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added the variants of proportions within the individual buildings resulting from the various functions of the rooms. The inner rooms manifest themselves out-wardly in the proportions of the filling structure, window arrangements or brick-work within the framework of the prin-cipal structure. In certain cases Mies has cipal structure. In certain cases Mies has used supporting brickwork walls which, as such, are clearly different from the dominating steel structure (e.g. in the machine hall, which is part of the Metal-lurgy and Chemical Engineering Buil-ding). Some buildings have a visible con-crete skeleton. The laboratories are distin-guished from the school buildings by the different treatment of the steel. In the laboratories and work-shops the steel vi-sible on the outside at the same time constitutes the support of the skeleton. sible on the outside at the same time constitutes the support of the skeleton. With the school buildings the Chicago Fire Laws prevent the possibility of ex-posing the skeleton. The steel visible in the façade is a steel-frame facing the fire-proofed skeleton, to which it is simi-lar, and it visually defines the glass and brickwork fillings. The facing steel is not continued to the ground: a detail that Mies has developed as an expression of a subtle honesty in building. The profiled, "hollow", recessed corner follows similar motifs. Stressing the general directions "hollow", recessed corner follows similar motifs. Stressing the general directions of the façade surfaces, their effect is that of joints. Such details contribute not a little to the elegant effect of the build-ings. Seen in their interrelations they ings. Seen in their interrelations they are much less static in effect than a photo-graph might lead one to assume. The wanderer in the Campus enjoys a gene-rous space for roving. The planting of the open spaces has progressed consider-ably. Bushes were planted, near the lawns, green volumes, and high trees towering above the relatively low hori-zontal buildings provide a pleasant awn-ing in summer. It can be visualized even now how much the buildings will merge into the greenery. Maybe the loss of the crystalline effect the buildings had at the beginning will later be deplored. The buildings reflect the changes of daylight with particular sensitivity. Night and artificial lighting inside change the build-ings into grandiose bodies of light. Day and night, the grassy expanse links up exterior and interior, and gives an in-sight into the life proper of the school collective study.

collective study. The contrasting effect of the Campus buildings with the immediate surround-ings is exceptional. This part of the town is justly notorious as one of the blots on the city's escutcheon. Slums in-habited by negroes encircle the school. Rickety wooden shacks, dirty streets and dirtier back-yards. The stone and brick buildings are in the same state. A large building which was, in its time, exemplary buildings are in the same state. A large building which was, in its time, exemplary for comfortable apartments with wide green yards and fountains, known under the name of "Mecca", is now crammed with negro families. In less than 50 years a progressive urban undertaking has changed into a ruin and a source of mor-bid social processes. Crass evidence of the disorganized building activity of the 19th century and the rapid changes in a spe-culative economy! The Campus project is an attempt at rehabilitating a city district — a heroic venture in view of the general extent of the slums in Chicago.

There are no fewer difficulties arising in the realization of a modern building pro-ject if the building is a school. The Illinois Institute of Technology is run on private contributions. In a life path a cotta linetic contributions, i.e. it is not a state insti-tution. Trustees and teachers have their own idea of the face of a college. The clichés of monumental dignity are also demanded of a school. Towers and portals seem to be indispensable and masses of stone are considered a good investment for emotional needs of security. In Europe the American lack of prejudice is often overestimated, and the effects of the Museum of Modern Art in New York, which are also felt in Europe, are apt to lead one to the conclusion that the whole of America is visually progressively edu-cated. It is just the lack of ancient tradition, which often promotes speculative freshness and readiness for the new ex-periment, which, on the other hand, may periment, which, on the other hand, may create a particularly stubborn attachment to pseudo-values. Thus, certain teachers and trustees did not like the new build-ings. The realization of the Campus without compromise must be attributed to President Heald's powers of conviction and the diplomatic attitude of the archi-tect. The dislike of buildings often finds indirect expression in prejudiced ceit. indirect expression in prejudiced criti-cism of their functional aspects: "In summer one dies of heat in these glass boxes — in winter one catches colds" etc. New buildings of unconventional aspect will always be very critically inspected for defects, and such defects can no doubt also be found in the Campus buildings. The collaboration of the architects and the specialised technicians and engineers in respect of heating, ventilation, lighting and acoustics leaves much to be desired in many instances. The reason lies in the lack of a secure basis for constructive co-operation. Empirical procedure is still unavoidable. Specialists are accustomed to solving their problems more or less correctively. The comparison of the prac-tical success of the new Campus buildings requires a wealth of research which, to our knowledge has not so far been con-scientiously performed on a scientific basis. the specialised technicians and engineers scientiously performed on a scientific basis. These problems shall not, therefore, be further considered. In our opinion the buildings function considerably better than the usual.

than the usual. The old argument against the new archi-tecture without decoration — that it resembles factories too closely — can best be denied on the site where it can be compared with the neighbouring standard factory buildings. Even the best factory buildings of the anonymous Chicago school have nothing in common with the dimity of proportion and the careful dignity of proportion and the careful construction of the Campus buildings. Even the factory buildings proper of the Campus, the Armour Test Laboratory and the heating building prove the truth of the Rohe principle that good proportions do not cost anything even if the material execution must be simple. The really representative buildings of the Campus have not yet been built. The Campus have not yet been built. The administration building and the building of the Student Union will differ from the less pretentious school buildings in their larger form, i. e. in comprehensive basic proportions. Unbroken, large-size brickwork fillings will contrast with huge plass surfa

The building programme of a school, and in particular of an institute of technology in particular of an institute of technology whose growth parallels the rapid deve-lopment of technics, must needs be sub-ject to changes. Mies realized at the very outset that flexible utility conditions must be reckoned with. The decision in favour of a structurally uniform plan simplified the adaptability of the build-ings. The proportions within a structu-rally autonomous entity can easily be opened wider or closed if the space requi-rements so dictate. rements so dictate.

Reserve, subordination of the parts in favour of the whole — these principles are scarce in a time favouring personal and collective exhibitionism. "Modernis-tic" architecture is particularly rampant in America. The cliches of modern archiin America. The cliches of modern archi-tecture may be met with everywhere the "publicity" architects have taken them over. The buildings of Mies must look plain and simple by comparison. The absence of astonishing details, dramatic colour in material and pigment may be too dry for many eyes accustomed to the multi-coloured and playful. The sacri-feing of all constrain of marrithing in ficing of all sensation, of everything im-posingly theatrical, of the playfully cosy, and the technical clevernesses requires strength and sound knowledge of values.

Apartment Houses in Chicago

A co-operative apartment house of 22 storeys, whose design was entrusted to Mies, has now been in use for a year. The "Promontory Apartments" have been realized as a simple cellular structure. The skeleton is a concrete construction, the fillings are of glass and brickwork the fillings are of glass and brickwork. The building is very expressive in its plainness. The regular order of the façade is subordinated to the principal cube of the building, although the vertical sup-ports of the skeleton project from the façade and are carried throughout the height of the building in monumental order. The projecting supports are redu-ced in four rhythmic sections. The build-ing contains two lift shafts and two separate entrances on the ground-floor, with a spacious lobby between. The play-ground and car park for the inhabi-tants are placed behind the house. The principal rooms of the apartments face the lake. The horizontal rows of windows lake. The horizontal rows of windows admit the distances of Lake Michigan to the rooms and compensate for the com-The rooms and compensate for the com-paratively confined space of the flats. In the same district, in the South part of the town near the University of Chicago, replicas of the same type are planned. These buildings are important as instan-ose for the realigning of a holder plant These buildings are important as instan-ces for the realization of a bolder plan: a skyscraper dwelling-house made of steel and glass. Since the projects of an open building of the years 1919/21, Mies has had to wait for an opportunity of realiza-tion. Two large apartment buildings of this type are now almost finished. A large proportion of the apartments have al-ready been sold; the distrust of trans-

parent, thin walls was less wide-spread than could be assumed. These buildings will determine empirically whether the public will take to the open building. The steel and glass buildings are situated on the lake-side, near the centre of the town. They will be realized in accordance with a co-operative principle like the Promotory Apartments on the Southern side

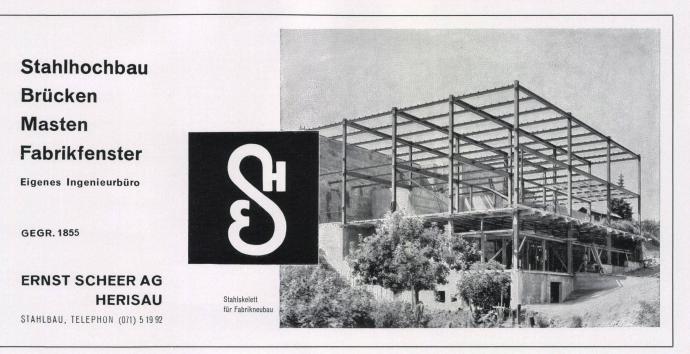
So far Mies has not been given an opportunity of realizing his contribution to the detached house within the frame of a town, as a group of differentiated court or straight-row houses with courts (1931). The first detached house Mies could build in America was a country house for a lady doctor. It is a glass house in a wide field with beautiful tress. The house is built and lived in the relationship of the straight of

wide field with beautiful tress. The house is built and lived in to enjoy the calm of the country and greenery. A variant of the simple house, consisting mainly of floor and ceiling elements with independent order of the rooms inside and a glass enclosure is now being deve-loped by Mies for the requirements of a large family. The house will also stand in an open field. Mies was long known as the architect

Mies was long known as the architect who had built little and whose ideas were difficult to put into practice. The new phase of his work brings a wealth of practical realizations. Miss thinks that he phase of his work brings a wealth of practical realizations. Mies thinks that he would probably have built in the same manner anywhere, had he not gone to Chicago. But America usually allows a person to tackle problems more radically, and the reality of industrial building methods is more forceful in the scale of this country. It is typical that Mies realizes his large building projects in collaboration with architects and con-tractors. The individual architect is hardly able to build. Mies may function in the maze of complex building without losing sight of the essentials. His values have not grown on the soil of Chicago. Thus it is of no particular importance that the fundamentals of his values are hardly understood; the certainty of his values is pragmatically realized. Mies has become the conscience of the Chicago school. He is fulfilling Sullivan's heritage by demonstrating the obvious direct. Frank Lowd Wrigh hes taken over the ormentic school. He is fulfilling Sullivan's heritage by demonstrating the obvious direct. Frank Lloyd Wright has taken over the romantic leanings of his teacher Sullivan, which is noticeable in the ornamental decoration even of his most clear-cut buildings, and he has intensified them into the opposition-ally subjective creations of his late period. Mies' attitude points towards the future, in particular through his ability to subordinate space and formal imagin-ation to the essential principles. Thus he paves the way for anonymous building which will enable sensible solutions of the payes the way for anonymous building which will enable sensible solutions of modern problems to be achieved and provide a sound basis for the develop-ment of really new technical and aesthetic contributions to architecture.

Roma Termini Station (pages 13-14)

The old terminus, which had for a long-time been too confined for the ever-increas-ing traffic, has in recent years been repla-ced by a series of new service buildings which are among the largest of their kind. The visitor to Rome is received by the



symbols of antiquity integrated in the new structures, the Wall of Servius Tul-lius and the Thermae of Diocletian, the latter forming the horizon of the Square of the Five Hundred, the former the clo-sure of the vestibule whose rhythmically designed ferro-concrete roof takes up the curvature of the wall and transmits it to the projective construction the engineer's construction.

Foundry at Rho, Italy (page 15)

The peculiar architecture of the building The peculiar architecture of the building is the result of the necessity of providing even lighting of a large area while the roof must permit free escape of the smoke and vapour generated. This end was achieved by a cross vault spanning the main wing whose arches rest on supports of different size so that roof windows could be arranged to open in the vertical. This solution, which is excellent from the functional viewpoint, creates an arrest-ing architectural effect in the lightness of the free span of the vault over the glass walls. In addition, the main wing vault possesse all the advantages of the old sheds and is, at the same time, considersheds and is, at the same time, considerably cheaper.

Administration Building of the Swiss Association of Fruit Growers, Zug (pages 16-19)

The building is situated on the large arterial road linking Zurich with Lucerne and the St. Gothard. In order to avoid, as far as possible, the noise of traffic in the office rooms, the building was set back from the road and separated from it by

office rooms, the building was set back from the road and separated from it by a wide green space. The plan tends towards a clear sepa-ration of the room groups according to their purpose, preferably on separate floors. The ground-floor houses the en-trance to the rooms of the Association, the post office with its separate entrance, and caretaker's and chauffeur's apart-ment with separate entrance. The two upper floors house the offices which are ar-ranged facing East and West. They are constructed on the basis of a unitary principle of 3,5 metres distance between axes and 13,5 square metres area. This comparatively small area with a depth of only 4,0 metres was made possible by arranging the heating in the ceilings so that the space usually taken up by radiators could be employed for counters built to the height of the sills. The com-bination on floors of individual room creaters on which the plan is beed also bination on floors of individual room groups, on which the plan is based, also finds its structural and optical expression in the external appearance: the two office floors with the unitary concrete module of 3,5 distance between axes are clearly defined against the ground-floor, which partly rests on pillars and partly is set back. Unfortunately the solution suggested by the architects concerning a roof terrace and set-back superstructure with conference norm and staff rest room with conference room and staff rest room was not adopted — it would have been a solution which might have been struc-turally more correct and architecturally more satisfactory.

Office and warehouse building Allega AG., Zurich (pages 20-21)

AG., Zurich (pages 20–21) The firm Allega, subsidiary company of the Chippis Aluminium Works, required an office and warehouse building suit-able for the requirements of the sales organization and the nature of the ma-terial to be stored, which was to be built on the outskirts of the City of Zurich within 11 months. The site was an old stone-quarry on the main Zurich-Baden traffic artery. The level of the site was 4–5 metres below that of the adjacent streets, and this difference could be utili-zed by providing free basements on the

streets, and this unterface could be unti-zed by providing free basements on the rear yard fronts. The building comprises two principal wings with office and warehouse sections. The former houses a rationalized office organization employing the most up-to-date equipment, and its further growth is allowed for by ample space reserves in every room. Light-alloy profiles are

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vertically or horizontally stocked, according to sections, in the warehouse, together with light-alloy sheets and Aluman roofing sheets

New_Factory of Suter Biscuit Ltd., Winterthur (page 22)

The factory is situated in the centre of the town. The concentration of the struc-tural volume, the rational utilization of space, and an efficient interior organi-zation (on two and three floors) have enabled a minimum area to be taken up. The silos housing the raw material have been accommodated in the roof superstructure. Automatically, the roor super-structure. Automatically, the raw ma-terial is fed to the first-floor manufactur-ing shop crossed by an S-shaped con-veyor system. The goods are then, again by automatic conveyors, moved into the forwarding department on the ground-floor whence they are loaded into deli floor whence they are loaded into deliverv vans.

Steel Constructions (pages 23-29) General Development

In 1784 the Englishman Henry Cort first In 1764 the Englishman Henry Och Inst produced useful malleable iron by means of pit coal in a reverberatory furnace by the puddling process. The new building material was not then invented but for the first time produced in greater quan-tities and substantially improved in quality. The price of this new material was high, a fact which forced engineers to use the new building material most economically

cally. England was the first to use relatively large quantities of iron in building, and a considerable number of arch bridges were constructed as a result. While such con-structions were made in France at the turn of the century, Americans embarked on the construction of suspension bridges which offered greater gase of calculation which offered greater ease of calculation. The peculiar features of the new material and the manner of working it, which is different from that used with stone or wood, caused the traditional building forms of the historical styles, which were above all adapted to stone structures, to be discontinued. The designing of build-ings could be based on but two fundamen-

be utsonkinker. The designing of bind-ings could be based on but two fundamen-rally opposed principles: the principle of mathematical engineering and that of the artistically architectural. According to the task set, one or the other of these principles was given preference. Within a period of approximately two centuries, building has developed from the level of craftsmanship to that of scientifically calculated constructions. After artists and architects had drawn the engineer's attention to the peculiar beauties of his structures, the latter began to set more store by the aesthetic aspect in addition to the principles of statics, construction and economy. The endeavour of the modern engineer to make use of every advantage of the building material and to achieve a maximum of efficiency and to achieve a maximum of efficiency and usefulness, occasioned a fertile interrelation of constructive principles and creative realization, and has led to novel forms

Wood has been used for building from Wood has been used for building from time immemorial, steel for the last 150 and ferro-concrete for the past 50 years. Each of the three "rivals" has proved its worth for so long and so convincingly that the three building types may compete, but cannot oust one another. The historical evolution has proved that every new type of building can only increase the efficiency of those already existing, and multiply the variety of their uses. Thus, when ferro-concrete was invented over fifty years ago, steel construction too derived a new impetus.

Development in Switzerland

At the beginning of the 19th century, the At the beginning of the 1sth century, the textile industry was most advanced in this country. Its machines were first im-ported from England. By and by textile machine works were established at home. But since the textile industry required a variety of other equipment apart from

the textile machines, engineering gradu-ally developed in Switzerland as well. With the advance of industrialization, the machine industry gradually waxed in importance. From this general technical and industrial development, steel con-struction has emerged. The building of the Swiss Federal Rail-ways — from 1850 to the outbreak of World War I — constitutes the basis on which the Swiss steel engineering industry could be developed and raised to its pre-sent important position. The building of the railway system required many bridthe railway system required many brid-ges — frequently large ones — for which there was practically no other material, There was practically no other material, apart from a few exceptions, than steel. The importance of bridge building for steel construction can be grasped to its full extent only when the extremely slow development of steel buildings from 1850 to 1890 is taken into consideration. The large tasks, which would have been pro-portionate to the efficiency of structural steel, and which would have shown its usefulness and economy, were missing for a long time. Only the erection of the large hall of the Zurich main station in 1867 (Illustration No. 8) and the Zurich Stock Exchange in 1878 caused the use of steel

to be taken up in public buildings. From modest beginnings, steel building came to occupy a position which is now decisive in the steel industry. In particu-lar, two circumstances contributed to this development: the extent of our industrial enterprises and the consequent growth of our principal towns. Steel could perform duties in building which, at least at the stage of development of building technique then attained, other materials could not.

materials could not. From 1890 onwards, steel constructions became more and more popular for large buildings, above all for office buildings and hotels. One edifice of that period deserves special mention: the Jelmoli Department Store (illustration 10), which is the first instance of an all-steel skeleton structure in Switzerland.

Steel buildings were soon adopted by the industries. One after the other, the large machine works had their workshops and

machine works had their workshops and stores constructed in steel. The era characterized by wider use of steel in building was effectively supported by a new technical development, the ex-ploitation of Swiss water power. The building of power stations produced hyd-raulic structures in steel. In this field, Switzerland has been largely independent of foreign example, and she has followed of foreign example, and she has followed developments of her own. Up to the outbreak of World War I the exploitation of Swiss water power had assumed major proportions. It is to this development that steel building owes years of practical experience and its present renown far across the frontiers.

Buildings

Steel skeleton structures are characterized by separation into supporting and closing elements. Strictly speaking, a steel skele-ton structure is a construction of sup-ports, under-girders and roof bars in steel which constitute the supporting skeleton of a building, which is usually several storeys high and in which walls and ceil-(Illustration 17). There is, therefore, a three-dimensional framework of supports three-dimensional framework of supports and girders which may be mutually stif-fened. The filling system, i. e., the ma-terials for ceilings and walls, assumes the function of closure. It transfers the storey-to-storey stresses to the steel skeleton and, independently of other structural elements, conducts them down to the foundations. foundations.

The beginning of this special type of building dates back only a few decades in Europe, while steel skeletons have been common in America for a considerable time, in Chicago since 1883. Owing to the increasing prices of sites, in particular in the centres of the large American towns, it proved necessary to build high on com-

paratively small areas, and to increase the number of storeys continually. Today, the highest building is the Empire State Building, which was completed in 1948, with 102 storeys and an overall height of 415 metres. Steel construction also permits of rapid

completion of the buildings, since the individual elements can be worked ready for use in the workshop. The short erec-tion times for steel and the dry building of ceilings and wall fillings enable building

of ceilings and wall fillings enable building times to be considerably shortened. Proof of the popularity of steel construc-tions in America is given by the fact that up to 50° % of all houses in all the larger towns are built in steel, not only because this is economically more advantageous but also because of the saving of time, which amounts to $60-70^\circ$ % in America.

Hall structures

Against steel skeleton structures, the wide-span supporting elements for the roofs are the essential features of hall or shell structures. The following points are of importance in the construction of industrial halls: lighting in the roof and walls, execution of the roofing and drai-nage, crane installations and distances between pillars.

Elements and Building Forms

In the development of steel building forms, a decisive change has taken place of late, which is to be attributed to the manner of joining the structural elements. While rivets and bolts used to be the only connecting means, these are now replaced by electric welding in the work-shops. Welding technique allows the en-gineer greater latitude in form than the former connecting means. Moreover, he is able better to conform to aesthetic reable better to conform to aesthetic re-quirements, which today are, quite rightly, more exacting. As a rule, nature and economy in Switzer-

As a rule, nature and economy in Switzer-land do not make great demands upon steel construction as is the case abroad. Our rivers are not so wide that they require bridges of outsize spans, and the prices of building sites in the towns are not yet so high that building must be high. Nevertheless, steel building pos-sesses a considerable economic and tech-nical importance for more building posnical importance, for many building pro-blems would not have been solved in the past and could not be solved in the future with other building materials.

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