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Contributors

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VISIT THE ACHEMA EXHIBITION -- WHITSUN 1934!

Visitors from other countries to ACHEMA VII and manufacturers outside Germany,

wishing to exhibit are recommended to apply to the honorary official representatives of ACHEMA VII:

For Italy: Dr. A. Sander, Milano, Via la Romagna 48.

For Lettland: Dipl.-Ing., Dr.-Ing., Dr.-Chem. Harald Hahne, Riga/Lettland, Tiltu Iela 22.

For Roumania: Prof. Dr. Staehelin, Bukarest II, Calea Grivetei.

For Spain: Ricardo Cassana, Ingeniero, Barcelona/Spain, Mallorca 314.

For Hungary: F. C. Chrambach, Cons. Ing., Ph. D., M. Inst. M. M., Budapest, Mária Valéria ut 31.

For Jugoslavia: Kurt Stahl, Beograd, Poste-Restante 203.

For Norway: Henry C. M. Ingeberg, Dronheim, Technical College, N. T. H.

For Holland and Belgium: A. Höfelt, The Hague, Daguerrastraat 73.

Visitors to ACHEMA VII from Canada and the United States

have excellent travelling facilities to Germany, in the ships of the North-German-Lloyd line, in particular the express liners "Bremen" and "Europa", as well as the cabin steamers "Berlin", "General v. Steuben", "Stuttgart", "Dresden", etc. The railway connections between Bremen and Cologne are remarkably good.

Acid resisting pumps and other acid resisting equipment,

in Krupp's special alloys Thermisilid, V 2 A, V 4 A, capable of handling sulphuric acid, nitric acid, hot sulphite lye, acetic acid etc., and also patent 'free flow' valves for acids and hot vapours are being exhibited in Hall III by Amag-Hilpert-Pegnitzhütte, Nuremberg, at the Friedrich Krupp A.G. stand.

At the ACHEMA VII, in Hall I you will find acid resisting stoneware, made by Gebr. Lungen, G. m. b. H., Ekkrath, Rhineland.

At the very centre of all German technical and scientific plans for the year 1934 stands the



which is being held during the 47th General Meeting of the Verein Deutscher Chemiker at Whitsuntide, from the 18th to the 27th May 1934. The illustration shown above depicts the Rhine front, 525 feet long, of the Exhibition building at Cologne, with its three great, airy well-lit Halls, having a total floor space of over 215,000 sq. feet.

At no cost to yourself you can obtain the ACHEMA Yearbook for 1931-34,

which contains a 'Report on the Evolution and present State of Chemical Plant', a buyer's guide, and a description of everything new in the ACHEMA VII. — published by the DECHEMA (Deutsche Gesellschaft für chemisches Apparatewesen). All you need do, is complete the form on page 4, and forward it to the "ACHEMA-Geschäftsstelle, Seelze bei Hannover, Germany", enclosing two international prepayment stamps to cover the postage.

Special Reduced Fares from England, Belgium and France, to the ACHEMA VII in Cologne, can be arranged through the travel agency, Hagemann and Co., Bad Aachen, Bahnhofstr. 32.

The Greatest Technical Exhibition in the World, dealing with Progress in Chemical Science and its Application: -

that is the aim of the ACHEMA VII. Nearly all the leading German manufacturers of chemical plant, equipment, apparatus and instruments will be exhibiting, and will provide an unrivalled opportunity for you to bring your knowledge up to date in all branches of chemical science and practice, so far as plant, equipment and accessories are concerned.

Many Scientific and Technical Societies and Associations

will be holding their General Meetings in Cologne at Whitsun, during the ACHEMA VII. Among their number are the Brennkrafttechnische Gesellschaft, Berlin
DECHEMA, Deutsche Gesellschaft für chem. Apparatewesen
Deutsche Bunsengesellschaft f. angew. physikal. Chemie
Deutscher Acetylenverein, Berlin-Friedenau
Deutscher Normenausschuß E. V. (DINORM), Berlin
Essigsäuregesellschaft m. b. H., Frankfurt a. M.
Kölnner Bezirksverein Deutscher Ingenieure
Verband für autogene Metallbearbeitung, Berlin
Verband deutscher Apparatebauanstalten, Berlin
VDCh., Verein deutscher Chemiker, Berlin
Verein deutscher Eisengießereien, Düsseldorf
Verein deutscher Kupferschmiedereien, Hannover
Vereinigung der deutschen Dampfkessel- und Apparateindustrie
Carbid-Vereinigung, Berlin.
These gatherings alone ensure you an opportunity of meeting many thousands of expert technical men, with whom you can discuss the latest developments in chemical plant.

Are you a Research Chemist or a Works Chemist?

or a specialist in analytical, pharmaceutical or food chemistry? — or a fuel, carbonising, oil, dye or textile chemist? Whatever the branch of chemical industry in which you are interested, the ACHEMA VII will give you an accurate knowledge of the development and present position of all plant and instruments relating to your subject.

Ampoule Filling Machines

Are displayed by the firm of Ambeg in Hall III.

COLOGNE IS CALLING YOU TO ACHEMA VII!

Scientists! Chemists! Engineers! from all parts of the World - - -

Will you be absent?

when the leading German plant and machine makers display their achievements and the progress they have made to experts at the ACHEMA VII? If you have not already reserved a stand at this exhibition, do so now, before it is too late. Write to the ACHEMA office, A C H E M A - Geschäftsstelle Seelze b. Hannover (Telephone No. Seelze 288).

For Distance Humidity Indicators

operating on the only satisfactory hygrometric principle and capable of working continuously with a high degree of accuracy — for humidity indicators and recorders, suitable for all temperatures and all pressures — apply to **Lambrecht**. A special display of indicators, recorders and distance indicators for the measurement of pressure, draught, vacuum, temperature, depth and fluid flow will be held in Hall I by **Wilh. Lambrecht, A.-G.** of **Göttingen**.

Three Important Points for Visitors to the ACHEMA VII:

1. Make a note in red pencil in your diary: Whitsun 1934, ACHEMA VII, Cologne on the Rhine.
2. Tell all your friends and acquaintances that you will meet them at Whitsun, 1934 at the ACHEMA VII in Cologne.
3. Let the ACHEMA office (ACHEMA - Geschäftsstelle Seelze bei Hannover) know any addresses to which you would like the ACHEMA leaflets sent.

Tanks, Mains, Agitators

evaporators, coolers, preheaters, coils etc. of the very best workmanship in pure aluminium, light alloys, copper, nickel, V2A steel for use in the chemical industry can be supplied in standard designs, or to your own requirements by **Schmidting - Werke, Köln - Mansfeld**. ACHEMA VII, Hall III.

The ACHEMA VII offers the manufacturer a unique Opportunity

to gather ideas for the improvement of his products, to strengthen his established business connections and to open new markets through the personal interchange of opinions with experts in all branches of the chemical industry.

Acid coolers

for hydrochloric acid, nitric acid, sulphuric acid. **Wesslinger Gusswerk - Rheinguss G.m.b.H., Wessling, Bez. Köln**, in Hall III at the ACHEMA VII.

What is new in the ACHEMA VII?

You will find the answer to this question in the ACHEMA Yearbook 1931—34, which you can obtain gratis by filling up the form on page 4 and forwarding it to the ACHEMA office, A C H E M A - Geschäftsstelle, Seelze bei Hannover, enclosing two international prepayment stamps to cover the cost of postage.

What Progress has been made in the Design of Chemical Plant during the last four years?

You will find the answer at ACHEMA VII if you compare the machines and plant displayed with those which will be shown in the ACHEMA VI film. This film, which is 5000 feet long was made at the Frankfurt on Main exhibition in 1930 and will be shown continuously every day.

Incubators,

of the most modern construction will be shown in Hall II by **Dr. N. Gerber's Co. m. b. H., Leipzig**.

Will you be absent?

when the leading German plant and machine makers display their achievements and the progress they have made, to experts at the ACHEMA VII? If you have not already completed the form on page 4, do so now. As an "intending visitor" you will receive a free admission ticket to the ACHEMA VII and a free copy of the ACHEMA yearbook 1931—34, (provided the first edition is not exhausted). In addition you will receive gratis all communications of importance to "intending visitors".

The most modern apparatus for PH and Conductivity Determinations

will be found in Hall II. **F. u. M. Lautenschläger, G. m. b. H., München**.

At no Cost to Yourself You can be entered as an "Intending Visitor"

in the files of the ACHEMA VII, if you complete the form on page 4 and forward it to the ACHEMA office, ACHEMA-Geschäftsstelle, Seelze bei Hannover. Do not fail to do this, as it entitles you to several important privileges.

The Practical Expert

will find displayed at the ACHEMA VII ferrous and non-ferrous metals, non-metallic materials, special steels and stoneware. The special exhibition of "Autogenous Welding in the Construction of Chemical Plant" will demonstrate to him the most recent advances in that sphere.

Flow-meters,

indicating, recording, for any pressure, in any material, for all kinds of liquids and gases. — Hall II **Ludwig Grefe, Maschinenfabrik, Lüdenscheid i. W.**

The ACHEMA VII offers the user a unique Opportunity

to gather ideas for the improvement of his works practice, to become acquainted with new instruments and new plant, and to lay the foundations for the development of his by-products, through the personal interchange of opinion with leading experts of the machine-, plant- and instrument-industries.



ACHEMA VI. Part view of the large plant section in Hall IV (75,000 sq. ft.)

At the ACHEMA VII you will find

In Hall I Acid resisting stoneware, fireclay, and other products of the ceramic industries; instruments for measurement and control in industry; large chemical plant in non-metallic and non-ferrous materials; a display of technical literature; an exhibition of "Autogenous Welding in the construction of Chemical Plant".

In Hall II Scientific apparatus and instruments; laboratory appliances; standardisation publications.

In Hall III Large technical plant; equipment; technical accessories and machines; complete plants and processes; raw materials, intermediates and finished products; cinema.

Evaporators

of all kinds, for ordinary and easily decomposable liquids, with continuous and intermittent working at the highest efficiency. Twenty years experience in vapour recompression. Ejectors, injectors, preheaters, air pumps for high vacua, blowers, mixing plants, atomising spray-nozzles etc. in all materials and for all pressures. — Hall III, **Wilhelm Wiegand, Maschinenfabrik, A.-G., Merseburg 67**.

From 40 Countries, in all Parts of the Earth, Visitors came to the ACHEMA VI at Frankfurt on Main.

This alone justifies the claim of ACHEMA to be one of the leading international organisations. All these visitors were able to convince themselves of the typical advances made in the construction of German chemical plant; all these visitors assisted in the creation of new business connections.

Manufacturers! It is high time you reserved a stand!

meet each other at the ACHEMA VII from the 18th to the 27th May 1934, in Cologne!

The opinion of the leading organisation in the German Chemical Industry.

The Verein zur Wahrung der Interessen der chemischen Industrie Deutschlands states:

"The ACHEMA offers a favourable opportunity to become acquainted with the progress made in the design and construction of chemical plant. There is no doubt that it affords a definite stimulus to the replacement of old plant by new plant of higher capacity and greater efficiency and to the incorporation of other improvements."

The Visitor who is thoroughly well informed beforehand

is of vital importance to the success of any technical exhibition. This is effected in an exemplary manner by the ACHEMA Yearbook 1931-34, which you can obtain free if you will complete the form on page 4. At the same time you will be entered in the files as an "Intending Visitor", which will secure you several important privileges.

Acid Resisting and Refractory Stoneware

as well as an extensive display of materials for special purposes, capable of meeting modern requirements, will be shown at the ACHEMA VII in Hall I by the **Verkaufsgemeinschaft Silag-Silamit, Köln-Mülheim.**

The following Features will receive special emphasis at the ACHEMA VII:

- Autogenous Welding in the construction of chemical plant (Hall I).
- Packages and packing machinery for the chemical industry (Hall III).
- Technical instruments for measurement and control in the chemical industry (Hall I).
- Standardisation in the chemical industry (Hall II).

Centrifuges for the Chemical Industry.

Speciality: High Capacity centrifuges with pressure oil-regulator, patent horizontal bearings, continuous operation, automatic discharge: **C. G. Haubold, A. G., Chemnitz**, the oldest and most efficient manufacturers of centrifuges. Hall III.

Autogenous Welding in the Construction of Chemical Plant

will form the subject of a special exhibition at the ACHEMA VII under the auspices of Direktor Dr. Bachmann, Köln.

Alkali- and Acid-Resisting Hard Rubber Linings for Chemical Plant

are supplied by the **Allgemeine Elektrizitäts-Gesellschaft, Cable works — Oberspree; Rubber Factory — Berlin-Oberschöne-weide.** Samples and literature can be obtained at the ACHEMA VII, Hall I.

Standardisation assists Economy

why are you not using the DECHEMA portfolio for filing your "standards" publications? This portfolio holds 102 standard-sized leaflets of the standards for laboratory apparatus, glassware and chemical plant, and includes a list of 150 suppliers of standard chemical apparatus. The specially reduced price is RM 50.— (RM 40.— to members of the DECHEMA and the Verein Deutscher Chemiker) as compared with RM 76.50 which is the total cost of the individual leaflets. Details can be obtained from DECHEMA-Normengeschäftsstelle, Seelze.

You can be certain of Meeting many thousand leading Experts at the ACHEMA VII,

for while the ACHEMA VII is in progress, General Meetings of the following societies will be held: Verein Deutscher Chemiker, die DECHEMA, Deutsche Gesellschaft für chemisches Apparatewesen E. V., Deutscher Normenausschuss E. V., Kölner Bezirksverein Deutscher Ingenieure E. V., Verband Deutscher Apparatebauanstalten E. V., Verein Deutscher Eisengiessereien, Verein deutscher Kupferschmiedereien, Vereinigung der Deutschen Dampfkessel- und Apparate-Industrie E. V., and other leading scientific and economic societies.

Instruments for the Measurement and Control

of pressure and temperature; — **Dreyer, Rosenkranz & Droop, A.-G., Hannover, Hall I.**

The ACHEMA VII is supported by many leading Industrial Organizations

including the Verein Deutscher Maschinenbauanstalten (VDM), the Verein zur Wahrung der Interessen der chemischen Industrie Deutschlands, the Verband deutscher Apparatebauanstalten, the Verein deutscher Eisengiessereien, the Zentralverband der deutschen elektrotechnischen Industrie, the Vereinigung der Deutschen Dampfkessel- und Apparateindustrie, the Deutsche Gesellschaft für Mechanik und Optik. The participation of these industrial organizations indicates the supreme importance they attach to the ACHEMA VII.

From the very beginning, Cologne on the Rhine was predestined for the ACHEMA VII.

It lies at the centre of a widely spread chemical industry, comprising nearly 1000 works and employing over 40,000 people. It is very close to the Rhine-Westphalian industrial district. It is situated in the heart of Europe and can be reached with ease, not only from all parts of Germany but also from England, Holland, Belgium, France, Switzerland and even from the eastern European countries.

For Works control and Laboratory Purposes —

the latest appliances are shown in Hall II by **F. Hellige & Co., G. m. b. H., Freiburg i. Br.**



8 minutes walk from Cologne Station,

and from Cologne Cathedral — which is the centre of the town — are the exhibition grounds of the ACHEMA VII. The modern, light, and airy Halls, with a floor space of 215,000 sq. ft. and a frontage of 525 feet along the Rhine, are equipped with lecture theatres, cinema and restaurants and are surrounded by a magnificent park. These Halls have every facility for meeting all the requirements of visitors and exhibitors, and are equipped in a manner worthy of such a great international exhibition as the ACHEMA VII.

Meters of all kinds

indicating, recording and integrating will be exhibited in Hall I by **Dr. Kroeber & Sohn, G. m. b. H., Trauenbrietzen.**

All the Requirements of the Chemical Laboratory

will be met at the ACHEMA VII by exhibits of apparatus in glass, porcelain and the noble metals, by mechanical devices and by instruments for measurement and control.

The Special Visits for Students

which were organized for the first time at the ACHEMA VI and which met with great approval from the students and their lecturers, will again be arranged to an even greater extent at the Coming ACHEMA VII.

PH, values, Buffer Media, Acid-numbers and Electrometric Titrations!

All the most modern apparatus will be shown by **Dr. N. Gerber's Co. m. b. H., Leipzig**, in Hall II.

C o m e a n d s e e t h e N E W G E R M A N Y !

Complete today and forward to - DECHEMA, Seelze bei Hannover

The opinion of the leading association in the German machine industry: -

The Verein Deutscher Maschinenbauanstalten (VDM) reporting upon the ACHEMA, state, - "The ACHEMA is of definite importance as an educational Fair."

The Intention is Everything! -

That is the keynote of the coming ACHEMA VII. The preparations for this exhibition were begun as long ago as 1932, and it is our inflexible determination that the success of the ACHEMA VII shall contribute in a decisive and permanent manner to the reconstruction of German industry.

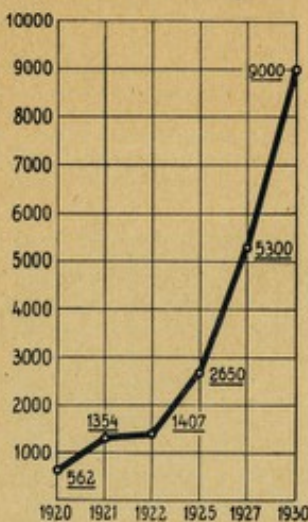
The Works Chemist

will find at the ACHEMA VII the latest grinding-mixing- and kneading-machinery, filling, packing and transport appliances, devices for the separation of solids and liquids, and complete plants: some will be actually in operation, so that the visitor may obtain a clear insight into the principles employed.

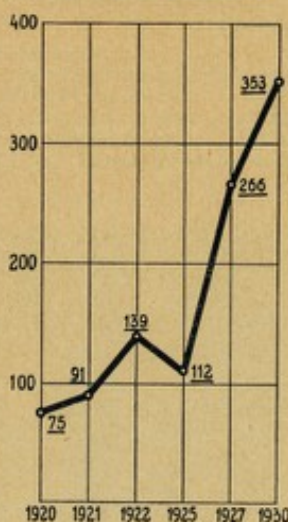
These Figures show the growing Importance of the ACHEMA Exhibitions.

Year	Location	Nett Exhibition Floor Space
1920	Hanover	562 q. m.
1921	Stuttgart	1354 " "
1922	Hamburg	1407 " "
1925	Nuremberg	2650 " "
1927	Essen	5300 " "
1930	Frankfort-on-Main	9000 " "

Nett Exhibition Floor Space



Number of Exhibitors



A Free Admission Ticket to the ACHEMA VII

will be sent to you, if you complete the form on this page and allow it to be included in the file of "Intending Visitors". By this means you will secure other privileges also, for example, a free copy of the ACHEMA Year Book for 1931-34, a report on "The Development and the Present Position of Chemical Plant" with a list of manufacturers, and an article on "What is new in the ACHEMA VII?". This Year Book is published by the DECHEMA - Deutsche Gesellschaft für chemisches Apparatewesen.

Autogenous Welding in the Manufacture of Chemical Plant.

The Verband für autogene Metallbearbeitung, Berlin, will be demonstrating at the ACHEMA VII in Hall I, the possibilities of autogenous welding in the construction of chemical plant. There will be also exhibits showing the application of welding to the more important metals used in the chemical industry.

The Importance of the coming ACHEMA VII will far exceed that of its Predecessors.

Detach here and forward to the DECHEMA Headquarters at Seelze bei Hannover

I shall probably attend the ACHEMA VII in Cologne

Please write in block capitals	Name	Town	Date
	Firm	Address	

Will you kindly grant me the following Privileges without any obligation on my part.

- 1. Free Ticket of Admission to the ACHEMA VII**
 (to be obtained from May 6th, 1934, onwards, at the ACHEMA Bureau in the Exhibition Grounds, Cologne)
- 2. Free Copy*) of the ACHEMA Yearbook for 1931-34**
 containing a "Report on the Development and Present Position of Chemical Plant" with a list of manufacturers appended and an article on "What is new in the ACHEMA VII?" Published by the DECHEMA - Deutsche Gesellschaft für chemisches Apparatewesen, E. V., Seelze bei Hannover. Please find enclosed two international prepayment stamps to cover cost of postage.

*) Until the first edition is exhausted.
- 3. Free Entry in the files of "Intending Visitors"**
 which entitles me to receive free copies of all the important communications which are sent to intending visitors.

Please send, free of charge, the ACHEMA leaflets to the following addresses: