
- 22 Acknowledgements 24
 - Preface

31

- Chronology Architecture and Town Planning -Building - Industrialised Building 1953-68
- 51 Glossary Key Terms in Teaching

Essays Perspectives on the Building Department

- 56 Max Bill - Aspects of Bauhaus Reception in the Early Years of the HfG Ulm Martin Mäntele
- The Next Experiment 66 Konrad Wachsmann's Armco Curtain Wall Project alongside Teaching at the HfG Ulm, 1955-57 Soetje Beermann
- 75 **Rethinking Design** The Internationalisation and Scientification of Architecture Teaching at the HfG Ulm Chris Dähne
- 88 Giuseppe Ciribini at the Crossroads Post-war Italy, the HfG Ulm, and the Architecture-Building Industrialisation Nexus Francesco Maranelli, Pierfrancesco Califano
- 99 "Integral - Universal - Industrial" Herbert Ohl's Concepts for Industrialised Building at the HfG Ulm Helge Svenshon

Content

112	Prefabricated Welfare Herbert Ohl's Urban Development System for Saarlouis-Beaumarais Joaquín Medina Warmburg				
127	Institut de l'Environnement – A Radical Reinterpretation of the Ulm Model Rafael Amato, Teresa Häußler				
	Architecture Studies at the HfG				
140	The Enrolment Process HfG Ulm Questionnaires				
143	Reconstruction of the Curriculum				
144	First-Year From the Foundation Course to Design Projects				
220	Second- and Third-Year Design Projects				
272	Fourth-Year Diploma Theses				
	The People				
306 318 321	Lecturers Workshop Lecturers Students				
337	Visual Index				
368	Picture Credits				



Assistant Herbert Ohl joins the HfG, where he plays a crucial role (1956-68) in shaping its industrialised building principles. After its closure, he works in Milan for La Rinascente and Fiat, later advancing to prominent roles in design education and technical management in Germany and the USA

Lecturers and supervisors

Alexander Mitscherlich (1956-57) Hans Günther Sperlich (1956-61) Herbert Ohl (1956-68)

Heads of workshops Wolfgang Siol (1956-64)

Influential students

Diego Peverelli (1956-60) Hermann Edel (1956-60) Bertus Mulder (1956-58) Urs Beutler (1956-60) Frank Geiser (1956-60) Bernd Meurer (1956-61)

Beginning of the department's reorientation – system construction, industrially produced building components, industrialised building until the HfG Ulm closes.

Tomás Maldonado

Friedrich Vordemberge-Gildewart

Otl Aicher Hans Gugelot

Institute for Industrialised Building

1957

Head of Department: Max Bill Department of Architecture and Town Planning

The shift initiated by Wachsmann is supported by Tomás Maldonado, who, since 1956, serves as chair of the Rectorate. He facilitates the establishment of the Institute for Industrialised Building and provides substantial space to develop an industrial curtain wall project brought over from the United States.

The Bill Crisis

Rectorship

Hans-Günther Sperlich, the Darmstadt-based architecture and art historian, begins his several years teaching at the HfG Ulm

Head of Department: Max Bill Department of Architecture and Town Planning



Prototype of integral building construction (1957-61), lecturer Herbert Ohl, students Maurice Goldring, Claude Schnaidt, Claus R. Franck, Dominique Gillard, Edgar Decurtins, Gilbert

Singen, Goldschmidt GmbH Essen, Metzeler

AG Munich, Rhenus AG Andernach, Wellit

Hirt, Rudolf Winkler, Günther Schmitz, Ruppert Urban, funding Aluminium Rolling Mills

GmbH Düsseldorf, see page 277, fig. 266

The architect Frei Otto speaks about Die kulturelle Aufgabe des Leichtbaus (The Cultural Role of Lightweight Construction)



Herbert Ohl - Foundation Course instructor, expert in design and methodology, initiator of research on the Industrialised Building project.



Strengthening the social sciences with the appointment of the sociologists Hanno Kesting (left) and Lucius Burckhardt (right)

Union launched Sputnik 1, the first artificial satellite. This

On October 4, 1957, the Soviet

Snace exploration

historic achievement marked the start of the space age, sparked scientific interest in space, and intensified the space race between the USSR and the United States.

1957



Going beyond Bauhaus principles under Maldonado and younger lecturers, with a focus on design tailored to the needs of the industrial age and the promotion of a culture of technology

Partial adaptation of the Foundation Course to departmental curricula.

Christian Norberg-Schulz teaches construction methods.

Anthony Frøshaug introduced innovative design and analysis methods through the use of circulation diagrams.





Appointment of mathematician Horst Rittel, who implements a radical scientific approach to design and planning processes



British typographer Anthony Frøshaug arrives in Ulm



Max Bill departs from the HfG following disagreements with younger faculty members over the school's future direction

Lecturers and supervisors Bruce Martin (1957-59) Hanno Kesting (1957-60) Anthony Frøshaug (1957-60) Matthew Wallis (1957-59) Horst Rittel (1957-63) Joseph Ryckwert (1957-58) Giulio Pizzetti (1957-60) Christian Norberg-Schulz (1957-58)

Influential students Günther Schmitz (1957–61) Rupert Urban (1957-61) Roland Lindner (1957-62)

Department of Building

1958

Head of Department: Herbert Ohl Department of Building

of Department: Herbert Ohl Building Department

Head

Following the departure of Bill and Wachsmann, Herbert Ohl takes over as head of the department. With system-building projects such as the Integral Building Construction, he continues down the path set by Wachsmann. In this context, the name is changed from Architecture and Town Planning to Building Department, reflecting its new focus on construction processes.

Reform of the curriculum

Rectorship

Tomás Maldonado Otl Aicher Hanno Kesting



Founding and publication of the first Ulm. Journal of the HfG. The editor was Dr. Hanno Kesting, October 1958. Fourteen issues of the Ulm journal were published between October 1958 and April 1968



Richard Buckminster Fuller speaks about Industrialisiertes Bauen (Industrialised Building)

Nuclear energy The Atomium, unveiled at the 1958 Brussels World Expo, symbolises the atomic age and scientific progress. Standing 102 meters tall, its nine spheres represent an iron crystal magnified 165 billion times, celebrating nuclear science's transformative impact on the world.

Lecturers and supervisor Christian Staub (1958-63) Lucius Burckhardt (1958-59) Frei Otto (1958-60) Guiseppe Ciribini (1958-60) **Richard Buckminster Fuller**

(1958 - 59)

Head of Department: Herbert Building Department

<u>P</u>

Influential students Winfried Wurm (1958–62) Hubert Matecki (1958-62) Willi Ramstein (1958-62) Leonhard Fünfschilling (1958-63) Marcel Herbst (1958-64)

Karl Berthold (1958-63)

With architects Bruce Martin (pictured), Giuseppe Ciribini

and Matthew Wallis, the experience of industrialised construc-

tion increased international and

interdisciplinary exchange

1959

New aesthetics

Miles Davis' "Kind of Blue"

revolutionised iazz with the

birth of modal iazz. Shifting

from bebop's complexity to

soulful simplicity, its innovative

artists and cemented its status

as a timeless masterpiece and

cornerstone of modern music.

approach inspired countless

Reform of the curriculum by Maldonado, introducing scientific disciplines such as methodology, philosophy of science, topology, semiotics, etc.

25 April, Charles Eames again visited the HfG. He presented three of his film experiments, which had received various awards.



cation in Ulm

Invitation to São Paulo

for the Congress The

New City – A Synthesis

of Arts

the HfG.

Frei Otto lectures on Sinn und Aufgabe des Leichtbaus. Bericht über die Entwicklung von Bauten mit vorgespannten Membranen (The Meaning and Purpose of Lightweight Construction. Report on the Development of Buildings with Tensioned Membranes) and Die allgemeine Aufgabenstellung des Bauens in unserer heutigen Zeit. Die Probleme des anpassungsfähigen Bauens (The General Challenges of Building in Our Time. The Problems of Adaptive Building).

Diploma thesis and successful competition entry achievement, Max Graf "Oberstufenschulhaus Pestalozzidorf", Trogen, Switzerland, 1958-60, lecturer Max Bill see page 273, fig. 256-257

The Canteen Exhibition showcased the new model of design edu-

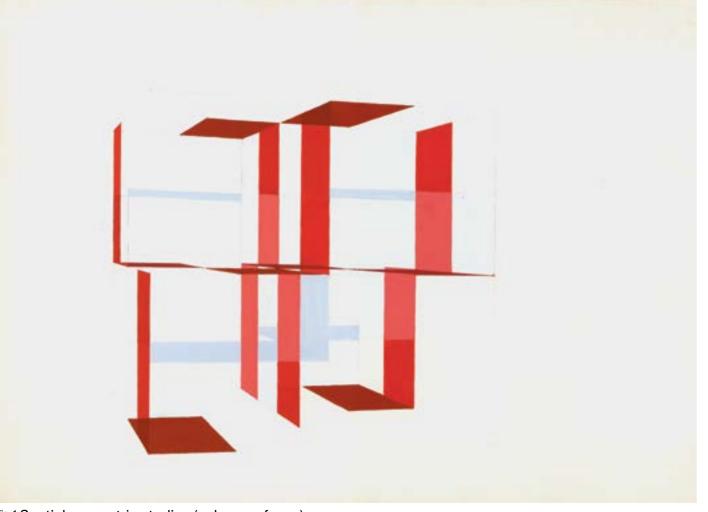
Rectorship

Tomás Maldonado Herbert Ohl Horst Rittel

On 14 March, the philosopher Martin Heidegger and the architectural theorist and critic Reyner Banham visit

Colour

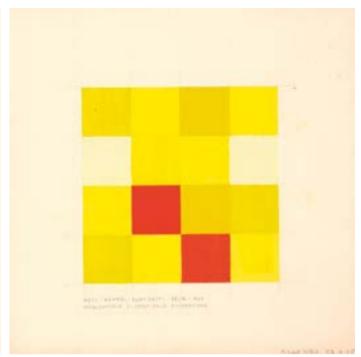
Students were required to study the systematic order of colours in the chromatic spectrum. Using the dimensions of sound, light, and saturation, colour distribution was presented with respect to systems such as the Ostwald Primer, the Munsell colour system, and Paul Klee's theories. The aim was to precisely analyse and order colours.



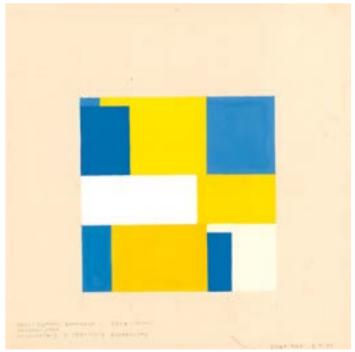
^{fig. 1} Spatial geometric studies (colour surfaces), lecturer Max Bill, ^{student} Max Graf, 1955–56 (31.8.55)



^{fig. 2} Light-dark contrast: red, blue yellow, green, white, proportions, diagonal, black boundary lines, ^{lecturer} Johannes Itten, ^{student} Max Graf, 1955–56 (7.5.55), 25.5 × 25.5 cm



^{fig. 3} Light-dark contrast: yellow-red, horizontal and vertical expansion, ^{lecturer} Johannes Itten, ^{student} Max Graf, 1955–56 (27.4.55), 25.4 × 25.5 cm



^{fig. 4} Light-dark contrast: yellow-blue, proportions, horizontal and vertical expansion, ^{lecturer} Johannes Itten, ^{student} Max Graf, 1955–56 (5.5.55), 25.4 × 25.5 cm

Presentation of elementary and mixed grids

Three elementary grids were developed into up to six mixed forms. Their qualities, such as the distances between points, lines, and surfaces were graphically and numerically analysed. On that basis, students designed stable grid structures, including grid panels, as well as load-bearing structures such as towers and mobile bridges. Drawings and models illustrated the capacity and flexibility of elements made of metal, wood, and plastic.

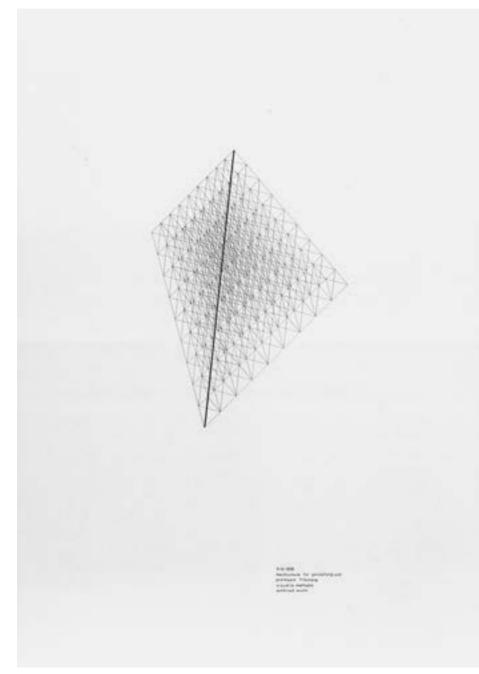
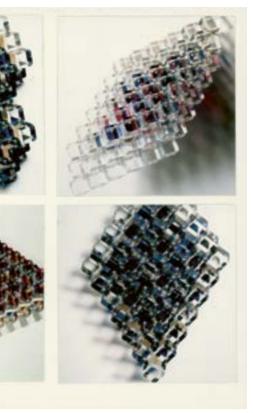


fig. 27



^{fig. 26–28} Visual methodology, ^{lecturer} Anthony Frøshaug, ^{student} Winfried Wurm, 1958–59 (9.10.58), ^{drawing} 59.5×42 cm, ^{photos} 29.7×21 cm (sheet), ^{model} $6 \times 6 \times 6$ cm



Connecting 2 grid systems

Two grid levels were connected using branches, whereby individual points of one grid were connected to group nodes of another. The aim was to guarantee a homogeneous, kink-free force line. The connecting elements had to be stable and withstand all burdens between the grid levels. The model's structural elements could be produced using any materials, material forms, and production methods.

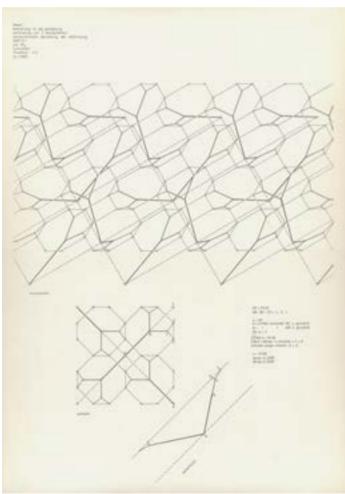
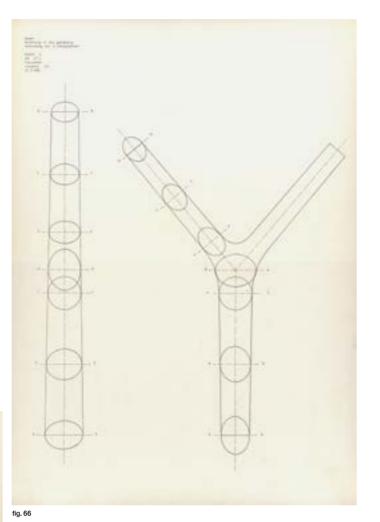


fig. 65 Connection of 2 grid systems, sheet 1, lecturer Herbert Ohl, student Isao Fukuwatari, 1962–63 (22.3.63), 62.3 × 44 cm





^{fig. 66–67} Connection of 2 grid systems, sheet 2, ^{lecturer} Herbert Ohl, ^{student} Isao Fukuwatari, 1962–63 (22.3.63), ^{drawing} 62.2×44 cm, ^{photo} 20×25.5 cm





^{fig. 68} Design of a lattice structure as a bridge, ^{lecturer} N.N., ^{student} N.N., 1963–64 (?), 70×18×20 cm

 $^{\text{fig. 69}}$ Design of a lattice structure as a bridge, $^{\text{lecturer}}$ N.N., $^{\text{student}}$ N.N., 1963–64, 74 \times 34 \times 21 cm

First Year

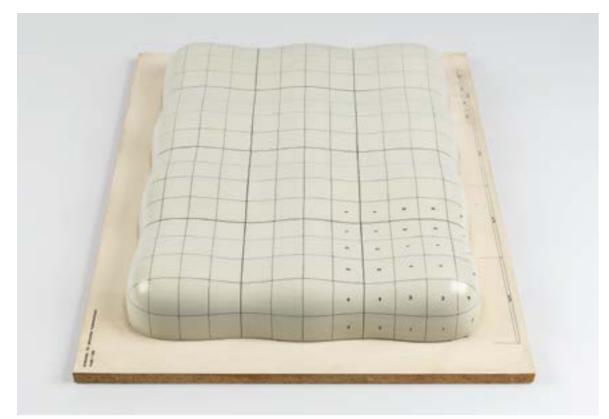


fig. 118 Large module for curved surface continuum, lecturer Herbert Ohl, student Heinrich Bachmann, 68.5×53.5×7.7 (max. 9.5) cm





^{fig. 120} Self-supporting modular elements, ^{lecturer} N.N., ^{student} N.N., 1967–68, 60×60×max. 12 cm

^{fig. 119} Modular, industrial, and ergonomic values of curved surface structures, ^{lecturer} Herbert Ohl, ^{student} Kurt Christen, 10 × 19 × 19 cm **Residential building**

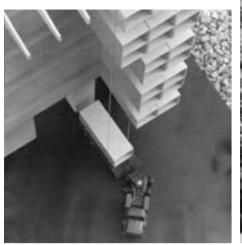




fig. 175

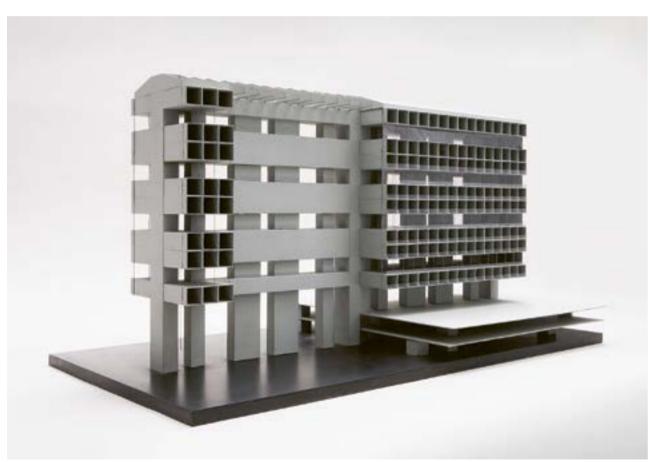
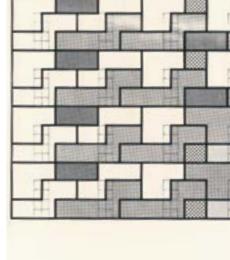
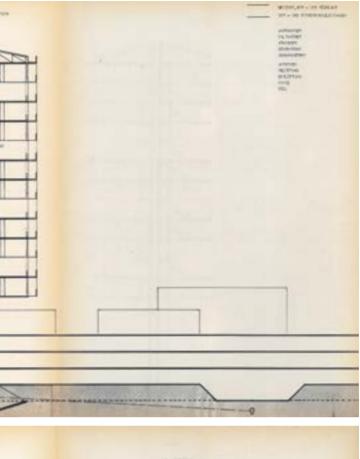


fig. 177 Residential buildings with adaptable use, lecturer Peter Sulzer, students Rolf Berner, Mario Forné, Georg Furler, Hans Peter Goeggel, Paul Liner, Christian Ulrich Merten, Isa Maria Moreira da Cunha, 1964–65, photography 8×8 cm, photomontage 14.8×21 cm, model 45×90×45.5 cm



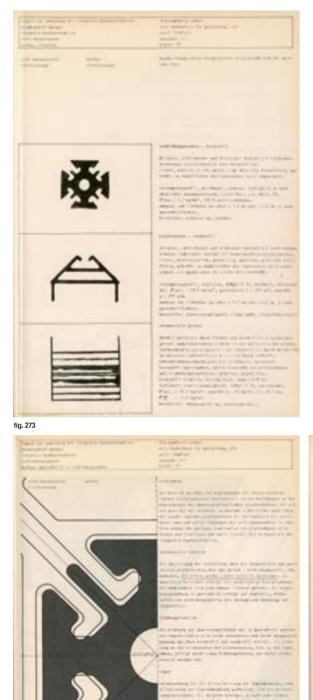
234 Architecture Studies at the HfG



		3000000		
		and the second	11.4.24	
		-		
		and the second s		
		Entering	410,000	-
		and the second second		*
State of the local division of the local div		-		in the second
and the second se		Apr 14 515 191	14 H	
C.t.	1.1		and .	
A REAL PROPERTY AND A REAL		2.4		To 8. 1004.00
Contraction of the local division of the loc	E			A
Contraction of the local division of the loc				
				# * 10. 100.000
Section in the section of the sectio			1.4	1. m
A REAL PROPERTY AND INC.		-	-	
CONTRACT.				
	1.00			
1	-			
and the second se				
1000 F + + + + + + + + + + + + + + + + +				
Part of the second				
	8			

^{fig. 178-179} Residential buildings with adaptable use, installation diagram / section, scale 1:200, documentation of residential planning, ^{lecturer} Peter Sulzer, ^{students} Rolf Berner, Mario Forné, Georg Furler, Hans Peter Goeggel, Paul Liner, Christian Ulrich Merten, Isa Maria Moreira da Cunha, 1964–65, 29.7 × 42 cm (each)

Integral building construction



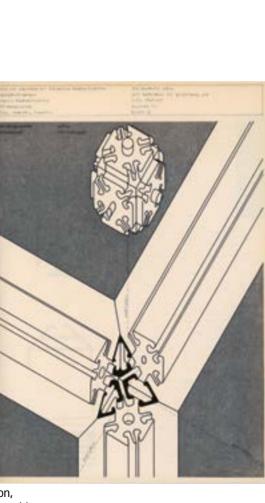
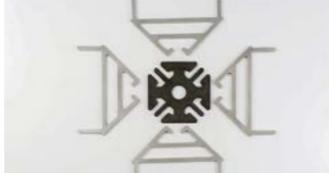


fig. 273-275 Rules for the application of integral building construction, structural connection system, assembly, elements scale 1:1, assembly, cross-section scale 5:1, room corner, isometry scale 1:1, lecturer Herbert Ohl, student Rupert Urban, 1961, diploma thesis, 29.2 × 20.8 cm (each)



The staff of the Institute for Industrialised Building, Bernd Meurer, Günther Schmitz, and Rupert Urban, working on the model, 1960



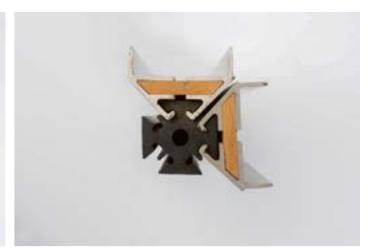
^{fig. 276} Rules for the application of integral building construction, profile, ^{fig. 277} Rules for the application of integral building construction, profile, lecturer Herbert Ohl, student Rupert Urban, 1962, diploma thesis, aluminium element 18×24.5×0.6 cm, neoprene element 16×16.5×0.8 cm



fig. 278-279 Rules for the application of integral building construction, profile, lecturer Herbert Ohl, student Rupert Urban, 1962, diploma thesis, 8.2×8.2×20 cm



fig. 280-281 Rules for the application of integral building construction, profile, lecturer Herbert Ohl, student Rupert Urban, 1962, diploma thesis, 5×5×5 cm



lecturer Herbert Ohl, student Rupert Urban, 1962, diploma thesis, 5×5 cm×length



fig. 279



fig. 281

Adorno, Theodor W.

Albers, Josef



1903-1969 Philosopher, Sociologist and Composer Germany

In contact with Inge Aicher-Scholl, Theodor W. Adorno arranged for the sociologists Ludwig von Friedburg and Helge Pross as well as the economist Wilhelm Bierfelder, to hold seminars at the HfG during the 1955–56 academic year. Adorno is indisputably a key figure of the Frankfurt School, alongside Max Horkheimer. He emigrated during the Third Reich to the United States in 1938 and worked at the Institute for Social Research. Upon returning to Germany, he became director of the re-established institute and professor of philosophy.



1889-1976 Painter and Art Educator, Germany / USA Teaching in Ulm: Foundation Course, 1953-55

After training as an elementary school teach- Alsleben and Schnelle developed Bürolander. Josef Albers studied and taught at the Bauhaus. In 1933, he emigrated to the United which later evolved into modern open-plan States, where he taught at Black Mountain College and later at Yale University. At the HfG, he taught the fundamentals of design to the first two cohorts in a multi-week basic course.

Archer, L. Bruce



1922-2005 Mechanical Engineer and Professor of Design Research, England Teaching in Ulm: departmental work in Product Design, seminar on Design Analysis and Critique, 1960-61

After his guest year at the HfG, Archer Art in London on the function and design of hospital equipment, including a standardised hospital bed. He was later appointed to a specially created chair in Design Research at the Royal College.

Bahrick, Harry P.



born 1924 Psychologist, USA Teaching in Ulm: Ergonomics (Human Engineering), 1959-60

Harry P. Bahrick immigrated to the USA with his parents in 1940. He studied and taught at Ohio Weslevan University into old age. He spearheaded a study at the Royal College of spent a year at the HfG with his family as part Machine. Myth or Swindle? and on topics of a Fulbright scholarship.

Some of the most renowned architects, designers, scientists, and theorists of their day taught at the HfG Ulm. In the field of architecture in particular, the lecturers combined technical expertise with design innovation and academic reflection. Students benefited from an exceptional breadth of knowledge, ranging from construction technology and design methodology to urban and societal issues. This interdisciplinary network transformed the HfG into a laboratory for experimental architectural concepts and created a pioneering learning environment.

For this publication, we have selected 76 lecturers and guest speakers who significantly shaped teaching in the Building Department. Between 1953 and 1968, 150 students from Germany and abroad enrolled in the architecture programme at the HfG, all of whom are presented here in brief profiles. About half of them completed their studies with a diploma thesis and subsequently worked in the fields of architecture and urban planning. Twenty-seven graduates later held professorial or teaching positions at universities.

Ado-Ban





1928-2019 Artist and Lecturer, Germany Teaching in Ulm: Structural Theory, Methodology, and Mathematical Techniques, 1964–68

schaften / office landscapes starting in 1956. offices. His interest in cybernetics connected him with Abraham Moles and Helmar Frank, who also taught at the HfG. He was a university lecturer and independent artist who wholeheartedly championed digital art.



Banham, Revner



Architecture Critic, England Teaching in Ulm: 1958–59 and 1964–65

Banham studied with figures such as Sigfried Giedion and Nikolaus Pevsner. As a professor, he taught in London, New York, and Santa Cruz, At the HfG, lectured on *The Dwelling* such as the democratization of taste and the influence of mechanical devices on modern architecture.

The People 308

Lecturers

Baravalle von Brackenburg, Hermann



1898-1973 Lecturer, Mathematician, Physicist, and Astronomer, Austria / USA Teaching in Ulm: Constructive Geometry, 1954-60, 1967-68

Baravalle was a pioneer of Waldorf education, History and Criticism from 1964–1966. From 1935–1937, he directed the Mathematical-Astronomical Section at the Goetheanum From 1949. Bense was Professor of the in Dornach. Afterward, he primarily lived and worked in the USA but often returned to Europe. His visits to the Ulm Waldorf School provided an opportunity to also teach 1976. Influenced by cybernetics and comat the HfG.



1910-1990 Philosopher, Germany Teaching in Ulm: established and led the Department of Information and the interdisciplinary "Cultural Integration" programme Department of Architecture from 1950–1957; from 1954–1958. He also taught Literary

Philosophy of Technology, Theory of Science, Between 1932 and 1937, he was part of the and Mathematical Logic at the Technische Universität Stuttgart, where he taught until puter art, he sought to develop an information-theoretical foundation for aesthetics.

Bill, Max

Bra-Bur



1908-1994 Artist, Graphic Designer, Sculptor, and Architect, Switzerland Founding Rector and first head of the architect of the HfG buildings

After training as a silversmith, Max Bill studied at the Bauhaus in Dessau from 1927-28. Abstraction-Création art movement in Paris. during which he established his concept of "concrete art," for which he became a leading figure. Thanks to his efforts, the HfG established its Department of Architecture and Town Planning.

Bloch, Ernst



1885-1977 Philosopher, Germany Teaching in Ulm: Wednesday seminar, 1962–63 (did not take place)

Switzerland, and Prague before going into exile in the United States in 1939. He wrote his seminal work. The Principle of Hope, there. In 1948, he relocated to the German Democratic Republic and moved to the Federal Republic of Germany in 1961.

Bogusz, Jerzy



Architect, Poland Teaching in Ulm: departmental work in Construction, 1964–65 (did not take place)

After the war, Jerzy Bogusz studied at the Ernst Bloch lived in Berlin, southern Germany, Technical University of Kraków. He was noted for his participation as a jury member for the Lucius Burckhardt came to Ulm from Münster, Polish Pavilion at the Agricultural Exhibition in Moscow in August 1951. His connection to the HfG was through Claude Schnaidt, who spent some time in Poland in the early 1960s. became Professor of Socioeconomics of

Burckhardt, Lucius



1925-2003 Sociologist and Economist, Switzerland Teaching in Ulm: History of the disciplines across departments, including Architecture, 1958-59

where he had worked as a research assistant at the university. Until 1972, he served as editor-in-chief of the journal Werk, Later, he Urban Systems at the University of Kassel. From 1992 to 1994, he was the founding dean of the Faculty of Design at Bauhaus-Universität in Weimar.

The People

Ciribini, Giuseppe



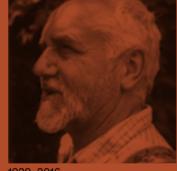
1913-1990 Engineer and Architect, Italy Teaching in Ulm: Industrialised Construction, Building Design, and Rationalisation, 1958-60

of the Housing Research Centre in Milan, He Czaika began his academic career in 1949 taught at both the Politecnico di Milano and Politecnico di Torino, Ciribini's research focused on the standardisation of construction, modular coordination, and broader issues of the built environment.

orn 1898 Engineer and Architect, Poland 1963-67

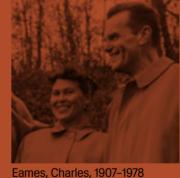
After completing his studies and spending From 1955, Giuseppe Ciribini was the director several years as a construction manager. at Poland's Institute for Housing Research. where he served as deputy director.

Doernach, Rudolf



1929-2016 Architect, Germany Teaching in Ulm: Seminar on industrialised building, departmental work in Building, 1960-63

After completing his studies, Rudolf Doernach worked as a freelance architect. and Frei Otto on various projects. At the HfG. he continued their work on structural dome frameworks and lightweight construction. In the 1970s, Doernach began researching construction with plants as structural elements or bioclimatic skins. In 1983, he published a Handbook for Better Times, focusing on building with natural materials and traditional craft techniques.



Architect and Designer, USA Eames, Ray, 1912-1988 Artist and Designer, USA Visits to Ulm: 1955 and 1958

During the Second World War, Ray and Charles Eames developed splints and collaborating with Richard Buckminster Fuller stretchers made from bent wood and later expanded into furniture using the same material and plastics. Their work spanned architecture, exhibition design, photography, and multimedia presentations. Their Case Study Houses are well-known as early examples of industrialised construction.

Lecturers

Czajka, Władysław

Cir-Emd



Teaching in Ulm: Economics of Construction,

Dietz, Albert



1907-1998 Civil Engineer, USA Seminars in Ulm: Industrialised housing construction, application of electronic computing devices for complex planning, use of structural plastics, composite building materials, 1961–62

Albert Dietz was a professor at the Massachusetts Institute of Technology (MIT) in the Departments of Architecture and Civil and Environmental Engineering. His work on plastic-impregnated pressed wood was the driving force behind the establishment of the Plastics Laboratory at MIT.

Eames, Charles and Rav

Emde, Helmut



Mathematician and Philosopher, Germany Teaching in Ulm: Constructive Geometry, 1962-68

Helmut Emde studied at the Technische Universität Darmstadt and the University of Tübingen. He taught mathematics for architects and geometric information processing in Darmstadt, where he later became a professor. At the HfG, he collaborated closely with Walter Zeischegg.

Visual Index

fig. 1–13



fig. 1 Räumliche geometrische Studien

1955-56 (31.8.55), 42×59.4 cm, technique

gouache on cardboard, inv. no. Dp. 12.3

(Farbflächen), lecturer Max Bill, student Max Graf,



Weiss, Proportionen, schräge, schwarze Begrenzungslinien, lecturer Johannes Itten, student Max Graf, 1955-56 (7.5.55), 25.5×25.5 cm, technique gouache on light cardboard, inv. no. Dp. 12.3



^{fig. 5} Farblehre nach Ostwald, ^{lecturer} Helene paper, not inventoried



^{fig. 7} Arithmetisch gestufte Grauskala, A zufällig, B systematisch, lecturers Horst Rittel, Friedrich Vordemberge-Gildewart, student Gerhard Curdes, 1959–60 (signed on verso by Rittel 6.60), 20.2×30.5 cm, technique India ink on graph paper, typewriter script, ^{inv. no} Dp. 40.09





(total), 22.9×17 cm (photograph), technique (wood grain)

Note If not stated otherwise, the models, photographs, Dp Deposit

Diplom Diploma thesis

Μ Model

> Neg Negative (photographic archive)

N.N. Nomen nescio (person unknown)

Ohl-K, b **Ohl-Koffer, booklet**

and drawings shown here are held by the HfG-Archiv / Museum Ulm. To shorten the entries we only give the inventory numbers.

AZ Aktenzeichen

Ai AZ Aicher Estate Aktenzeichen

G Graphic

GS **Graphic donation**

Dia Slide (Diapositive)

fig. 4 Hell-Dunkel Kontrast: Gelb-Blau, Proportionen, horizontale und vertikale Ausdehnung, lecturer Johannes Itten, student Max Graf, 1955-56 (5.5.55), 25.4 × 25.5 cm, technique gouache on light cardboard, inv. no. Dp. 12.3



fig. 10 Würfelaufnahme, lecturer N.N., student Max Graf, 1955–56, 25×18.3 cm (total), 13×18.3 cm (photograph), technique photograph (vintage print) on cardboard, inv. no Dp. 012.002

First Year



^{fig. 2} Hell-Dunkel Kontrast: Rot Blau Gelb, Grün, ^{fig. 3} Hell-Dunkel Kontrast: Gelb-Rot, horizontale und vertikale Ausdehnung, lecturer Johannes Itten, ^{student} Max Graf, 1955–56 (27.4.55), 25.4×25.5 cm, ^{technique} gouache on light cardboard, inv. no. Dp. 12.3



Nonné-Schmidt, student Bernd Meurer, 1956-57, 38×26 cm, technique gouache on watercolour

fig. 6 Farblehre nach Ostwald, lecturer Helene Nonné-Schmidt, student Bernd Meurer, 1956–57, 25.8×37.9 cm, technique gouache on watercolour paper, not inventoried



fig. 8 Farbe als Interpretation von Kreisteilungen, lecturer Herbert Ohl, student Isao Fukuwatari, 1962-63 (21.11.62), 58.7×42 cm, technique pencil, gouache on cardboard, inv. no Dp 120.003.1

^{fig. 9} Farbe als Interpretation von Kreisteilungen, lecturer Herbert Ohl, student Isao Fukuwatari, 1962-63 (21.11.62), 59.2×41.8 cm, technique pencil, India ink on Schoellershammer cardboard, inv. no Dp 120.003.13



fig. 11-12 Zwei fotografische Übungen, lecturer N.N., photograph (vintage prints) on cardboard, inv. no Dp. 040.021.10 (shavings), Dp. 040.021.4

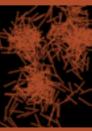
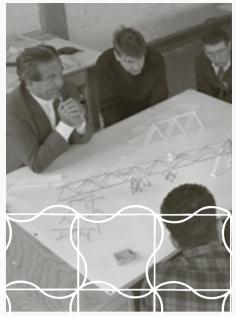
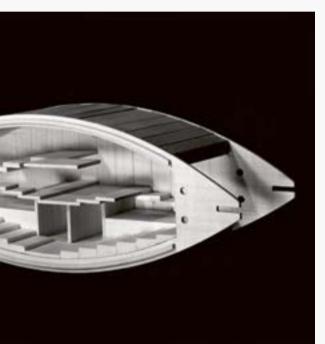


fig. 13 Photogram, lecturer Wolfgang Siol, student student Gerhard Curdes, 1959–60, 31.8×22.6 cm Isao Fukuwatari, 1962–63, 22.9×17.5 cm, technique photograph (vintage print), ^{inv. no} Dp 120.006.1

This book traces the legacy of the HfG Ulm Building Department, where experimentation and intellectual rigor redefined modern architecture. Relying on critical enquiry and knowledge exchange, the department brought design, science, and creativity to bear in addressing architecture's complex challenges. Today, Ulm's open mindset feels more compelling than ever, reshaping how we inhabit and imagine the future of our data-driven world.

Georg Vrachliotis, Head of the Architecture Department, and Professor for Theory of Architecture and Digital Culture, TU Delft / Author of *The New Technological Condition. Architecture and Design in the Age of Cybernetics*





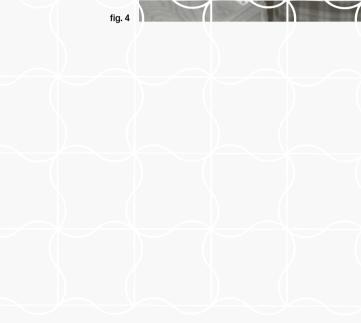
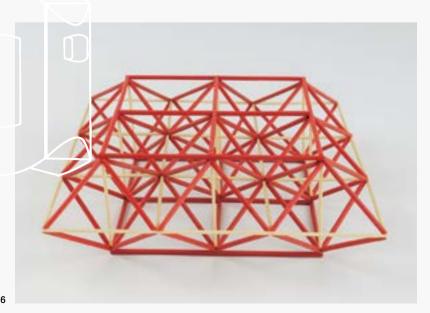


fig. 5



€ 40,-/USD 54,-

