Issue 17

inside acat

Newspaper for customers, friends and employees

- Department Industrial Chemicals - Nice and Smart
- Minerals for Various Applications
- Sustainable Innovations for Waste Water Treatment
- MicroStar® System: Next Generation - Retention System

Applied Chemicals International Group

Technical Service is our Success

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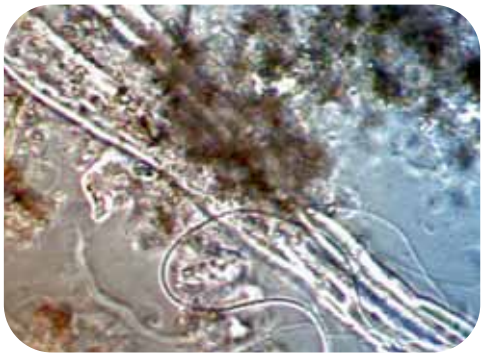
ACAT represents the Minelco-Group now, a specialist for minerals and for various applications



ACAT and SERVOPHIL AG cooperate closely in special customer projects

With WATROPUR and its subsidiaries ACAT has got a strategically important partner

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CH-4015 Basle, Neubadstrasse 7;
T: + 43 1 979 34 73 • F: + 43 1 979 34 73-14555
• e-mail: international@acat.com •
Website: www.acat.com • Editor: Dr. Gildis Grabner •
Layout: Dieter Spet • Cover: Petra Dirschl/pixelio.de •
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Photo: Nestler-Kenzian

Manfred Zabl

Dear readers,

With this issue of "inside acat" focusing on "Industrial Chemicals" we want to offer you an interesting and informative read. In recent years, this third department of ACAT has expanded greatly and it enriches our portfolio with a sector of rapid growth. Despite difficult economic conditions, the demand for specialty chemicals in the fields of construction, paints and coatings, sealants as well as in rubber and plastics industry remains at a high level. Therefore our technical sales team for Industrial Chemicals has to cope with many new interesting tasks.

Nowadays, a reputable businessman needs a broad back and a variety of stable mainstays to lead a company through periods of heavy storms. Smaller companies, like us, that are not listed on the stock exchange, have on one hand the enormous advantage of being able to calculate cheaper because of leaner structures and reduced profit squeeze, but on the other hand unstable markets and the lack of stability of production quantities, together with increasing raw material prices, leads again and again to new and exciting challenges.

"Life is like a box of chocolate – you never know, what you will get", Tom Hanks said sitting on a park bench in Savannah, Georgia, in the Hollywood classic movie "Forrest Gump". An almost philosophical statement so rare in movies today. I think that there is much truth in this reflection. This saying is relevant for many areas of life, but especially it is relevant for today's business life. Managers are well advised to guard against the unpredictability of the elements.

It helps to have a well-diversified portfolio regarding in both range of products and sales areas, but more effective tools against the insecure environment are leading and sustainable innovations. In recent years we have been active in this field and we have been able to achieve notable successes: a revolutionary new micro particle retention system and an on-site chemicals production machine for paper industry to improve strength, a newly developed and optimised screw press for the environmental technology and numerous smaller developments, all of which we would like to introduce to you in our company magazine "Inside ACAT".
These new developments give us more room for spreading new technologies, and furthermore they provide our carefully stabilised company structure the dynamic power for the future!

With this in mind I wish all our readers an interesting reading and much sun for the coming months!

Manfred Zabl
CEO Applied Chemicals International AG

SERVOPHIL & ACAT - Concentrated Competence for a Better Machine Runnability

Photo: Servophil AG

Powder processing

To meet the increasing requirements of paper making processes, the suppliers to the paper industry have to focus on special fields. As the knowledge of the wet end chemistry of paper machines has become very complex, suppliers need a broad spectrum of competencies. The pre-condition to achieve the best possible results is sensitive coordination of the chemicals used. Insufficient fine tuning results in reduced productivity and mysterious phenomena may occur during the production process, which are difficult to control.

There is hardly a supplier who is a specialist in all fields. Most of them focus on specific fields, depending on production conditions and on the technological specialization of the technical staff of a company. Only the specialized suppliers with their deep knowledge are able to control accurately the complex reactions. But who takes care of the interaction of the different chemicals? An all-round support team would be required!

Servophil and ACAT, two Swiss companies, have achieved a common approach to the solution of this problem. Since the beginning of this year Servophil, an internationally recognized specialist for biocides and system cleaning, has been cooperating with our company, specialized in dry strength retention and fixing agents, to create a unique overall concept for paper- and board production. The first joint applications have already got off to a very successful start and in every respect the effectiveness of this concept is obvious.

We look forward to continue our good work together with the really excellent team of Servophil, and our customers can look forward to optimal coordination of the chemicals used , which implies process optimization and, as a further consequence, costs will be reduced!

Text: Manfred Zabl

Welcome to
ZELLCHEMING EXPO 2013!

ZELLCHEMING EXPO
FIBERS IN PROCESS
June 12-14, 2013 - Wiesbaden - Germany

In the past two years we presented ourselves successfully at the ZELLCHEMING EXPO, the annual event for the European pulp, paper and supplier industries.
The trade show gave us the opportunity to meet many customers from different fields and countries at our stand, and we had many interesting discussions with them. We have gained an insight into the needs and concerns of our customers and subsequently we have endeavoured to take their wishes into account.
We would be very happy to welcome you face-to-face again at the ZELLCHEMING EXPO 2013 that will take part from 12 to 14 June 2013 in the Rhein-Main-Halls in Wiesbaden, Germany.

The exhibition is an excellent opportunity to discuss trends and actual developments. For 2013, the existing concept will be extended under the motto “Fibers in Process”. Of course, we look forward to the feedback of our customers.
But, ”nothing ventured, nothing gained”. It is not a fault to adopt new approaches.
This year, our main focus will be at the dry strength agent BondStar®, because dry strength agents are the current trends in paper industry. In addition, we will present fixing agents to reduce impurities, retention and flocculation agents. We look forward to your visit!

Text: Nuri Kerman

APV 2013: Water and Fiber - a Sustainable Combination

Our exhibition stand was a favoured meeting-point

FUTURE.FORUM PAPER
15th – 16th May 2013 The Austrian Paper Conference messecongress graz
with trade show for pulp and paper industry

On the 15th and 16th May the focus of interest of one of the most important sectors of the European economy was on Graz. Every year in Spring, the representatives of the pulp and paper industry meet at the Austrian Paper Conference to find common responses for the challenges of the future. “Water and Fiber - a Sustainable Combination” was the motto of this year's conference, and it linked to the international year of cooperation on water affairs.

In past years the numbers of visitors attending the APV conference has steadily increased and in 2012 over 500 visitors were welcomed.

Of course, this year ACAT was again represented. We would like to take this opportunity to thank all our customers for their visit to our exhibition stand!

Text: Stefan Schaub

EUROPEAN COATINGS SHOW 2013

After four days filled with intensive discussions the European Coatings Show and Congress ended. Again the exhibition was very successful for ACAT, as a high number of customer and supplier contacts were noted.

With 962 exhibitors from 42 different countries in seven exhibition halls and about 26 000 trade visitors from more than 100 nations, the European Coatings Show and Congress is still Europe's leading Congress on high quality paints, coatings, sealants, construction chemicals and adhesives.

This year, it has become evident that sustainability is a major driver of innovation for the construction and coatings industries.

Text: Alexander Frank

Departement Industrial Chemicals - NICE AND SMART

The smallest department of ACAT provides high quality products for many applications of chemical industries. The following article gives a short overview of the broad product portfolio of our industrial chemicals and of their applications.

AUTHOR: **ALEXANDER FRANK**

Gabi Horak, the "backbone" of our office work

First of all we would like to introduce our "Industrial Chemicals Department". Highly committed and motivated employees are the key to success. Their professional competence and their commitment make it possible to be successful in the harsh competitive market of special chemicals for various applications. These are the members of the team in alphabetical order:

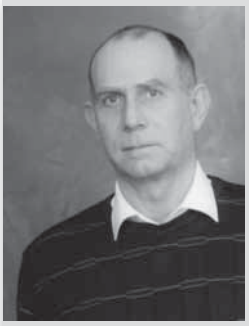
The "backbone" of the office work is **Gabi Horak**. She ensures that products are delivered to customers on time, no matter whether it is a truck load or a parcel with "only" 25 kg of a specialty. The preparation and the control of offers and invoices are also part of her duties and she is responsible for meeting the special requirements of our customers (for example: small container filling)

Paula Ignatescu supports customers in Romania and Moldova

Even after his retirement Egedij Seles supports our team

Paula Ignatescu successfully supports our customers in Romania and Moldova. With technical competence and commitment she is able to assert in a difficult market environment.

Egedij Seles was a longstanding employee of ACAT. Even after his retirement he supports our team. He enjoys having contact with customers and he markets some specialty products especially in Slovenia and Croatia.



Karel Skoda, responsible for the Czech Republic, Slovakia, Slovenia and Croatia

Photos: Nestler-Kenzian

Our sales representative **Karel Skoda** is tirelessly on track. His areas of responsibility include the Czech Republic, Slovakia, Slovenia and Croatia. Whenever a question concerning chemical additives comes up, his comprehensive knowledge is sought. Karel Skoda was particularly successful in building the sales and distribution structure for the additives of the Münzing Chemie.

Gerhard Zima is active for our customers in Hungary

Gerhard Zima is responsible for the product portfolio in Austria and Hungary. I am deeply impressed that he attends a language course in his spare time, to be able to communicate with customers in their mother tongue. And Gerhard Zima is also our expert for launching new products.

And last but not least I would like to introduce myself. My name is **Alexander Frank**, and I am head of the department. Since 2009 I have had the pleasure of working with such an excellent team of employees, and I only can say: It is great fun to work under these conditions.

Alex Frank, head of the department

Our department distributes and sells a broad range of specialty chemicals for various industries. First I want to give a short overview of some interesting areas of application.

Due to the variety of applications it is impossible to provide a comprehensive overview.
One of the most important customers is the construction materials industry. For tiling adhesives, floating screed, construction adhesives and plasters powder-defoamers and shrinkage inhibitors are used.
Dispersing agents, defoaming agents, wetting agents or rheology additives are the classic additives in the paint and coatings industry. Our products are an essential component of paints for both indoor and outdoor use, of special lacquers as well as of dispersion paints.
For example, seals, adhesives, rubber goods, plastics and many other industrial products contain our fillers, kaolin, calcium carbonates, mica or diatomaceous earth.

Pigments and dyes as well as their preparations are used for many applications. Our customers include producers of fertilizer and stamping inks. Inorganic colored pigments are used in the ceramics industry. The mineral flame retardants are indispensable as additives in the manufacture of plastic and rubber as well as for cables, cast resins and laminated plastic panels. We provide aluminium hydroxides, expandable graphite and calcium magnesium hydroxides.
Mineral fibers are also used for fire protection coatings and as reinforcing fibers for example in friction linings or in high temperature seals.

Finally our agricultural products should be mentioned. They are successfully applied as an adhesive in greening.

The following summary provides a brief overview of our product range:

- Dispersing agents, wetting agents, rheology additives
- Powder defoamers and shrinkage inhibitors
- Kaolin, calcium carbonates, mica, diatomaceous earth
- Pigments and dyes
- Mineral flame retardants
- Mineral fibers
- Agricultural products

Please feel free to contact us for a comprehensive and competent advice for our products and their applications. We welcome all your inquiries.

Environmentally Friendly Logistics for Bulk Goods

LKW WALTER - Your Carrier Throughout Europe

LKW WALTER is a totally independent, private, family-owned Austrian business, and it is one of the leading transport organisations for European full truck loads. Within the European ranking of carriers he holds a leading position with an annual turnover for 2011/2012 of EUR 1,48 billion.

AUTHOR AND PHOTOS **LKW WALTER**

The head office in Wiener Neudorf and the branch office in Kufstein organise - irrespective of the customer's location - full truck loads within Europe as well as to Russia, Central Asia, Middle East and North Africa. In 2012 more than one million shipments were handled.

With the environmental initiative "GREEN transport" LKW Walter has emphasized a significant feature to ensure eco-friendly transportation. Besides the use of modern low-noise and low-emission trucks a “Combined Transport” (“Rail/Road” and ”Short-Sea Shipping“) can be offered as an environmentally friendly transportation alternative.

With more than 3,500 crane-able trailers and over 800 swap bodies, LKW WALTER is one of Europe's leading combined transport operators. The software supported transport planning that optimises routes and reduces empty mileage, makes an important contribution to an ecofriendly transportation handling.

For ten years Applied Chemicals has been collaborating with LKW WALTER. Every year about 1.500 to 2000 tons are transported from the Benelux Countries, Italy France and Great Britain to Austria.

Besides modern low-noise and low-emission trucks the combined transport ("Rail/Road" and "Short-Sea Shipping") is an environmentally friendly transportation alternative.

Last year 33 of our shipments from Plymouth or Par (GB) were made with the combined eco-friendly transport reducing CO_2 emissions by over 44.000 pounds.

How does the combined transport work at the shipments for Applied Chemicals, in practice?

First the loaded trailers are pulled by truck from Plymouth to the port of Harwich (GB). Then they are shipped unaccompanied to Rotterdam (NL) and then again they are tucked to the rail terminal of Herne (GER). There the loaded trailer is placed on a LKW WALTER Company Train (block train) and transported to Vienna. From the "Kombi-Terminal Vienna" to the customer the trailer again is transported by truck.

For further information about
"Combined Transport"
As well as for a video animation, see
http://www.lkw-walter.at/de/kunde

LKW WALTER
Internat. Transportorganisation AG
AT-2355 Wiener Neudorf,
IZ NÖ-Süd, Straße 14, Postfach 36
Tel. +43 5 7777-0, Fax: +43 5 7777-33
E-Mail: austria@lkw-walter.com,
www.lkw-walter.com

MINERALS FOR VARIOUS APPLICATIONS

Henceforth Applied Chemicals also represents the Minelco-Group, a leading supplier of customised industrial minerals for various applications. Best quality and the sustainability of supply are assured, because Minelco has its own sources of raw materials and it controls the processing itself. Due to the strict controls a constantly good quality is also guaranteed for the products Minelco buys from long-standing partners. With this strong partner ACAT is able to supply many new chemicals for a number of applications.

AUTHOR: **ALEXANDER FRANK**
PHOTOS: **MINELCO**

In this article I want to introduce some products and give examples for their use. With our partner Minelco, Applied Chemicals has expanded its portfolio with top quality products. As we buy them directly from the producer, best customer advice can be given and communication with the product development department is possible.

The first product is ATH (aluminum trihydroxide), distributed under the brand name FordaGard.
It is derived from bauxite ore that is refined to a fine white powder via the Bayer process. The raw material used for the FordaGard products is from a high purity source. ATH is used for various applications, for example, as brilliant white filler in artificial stones, in furniture boards and others. With polymer materials it is used in applications such as glass reinforced plastic, rubber carpet backing, latex foams, thermoplastics and elastomers. ATH is used for the production of paints to enhance the degree of whiteness and to reduce the flame-retardant properties. The flame-retardant properties and the resulting smoke suppression are very important for adhesives and seals.

When exposed to heat ATH decomposes into aluminum oxide and water by the following reaction:

$$2Al(OH)_3 \text{ ----------> } Al_2O_3 + 3H_2O$$

When incorporated into materials such as textiles, plastics or wood composite materials, it reduces the heat of flames. The water vapour formed near the surface of the burning material leads to a depletion of oxygen, which is necessary for combustion.

Another natural halogen-free mineral flame retardant is HMT (hydromagnesite and huntite) distributed under the brand name UltraCarb.
It is used for the production of plastics, PVC and rubber products, for example, for cables. The result of the combination of the two minerals hydromagnesite and huntite is a unique new product. Specific properties customers need can be adjusted by selected mining and processing, because Minelco owns the source of these minerals.

The fire protection is achieved through a three-stage process:

- At 220°C water is released
- At temperatures of approximately 330°C CO2 is released

- At temperatures of approximately 560°C filler particles accumulate at the surface of the burning polymer to form a stable cementitious ash, which inhibits the combustion process and the spread of the fire due to burning plastic droplets.

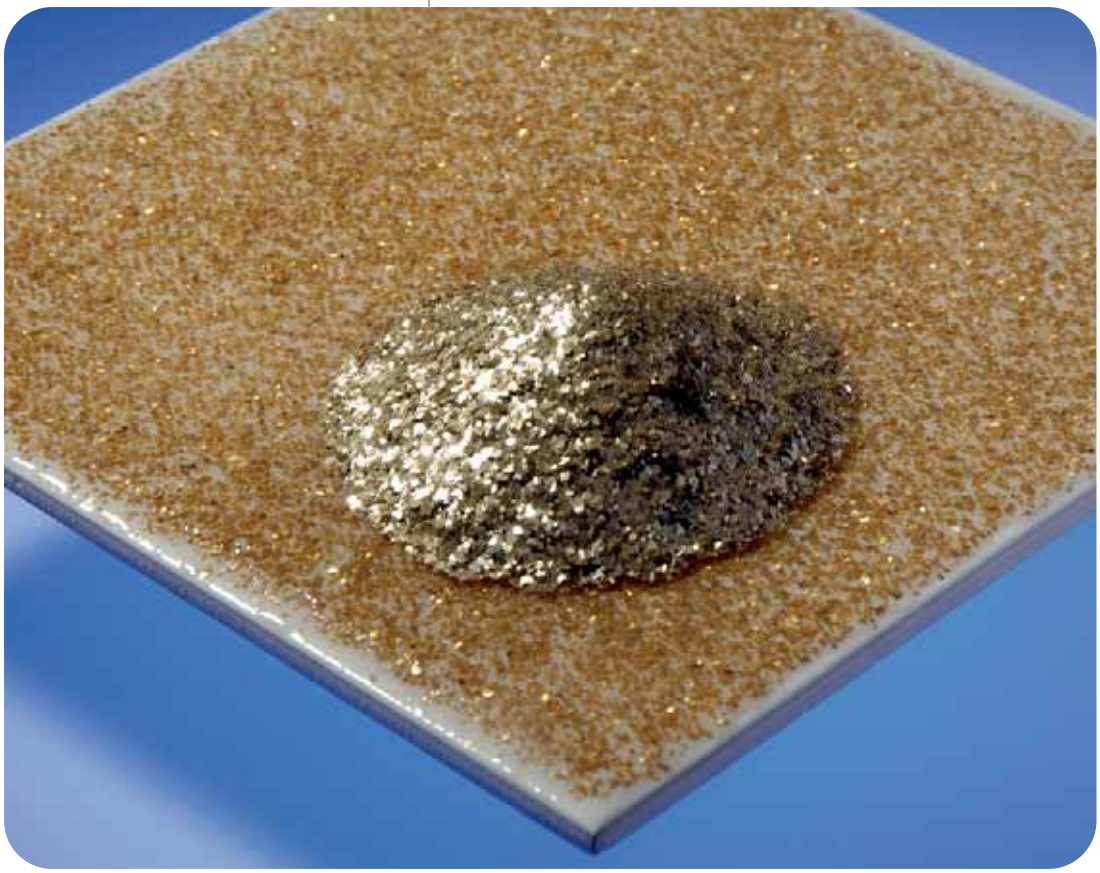
The third flame retardant product is FireCarb, a high quality expandable graphite product.
The structure of the graphite is formed by layer sheets of carbon atoms. With an acid treatment acid solution is placed between the carbon layers. Then the material is washed and dried, the acid solution remains within the layers. The final product is a dry, pourable, clean material with low surface acidity.

The main characteristic of FireCarb is the ability to expand when heated. When exposed to heat the acid solution that had remained within the layers, evaporates and the gases produced push the layers apart. The tremendous volume expansion of more than 350 times makes the product very effective. The expansion has an additional benefit as it creates high pressure, especially when space is limited. At the same time an insulating carbon layer is formed which protects the surface against the effects of heat.

Expandable graphite is primarily used as an active agent in intumescent passive fire protection products. It formes a slight insulating layer that prevents the spreading of fire and smoke. Paints for steel constructions in the building industry, bitumen and many other plastics benefit from these features.

In addition to flame retardants, the portfolio of Minelco contains many other products, for example Wollastonite, a naturally occurring white mineral. It is used extensively in the production of ceramic glazes and as a non-hazardous replacement for asbestos, for friction linings, in paints and as fibrous reinforcing filler in many other applications.
DekorFlakes are designed for interesting effects on the surfaces of paints, plasters and floor covering etc. DekorFlakes are selected mica flakes that impart a decorative metallic effect. The product is available in bronze, silver, gold and black colours, and in different particle sizes. All qualities are stable against UV, and resistant against weather, heat and chemicals.

At any time our sales representatives will be pleased to give you qualified and individual advice on the use of these products.



DekorFlakes are selected mica flakes that impart a decorative metallic effect - available in bronze, silver, gold and black colours

DIATOMACEOUS EARTH - A Versatile Raw Material

The diatomaceous earth is a very old raw material that is so versatile that it is used in many sectors – from modern agriculture up to various industries. Maybe this substance, also known as kieselguhr, is the ideal substance for you!

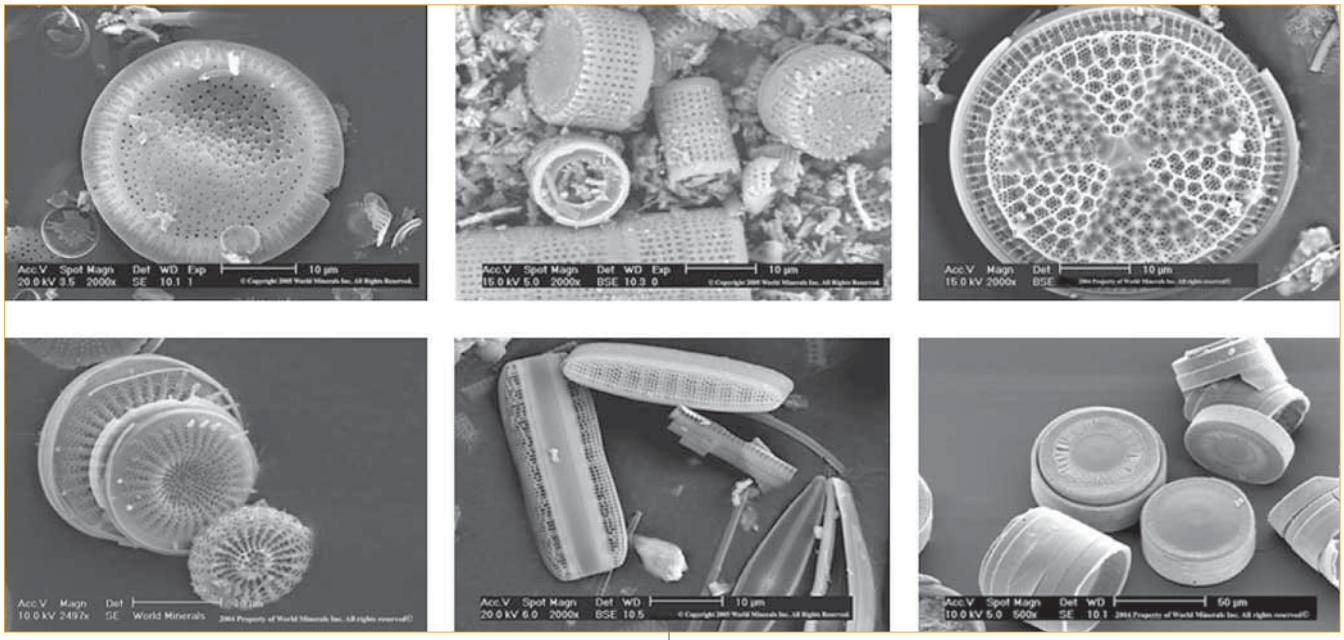


Photo: Imerys Minerals Ltd.

AUTHOR: **GERHARD ZIMA**

The diatomaceous earth better known as kieselguhr or rock flour is a whitish powdered substance formed by fossil diatoms skeletons. The skeletons consist largely of amorphous silicon (mineral silicic acid) and they have a high porous structure. A distinction is made between salt and fresh water diatomaceous earth depending on where the diatoms lived million years ago, in sea or in fresh water. Responsible for the unique properties of this multifunctional mineral product are: the composition of the natural silicon dioxide compound, the structure of the diatoms particles and the porosity of the structure. There is no other source of silicon dioxide, natural or chemically synthesised, with such a structure. The key for the extraordinary characteristics of diatomaceous earth is the microstructure - each diatom is larded with thousands of wholes. Usually they have three different sizes - diameters from only a few microns up to submicron. The number and the size of wholes vary from species to species.

USE – MARKETS

Filtration

Due to the inert silicon dioxide structure with its numerous micro pores the diatomaceous earth has remarkable features that are needed for the formation of the filter cake at the filtration of liquids. For the filtration of beer, wine, sugar syrup, fruit juices, vegetable oils, antibiotics and industrial chemicals, to name but a few, the outstanding filtering capability of the diatomaceous earth is used.

Substrate

Due to its porous structure it has the ability to bind liquids. This feature is used to produce powdered additives from liquids. Alfred Nobel already granted himself the benefits of this ability by mixing the nitroglycerin, which is very sensitive against vibrations, with diatomaceous earth. The result was the shock resistant dynamite.

Biological agriculture

The diatomaceous earth often is used in poultry keeping, for example in chicken farms, as a natural pesticide for the combatting of mites. The fine shell fragments cause mechanical damage in the digestive tract, which ultimately leads to dehydration.

Industrial Applications

In the paint and coatings industry the diatomaceous earth is used as a matting agent, and, due to its micro structure for breathable coatings. As the heat-treated calcined qualities have a very high degree of whiteness they are used as a titanium dioxide extender (benefit: savings of a very expensive raw material)

In plastics industry the diatomaceous earth is used as an additive, for example for the “anti-blocking” in film production to prevent layers to stick together.

The manufacturers of building materials take advantage of the water storage capacity of the diatomaceous earth. The “open time” during plastering can be enhanced, which makes, in turn, the application of the plaster much easier, because the transitions can be smoothed easier and for a longer time. As the particles of the diatomaceous earth have the ability to adsorb water they swell and thus cracking due to the shrinkage of the plaster is prevented.

The complete list of the various applications of the diatomaceous earth is very long, and it would go beyond the scope of a short description, but it is already clear that this substance is a very versatile raw material, and maybe it precisely fits also your needs.
Please call us and we will be delighted to advise you on your individual application.

Diatom skeletons under the electron-microscope

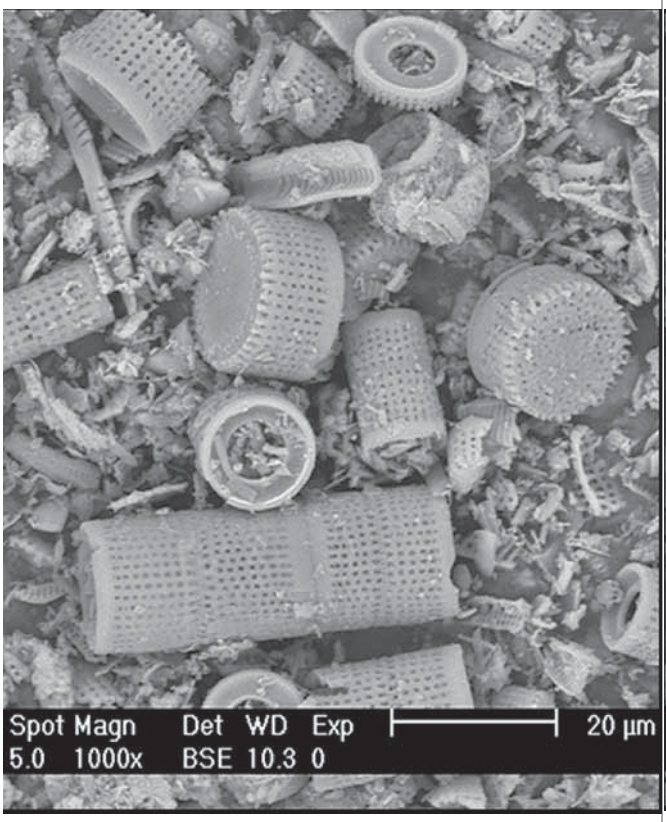


Photo: Imerys Minerals Ltd.

MICROSTAR®SYSTEM

Next Generation Retention System with significantly improved efficiency

Photo: Spiola

AUTHOR: **HOWARD JOHNSTON**

The major driver in Fine Paper production in modern times is maintaining and improving cost performance through:

- Reduction in Variable costs
- Improvements in runnability, productivity and machine efficiency

One way of achieving this is through the use of advanced retention and drainage programs such as MicroStar®, which improves productivity and enables the use of higher filler levels.

After a period of research and testing, the MicroStar®System was officially launched at the start of 2010. This integrated solution for the Wet End consists of a three component system bringing together both organic micropolymers and inorganic microparticles to allow retention and drainage characteristics to be independently optimised. This provides more flexibility to produce the effect the papermaker wants to achieve and offers benefits such as improved formation and sheet quality, printability and increased filler levels as well as a more stable Wet End operation.

The MicroStar®System has now been installed on a number of world class papermachines and has been confirmed as adding substantial value to our customers operations in terms of the overall cost performance.

At the end of 2012, a MicroStar® trial was carried out to investigate benefits which could be obtained against a competitive three component retention and drainage system. This involved replacing the three components with ACAT® products and optimising the addition sequence.

ACAT® Products used were:

- RetStar® 201P - Medium Cationic Polyacrylamide Powder
- MicroStar® 2400 - Anionic Micropolymer Emulsion
- BentStar ®S190 - Modified High Whiteness Bentonite

The papermachine was a Voith Duoformer

- Production Rate – 35t/hr
- Paper Grades – 80gsm Copier, 60gsm and 70gsm Copier Grades
- Speed – 1400m/min
- Ash Content - 18% PCC
- ASA/Starch Size

The trial objectives were to reduce the overall retention and drainage costs without any impact on production output and quality. A longer term possibility is to increase filler levels through the use of improved filler retention mechanisms.
Trial Results, compared to the competitive three component system:

- RetStar® 201P - addition level across all grades showed a 34.1% reduction
- MicroStar® 2400 - addition level across all grades was the same
- BentStar® S190 - addition level across all grades showed a 10.9% reduction.

The chemical dosage was controlled to the required backwater consistency for each grade produced.
The overall conclusion was that the combination of RetStar® 201P, MicroStar® 2400L and BentStar® S190 , together with optimisation of the addition sequence increased retention and drainage on the paper machine and resulted in a substantial reduction in treatment costs.

FOR THE BENEFIT OF OUR CUSTOMERS: Concentration of Core Competencies

ACAT and Servophil AG are now strategic partners at specific customer projects. Our aim is to combine the expertise of both companies in order to offer our customers a quick and target-oriented solution of problems or an optimisation of processes.

AUTHOR: **MARKUS LEX, SERVOPHIL AG**

Photo: Servophil AG

Servophil AG was established in Switzerland in 2005. It is an innovative and flexible private company that currently employs 25 dedicated and motivated people, and, if needed, backed by external specialists.

In Austria and in Switzerland the process chemicals mainly used in paper, board and pigment industry can be applied in own, partly patented formulations.

The main product groups are:

- Preservatives for all raw materials, semi-finished products and auxiliary materials
- Slimicides for all areas of paper industry
- Biocides for the treatment of fresh water
- Various cleaning systems
- Scale inhibitors, impurity control agent
- Defoamers, deaerators

Modern dosing systems adapted to individual customers' needs are used for the application of Ser-

vophil products. The installation and commissioning of the systems are carried out by trained service staff.

ACAT und Servophil make use of their common experience and knowledge about products to quickly develop cost-optimised solutions for their customers. The cooperation is project based, and of course, it only takes place if the customer agrees. We are convinced that our cooperation is a great opportunity for our customers. Mutual trust in cooperation and the fulfillment of customer requirements have always been top priority.

After successful laboratory tests and first successful operational tests we create a specification. One of the cooperation partners adopts the SERVICE contract for the customers and is responsible for the quality of the delivered products and for the maintenance of the systems. On request a contact person is always available. Regular meetings of the cooperation partners and the customers ensure continuous optimisation of the processes.

With this measure we are able to concentrate professional competencies and to optimise staff deployment (which means that we can serve more customers and/or

Foto: Servophil AG

that we have additional staff capacities for application tests), and as a result we can offer cost-optimised use of products.

The first joint projects have already been implemented and the available results show that we have chosen the right strategy.

If you are interested in a competent personal consultation on-site, you are welcome to give us a call or send an e-mail.
We look forward to a successful collaboration!

Coming together
is a beginning.
Keeping together
is progress.
Working together
is success.“
Henry Ford

ECOSORB® 606 - THE BEST SOLUTION TO ODOR CONTROL:

Waste Water Plant Application

Sewage and industrial plants, which are located near residential areas, can be subject to political and legal problems, if these facilities produce unpleasant odors. In the case of a sewage plant and the associated collection system, ECOSORB® 606 is used to control odors.

In Malta Waste Water Plant we installed a High Pressure System to dose ECOSORB® 606

AUTHOR: **CLAUDIO BOSCOLO**

The substances, which are responsible for the diffusion of odors into the atmosphere in the vicinity of treatment plants, are generally inorganic gas products or highly volatile organic compounds. The inorganic products are mainly the result of biological activity in sewage and the organic compounds are often caused by the presence of industrial waste, in the sewer.

The following compounds are associated with bad odors:

- Mercaptans,
- Inorganic acids,
- Aldehydes,
- Ketone
- Organic compounds which contain nitrogen or sulfur atoms.

These compounds are a result of the anaerobic decomposition with a high molecular weight, especially proteins and are recognized as being among the causes of bad-smelling odors at the outlet of sewer lines and in treatment plants in general.
Ammonia and hydrogen sulfide, which are the inorganic compounds, are considered to be the main cause of odor, when the sewage comes mainly from households.
In gravity sewer systems, in which the speed of the sewage flows, thus allowing for continuous re-aeration, there is no significant production of hydrogen sulfide or other odor causing reasons.
Under such circumstances, however, it has been determined that odors can still find favorable conditions to form the sludge film that covers the submerged surface of the sewer lines. The hydrogen sulfide, which is formed in these areas, diffusing into the overlying sewage, lowers the redox potential, counter-balancing the opposite effect of the natural reaeration. Therefore it can be understood how septic conditions may arise in low-speed sewage which trigger very intense activities on the sulfate-reducing bacteria.
These conditions can become more severe if the collection lines are particularly long and the system is located in a region that experiences high temperatures.
Sewage and wastewater odors are more often associated with hydrogen sulfide and ammonia. ECOSORB® 606 is the solution against these odors.

In typical airborne applications of ECOSORB® products, the atomized (High Pressure System) or vaporized (Vapour Phase System) material is carried into the atmosphere where it attracts, or is attracted to the odors in the atmosphere; whether it is a pleasant, malodor, or particulate odor.
The selection, of which method works best, depends on the concentration of the odor causing compounds, the air flow rate, the area of the system and the capital budget. In any event, the odor is eliminated.

A spraysystem was installed; the picture shows a noozle detail

MALTA WASTE WATER PLANT

The waste water plant in Malta was built two years ago. Immediately after construction, they were confronted with odor problems. In particular, in the primary settlement (60,000m^3/day of sewage) - which deals with crude sewage, originating from sedimentation pools. Furthermore, the long summer, with high temperature, increased the unpleasant odours.
The manager was forced by the population of the village, which was built very close to the plant, so solve the odor problem.

ECOSORB® 606 was proposed for a trial.
We installed a High Pressure System to dose ECOSORB® 606. A spraysystem was installed on the perimeter of the pools in order to cover all area on the pools. More than 90 nozzles were fixed onto the perimeter to have a perfect distribution of ECOSORB® 606 droplets, to neutralize the odor molecules.
The trial with ECOSORB® 606 was successful and the equipment was purchased for permanent installation. The ECOSORB® 606 dosage is intermittently based on a variety of factors including temperature, wind speed and direction, and potential for odor complaints.
ECOSORB® 606 Remarkably effective ... surprisingly simple

WATROPUR - A Strong Partner for the International Distribution of the ACAT Screw-Press

AUTHOR: **EWALD KERN**

After the very successful introduction of the ACAT screw-press in our home markets, the key goal for the near future is to broaden our horizons internationally by selling components. It is no secret - choosing the right partner is an essential pre-requisite for the successful expansion of a sales network.

The most important criteria for choosing the right partner are a strong existing positioning in the respective market segment and relevant marketing resources. We are delighted that we have found with WATROPUR an experienced and competent cooperation partner, who obviously meets this profile.

Watropur AG based 3800 Unterseen-Interlaken, Switzerland is a globally active, very successful manufacturer. Their core business is the development, manufacture and maintenance of WATROMAT® sludge dryers for industry and municipalities. In its 21 years of existence Watropur has built 1500 sludge dryers, installed on four continents and 50 countries. The great variety of dryers helps to find the most suitable one for the drying of mechanically dewatered sludge created by various dewatering technologies.

We are convinced that we have found in the Watropur AG and its subsidiaries a strategically important and experienced partner, and we look forward to successful cooperation.

ACAT screw press type AS 250 pre-installed on a Watropur belt dryer

RHV BRAUNAU AND SURROUNDING AREAS: Successfully Realised Economic Measures

More and more in sewage treatment plants it is necessary to replace complete plant sections to achieve the necessary adaptions concerning reliability and economy in operation with specific targeted measures. At the "Reinhaltungsverband Braunau and surrounding areas the existing plant sections for lime storage, lime dosage and sludge handling were integrated into the new plant concept of a mechanical sludge dewatering with screw presses.

Two ACAT screw presses in parallel operation

AUTHORS: **EWALD KERN AND DIETMAR STRECKER**

For a long time, the chamber filter press of the KA Braunau (installed in 1992) has operated satisfactorily. With the increasing amount of sludge in the catchment area, which required additional hours of operation even on weekends, economic operation was no longer possible. The current situation and the future requirements were the major points in the choice of

the most appropriate dewatering technology. The managing director of the RHV Braunau, DI Hauser, and the planning office TB DI Knoll prepared a particular package of measures. The project with defined technical and economic quality requirements was tendered. One award criterion for the contract was “the lowest bid” and in October 2012 the contract was given to ACAT Vienna.

In the meantime the chamber filter press was dismantled, the old lime plant for the liming of the dewatered sludge with quicklime was technically reconditioned and adapted, two ACAT screw presses “made in Austria” in material design V4A were installed. The new system is already in full operation. During reconnection work, sludge was dewatered by an ACAT mobile drainage unit.
The two ACAT screw presses type AS 0505 S (capacity 6t DS/d) drain the sludge of the waste water treatment plant continuously in a 24-hour operation. As soon as a container is fully filled with drained sludge the installed EMSR technique emits a signal to change the container.

In the case of a further increasing sludge throughput, the extension with a third screw press is already planned. For the further improvement of efficiency the staff of the sewage treatment plant collaborates closely with ACAT plant technicians to convert the sludge dewatering from liquid to solid polymers. Only through concentrated and optimised collaboration between all of the companies involved was it possible to realise these projects including major modifications during ongoing operation of the sewage treatment plant. Appropriate planning and sufficiently qualified employees are the keys to a successful implementation of complex projects.

Therefore, many thanks to the relevant employees of the RHV Braunau, to the planning office TB DI Knoll and to our suppliers for this very successful teamwork.

Spiral conveyor for the discharge of dewatered sewage sludge

VERTICAL SCREENER MÜNCHENDORF-SEEDÖRFL

AUTHOR: CHRISTIAN KOZANDA

In 2012 the municipal sewage treatment plant Münchendorf-Seedörfl that treats the water of 150 inhabitants, was upgraded to the latest technological standards. The mechanical and electro-technical equipment were completely reconstructed and renovated.

The already outdated existing triple-chamber digester was modified to two SBR reactors, and a completely new ventilation system with hose ventilation and a fan was installed. The sludge storage tank with a suitable pump system was renewed and a vertical screen with a mesh of 6 mm was installed before the inlet chamber.

Before the incoming waste water reaches the submersible pumps, it is screened. Then the screenings are washed out, compressed and conveyed into a 120 liter screening tank that is situated above ground.

The new system has been already in operation for several months, and within the inlet pumping station no more toiletries are found and no more disturbing scum layers are formed, as in the past.

Symbolic photo vertical screener

A new operations building in "sandwich construction" was also supplied and installed. This building hosts the explosion-protected room for the screenings with the vertical screener and the switch room with the electrical switch and control system and the fan.

The new high-water pumping station has now an integrated opening to take samples

Customer:
Siedlungsgemeinschaft Münchendorf – Seedörfl
Head: Helga Reisenauer
Planning office:
Ingenieurgemeinschaft Umweltprojekte
Designer: DI Martin Peschl

BASF WATER SOLUTIONS

Develops Sustainable Innovations in Water Treatment

With its innovative water chemicals and state-of-the-art ultrafiltration membranes, BASF contributes to sustainable water usage, addressing the worldwide increasing water demand.

AUTHOR AND PHOTOS: **MATTHIAS LANG, BASF**

The growing world population and its rising expectations are set to be the biggest global challenges now and in the future. If nothing changes, we will need the resources of almost three of our planets in 2050 to meet the demands of the population. Chemical innovations play a key role in making our future a sustainable one. Anchoring sustainable development is at the core of BASF's purpose: "We create chemistry for a sustainable future."

BASF consistently expands its Water Solutions business to strategically bundle all existing products and expertise in water treatment, building a strong platform. The product range of BASF's Water Solutions business includes products used in the key processes of municipal and industrial water treatment. Products to clarify the raw water used for the production of drinking water, treating the waste water stream and reducing sludge volumes as well as for the treatment of industrial process water and the protection of desalination plants, cooling towers and boilers. BASF Water Solutions is the leading provider of inge ultrafiltration technology, a membrane process used to treat drinking water, process water, wastewater and sea water.

Matthias Lang, Head of Indirect Sales BASF Water Solutions

"For many years Applied Chemicals Application Technology (ACAT) and BASF are very successfully working together. In Austria and Switzerland ACAT is the exclusive dealer and distributor of BASF water treatment chemicals. The technical competence of ACAT is one of the key pillars of the success. In the future, we will continue to build on this strong partnership." Matthias Lang, Head of Indirect Sales Europe, Africa and Middle East, BASF Water Solutions

We create
chemistry
that helps water
love solutions.
BASF understands today's global water management challenges and is responding by delivering world-class technologies and developing sustainable solutions. From water production, through water use and water purification, BASF has leveraged its expertise and extensive capabilities to protect, conserve and sustain the earth's most precious resource – water. As the world's leading chemical company, we are dedicated to your success by bringing to you over 100 years of comprehensive experience, technology, innovation and commitment. At BASF, we create chemistry.
www.watersolutions.basf.com
BASF
The Chemical Company

We Create Chemistry that helps water love solutions

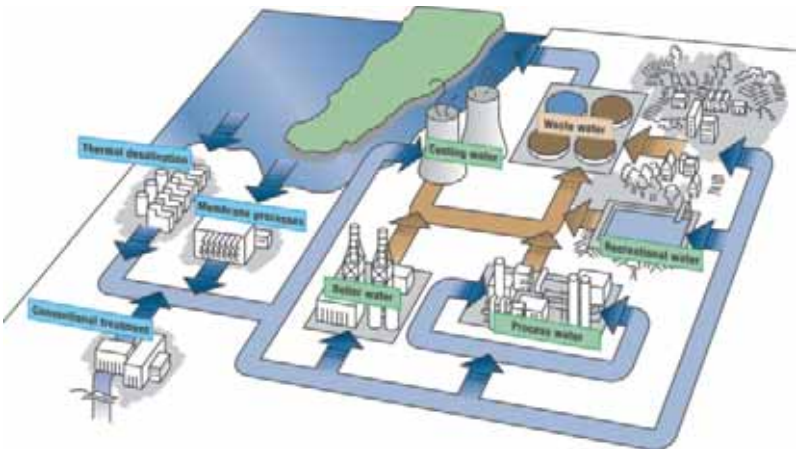
BASF's Zetag® Flocculant technology enables energy efficient and sustainable water treatment. Every 1% of water removed from sewage results in 5% lower transport costs and significantly lower CO2 emissions. Furthermore, if the cake is dry enough it can be incinerated as fuel to generate energy. The liquid Zetag 9000 Series is based on a chemical process enabling to produce linear, as well as highly cross-linked polymers. In addition, BASF offers a broad portfolio of solid flocculants varying in molecular weight and cationic and anionic charge.

The water soluble polymers of the Sokalan® RO product range prevent scaling in desalination facilities, thereby reducing the cleaning frequency of dirty membranes. In the feed water of reverse osmosis they decrease water hardness by keeping inorganic salts, colloids and metal hydroxides in solution. The products contain little or no amounts of phosphorus, which makes them very environmentally friendly.

Sediments that result from the treatment of minerals are prevented by the biodegradable chelating agents of Antiprex® CM. The organic and odorless methanesulfonic acid in Antiprex® MSA is used as an environmentally friendly cleaning agent in water treatment. Both product types are free of phosphorus and hence do not contribute to algal growth in aquatic environments.

3.000 times thinner than human hair: This is how small the pores of the Multibore® Membrane actually are. Even tinniest microorganism like bacteria, viruses and turbidities are not able to pass through the 10 to 20 nanometer sized filter pores. The patented technology combines seven single capillaries in one very robust fiber. This construction enhances the membrane stability, preventing fiber breaks. As a consequence, they run very reliably. For the water industry, BASF produces both the membrane modules and their chemical material, thereby realizing the strategic principle "We create value as one company".

Further information on our products can be found at www.watersolutions.basf.com.



ACAT SPONSORING

On the Occasion of the 150th Anniversary:
PROJEKT KLIMT 4 KIDS

Children teach children, was the motto of the event „Klimt 4 Kids“. A group of students of the “Tourismus- und Wirtschaftsschule Bergheidengasse” in the 13th municipal district of Vienna made it their business to give younger children an understanding of the famous Austrian painter Gustav Klimt, in a playful and in a creative way. And the event was a great success.

KLOSTERNEUBURG-VIENNA - Many months a group of the students planned an event. From the idea to its implementation was a long way, but the result was remarkable. The idea was to give younger children an understanding of Gustav Klimt and for 6 months the students worked on a play. They sewed dresses for Klimt and Co and created workbooks with drawings and clothes. On 15 January 2013, the project started and the event took place in the elementary school Kierling.

One room of the elementary school was converted into an Art Nouveau room with a painting corner for the children. The children of the classes participating in this project were very happy and excited. There were various stations, where the children could paint together with the students in the way Klimt did and they had to identify various painting tools from the time the painter lived, by touching them blindfolded. Landscapes were projected on a wall, and with rectangular picture frames the children chose sections of the image and tried to copy them. With interest the children followed the play written by the students. At the end the children decorated a “kiss-wall” following “the Kiss”, the most important picture of Gustav Klimt.

Text: Sophie Kenzian

On 14 July 2012 Gustav Klimt, one of the most important Austrian painters, would have celebrated his 150th birthday. His hometown Vienna celebrated the 150th anniversary on a grand scale with museums exhibiting the painter’s work, achieving record numbers of visitors.

ACAT Vienna is located in Penzing, the 14th municipal district of Vienna, where Klimt was born. This affinity and the wish to bring young people closer to the heart of this magnificent artist motivated us to sponsor this project.

VOLUNTARY WORK IS A MATTER OF HONOUR

Stefan Schaub, shares this opinion. Since 1983 he has been a member of the voluntary fire brigade Greinsfurth and has a leading position there as a commander. In Austria there are 4500 voluntary fire brigades and but only about 330 professional fire brigades. In the case of fire, traffic accident, chemical accident or other accidents – without the great number of volunteers, who spend a lot of their free-time for fire brigade operations, many things in our country would not work as they do or sometimes they would not work at all.

In Austria the municipalities are obliged by law to perform the duties of the fire brigade and the police. Normally they make use of the voluntary fire brigades.

Additionally larger companies have a fire service of their own, and Austria`s six biggest cities (Graz, Innsbruck, Klagenfurt, Linz, Salzburg and Vienna) have well-equipped professional fire brigades.

The voluntary fire brigades are an indispensable element of our security system and of disaster protection.

The fire brigade operational statistic shows: We definitely need every fire brigade and those who would only thinks of cost savings in the voluntary sector would destroy a security system proven over decades.

Even when a fire brigade is very small, its dedicated and well trained members are at the site of operation within a few minutes. We know that minutes could make the difference between life and death. The destruction of this extensive system would bring much suffering for the people in our country.
In this context it is worth mentioning other countries, for example, the popular holiday destinations Greece, Italy (except Trento and South Tirol) and Croatia. There are no voluntary fire brigades, but only so-called firefighter bases in bigger cities and if the emergency occurs in a remote area, response times can be up to 45 minutes. We really can be glad that there are women and men in our country, who are selflessly active for others in their municipalities. One of them is Stefan Schaub, who earns his money as head of the ACAT Paper Technology.

Firefighting in Austria

In Austria firefighting is organised in a federalist manner. Responsible or the fire brigades are the municipalities that are obliged by law to perform the duties of the fire brigade and the police. Furthermore, the fire brigades of the surrounding municipalities are organised in Fire Service Associations that are public bodies. And the Fire Service Associations again are members of the Austrian Federal Fire Association.
The Austria firefighting system is traditionally based on volunteers – 99% of the active members of the fire brigades commit themselves voluntarily – in cities as well as in small villages. Larger companies have a company fire service of their own. Austria`s six biggest cities (Graz, Innsbruck, Klagenfurt, Linz, Salzburg and Vienna) have traditional and well-equipped professional fire brigades

fire brigades (*total*)	4.863
voluntary fire brigades	4.531
company fire services	326
professional fire brigades	6
member of fire brigades (total)	337.004
women	13.706
active members	253.274
reserve	57.710
fire-brigade youth	26.020
total number of fire brigade operations	256.975
fire-fighting	62.954
technical interventions	163.228
other assistances	30.793

Quelle: Quelle: Homepage des Österreichischen Bundesfeuerwehrverbandes www.bundesfeuerwehrverband.at

Since 2006 Stefan has been commander of the voluntary fire brigade Greinsfurth, and since 2009 he is also the deputy of the "section-commander of the fire brigade" (the senior fire officer of a community consisting of max. 10 fire brigades)

Life-saving decisions and operations under extreme conditions are routine for him. Stefan Schaub is a firefighter with passion and he likes to collaborate with his" Florianijünger". As a commander of the fire brigade he knows very well the importance of a well- functioning team and he tries to implement this in his job too. His motto is: The crew is the basis of each team, and the basis of success.
Inside ACAT has interviewed him:

How many members does the voluntary fire brigade Greinsfurth have and what is the tendency?

Stefan: At the moment we have 74 members, 51 of them are active, 12 are reservists and 11 young people. We are particularly pleased about the development of the fire brigade youth, because the comprehensive range of leisure facilities does not make it easy to gain young people for a commitment that requires a lot of work, the ability to work in a team and a sense of duty. If they have an insight once, normally they like it.

Are there also women at your fire department?

Stefan: This was never a topic for us. Firefighting consists not only of energy- sapping special operations, but also in these cases the ladies do not take charity. They stand their ground in firefighting operations with respiratory protection, in water operations as well as in many other duties. For example one lady is our youth leader; another lady is responsible for the turnout gear of the firefighters and for our uniforms.

What does the fleet of vehicles consist of for the voluntary fire brigade, Greinsfurth?

Stefan: At the moment we have 5 vehicles. For the initial operation we mainly use a water tender with a capacity of 4000 litres extinguishing water. Additional we can provide approximately 5000 litres fire extinguishing water with a mini fire engine. Usually the fire crew transport vehicle is also used as a command vehicle. Furthermore, a logistics vehicle for different transport tasks and a command vehicle for official trips are available.

Can you tell me something about operational readiness?

Stefan: We also notice a deterioration at certain times that corresponds with the Austrian trend. But in Greinsfurth we benefit from the shift workers of the surrounding industries and hospitals. So normally there are still enough people for the first vehicle. It is rather more difficult to recruit the contingency reserve. Nowadays not many people work at home. Only a few companies let their employees leave to act as a volunteer in the case of emergency. So we were the first brigade of the municipality that changed the alerting system and now we have enhanced cooperation with our neighbour brigade.

Stefan, you have been a member of the fire brigade since 1983. What has changed in the last thirty years?

Stefan: Very much. The turnout gear of the firefighters is much safer now. Extinguishing procedure and extinguishing tactics have made substantial progress. Today the main objective is to minimise damage caused by the extinguishing water, this can be achieved, for example, by using more foam or by more targeted extinguishing attacks. The use of a thermal imaging camera is also very helpful.

Do you have a special wish for the future of the voluntary fire brigade Greinsfurth?

Stefan: That we can keep the staffing levels at least at the current level and that we can attract some more new volunteers, men and women. Apart from that we are in a good position. Over the years we have demonstrated our competence in various large-scale operations.

The most spectacular operations of the voluntary fire brigade Greinsfurth in the recent past:

Major fire in the waste management center

The reason was probably a spontaneous ignition of the waste, so in the middle of the night the fire brigade was called to extinguish the resulting major fire. More than 200 fire fighters and 30 vehicles fought against the flames, and in the early morning hours the fire was successfully extinguished. A shuttle service with water tender vehicles had to be organised to ensure sufficient extinguishing water .

Traffic accident at a railway crossing

Due to unknown reasons despite the red lights, a car has tried to cross the railway tracks. The approaching train had no time to brake and he hit the car with full force. The driver was killed in the accident; both children sitting in the back seats were only slightly injured.

Major fire in the gravel plant

Hot work caused a major fire in the gravel plant. Alert state B4 took effect and more than 15 fire brigades with 200 fire fighters and 28 vehicles were in firefighting operation. Apart from the usual challenges there was the risk that the steel skeleton tower would collapse. Due to the very cold outdoor temperatures the supply of extinguishing water from the frozen pond was very difficult.

Chemical accident in a large laundry centre

Via the overflow of a washing machine hot suds entered the bleach tank. This caused a self-decomposition of the sodium dithionite and sulphur dioxide gas was built. The building had to be evacuated; more than 20 persons were treated in the hospital in Amstetten with suspected incorporation of sulphur dioxide. After the recovery of the tank and extensive ventilation measures the operation could be resumed. It was carried out by the voluntary fire brigade Greinsfurth and the hazmat unit Amstetten with its special equipment

ACAT - SIDE-GLANCES

Curling tournament at Clariant in Moosburg/Germany

ACAT Team "Dry Strength" gave it all…

Clariant, one of our most important suppliers of bentonites invited us to the fourth curling tournament in Oberhummel near Moosburg - and we happily accepted this invitation!
Fun was guaranteed as in previous years, especially as Hubertus Besting/Clariant successfully manages to attract a good mix of customers and own employees to participate in this annual tournament.
Long journey did not deter many participants who travelled from foreign countries to take part. Also encouraging was the high number of female participants, who - with great sensitivity - often made for a good placement of the stick in the game.
Curling is one of the oldest sports in general. It is played mainly on firm ground such as on an asphalt track - or - like at SC Oberhummel - on a surface of paving stones.
Unfortunately our team, ACAT "dry strength" was not able match its good performance in recent years, this year we only gained the fifth place in the midfield. Of course we will take part next time again for sure – and we are looking forward to this.

Text: Nuri Kerman

… and gained the fifth place in the midfield

Theo and Sabine: Just married!

"Look before you bind yourself forever", this quote was taken to heart by Theo Weinbrenner and Sabine Spieler. After ten years of "trial run" they said YES on 12 April at the registry office in Scheibbs - and celebrated this feast of joy afterwards amongst their family and friends. Congratulations!

BE WELCOME, BABY!

Yippee, Lujza was born!

Only 2750 grams, but 51 centimeters was Lujza, when first looking into the light of the world on January 13. Mama Betty Oleàr is completely happy about her little sunshine and the whole ACAT-family is as pleased as the proud parents!

ANNIVERSARIES

Christian Suter - 10 Years ACAT

For the past ten years Christian Suter has worked for ACAT. He is the classical field representative. He has always succeeded in being close to the customer, implementing their needs efficiently in collaboration, whenever it was possible. Sometimes the solutions were very creative. Christian combines his chemical knowledge with his training as a mechanic and his experience. The results are pragmatic, integrated solutions.
Christian, we appreciate your independence and your work discipline, but also your open-minded straightforwardness that promotes discussions and topics. We want to thank you for the last ten years and we look forward to another 10 years at the ACAT team.

Gerhard Zima - 10 Years of Full Commitment

For 10 years Gerhard Zimmer has been a great support for the ACAT department for industrial chemicals. Because of his extensive industry experience he is a competent contact person for our customers and they can rely on his advice. His experience is extremely valuable in launching new products, which he prepares and champions excellently. Since he is responsible for the Hungarian market he has attended a language course to learn Hungarian. In private life he assists his wife in her various projects, he likes dancing and you often can find him in the forest doing woodwork. We hope that Gerhard will be with us for many more years and we want to take this opportunity to thank him for his excellent cooperation.

Aldo Randisi - 10 Years ACAT

We introduced Aldo in the last issue of „inside ACAT“, because he changed his field of activity within the company, but he has already been member of our sales team for 10 years. He has much energy and a very sound knowledge of foreign languages. With the support of the sales activity of FreshWave® IAQ in Europe Aldo reassumes a lot of responsibility, and he has already recorded the first long-awaited remarkable success.
Aldo, we appreciate your dedication. You are never too tired to contact a new customer. Your passion for travelling around, your open nature and your positive dealing with conversational partners opens much additional potential.
Discipline and professionalism after the completion of a transaction characterise you and opens new opportunities. We would like to thank you for the last ten years and we wish you much success for the expansion and growth of the FreshWave®IAQ activities.

Ronald Poelgeest: 10 Years ACAT Systems Engineering

For ten years Ronny Poelgeest is doing “front work” for ACAT.
If there is a real plant engineer all-rounder, dear Ronny, it is you. From the components for the mechanical preclarification to sludge dewatering technology with all the different systems up to solar sludge drying, in all these sectors you got excellent personal references.

And the successful launch of our systems engineering on the Swiss market is mainly due to your activities. The difficulty to enter the international markets is a challenge for you and therefore you are willing to accept private restrictions. You are what is called a real team player in the service of the ACAT-team!
We decided to take this special occasion to say from the bottom of our hearts:
“Thank you, Ronnie”!

20 Years Reinhold Frech –A Styrian Prehistoric Rock!

Over the past 20 years in field service for paper technology Reinhold has made a major contribution to the success of our department. Reinhold is a very loyal colleague and doesn't beat about the bush with constructive criticism, and we all appreciate that.
Customers appreciate his reliability and his tireless efforts in service. Right around the clock he supports his customers with advice and assistance, sometimes even on weekends. Because his focus is on customers, and he makes their interests his own.
He meets this high demand also in private life. He spends much time in the mountains: in winter with mountaineering skis and with his mountain-bike as soon as temperatures are rising. No mountain top is too high, no road is too steep for him. His sport comrades are sometimes a little bit jealous when Reinhold climbs with the chamois.
It's hard to believe that there is still time left to do craftsmen work as a hobby. In the house of his parents-in-law he has created a home for himself with an astonishing attention to detail, where he would like to enjoy his time after his professional life.
Reinhold, we wish you good health and a lot of strength energy for the future challenges in your work and in your private life!

NEWCOMERS

Martina Kozanda

We would like to welcome Martina Kozanda to the ACAT plant engineering team. Martina has a HWL graduate for environmental economics and she will support her father Christian Kozanda at the "base Feistritz" in all administrative matters. She loves nature and animals, and therefore she works in her free time at her family farm, which is situated at a high altitude. Dear Martina - much success in starting working life and welcome to the ACAT team!

Kenan Engerini

Since November 2012 Kenan Engerini has been working for the ACAT-team. He has completed training at the HTL for Food and Biotechnology and previously he has been employed at a well-known water technology company. His primary task at our company is to support the market launch of Fresh Wave®IAQ. Additional Kenan is entrusted with the task to identify synergies between the industrial sale of Ecosorb® and the commercial sale of FreshWave®IAQ and consequently to take advantage of synergies.
Kenan likes fitness training and athletics. At the Olympic Games 2006 in Turin he has recorded remarkable success with the Austrian bob team. Because of his enthusiasm to get things done we look forward to an exciting and successful future. We are convinced that he will be a valuable enrichment of our FreshWave®IAQ sales team and that we have gained an excellent employee.

Edmund Assibi

Edmund, who is a from the West African country of Ghana, attained a double-discipline Bachelor of Arts degree in Economics and Psychology from Lawrence University in Wisconsin (USA) in 1999 and has since gained valuable experience through various global roles in Management Consulting and Investment Banking (USA); Commercial Banking (Singapore & Ghana), and International Business Development (Austria). His professional interests center around designing and executing Feasibility Studies and Due Diligence assessments, preparing Financial Models and developing Business, Marketing and Strategic Plans. Alongside working in his current role at ACAT, he is pursuing a MSc. in International Management focusing on the areas of Corporate Finance, Entrepreneurship and Innovation which he will conclude in July 2013. Edmund is a diehard supporter of Manchester United football club and aside he enjoys traveling and playing golf in his free time.

Willi Schober

Willi Schober has already worked occasionally at ACAT. From now on the trained machine fitter is a full-time employee of our company. Willi is an Austria-wide assembler for repair work of sewage treatment facilities and for the installation of new plants. Only a few words are enough - he knows exactly what to do, because he did it so many times before. There are very few assemblers having both, a solid training including installation experience and an immense commitment. Willi Schober is one of this rare species. In his free time he pays a lot of attention to the care of his swimming-pond or he works on his beloved old-timers (he can't help doing it!). Dear Willi, "all the time we have been missing someone like you", and in this case it is really not meant to be tongue-in-cheek!

OUR PRODUCTS:

chem tech

Various speciality chemicals for the paint-, building supply-, ceramics-, polymer-, and various chemical industries

Defoamers, Powder Defoamers and Specialties
Wetting and Dispersion Agents and Additives
Thickeners and Rheology Additives
Agricultural Products
Mineral Flame Retardants
Pigments and Pigment Preparations
Fillers

enviro tech

air tech

Environmental products for improvement of soil and air aside of waste water treatment

Odour Control Aids and Application Systems for Several Industries and Commercial Applications
Leading-Edge Technology to provide continuous on-site Odour Monitoring and Dispersion Modelling
A unique System for removing VOC's (Volatile Organic Compounds), TRS (Total Reduced Sulphur) and Odours from industrial Exhausts
Portable Measurement Instrument for Capture and Transmission of Gas Concentration in Air

machine tech

Designing, producing and installing of make-up and storage equipment

Complete Solutions and System Components for Mechanical Sludge Dewatering
Process Engineering
Solar Drying Systems
Low Temperature Conversion
Components of a Mechanical Sewage Treatment Plant
Machinery Service / Spare Part Sales

water tech

Chemicals and specially designed equipment for municipal and industrial effluent treatment and odour control

Flocculants and Coagulants
Ferric and Aluminium Salts
Biochemical Products
Odour Control Aids
Defoamers and Deaeration
Special Products for Cooling, Boiler and Condensate Systems
Make up and Dosing Systems

paper tech

Chemicals, minerals & machinery for all kinds of paper and board production processes and effluent treatment

Retention Aid Systems
Fixing Agents and Coagulants
Bentonites and Flocculants
Dry Strengths Products
Defoamers and Deaerators
Coating and Size Press Additives
Machinery and Equipment
Odour Control Aids

acat.com

Your global partner for better solutions

ACAT International Group
Neubadstrasse 7
4015 Basle
Switzerland
T +41 61 282 82 80
F +41 61 282 82 89
international@acat.com

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